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### Administrative and budgetary aspects of the financing of the United Nations peacekeeping operations

#### Letter dated 21 August 2023 from the Secretary-General addressed to the President of the General Assembly

The General Assembly, in its resolution [77/303](#), took note of the report of the 2023 Working Group on Contingent-Owned Equipment ([A/77/736](#)). I have the honour to transmit the 2023 edition of the Manual on Policies and Procedures concerning the Reimbursement and Control of Contingent-Owned Equipment of Troop/Police Contributors Participating in Field Missions.

In accordance with General Assembly resolution [59/298](#) of 22 June 2005, the Manual is being distributed as a United Nations document in all six official languages. This will allow Member States to become fully conversant with the policies, processes and procedures relating to contingent-owned equipment and ensure common understanding of such procedures and improve their effective application.

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\* [A/78/150](#).



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## Manual on Policies and Procedures concerning the Reimbursement and Control of Contingent-Owned Equipment of Troop/Police Contributors Participating in Field Missions

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## Chapter 1

## Chapter 1

## Introduction

1. The General Assembly, in its resolution [50/222](#) of 11 April 1996, authorized the implementation of new procedures for determining reimbursement to Member States for contingent-owned equipment. The present Manual on Policies and Procedures concerning the Reimbursement and Control of Contingent-Owned Equipment of Troop/Police Contributors Participating in Field Missions (the COE Manual) details the procedures authorized by the General Assembly. The COE Manual replaces the previous methodology whereby troop/police contributors were reimbursed based on in and out surveys and the depreciation of equipment.

2. This system saw its genesis in the report of the Secretary-General ([A/48/945](#) and [A/48/945/Corr.1](#)) and the report of the Advisory Committee on Administrative and Budgetary Questions ([A/49/664](#) and [A/49/664/Add.1](#)), in which problems related to the planning, budgeting and administration of peacekeeping operations were presented to the General Assembly. The Assembly, in its resolution [49/233 A](#) of 23 December 1994, authorized the Secretary-General to proceed with a reform of the procedures for determining reimbursements to Member States for contingent-owned equipment provided to field missions. It subsequently authorized implementation of the system in its resolution [50/222](#) of 11 April 1996.

3. Since 1995, Working Groups made up of technical and financial experts from Member States have met to make recommendations to the General Assembly on the policies, standards and rates of reimbursement for contingent-owned equipment. The reports of the Working Groups, the associated reports of the Secretary-General and the Advisory Committee on Administrative and Budgetary Questions, and the related resolutions of the Assembly are listed below.

| <i>Working Group</i> | <i>Report of the Working Group</i>                                 | <i>Report of the Secretary-General</i>                       | <i>Report of the Advisory Committee on Administrative and Budgetary Questions</i> | <i>General Assembly resolution</i>         |
|----------------------|--|--|---|--|
| Phase II             | <a href="#">A/C.5/49/66</a>  |  |   |  |
| Phase III            | <a href="#">A/C.5/49/70</a>  | <a href="#">A/50/807</a>                                     | <a href="#">A/50/887</a>  | <a href="#">50/222</a> of 11 April 1996    |
| Phase IV             | <a href="#">A/C.5/52/39</a>  | <a href="#">A/53/465</a>                                     | <a href="#">A/53/944</a> and <a href="#">A/53/944/Corr.1</a>                      | <a href="#">54/19 A</a> of 29 October 1999 |
| Phase V              | <a href="#">A/C.5/54/49</a>  | <a href="#">A/54/795</a>                                     | <a href="#">A/54/826</a>  | <a href="#">54/19 B</a> of 15 June 2000    |
| Post-Phase V         | <a href="#">A/C.5/55/39</a> and <a href="#">A/C.5/55/39/Corr.1</a> | <a href="#">A/55/815</a>                                     | <a href="#">A/55/887</a>  | <a href="#">55/274</a> of 14 June 2001     |
| 2004                 | <a href="#">A/C.5/58/37</a> and <a href="#">A/C.5/58/37/Corr.1</a> | <a href="#">A/59/292</a>                                     | <a href="#">A/59/708</a> and <a href="#">A/59/736</a>                             | <a href="#">59/298</a> of 22 June 2005     |
| 2008                 | <a href="#">A/C.5/62/26</a>  | <a href="#">A/62/774</a> and <a href="#">A/62/774/Corr.1</a> | <a href="#">A/62/851</a>  | <a href="#">62/252</a> of 20 June 2008     |
| 2011                 | <a href="#">A/C.5/65/16</a>  | <a href="#">A/65/800</a>                                     | <a href="#">A/65/830</a>  | <a href="#">65/292</a> of 30 June 2011     |
| 2014                 | <a href="#">A/C.5/68/22</a>  | <a href="#">A/68/830</a>                                     | <a href="#">A/68/867</a>  | <a href="#">68/282</a> of 30 June 2014     |
| 2017                 | <a href="#">A/C.5/71/20</a>  | <a href="#">A/71/802</a>                                     | <a href="#">A/71/872</a>  | <a href="#">71/296</a> of 30 June 2017     |
| 2020                 | <a href="#">A/74/689</a>   | <a href="#">A/74/698</a>                                     | <a href="#">A/74/754</a>  | <a href="#">74/279</a> of 30 June 2020     |
| 2023                 | <a href="#">A/77/736</a>   | <a href="#">A/77/757</a>                                     | <a href="#">A/77/832</a>  | <a href="#">77/303</a> of 30 June 2023     |

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4. The basic principles of this system are simplicity, accountability, and financial and management control. These are accomplished by reducing the administrative burden on troop/police contributors, the Secretariat of the United Nations and field missions, standardizing reimbursement rates on an equitable basis and applying common standards to equipment and services to be provided. Furthermore, accountability and control are ensured by the system relying on an a priori agreement between the United Nations and the troop/police contributor for the leasing of equipment and the provision of services to personnel. The memorandum of understanding eliminates the need for detailed surveys of equipment, spare parts and consumables, and places the responsibility for asset management on the troop/police contributor. The responsibility of the United Nations is to ensure that the field mission has the personnel and equipment required to fulfil its mandate; that the troop/police contributors provide personnel, equipment and services as detailed in the specific memorandum of understanding; and that the contingents perform according to the established standards. The revised model memorandum of understanding, including all Working Group recommendations approved by the General Assembly, is contained in chapter 9 of the present document.

5. This system focuses on managing rather than accounting for contingent-owned equipment. It is performance driven, provides for transparency of deployment, as well as accountability, and enables Member States to appreciate their commitment to peacekeeping at the outset, thus leading to simplified budgeting and reimbursement.

6. The COE Manual is a consolidation of the recommendations of the Phase II, III, IV, V, post-Phase V, 2004, 2008, 2011, 2014, 2017, 2020 and 2023 Working Groups as approved by the General Assembly, and provides clarification and explanations, where required, on the implementation of these recommendations. The COE Manual contains the policies, procedures and actions to be followed by United Nations Headquarters and field missions. The Manual is intended to provide assistance to troop/police contributors and to ensure that the decisions of the Assembly are fully and consistently implemented. The procedures used in the implementation of Assembly decisions may be amended from time to time to take into account changing circumstances and experience gained.

7. The COE Manual should be read in conjunction with other related documents, such as, but not limited to, the United Nations Infantry Battalion Manual, the United Nations Military Unit Manuals, the Medical Support Manual for United Nations Field Missions, the guidelines for troop/police contributors (which are mission-specific and issued before the deployment of troops), the Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions, the United Nations Environmental Management Handbook for Military Commanders in United Nations Peace Operations (first edition, 2021) and the Strategy for the Digital Transformation of United Nations Peacekeeping.

8. Every effort has been made to ensure the accuracy of the COE Manual. In the event of discrepancies between the Manual and resolutions of the General Assembly, however, the latter shall prevail. The present COE Manual supersedes the 2020 edition (A/75/121). Clarification and assistance with regard to interpreting the COE Manual can be obtained by emailing [DOS-contingentsupport@un.org](mailto:DOS-contingentsupport@un.org).

## Chapter 2

**Chapter 2****Standard elements of the contingent-owned equipment system and lease options**

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## I. Implementation

1. The procedures contained in the COE Manual entered into effect on 1 July 1996 and are applicable to all new missions. The present chapter summarizes the standard elements of the system, each of which are addressed in greater detail in subsequent chapters.
2. **Retroactivity:** For missions activated prior to 1 July 1996, troop/police contributors have the option to accept reimbursement under either the current or the previous reimbursement methodology for units deployed as at 1 July 1996.<sup>1</sup>
3. **Definitions:** Definitions approved by the General Assembly for matters relating to the contingent-owned equipment system are included in annex A to the present chapter.

## II. Binding arrangement

4. A troop/police contributor and the United Nations should make all efforts to sign a memorandum of understanding stipulating the obligations of each party with regard to personnel, major equipment and self-sustainment, prior to deployment. Preferably, no changes to the memorandum of understanding may be made during the initial time frame once the unit has deployed, unless operational requirements so demand. The text of the model memorandum of understanding is contained in chapter 9.
5. The final form of the memorandum of understanding can vary<sup>2</sup> as long as its substantive elements remain consistent for all Member States.<sup>3</sup> The legal aspects of the memorandum of understanding are to be in accordance with the Financial Regulations and Rules of the United Nations.<sup>4</sup> It is understood that no change or amendment, addition to or deletion from the model memorandum of understanding is to affect or diminish its legally binding nature on the parties.

## III. Major equipment

6. Major equipment consists of items directly related to the unit mission as mutually determined by the United Nations and the troop/police contributor. Major equipment can be provided by a troop/police contributor under either a wet lease or a dry lease arrangement.

(a) A **wet lease arrangement** is a reimbursement system for contingent-owned equipment whereby the troop/police contributor assumes responsibility for maintaining and supporting major and minor items of equipment deployed. The troop/police contributor is entitled to reimbursement for providing this maintenance support;<sup>5</sup>

(b) A **dry lease arrangement** is a reimbursement system for contingent-owned equipment whereby the troop/police contributor provides equipment to a field

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<sup>1</sup> A/C.5/49/70, annex, para. 51 (b), and A/C.5/52/39, para. 73 (a).

<sup>2</sup> Non-substantive variations in the main body of the memorandum of understanding and annexes are limited to the name of the troop/police contributor, the unit name, the field mission, mission factors, transportation factor, transport route and date of effect.

<sup>3</sup> A/C.5/52/39, para. 65 (c).

<sup>4</sup> ST/SGB/2013/4.

<sup>5</sup> A/C.5/49/66, annex II, para. 16.

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mission and the United Nations either assumes responsibility for maintaining the equipment or arranges with a third party for maintenance of the equipment.

7. Wet lease and dry lease arrangements, including the method by which monthly equipment usage charges (i.e. rates of reimbursement) are calculated, are covered in chapter 8.

#### **IV. Self-sustainment**

8. Self-sustainment consists of equipment and services provided by a troop/police contributor to support a unit. Only those services specifically agreed in the memorandum of understanding to be provided by troop/police contributors will be reimbursable at the rates listed in chapter 8, based on the actual personnel strength up to the personnel ceiling agreed to in the memorandum. Self-sustainment is covered in greater detail in chapter 3, annex B.

9. Where a contingent employs major equipment to provide for its own self-sustainment, the troop/police contributor is not entitled to reimbursement for major equipment, but rather only to the applicable reimbursement for self-sustainment. There may be instances where a troop/police contributor providing services such as communications, medical or engineering services on a force level may be entitled to reimbursement for major equipment.<sup>6</sup> The use of major equipment to provide self-sustainment services, at both the unit level and the force level, is covered in chapter 8.

#### **V. Reimbursement**

10. Troop/police contributors are reimbursed for major equipment and self-sustainment in accordance with rates adopted by the General Assembly. For major equipment, troop/police contributors are reimbursed under either a wet lease or a dry lease arrangement. Reimbursement is limited to those items of serviceable major equipment (including associated minor equipment and consumables) specifically agreed to by the United Nations.<sup>7</sup> Should a unit provide less major equipment or fewer self-sustainment categories than stipulated in the memorandum of understanding, the troop/police contributor will be reimbursed only for major equipment or self-sustainment categories actually provided. The rates for major equipment are presented in chapter 8, annex A, and the rates for self-sustainment are presented in chapter 8, annex B. Rates of reimbursement for special case equipment will be negotiated separately between the troop/police contributor and the United Nations, as indicated in chapter 5.

#### **VI. Transportation**

11. The United Nations is responsible for the transportation of troops, police and contingent-owned equipment upon deployment and repatriation but may request the troop/police contributor, or consider a request from a troop/police contributor, to provide this service via a letter of assist. For movements into, within and out of a mission's area of operations, the United Nations is responsible for the coordination

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<sup>6</sup> [A/C.5/49/70](#), annex, appendix I.A, paras. 3, 8 and 10.

<sup>7</sup> [A/C.5/49/66](#), annex, para. 46 (a).

of all mission movement control operations, including obtaining the necessary permissions and authorizations from the appropriate authorities in the host country.<sup>8</sup>

12. Troop/police contributors are responsible for transportation related to the resupply of spare parts and minor equipment related to major equipment, for the rotation of equipment and for the meeting of national requirements. The monthly estimated maintenance rates under the wet lease rates include a generic 2 per cent premium for such transportation. In addition, a distance-related increment is applied to the maintenance rates.

13. Troop/police contributors are responsible for transportation related to the resupply of contingents with consumables and minor equipment necessary for the provision of self-sustainment. The rates approved for self-sustainment include a premium of 2 per cent to compensate for the cost of transportation of self-sustainment resupply.<sup>9</sup> Troop/police contributors are not eligible for additional reimbursement for the transportation of self-sustainment items.<sup>10</sup>

14. Issues pertaining to the transportation of equipment are addressed in greater detail in chapter 4.

## VII. Loss and damage

15. When deciding on reimbursement for loss and damage, a distinction between no-fault incidents and hostile action or forced abandonment must be made:

(a) **No-fault incidents:** The wet lease/dry lease rates include a no-fault factor to cover loss of or damage to equipment in a no-fault incident. There is no additional reimbursement and no other claims are receivable in the event of equipment loss or damage in such incidents;<sup>11</sup>

(b) **Hostile action or forced abandonment:**

(i) In cases of loss or damage resulting from a single hostile action or forced abandonment, troop/police contributors will assume liability for each item of major equipment whose individual generic fair market value is below the threshold value of \$80,000;<sup>12</sup>

(ii) In cases of loss or damage resulting from hostile action or forced abandonment, troop/police contributors will assume liability for major equipment when the collective generic fair market value of losses within one United Nations budget year for the mission is below the threshold value of \$250,000;

(iii) For major equipment lost or damaged as a result of a single hostile action or forced abandonment, the United Nations will assume liability for each item of major equipment whose individual generic fair market value equals or exceeds \$80,000 or for major equipment lost or damaged when the collective generic fair market value of such equipment equals or exceeds \$250,000 for a series of hostile actions within one United Nations budget year. The value of the loss or damage is determined using the generic fair market value. The reimbursement is made at that rate, less the equipment usage charge, i.e. the

<sup>8</sup> A/C.5/65/16, para. 106 (a) (i).

<sup>9</sup> A/C.5/49/70, annex, appendix II.B, note 1.

<sup>10</sup> Ibid., annex, para. 46 (g).

<sup>11</sup> Ibid., annex, appendix I.A, para. 2 (f).

<sup>12</sup> A/77/736, III.4, para. 30.

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cumulative dry lease paid to date, and any other payments associated with the environmental and logistics and road conditions mission factors made by the United Nations for that equipment;

a. In cases of hostile actions during transit as part of the initial deployment organized by the United Nations, the reimbursement for loss or damage will cover both the major equipment and self-sustainment items. Claims on the self-sustainment items will be made based on the cargo documentation and invoices provided to the United Nations by the troop- and police-contributing countries for the transportation;

(iv) The generic fair market value of the equipment reimbursed under the single action incident would count towards the collective annual threshold of \$250,000;

(v) The reimbursement will be processed only after the troop/police contributor undertakes to replace or repair the equipment.<sup>13</sup>

16. Troop/police contributors cannot file claims against the United Nations, except on initial deployment, for loss of or damage to spare parts, minor equipment and consumables. These are covered either by the mission-approved hostile action or forced abandonment factor, which is applied to the spare parts component of the wet lease, as well as the self-sustainment rates,<sup>14</sup> or by the no-fault incident factor included in the dry or wet lease rates.

17. The party making transportation arrangements is responsible for any loss or damage incurred during transportation.<sup>15</sup> Troop/police contributors are reimbursed when significant damage occurs to contingent-owned equipment during transportation. Significant damage is defined as damage for which cost of the repairs amounts to 10 per cent or more of the generic fair market value of the item of equipment.<sup>16</sup>

18. The United Nations has no responsibility for reimbursement when loss or damage is the result of wilful misconduct or negligence by members of the troop/police contributor as determined by a board of inquiry.

19. When equipment is provided under a wet lease arrangement, the method of calculation for damage is the reasonable cost of repair. Equipment that has suffered damage is to be considered a total loss when the cost of repair exceeds 75 per cent of the generic fair market value.

20. Issues pertaining to loss and damage are covered in greater detail in chapter 6.

## VIII. Mission factors

21. Mission factors are intended to compensate troop/police contributors for specific conditions prevailing in the area of responsibility that cause unusual wear and tear, shorter life of equipment, increased maintenance costs and/or risk of damage to and loss of the equipment. The three mission factors are as follows:

(a) **An extreme environmental conditions factor** applied to the reimbursement rates for major equipment and for self-sustainment;

<sup>13</sup> A/C.5/71/20, para. 42 (b).

<sup>14</sup> A/C.5/49/70, para. 47 (a), and appendix I.A, para. 2 (f).

<sup>15</sup> A/C.5/52/39, para. 68 (a) and (b).

<sup>16</sup> Ibid., para. 68 (c).

(b) **A logistics and road conditions factor** applied to the reimbursement rates for major equipment and for self-sustainment;

(c) **A hostile action or forced abandonment factor** applied to the reimbursement rates for self-sustainment and the spare parts element (or half of the maintenance rate) included in the wet lease rate.

22. Further information on the mission factors is provided in chapter 7.

## IX. Verification and control

23. Verification and control procedures are intended to ensure that the terms of the memorandum of understanding between the United Nations and the troop/police contributor are met by both parties at the outset and throughout the period of effect of the memorandum. Major equipment and self-sustainment standards are defined to ensure operational capability. These standards are addressed in greater detail in chapter 3.

24. Verification and control will be carried out on the basis of a number of types of inspections:

(a) **Arrival inspection:** The arrival inspection is to take place immediately upon arrival and to be completed within one month. If equipment and personnel are already in the mission area when the memorandum of understanding is concluded, the first inspection will be carried out on a date to be jointly determined by the mission and contingent authorities and is to be completed within one month of that date;

(b) **Quarterly inspection:** Inspections are conducted on a quarterly basis to assess the status of the major equipment and self-sustainment categories. An inspection report, i.e. a quarterly verification report, is prepared by the United Nations inspection team after each inspection of a unit. The report describes the result of the inspection. The report is examined together with the unit and signed by the contingent representative. If a unit has to fully or partially redeploy within a mission area, the next quarterly inspection in the new location will be carried out on a date to be jointly determined by the mission and the unit authorities. The quarterly verification reports are the basis for processing reimbursement for major equipment and self-sustainment to the Member States. The mission will share the results of the verification inspections and verification reports with the contingent commanders in a timely manner;

(c) **Operational readiness inspection:** An operational readiness inspection must be carried out at least once in every six-month period of a unit's deployment in the mission area and any time the mission believes the equipment or services do not meet the specified standards. The condition of the major equipment and self-sustainment will be inspected with a view to assessing whether the capability is sufficient and satisfactory;

(d) **Repatriation inspection:** The repatriation inspection shall account for all major equipment of the troop/police contributor to be repatriated and verify the condition of the major equipment provided under the dry lease arrangement. The inspection shall also ensure that no United Nations-owned equipment is part of the equipment being repatriated;

(e) **Other verifications or inspections:** Other verifications or inspections deemed necessary by the Head of Mission or United Nations Headquarters, including compliance with the Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions, shall be carried out.

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25. The main purpose of inspections is to verify that the terms and conditions of the memorandum of understanding have been met, and to take corrective action when required. At every stage of peacekeeping operations, time and human resources are short, and excessive time cannot be spent beyond that required to determine that the minimum requirements have been met by the troop/police contributor or the United Nations in each area.<sup>17</sup>

**X. Reimbursement during withdrawal**

26. Reimbursement for self-sustainment will be in effect at full rates until the date of cessation of operations by a troop/police contributor or termination of the mission. Thereafter, the following categories will be reimbursed at 100 per cent and calculated upon the remaining actual deployed personnel strengths until all contingent personnel have departed the mission area:<sup>18</sup>

- General/catering
- Communications/telephone
- General/laundry
- General/accommodation
- Medical/high-risk (epidemiological)
- Miscellaneous general stores/bedding
- Miscellaneous general stores/furniture

After the cessation of operations, reimbursement for other categories will be reduced to 50 per cent of the rates agreed in the memorandum of understanding calculated upon the remaining actual deployed troop strengths until all contingent personnel have departed the mission area. When the United Nations negotiates a contract for the repatriation of equipment and the carrier transporting such equipment exceeds a 14-day grace period after the expected arrival date in the home country, the troop/police contributor will be reimbursed by the United Nations at the dry lease rate from the expected arrival date until the actual arrival date.<sup>19</sup> Reimbursement during withdrawal is covered in greater detail in chapter 4.

**XI. Dispute resolution<sup>20</sup>**

27. After other possibilities have been tried, disputes concerning the interpretation of the results of verification inspections that may affect the eligibility of a troop/police contributor for reimbursement, or concerning any other reason, and other types of dispute shall be conducted using the dispute procedure approved by the General Assembly,<sup>21</sup> which is covered in greater detail in chapter 3.

<sup>17</sup> [A/C.5/49/70](#), annex, appendix III, para. 7.

<sup>18</sup> [A/77/736](#), para. 64.

<sup>19</sup> *Ibid.*, para. 75.

<sup>20</sup> *Ibid.*, para. 67.

<sup>21</sup> [A/C.5/49/70](#), annex, appendix III, paras. 3–7 and 20; and [A/C.5/52/39](#), para. 67.

**Annex A****Definitions<sup>1</sup>**

1. **Accepted United Nations readiness standards:** Standards that specify that every unit or formation, ship, weapon system or piece of equipment must be capable of performing the missions or functions for which it is organized or designed to enable the mission's mandate to be achieved.
2. **Consumables:** Supplies of a general nature consumed on a routine basis. Consumables include combat supplies, general and technical stores, defence stores, ammunition and explosives, and other basic commodities that are used to support major equipment, as well as to support minor equipment and personnel.
3. **Contingent:** All formed units, personnel and equipment of a troop/police contributor deployed to the mission area.
4. **Contingent-owned equipment:** Major equipment, minor equipment and consumables deployed and operated by a contingent in the performance of peacekeeping operations.
5. **Loaned equipment:** Third-party contingent-owned equipment offered to a troop/police contributor for exclusive use by that country in a particular United Nations mission, which will revert to the original owner upon mission termination or earlier departure by the troop/police contributor. For such equipment, the troop/police contributor will be reimbursed the maintenance rate, including the relevant factors, provided that the third party certifies to the United Nations that it will not provide maintenance services.<sup>2</sup>
6. **Extreme environmental conditions factor:** Mission factor applicable to the reimbursement rates for major equipment and for self-sustainment to take into account the increased costs borne by the troop/police contributor for extreme climatic and terrain conditions. This factor is applicable only under conditions of significant anticipated additional costs to the troop/police contributor. The factor is not to exceed 5 per cent of the reimbursement rates.
7. **Explosive ordnance disposal:** The process of detection, identification, onsite evaluation, rendering safe, recovery and final disposal of unexploded ammunition. It is conducted on behalf of the mission by a specialist unit as a force asset. Force operations to dispose of explosive ordnance may conduct activities in all or part of the mission area. They may also include ammunition that has become hazardous as a result of damage or deterioration.<sup>3</sup> In the context of self-sustainment, explosive ordnance disposal means such disposal conducted by a unit within its accommodation or camp area.<sup>4</sup>
  - **Extended temporary operating bases deployment premium:** An incentive provided to military and police units that have been ordered to deploy to more than three temporary operating bases for a cumulative period of more than 12 months for mandate-related tasks and operational requirements. These extended deployments should be caused by extreme and unpredictable situations that: (a) result in a broader-than-anticipated deployment footprint; and (b) create a dynamic mission operational environment preventing the timely update of the

<sup>1</sup> A/C.5/49/66, annex, annex II, and A/C.5/49/70, annex, appendix VI.

<sup>2</sup> A/C.5/71/20, para. 48 (b).

<sup>3</sup> Implementation/experience-based definition developed by the Office of Mission Support (previously the Field Administration and Logistics Division).

<sup>4</sup> A/C.5/52/39, para. 82 (a).

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statement of unit requirements. The request for the premium should be approved by the Force Commander of the mission where the units are deployed. The premium shall be equal to 5 per cent of the quarterly reimbursement owed to the troop/police contributor for five key self-sustainment categories, as agreed in annex C to the memorandum of understanding for the number of personnel deployed to more than three temporary operating bases for more than a year. These five self-sustainment categories are catering, communications, explosive ordnance disposal, field defence stores and tentage.

8. **Force Commander:** The officer, appointed under the authority of the Secretary-General, responsible for all military operations within the mission.
9. **Force asset:** A unit that provides services such as communications, medical or engineering services – which normally would be reimbursed only under self-sustainment – on a force level. Such units may be entitled to reimbursement for major equipment used to provide such services.
10. **Force majeure:** Acts of God, war or insurrection, or other acts of a similar nature or force.<sup>5</sup>
11. **Forced abandonment:** Actions resulting from a decision approved by the Force Commander, Police Commissioner or his or her authorized representative or from a provision in the rules of engagement which results in the loss of custody and control of equipment and supplies.
12. **Fuel management accountability:** Troop/police contributing countries shall facilitate and implement the mission-specific mechanisms established in the United Nations fuel management guidelines or mission standard operating procedures to account for the fuel delivered for contingent-owned equipment including the use of United Nations Electronic Fuel Management System, as applicable.
13. **Generic fair market value:** Equipment valuation for reimbursement purposes, computed as the average initial purchase price plus any major capital improvements, adjusted for inflation and discounted for any prior usage, or the replacement value, whichever is less. The generic fair market value includes all items associated with the equipment in the performance of its operational role.
14. **Government:** The Government of the troop/police contributor.
15. **Head of Mission:** The official appointed by the Secretary-General, with the consent of the Security Council, who is responsible for all United Nations activities within the mission.
16. **Hostile action:** An incident from the action(s) of one or more belligerents that has a direct and significant negative impact on the personnel and/or equipment of a troop/police contributor.
17. **Hostile action or forced abandonment factor:** The mission factor applied to each category of self-sustainment rates and to the spares element (or half the estimated maintenance rate) of the wet lease rate to compensate the troop/police contributor for loss and damage. The factor is not to exceed 6 per cent of the rates.
18. **Incremental transportation factor:** The factor, calculated separately for each contingent in each mission, to cover the incremental costs of transportation of spare parts and consumables under a wet lease system or a lease for maintenance in increments of 0.25 per cent of the leasing rate for each complete 800 kilometres (500 miles) of distance, beyond the first 800 kilometres (500 miles), along the consignment

<sup>5</sup> A/C.5/65/16, para. 101.

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route between the port of embarkation in the home country and the port of entry in the mission area. For landlocked countries or countries where equipment is moved by road or rail to and from the mission area, the port of entry in the mission area will be an agreed border crossing point.

19. **Initial provisioning:** A logistics support arrangement whereby the troop/police contributor provides rations, water, petrol, oil and lubricants to a unit on a reimbursable basis. Reimbursement will be made to troop/police contributors upon submission of a claim supported by invoices and/or other appropriate supporting documentation. Normally, initial provisioning for contingents or units is required only for their initial deployment, and for a limited period (30–60 days), until the United Nations is able to provide these consumables. The requirement for initial provision of water, rations and fuel will be specified in guidelines for troop-contributing countries, and the United Nations provisioning scales for the commodities required will be provided to troop/police contributors before deployment.<sup>6</sup>

20. **Lease of major equipment:**

(a) **Dry lease arrangement:** Reimbursement system whereby the troop/police contributor provides equipment to the mission and the United Nations assumes responsibility for maintaining the equipment;

(b) **Wet lease arrangement:** Reimbursement system whereby the troop/police contributor provides and assumes responsibility for maintaining and supporting deployed major items of equipment, together with the associated minor equipment. The troop/police contributor is entitled to reimbursement for providing this support.

21. **Logistics and road conditions factor:** The mission factor applicable to the reimbursement rates for major equipment and for self-sustainment rates to compensate the troop/police contributor for the impact of exceptional and extreme logistics and road conditions that result in shorter equipment life and increased maintenance costs. The factor is not to exceed 5 per cent of the rates.

22. **Loss or damage:** Total or partial destruction of equipment and/or supplies resulting from a no-fault incident, the actions of one or more belligerents or a decision approved by the Force Commander/Police Commissioner.

23. **Maintenance rate:** The reimbursement rate to compensate the Government for maintenance costs, comprising spare parts, contracted repair and third- and fourth-line maintenance, required to keep major equipment items operational to the specified standards and to return the item to operational condition upon return from the mission area. The cost of labour for first- and second-line maintenance is not included, as these are part of the normal tasks of military and police personnel responsible for maintaining equipment. The rate includes an incremental transportation rate to cover the general costs of transportation of spare parts. This rate forms part of the “wet lease” rate.

24. **Major equipment:** Major items directly related to the unit mission as mutually determined by the United Nations and the troop/police contributor. Major equipment is accounted for either by category or individually. Separate reimbursement rates apply for each category of major equipment. These rates include reimbursement for minor equipment and consumables that are used to support the item of major equipment.

25. **Minor equipment:** Equipment that is used to support a unit, such as catering, accommodation, non-specialist communication and engineering and other mission-

<sup>6</sup> A/C.5/68/22, para. 116 (a).

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related activities. Specific accounting of minor equipment is not required. Minor equipment is divided into two categories: items designed to support major equipment; and items that directly or indirectly support personnel. Personnel-related minor equipment is covered by the rates of reimbursement for self-sustainment.

26. **Misconduct:** Any act or omission that is a violation of United Nations standards of conduct, mission-specific rules and regulations or the obligations under national and local laws and regulations in accordance with the status-of-forces agreement the impact of which occurs outside the national contingent.<sup>7</sup>

27. **Mission-specific rules and regulations:** The standard operating procedures, directives and other regulations, orders and instructions issued by the Head of Mission, Force Commander/Police Commissioner or Director/Chief of Mission Support of the United Nations field mission in accordance with the United Nations standards of conduct and taking into account national caveats. They shall contain information on applicable national and local laws and regulations.<sup>6</sup>

28. **No-fault incident:** An incident resulting from an accidental occurrence or negligent conduct; such incidents do not include acts attributable to wilful misconduct or gross negligence on the part of an operator or custodian of equipment.

29. **Operational ammunition:** Ammunition (including aircraft self-defence systems such as chaff or infrared flares) that the United Nations and troop/police contributors agree to deploy to the mission area so that it is readily available for use in the event of need. Ammunition expended for operational training or exercises beyond those required to meet accepted United Nations readiness standards, undertaken on the authority of and at the specific direction of the Force Commander/Police Commissioner in anticipation of an operational requirement, will be considered operational ammunition.

30. **Police Commissioner:** The officer, appointed under the authority of the Secretary-General, responsible for all police operations within the mission.

31. **Predeployment visits:** Visits by Department of Peace Operations, Department of Operational Support and field mission teams comprising representatives from appropriate functional areas (e.g. Force Generation Service, Police Division and Uniformed Capabilities Support Division) to Member States. They are undertaken to assist Member States in preparing their contingents for deployment and to ensure that Member State contributions meet the operational requirements of the mission and the timing of deployments.

32. **Redeployment:** The internal movement of personnel and equipment within the mission area from one location to another or between various United Nations missions.

33. **Repatriation:** The movement of personnel from a United Nations mission to a Member State-agreed airport of entry, and of equipment from a United Nations mission to a Member State-agreed port of disembarkation or unit location in the home country.

34. **Preliminary fact-finding inquiry:** The preservation of evidence necessary to ensure that a national or United Nations investigation can be successfully carried out at a later stage. While the inquiry may involve the collection of written statements, it will not normally include the interviewing of witnesses or other persons involved.<sup>6</sup>

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<sup>7</sup> A/61/19 (Part III), annex, pp. 6 and 7, item 4, paras. 28–33.

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35. **Self-sustainment:** A logistics support concept for a unit in a field mission whereby the contributing State provides some specific, or all, logistics support to the contingent on a reimbursable basis.
36. **Serious misconduct:** Misconduct, including criminal acts, that results in or is likely to result in serious loss, damage or injury to an individual or to a mission. Sexual exploitation and abuse constitute serious misconduct.<sup>6</sup>
37. **Sexual abuse:** Actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions.<sup>6</sup>
38. **Special case equipment:** Major equipment for which, because of the uniqueness of the item, its high value or the lack of a generic group, a standard rate of reimbursement has not been defined in the tables of reimbursement.
39. **Sexual exploitation:** Any actual or attempted abuse of a position of vulnerability, power differential or trust for sexual purposes, including but not limited to profiting monetarily, socially or politically from the sexual exploitation of another individual.<sup>6</sup>
40. **Unique equipment:** Any special minor equipment or consumables not covered in the regular self-sustainment categories. These items will be handled under a bilateral special-case arrangement between the troop/police contributor and the United Nations.

**Annex B****Examples of possible arrangements for the provision of major equipment and maintenance****Option 1: Wet lease arrangement involving one troop/police contributor**

1. The troop/police contributor provides major equipment and maintenance.

*Logistics*

2. The troop/police contributor provides:
  - (a) Major equipment;
  - (b) Related minor equipment;
  - (c) Workshop equipment, including tools;
  - (d) Spare parts and consumables;
  - (e) Maintenance personnel.
3. The United Nations provides accommodation, including storage facilities, workshop facilities and utilities.

*Finance*

4. The troop/police contributor receives reimbursement under the wet lease arrangement.

**Option 2: Wet lease arrangement involving two troop/police contributors**

5. One troop/police contributor provides major equipment, makes bilateral arrangements with another troop/police contributor to maintain the equipment and enters into a wet lease with the United Nations.

*Logistics*

6. The first troop/police contributor provides major equipment.
7. The second troop/police contributor provides:
  - (a) Minor equipment;
  - (b) Workshop equipment, including tools;
  - (c) Spare parts and consumables;
  - (d) Maintenance personnel.
8. The United Nations provides accommodation, including storage facilities, workshop facilities and utilities, to both troop/police contributors.

*Finance*

9. The first troop/police contributor receives reimbursement under the wet lease arrangement.
10. The United Nations has no obligation with regard to the equipment or services provided by the second troop/police contributor.

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**Option 3: Dry lease arrangement**

11. The troop/police contributor provides major equipment.
12. The United Nations maintains the equipment.

*Logistics*

13. The troop/police contributor provides major equipment.
14. The United Nations provides:
  - (a) Minor equipment;
  - (b) Workshop facilities, equipment and tools;
  - (c) Spare parts and consumables;
  - (d) Maintenance personnel.
15. The United Nations provides accommodation, including storage facilities and utilities, to the troop/police contributor.

*Finance*

16. The troop/police contributor receives reimbursement under the dry lease arrangement.
17. The United Nations pays for:
  - (a) Minor equipment;
  - (b) Workshop facilities, equipment and tools;
  - (c) Spare parts and consumables;
  - (d) Maintenance personnel.

**Option 4: Dry lease arrangement**

18. One troop/police contributor provides major equipment.
19. The United Nations arranges with another troop/police contributor to provide maintenance.

*Logistics*

20. The first troop/police contributor provides major equipment.
21. The second troop/police contributor provides:
  - (a) Minor equipment;
  - (b) Workshop equipment and tools;
  - (c) Spare parts and consumables;
  - (d) Maintenance personnel.
22. The United Nations provides accommodation, including storage facilities and utilities, to both troop/police contributors.

*Finance*

23. The first troop/police contributor receives reimbursement under the dry lease arrangement.

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24. The second troop/police contributor is reimbursed for maintenance.

**Option 5: Dry lease arrangement**

25. The troop/police contributor provides major equipment under a dry lease arrangement and requests the United Nations to provide maintenance.
26. The United Nations enters into an agreement with a contractor to maintain equipment.

*Logistics*

27. The troop/police contributor provides major equipment.
28. The contractor provides:
- (a) Minor equipment;
  - (b) Workshop facilities, equipment and tools;
  - (c) Spare parts and consumables;
  - (d) Maintenance personnel.
29. The United Nations provides accommodation, including storage facilities and utilities, to the troop/police contributor.

*Finance*

30. The troop/police contributor receives reimbursement under the dry lease arrangement.
31. The United Nations pays the contractor for maintenance costs, including spare parts and consumables, in accordance with agreement with the contractor.

**Option 6<sup>1</sup>**

32. A third party offers major equipment to the troop/police contributor under a bilateral arrangement. The troop/police contributor or service provider will be reimbursed the maintenance rate (including the incremental transportation factor and all other relevant factors), provided that the third party certifies in writing that it will not provide maintenance services.
33. The United Nations arranges with the troop/police contributor or a service provider to provide maintenance.

*Logistics*

34. The third party provides major equipment to the troop/police contributor.
35. The troop/police contributor provides:
- (a) Minor equipment;
  - (b) Workshop equipment and tools;
  - (c) Spare parts and consumables;
  - (d) Maintenance personnel.

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<sup>1</sup> [A/C.5/71/20](#), para. 48 (c).

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36. The United Nations provides accommodation, including storage facilities and utilities, to the troop/police contributor.

*Finance*

37. The equipment of the third party is offered bilaterally to the troop/police contributor at no cost to the United Nations.

38. The troop/police contributor receives reimbursement for maintenance under a memorandum of understanding.

## Chapter 3

**Chapter 3****Standards, verification and control of contingent-owned equipment for major equipment and self-sustainment**

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## Chapter 3

## I. Introduction

1. Reimbursement is dependent upon verification that the material and services provided meet the undertaking of the troop/police contributor in its signed memorandum of understanding with the United Nations.

## II. Purpose

2. The purpose of the below principles and procedures is to define the means by which the United Nations will ensure, in conjunction with the troop/police contributor, that the required standards in quantity and quality of materials and services for which reimbursement will be sought are met.<sup>1</sup>

## III. Guiding principles

3. The verification and control procedures are intended to ensure that the terms of the memorandum of understanding between the United Nations and the troop/police contributor are met by both parties at the outset and throughout the period of effect of the memorandum. Major equipment and self-sustainment standards are defined in terms of operational capability for each category/subcategory rather than based on the details of a prescriptive list of the type and levels of equipment required.<sup>2</sup> These standards of operational capability are listed in annexes A, B and C to the present chapter. Unless specifically required by the standards for a self-sustainment category, as detailed in annex B to the present chapter, the provision of specific types, numbers or capabilities of equipment needed to meet the standards for a self-sustainment category, for reimbursement purposes, is to be based on meeting the operational requirements agreed between the United Nations and the troop/police contributor and reflected in the memorandum of understanding.<sup>3</sup>

4. The United Nations, in conjunction with the respective contingents or delegated authority designated by the troop/police contributor, is responsible for ensuring that the equipment and services provided by troop/police contributors meet the requirements of the peacekeeping operation and are provided in accordance with the memorandum of understanding. In order to do so, the United Nations will verify the status, condition and quantity of the equipment and services provided. This control is implemented in cooperation between the United Nations and the troop/police contributor in accordance with the terms of the memorandum of understanding for the provision of military/police personnel, equipment and services.<sup>4</sup>

5. The mission contingent-owned equipment inspection team may be composed of United Nations civilian or military personnel assigned by the Head of Mission or by an official acting on his or her behalf. Such individuals must be assigned to the inspection team for a sufficient period of time to ensure continuity in the control activities. The troop/police contributor must designate a person in each unit/contingent to serve as point of contact for the inspection team on verification and control matters.<sup>5</sup> The memorandum of understanding is a signed document between a troop/police contributor and United Nations Headquarters; any change in classification of

<sup>1</sup> A/C.5/49/70, annex, appendix III, para. 2.

<sup>2</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 63, and A/C.5/52/39, para. 76 (c).

<sup>3</sup> A/C.5/65/16, para. 136 (a).

<sup>4</sup> A/C.5/49/70, annex, appendix III, para. 3.

<sup>5</sup> Ibid., para. 4.

equipment should be agreed on a bilateral basis. The inspection team in the field may forward any observation to the Secretariat but has no prerogative to change the classification of major equipment agreed upon by United Nations Headquarters and the troop/police contributor. The troop/police contributor and United Nations Headquarters should engage in bilateral negotiations to resolve any disputes.<sup>6</sup>

6. In the conduct of the verification process, a “reasonability” view is to be employed when assessing the yielded results, including whether positive steps have been taken towards fulfilment of the memorandum of understanding, that is to say the troop/police contributor and the United Nations have taken all reasonable measures and have met the spirit of the memorandum of understanding, if not the full substance, and have also taken into account the importance of the subject and length of time during which the memorandum has not been fulfilled. In line with this principle, in exceptional one-off circumstances in which the inspection criteria are not met, the troop/police contributor can apply to the United Nations for special dispensation. In such circumstances, the United Nations may provide special dispensation for self-sustainment reimbursement to the troop/police contributor.<sup>7</sup> The guiding principle in determining “reasonability” is whether the material to be provided by the troop/police contributor as well as by the United Nations, will meet its military/police function at no additional cost to the United Nations or the troop/police contributor, other than that provided for in the memorandum of understanding.<sup>8</sup> Nevertheless, in verifying medical services at any level, all medical equipment, consumables and personnel required to maintain the capacities and capabilities stated in the medical self-sustainment standards in annex C to the present chapter must be present.<sup>9</sup>

7. The results of the control process are to be used by the United Nations and the troop/police contributor as a basis for consultative discussions at the lowest level possible, in the mission area, in order that the capabilities provided by the troop/police contributor meet the operational requirements of the mission. The control process in medical matters is one of quality assurance, however, to ensure that all United Nations personnel in a field mission are offered medical services according to the standards stated in annex C to the present chapter. During arrival inspection, the medical preparedness and vaccination status of all United Nations troops/police must be ascertained.<sup>10</sup> The process also serves to determine, when a minimum standard of quantity or quality of material and services has not been provided, the corrective actions required, including adjustment to the agreed eligibility for reimbursement. Alternatively, the parties, given the degree of non-fulfilment of the memorandum of understanding, may seek to renegotiate the terms and conditions of the memorandum of understanding.<sup>11</sup>

#### IV. Inspection standards and criteria

8. The inspection teams, when verifying major equipment and self-sustainment, will apply the standards approved in General Assembly documents,<sup>12</sup> as exclusively detailed in annexes A, B and C to the present chapter.<sup>13</sup> These standards are also included in the memorandum of understanding between the troop/police contributor and the United Nations.

<sup>6</sup> A/C.5/65/16, para. 94.

<sup>7</sup> A/C.5/71/20, para. 64.

<sup>8</sup> A/C.5/49/70, annex, appendix III, para. 5.

<sup>9</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, annex III.B, para. 5.

<sup>10</sup> Ibid., para. 6.

<sup>11</sup> A/C.5/49/70, annex, appendix III, para. 6.

<sup>12</sup> Ibid., appendices I and II; A/C.5/52/39, paras. 76–89; and A/C.5/54/49, paras. 60 and 86.

<sup>13</sup> A/C.5/71/20, para. 64.

## V. Conduct of verification inspections

9. Inspections will be conducted within the framework of the above principles. The main purpose of such inspections is to verify that the terms and conditions of the memorandum of understanding have been met, and to take corrective action when required. At every stage of peacekeeping operations, time and human resources are short, and time cannot be spent in excess of that required to determine that the minimum requirements have been met by the troop/police contributor or the United Nations in each area.<sup>14</sup>

## VI. Types of inspections in the verification process

10. The verification process provides for inspections at three separate stages, in addition to the verification visit required if a unit is placed on the rapid deployment level of the Peacekeeping Capability Readiness System, which is discussed in chapter 8. It is mandatory that such inspections be conducted on arrival and on repatriation. Arrival inspections must cover the scope of equipment and services for which reimbursement is sought in the memorandum of understanding. It is the responsibility of the United Nations to ensure that the operational readiness of equipment and/or services specified in the memorandum of understanding is verified. Operational readiness inspections may be conducted with little notice when conditions exist that give rise to concern that the terms of the memorandum of understanding are not being met. Such inspections may be restricted in scope to specific areas of concern, as decided by the United Nations.<sup>15</sup>

### A. Arrival inspection<sup>16</sup>

11. The inspection of major equipment will take place immediately upon arrival in the mission area and must be completed within one month. The United Nations, in consultation with the troop/police contributor, will decide the time and place of such inspection. If equipment and personnel are already in the mission area when the memorandum of understanding is concluded, the first inspection will be carried out on a date to be jointly determined by the mission and contingent authorities and is to be completed within one month of that date. A representative of the troop/police contributor must explain and demonstrate the agreed self-sustainment capability. In the same way, the United Nations must give an account of the services that it provides as stipulated in the memorandum of understanding. The arrival inspections will include the following:

(a) Major equipment will be counted/inspected in order to ensure that categories and groups and the number delivered correspond with the memorandum of understanding and that the equipment is in operationally serviceable condition,<sup>17</sup> including functional odometers, hour-meters or kWh meters, as appropriate, and painted in United Nations colours upon arrival in theatre for use in its primary role;

(b) If the equipment is leased under a dry lease arrangement, it will be inspected to determine whether its condition is acceptable in accordance with established standards;

<sup>14</sup> A/C.5/49/70, annex, appendix III, para. 7.

<sup>15</sup> Ibid., para. 8.

<sup>16</sup> Ibid., paras. 9–12.

<sup>17</sup> Ibid., appendix I.A, para. 23.

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(c) Categories of self-sustainment for which the unit is responsible will be subject to inspection within six months with a view to assessing the operational capabilities of the equipment and services;

(d) The Government may request a United Nations team to advise or consult on matters pertaining to major equipment and/or self-sustainment, and the United Nations will normally request a predeployment visit to the troop- or police-contributing country. This does not, however, replace the inspection that must be conducted upon arrival.

12. In the event that the United Nations has not carried out the arrival inspection, for whatever reason, the obligation of the United Nations to pay the charges for equipment from the date of arrival remains unchanged and should be met immediately.

**B. Quarterly inspections**

13. Inspections are conducted on a quarterly basis to assess the status of the major equipment and self-sustainment categories. An inspection report, i.e. a quarterly verification report, is prepared by the United Nations inspection team after each inspection of a unit. The report describes the result of the inspection. The report is examined together with the unit and signed by the contingent representative. If a unit has to fully or partially redeploy within a mission area, the next quarterly inspection in the new location will be carried out on a date to be jointly determined by the mission and the unit authorities. The quarterly verification reports are the basis for processing reimbursement for major equipment and self-sustainment to the Member States.

14. The mission will share the results of the verification inspections and verification reports with the contingent commanders in a timely manner.

**C. Operational readiness inspections<sup>18</sup>**

15. Operational readiness inspections must be conducted at least once every six months on dates to be determined in advance (feasible for all stakeholders). Wherever feasible, the mission is requested to consult the contingent or unit when scheduling the operational readiness inspections and take into account ongoing operations or relocations as ordered by the Force Commander. In cases where the inspection is scheduled during a period that the contingent or unit is conducting an operation ordered by the Force Commander, or during the relocation of the unit as ordered by the Force Commander, the contingent or unit may request the Inspection Team to reschedule the inspection with the approval of the Force Commander to a date not to exceed 30 days after the initially scheduled inspection. Emphasizing the primacy of operations, where feasible, the mission is also requested to take into account scheduled inspections when tasking contingents or units with operations. Operational readiness inspections include the following:

(a) Major equipment will be counted/inspected in order to classify it in categories and groups and to ensure that the agreed number is present and used appropriately, as demonstrated by changes in odometer, hour meter and kWh meter readings, as appropriate;

(b) Major equipment will be inspected to ensure that it is operational to the extent agreed to in the memorandum of understanding. The United Nations considers that unsafe vehicles endanger the life of personnel and jeopardize the effectiveness of

<sup>18</sup> Ibid., appendix III, para. 13.

## Chapter 3

a mission and should not be considered operationally serviceable. The Chief Transportation Officer will review vehicle safety and make recommendations to the Director/Chief of Mission Support and Force Commander/Police Commissioner on this issue. In addition, as from 1 July 2024, the applicable equipment must have a functional odometer, hour meter or kWh-meter, as appropriate, to be considered fully operationally functional and reimbursable;

(c) If the equipment is leased under a dry lease arrangement, a determination will be made as to whether its condition, i.e. its maintenance status, is acceptable. This is compared with the consumption of spares and repair costs, ensuring that spares and other items are provided and used in accordance with the memorandum of understanding;<sup>19</sup>

(d) Categories of self-sustainment for which the unit is responsible will be subject to inspection with a view to assessing whether the self-sustainment capability is sufficient and satisfactory.

#### D. Repatriation inspection<sup>20</sup>

16. The United Nations shall carry out an inspection at the time of repatriation of the contingent or component thereof from the mission area. The inspection shall:

(a) Account for all major equipment of the troop/police contributor to be repatriated;

(b) Verify the condition of major equipment provided under the dry lease arrangement to ensure that only equipment of the troop/police contributor is being repatriated.

- When circumstances prevent the United Nations from conducting a repatriation inspection, consideration should be given to using the last validated inspection.

#### E. Other inspections and reporting<sup>21</sup>

17. Additional verifications or inspections deemed necessary by the Head of Mission (or the delegated authority) or United Nations Headquarters, such as standard operational reporting, may be implemented as follows:<sup>22</sup>

(a) **Standard operational reporting:** Standard operational reports are performed at the unit level by the unit on a monthly basis using a standardized form. These reports are maintained by the unit for presentation to the United Nations inspection team upon request. The report must describe the actual state of equipment and services provided by the unit and the United Nations;

(b) **Quarterly inspections reporting:** The United Nations inspection team will conduct quarterly inspections. An inspection report, i.e. a quarterly verification report, is prepared by the United Nations inspection team after each inspection of a unit. The report describes the result of the inspection. The report is examined together with the unit and signed by the contingent representative. If a unit has to fully or partially redeploy within a mission area, the next periodic inspection in the new location will be carried out on a date to be jointly determined by the mission and the unit authorities;<sup>23</sup>

<sup>19</sup> Ibid., para. 13 (c).

<sup>20</sup> Ibid., para. 14.

<sup>21</sup> Ibid., paras. 15–19.

<sup>22</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, annex III.B, para. 16.

<sup>23</sup> A/C.5/65/16, para. 119.

(c) **Claim status reporting:** COE claim status reporting should be provided by the United Nations to the troop/police contributor on a quarterly basis. The report shows quarterly payments and/or debt, as well as the balance at the time of reporting.

18. Inspection and verification procedures are continually being monitored and improved to take into account experiences and lessons learned in different missions and at United Nations Headquarters while implementing the decisions of the General Assembly in this regard.

19. Files on verification, inspection and control are to be maintained at United Nations Headquarters, at the force headquarters, by the troop/police contributor and by the unit.

## VII. Dispute resolution

20. After other possibilities have been tried, disputes concerning the interpretation of the results of verification inspections that may affect the eligibility for reimbursement of a troop/police contributor, or for any other reason, and other types of dispute shall be conducted using the dispute procedure approved by the General Assembly,<sup>24</sup> which is detailed below.

21. The United Nations peacekeeping operation shall establish a mechanism within the mission to discuss and resolve amicably by negotiation in a spirit of cooperation the differences arising from the application of the memorandum of understanding. This mechanism shall be comprised of two levels of dispute resolution:

(a) **First level:** The Director/Chief of Mission Support and the contingent commander will attempt to reach a negotiated settlement of the dispute;

(b) **Second level:** Should negotiations at the first level not resolve the dispute after the receipt by one party of the other party's request for such settlement, a representative of the permanent mission of the Member State and the Under-Secretary-General for Operational Support or his or her representative shall, at the request of either party, attempt to reach a negotiated settlement of the dispute.

22. Disputes that have not been resolved as provided in the paragraph above after the receipt by one party of the other party's request for first-level settlement may be submitted to a mutually agreed conciliator or mediator appointed by the President of the International Court of Justice, failing which the dispute may be submitted to arbitration at the request of either party. Each party shall appoint one arbitrator, and the two arbitrators so appointed shall appoint a third, who shall be the Chair. If, within 30 days of the request for arbitration, either party has not appointed an arbitrator or if, within 30 days of the appointment of two arbitrators, the third arbitrator has not been appointed, either party may request the President of the International Court of Justice to appoint an arbitrator. The procedures for the arbitration shall be fixed by the arbitrators, and each party shall bear its own expenses. The arbitral award shall contain a statement of the reasons on which it is based and shall be accepted by the parties as the final adjudication of the dispute.<sup>25</sup> The arbitrators shall have no authority to award interest.<sup>26</sup>

<sup>24</sup> [A/C.5/49/70](#), annex, appendix III, paras. 3–7 and 20; and [A/C.5/52/39](#), para. 67.

<sup>25</sup> Office of Legal Affairs memorandum dated 17 January 2001, paras. 3 and 4.

<sup>26</sup> Office of Legal Affairs memorandum dated 15 November 2000, para. 4.

**Annex A****Principles of verification and performance standards for major equipment provided under a wet lease or dry lease arrangement<sup>1</sup>****Purpose**

1. There are verifiable standards by which both dry and wet leases are applied and subsequently reimbursed. The following standards, and associated definitions, are designed to apply to the equipment listed in chapter 8, annex A. The standards, stated in terms of operational requirements,<sup>2</sup> are designed to be generic in nature to fit the widest range of equipment.

**Principles**

2. The following principles are applicable to all equipment:

(a) Equipment arriving in theatre must be in a serviceable condition for use in its primary role, have a functional odometer, hour meter or kWh meter, as applicable, and must already be painted with United Nations markings. Ambulances and other vehicles dedicated to the transport of medical staff or medical supplies should be clearly marked with a symbol placing it under the protection of the Geneva Convention.<sup>3</sup> Any requirement to assemble the equipment owing to shipping constraints will be completed by the unit at its own expense as part of the deployment process. This will include the addition of petrol, oil and lubricants removed for the purpose of transportation;

(b) All associated minor equipment, checklists or load list items required for use with the equipment in the performance of its role will accompany the equipment or be in clearly identifiable cargo for inclusion with the equipment on arrival in theatre;

(c) Under the wet lease arrangement, the contributor is responsible for the provision of replacement equipment, spare parts, maintenance and contracted repair;

(d) To meet serviceability standards, units have the option to maintain an additional 10 per cent of the quantities of major equipment authorized under the memorandum of understanding to be deployed and redeployed with the unit. The United Nations will be responsible for the associated deployment and repatriation, as well as painting and repainting costs. A troop/police contributor will not receive wet lease or dry lease reimbursement for overstocks, however;<sup>4</sup>

(e) A “reasonability” view is to be employed when assessing whether a performance standard has been met. Nevertheless, the capabilities, staff and medical equipment and the capability to perform emergency medical procedures according to the standards for medical self-sustainment stated in annex C to the present chapter must be present at all times.<sup>5</sup> Troop/police contributors and the United Nations should not be penalized when non-performance results from the operational situation in the mission area;<sup>6</sup>

(f) Any equipment damaged in transit will be the responsibility of the party responsible for making the transportation arrangements;

<sup>1</sup> A/C.5/49/70, annex, appendix I.A.

<sup>2</sup> A/C.5/52/39, annex, para. 76 (c).

<sup>3</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, annex III.B, annex A, para. 2 (a).

<sup>4</sup> Ibid., para. 46 (f), and para. 2 (c).

<sup>5</sup> Ibid., annex III.B, annex A, para. 2 (e).

<sup>6</sup> A/C.5/49/70, annex, appendix I.A, para. 2 (h).

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(g) The term “special case” should be reserved for major equipment for which a reimbursement rate has not been established in the COE Manual.

3. The United Nations inspection team will use the memorandum of understanding in verifying the type and quantity of major equipment provided by the troop/police contributor.

4. A third party maintaining equipment of another troop/police contributor is to meet the same performance standards as a troop/police contributor providing maintenance of its own equipment.

**Standards**

5. The paragraphs below describe the standards that are to be verified by the mission contingent-owned equipment inspection team.

**Communications equipment**

6. The provision of communications equipment for reimbursement under a wet lease or dry lease arrangement will be applied to communications contingents providing services on a force level, that is, above the battalion or unit level. The services must be available to all units as designated by the mission headquarters and will be included in the memorandum of understanding. The memorandum of understanding will specify the technical specifications to be used.<sup>7</sup>

7. The equipment must be sufficient to provide the basic communications network desired by the mission. A backup capability must be retained in theatre to ensure uninterrupted service. The backup equipment will be deployed and redeployed with the unit.

8. When higher-level communications capabilities are required by non-communication units and are not reimbursable under the self-sustainment rate for communications (e.g. an Inmarsat), the equipment must be authorized in the memorandum of understanding, in which case it will be reimbursable as major equipment in the same manner as for a communications unit. An Inmarsat used for national rear-link purposes is a national responsibility and is not reimbursable.

**Electrical equipment**

9. Electrical equipment is for the provision of main-source generating power for base camps, companies or larger dispersed locations, or specialist units requiring large power sources greater than 20 kilovolt-amperes (kVA) (e.g. medical facilities, maintenance workshops). It is to include all associated minor equipment, consumables and wiring harnesses, and cabling to connect end users. Lighting fixtures, accommodation circuits and wiring are reimbursable under the self-sustainment rate for electrical equipment. When troops or specialist units from one contingent are deployed with another contingent, the responsibility for supplying the power, with a sufficient backup capacity, must be defined in the memorandum of understanding of both parties.<sup>8</sup>

- A generator set will be considered unserviceable if the hour meter or kWh meter reading is unserviceable for two consecutive quarters and must be repaired or the item replaced if lost or damaged beyond in-theatre repair capability.

<sup>7</sup> Ibid., para. 3.

<sup>8</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, annex III.B, annex A, para. 10.

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10. Base camp main generators and generators supplying medical facilities will have a backup capability running in parallel. The backup capacity must at all times be sufficient to cover medical needs and must be connected to the vital areas of the medical facilities, giving these facilities first priority.<sup>9</sup> The combination of the output of the two generators is used to determine the reimbursement rate. In this case, an uninterrupted “around-the-clock” capability is required for all base camp main generators. Related wiring and cabling, circuit panels and transformers are to be repaired or replaced within two hours. Single generators (i.e. generators not running in parallel) will operate with a maximum of three hours of servicing, refuelling or repair within a 24-hour period.<sup>10</sup> When troops/police or medical units from one troop/police contributor are deployed and operating with a contingent of another troop/police contributor, the responsibility for supplying power with a sufficient backup capacity will be negotiated on a case-by-case basis and indicated in annex B to the memorandum of understanding.

11. Generators introduced in 2017 based on the International Organization for Standardization (ISO) 8528 standard, which are detailed in appendix 3 to the present annex, supplement, rather than replace, the existing categories of generators. Troop/police contributors may opt to continue to deploy generators under the previous arrangements. A troop/police contributor may, at its own convenience and subject to its own priorities, shift to the new contingent owned equipment energy transition plan, which is not binding but is incentive-based. If it chooses to be reimbursed at the new rates for prime power, limited time running power or emergency standby power, the troop/police contributor must adhere to the auditable site energy plan. The energy transition plan is not predicated on new types/capabilities of generators. Rather, it is focused on a methodology for using existing generators in a more efficient and environmentally friendly manner.<sup>11</sup> At a minimum, all generators must be fitted with a functional hour meter, and all generator sets must be fitted with a functional kWh meter.

12. The provision of equipment that generates electricity from renewable energy to replace any or all of the fuel generators is encouraged. Such provision will either be assessed on a wet lease reimbursement rate or as a special case, depending on the type of system, as detailed in chapter 8, annex A.<sup>12</sup>

- Renewable energy increases energy autonomy, operational resilience and the self-sustainment capacity of camps by reducing the use of diesel fuel and petroleum-based lubricants and the need for fuel supply and related convoys, especially in areas with asymmetric attacks. The deployment of renewable energy power generation capacity has a positive effect on the safety, security and health of personnel and the host community, and reduces the environmental impact of the contingent and the mission through a reduction in emissions of greenhouse gas and other air pollutants, and in-country through the prevention of soil, air and water pollution. The use of renewable energy systems in contingent camps also reduces the exposure of personnel to elevated noise levels from diesel generators, contributing to the welfare of personnel.
- Hybrid systems are combined power generation set-ups consisting of solar photovoltaic systems and diesel generators, where the former produces power for instantaneous consumption in parallel to the latter. The solar energy output is seen as a negative load by the generators, which continue to match their output

<sup>9</sup> Ibid., para. 11.

<sup>10</sup> A/C.5/49/70, annex, appendix I.A, para. 7.

<sup>11</sup> A/C.5/71/20, para. 35 (a).

<sup>12</sup> Ibid., para. 57 (b).

to the changing demand profile and support power quality on the grid. Depending on the share of energy supplied by the solar photovoltaic system, hybrid systems can be categorized as low-penetration systems or medium- to high-penetration systems. Low-penetration hybrid systems are defined systems where the ratio between the solar photovoltaic peak power and the diesel generator 100 per cent load rating kW is between 25 and 35 per cent. These systems allow the achievement of significant fuel savings compared with diesel generator-only mini-grids, reducing both energy costs and environmental impacts while keeping 24/7 energy production reliability, with the diesel generators capable of covering the full load. Maintenance requirements are also very low, making these systems adequate for field contexts. Medium- and high-penetration hybrid systems also combine diesel generators with a solar photovoltaic system, but the ratio between the solar photovoltaic peak power and the diesel generator 100 per cent load rating kW is more than 35 per cent. They can achieve a proportionally higher reduction in fuel use and greenhouse gas emissions, but may require additional space and may be more complex to operate. For high-penetration systems, an energy storage system is required to store and utilize the excess solar photovoltaic energy generated by the system. The design and selection of equipment for a low- and medium- to high-penetration hybrid systems shall be based on an estimated site load profile. Considerations shall be made as to whether a controller is needed to guarantee the energy system stability.

### Engineering

13. The major equipment rates will be paid for major equipment used in engineering tasks that support the mission. The unit and its capability must be authorized under the memorandum of understanding.

14. Engineering equipment will be maintained to ensure its immediate availability for use as deployed.

15. When an engineering unit or explosive ordnance disposal unit, or any other unit that has an organic explosive ordnance disposal or search team attached to it, is tasked with conducting demining, explosive ordnance disposal or search procedures on behalf of the mission as a force asset, the associated equipment must comply with the relevant standards described in the United Nations Peacekeeping Missions Military Explosive Ordnance Disposal Unit Manual, the United Nations Improvised Explosive Device Disposal Standards, the United Nations Peacekeeping Missions Military Engineer Unit Manual and the International Mine Action Standards,<sup>13</sup> and will be reimbursed as major equipment, where applicable, as agreed in the memorandum of understanding.<sup>14</sup> Force-asset explosive ordnance disposal includes the disposal and destruction of ammunition that has been declared unserviceable by the senior ammunition technical officer and is considered unsafe or not cost-effective to repatriate to troop- and police-contributing home countries. Ammunition and explosives consumed in such demining or disposal operations or, where the Force Commander authorizes and directs special training beyond accepted United Nations readiness standards, are reimbursable upon presentation of a claim and certification from the mission.<sup>15</sup> Since the cost of ammunition and explosives associated with special case major equipment items, such as demolition explosives used in demining or force-level explosive ordnance disposal, are not included in the calculation of monthly wet lease rates, an incremental

<sup>13</sup> A/74/689, para. 26.

<sup>14</sup> A/C.5/49/70, annex, appendix I.A, para. 8.

<sup>15</sup> A/C.5/49/66, annex, para. 48 (c).

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transportation factor is not included to reimburse the cost of transportation for the replenishment. Consequently, the United Nations will reimburse the transportation cost of the deployment, repatriation and replenishment of those specific ammunitions and explosives used for tasks related to demining or explosive ordnance disposal at the force level using force asset major equipment.

16. Sourcing and procurement of consumables, installation of materials and minor equipment expended and left behind for a task, such as drilling pipes, small pumps, asphalt and gravel, are to be dealt with under a specific letter of assist.<sup>16</sup> In addition, excessive costs incurred as a result of exceptional wear and tear caused by operation of the equipment in unduly harsh conditions are to be dealt with under a letter of assist.<sup>17</sup>

#### Observation equipment

17. Under a wet lease arrangement, observation equipment will be maintained to ensure “around-the-clock” operability, as applicable, at all observation outposts. Routine calibration of equipment must be performed.<sup>18</sup>

18. Under a dry lease arrangement, the United Nations is responsible for providing sufficient spare parts and equipment to maintain the same level of serviceability at the observation posts.

#### Containers

19. Containers are mobile shelters used for a specific purpose or service. There are three basic types of containers: truck-mounted, trailer-mounted and sea containers. Truck-mounted containers can be dismantled and operated separately from the vehicle. Trailer-mounted containers need not be dismantled, but are not reimbursed as trailers in the vehicle category. Sea containers must be maintained to international standards (i.e. certified for shipping) in order to be eligible for reimbursement.<sup>19</sup>

20. If a container is used as part of the support provided under a self-sustainment rate (e.g. dental and catering), its use is not reimbursable as major equipment, but is covered by the applicable self-sustainment rate.<sup>20</sup>

#### Aircraft

21. Owing to the special nature of aircraft, their type, quantity and performance criteria will be stipulated separately in letters of assist. The air operations unit of the mission is responsible for monitoring and reporting the performance of aircraft. In the interests of generating a more consistent set of conditions in letters of assist for the provision of a military aviation capability and to encourage more complete utilization of military capabilities, the United Nations will reimburse the cost of ammunition expended in maintaining aircrew weapons proficiency for armed helicopters during the year. Details of weapons training exercises, including the quantity and types of ammunition allocated per pilot, will be based on national/United Nations requirements, and reimbursement rates for this ammunition are to be included as an attachment to the letter of assist. Reimbursement for ammunition expended during actual hostilities shall be at the same rate. The United Nations is responsible for providing a firing range in the mission area of operations or at a suitable

<sup>16</sup> A/C.5/65/16, para. 115 (a).

<sup>17</sup> Ibid., para. 115 (b).

<sup>18</sup> A/C.5/49/70, annex, appendix I.A, para. 12.

<sup>19</sup> Ibid., para. 15.

<sup>20</sup> Ibid., and A/C.5/52/39, para. 77.

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alternative location (subject to a bilateral agreement between the Government and United Nations).<sup>21</sup>

22. Unmanned aircraft systems are increasingly being deployed to United Nations field missions. They are used to improve commanders' situational awareness, gather primary aircraft data and geospatial information for the field mission, and provide invaluable surveillance information for many operational context scenarios. Because of their flexibility and diversity, they can be tailored to fit many different tasks within every mission and for all components. There are three classes of such systems:

(a) **Class I unmanned aircraft systems:** Unmanned aircraft systems operated only up to a limited altitude of not more than 5,000 feet above ground level, with a maximum gross take-off weight of between 1 and 150 kg, and within the line of sight of the operator, with a maximum range up to 50 km;

There are three main categories of class I unmanned aircraft systems:

(i) Micro (multirotor) unmanned aircraft systems, which have an operating altitude of below 400 feet above ground level and a normal range of approximately 5 km;

(ii) Mini (hand-launched) unmanned aircraft systems, which have an operating altitude of below 1,000 feet above ground level and a normal operational range of approximately 25 km;

(iii) Small (catapult-launched) unmanned aircraft systems, which have an operating altitude of below 5,000 feet above ground level and a normal operational range of approximately 50 km;

- The operational altitude and range are decided by the operational environment on any given mission and are affected by airspace management restrictions. The technical altitude and range of any given unmanned aircraft system are specific aircraft manufacturer performance characteristics and are often superior to the operational altitude or normal range. All troop-contributing countries operating class I micro, mini and small unmanned aircraft systems must coordinate with the mission's Aviation Section prior to the employment of these assets, as stated in the 2018 United Nations Aviation Manual.
- Unmanned aircraft systems operators shall be trained and licensed in accordance with their country's military regulations and standards. All operators and crew shall be able to operate all features and equipment of the unmanned aircraft systems and sensor packs to the fullest extent of their capability.

(b) **Class II unmanned aircraft systems:** Unmanned aircraft systems with a maximum gross take-off weight of between 150 and 600 kg, equipped with a line-of-sight data link. Normally operated up to 18,000 feet above ground level with a maximum range of 200 km. Equipage limitations and airworthiness restrictions may limit these systems to operations in restricted or special-use airspace;

(c) **Class III unmanned aircraft systems:** Medium-altitude, long-endurance unmanned aircraft systems and high-altitude, long-endurance unmanned aircraft systems, also known as remotely piloted aircraft systems, with a maximum gross take-off weight of more than 600 kg and operated up to 65,000 feet above ground level with unlimited range, beyond the line of sight. Standard aviation rules apply to this category.

23. Unmanned aircraft systems of class I (micro/multirotor and mini/hand-launched), when deployed in units (including quick reaction forces, rapidly deployable

<sup>21</sup> A/C.5/65/16, para. 104.

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battalions, engineer companies and police units) will be reimbursed as major equipment at the rate listed in chapter 8, annex A. All other types will be addressed under letters of assist, if applicable, upon approval of the corresponding statement of unit requirements. Minimum services to 24/7, day and night flying capability, aerial reconnaissance and surveillance to support the mission, including live video streaming with electro-optic infrared camera and data exploitation capability, are required. Detailed specifications are to be described in the statement of unit requirements.

- In order to be entitled to reimbursement throughout the duration of the deployment, each micro (multirotor) and mini (hand-launched) unmanned aircraft included in the memorandums of understanding must: (a) be described in the specific statement of unit requirements; and (b) be declared operational and functional (each unmanned aircraft) by the mission (not only upon initial inspection, but also on a regular basis). This includes the provision of qualified unmanned aircraft systems operators in line with national standards.

#### Armaments

24. Crew-served weapons must be operationally serviceable at a 90 per cent rate. Serviceability includes sighting and calibration of weapons and periodic test firing as permitted in the mission area. The quantities of each category of ammunition to be deployed by troop/police contributors must be in accordance with the quantities prescribed in the United Nations Manual on Ammunition Management. The United Nations defines a crew-served weapon as any weapon operated by more than one designated soldier.<sup>22</sup> Ammunition for sighting, calibration, test-firing and training is a consumable and is included in the wet lease maintenance rate. Therefore, training ammunition is a national responsibility unless the Force Commander/Police Commissioner specifically authorizes and directs special training beyond accepted United Nations readiness standards.<sup>23</sup> When weapons are provided through the United Nations, sufficient United Nations spare parts stock will be maintained in theatre to ensure the serviceability standards.<sup>24</sup>

#### Ammunition

25. The United Nations will reimburse contributing countries for deploying ammunition to and from the mission area.<sup>25</sup> Troop/police contributors are responsible for deploying ammunition according to the prescribed quantities in the United Nations Manual on Ammunition Management. Reimbursement for transportation or disposal will not be made for any ammunition deployed exceeding the stated quantities. Since the cost of ammunition and missiles associated with major equipment items, such as anti-aircraft and anti-armour weapons and howitzers, and explosives used with major equipment, is not included in the calculation of monthly wet lease rates, an incremental transportation factor is not included to reimburse the cost of transportation for their replenishment. Consequently, the United Nations will reimburse the transportation costs or arrange transportation (upon request of troop/police contributors) for the deployment, repatriation and replenishment of those specific types of ammunition,<sup>26</sup> as well as explosives used with major equipment.

<sup>22</sup> Military Planning Service email dated 9 August 2001.

<sup>23</sup> A/C.5/49/66, annex, para. 48 (c).

<sup>24</sup> A/C.5/49/70, annex, appendix I.A, para. 18.

<sup>25</sup> A/C.5/49/66, para. 48 (a).

<sup>26</sup> For example, tear-gas grenades/canisters, tear-gas hand grenades, smoke grenades, flash-bang grenades/thunder flashes, soft kinetic projectiles, illumination flares, tracers, incendiaries, grenades and ammunition for anti-aircraft and anti-armour weapons.

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26. The United Nations will reimburse ammunition in the following circumstances:

- (a) Ammunition and explosives expended for operational purposes;
- (b) Ammunition expended to meet training standards beyond accepted United Nations readiness standards that have been authorized and directed by the Force Commander/Police Commissioner, but not for other training or exercises within accepted United Nations readiness standards. For the latter, ammunition is considered a consumable (see chap. 2, annex A, para. 2) covered under either the wet lease rates or reimbursement for contingent personnel (as part of clothing, gear and personal weaponry);
- (c) Ammunition and explosives that become expired in the mission area. Troop/police contributors are responsible, however, for deploying ammunition and explosives with a minimum of 50 per cent of their shelf life remaining and for storing them properly;
- (d) Ammunition and explosives will be reimbursed upon presentation of a claim by the Government supported by a manufacturer invoice or certification by the Government and an operational ammunition expenditure certificate from the mission;
- (e) In order to be processed, the claims for reimbursement of ammunition and explosives shall be submitted as soon as possible but not later than 12 months after the date of approval of the operational ammunition expenditure certificate. After that period, the right to claim reimbursement for ammunition shall expire;
- (f) The reimbursement rates for ammunition related to aircraft/vessel are to be included as an attachment to the letter of assist (see chap. 3, annex A, paras. 21 and 28);
- (g) Reimbursement for ammunition and explosives for explosive ordnance disposal under self-sustainment is included in the self-sustainment rates and is not reimbursable separately (see chap. 3, annex B, para. 25).

27. The spare capacity, if available, during the rotation of unit personnel in United Nations-provided transportation or in the transportation provided by the troop/police contributor under a letter of assist can be used to transport authorized ammunition to replace expended or expired stock, to achieve greater efficiencies. The use of any spare capacity must be cost-neutral to the United Nations; in such a case, this efficiency gain will not result in a charge to the troop/police contributor.

- Ammunition that has exceeded half of its shelf life as stated by the manufacturer shall not be accepted for deployment. An exemption/waiver can be given based upon an ammunition management policy statement (see International Ammunition Technical Guideline 03.10) or an equivalent statement by a national safety authority proving that the ammunition is supported by a technical surveillance and in-service proof programme (see International Ammunition Technical Guideline 07.20). Ammunition that has exceeded half of its shelf life when deployed and is lacking an ammunition management policy statement or equivalent statement, regardless of the reason of deployment needs, will not be reimbursed. Troop/police contributors are responsible for providing a manufacturer's certificate stating the production year and the estimated shelf life of the ammunition being deployed in the mission area. Troop/police contributors are further responsible for certifying that all ammunition deployed in support of national contingents is safe to deploy.
- The process to receive approval for the destruction or extension of life of ammunition and explosives from the troop/police contributors should ideally

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start 18 months prior to the manufacturer's declared expiry date. Troop- and police-contributing countries are responsible for approving the disposal of unserviceable or expired ammunition and explosives within six months of the expiry date or the date on which the ammunition or explosives have been declared unserviceable by the senior ammunition technical officer, whichever is earlier, after which the requirement of obtaining approval from troop- and police-contributing countries before disposal of unserviceable ammunition or explosives will no longer exist and unserviceable ammunition or explosives will be disposed of in the mission area for safety reasons.

- Troop/police contributors are responsible for the deployment of ammunition storage containers. To qualify for reimbursement as ammunition containers, such containers must have the following minimum specifications:
  - (a) Size not exceeding 20 feet;<sup>27</sup>
  - (b) Free from damage and corrosion, with all locks and hinges being operational and serviceable;
  - (c) A system to allow for adequate humidity and temperature control measures (air conditioner) to keep the temperature below 30°C;
  - (d) A thermometer/temperature reader;
  - (e) Electrical installations that may exceed the energy limits of electro-explosive device test equipment contained by a compliant enclosure with a minimum of IP44 or national equivalent protection, according to the safety standards for electrical installations (International Ammunition Technical Guideline 05.40, chap. 5);
  - (f) Earthing equipment and prepared connection points for earthing;
- Additional desirable specifications include:
  - (g) An internal light;
  - (h) Fire/smoke detectors;
  - (i) Internal fire-retardant wall;
  - (j) Concealed wiring;
  - (k) Sophisticated lock system with collapsible gate;
  - (l) Water sprinkler/hydrant system;
  - (m) Vertical lashing points and lashing straps;
  - (n) Humidity reader;
  - (o) Data logger for temperature, humidity and shock.

#### **Naval vessels**

28. Owing to the special nature of vessels, type, quantity and performance criteria will be stipulated separately in letters of assist.

#### **Vehicles**

29. The inspection team is responsible for verifying the equipment to ensure it is classified according to the description or category provided in the COE Manual.

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<sup>27</sup> Ammunition containers larger than 20 feet pose transportation problems and their deployment is thus restricted.

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30. Commercial pattern vehicles are defined as those vehicles which are readily available from a commercial source. Effective 1 July 2011, all newly deployed commercial vehicles brought to new and existing missions must be equipped with standard seat belts. The cost will be borne by the troop/police contributor. Troop/police contributors are encouraged to install standard seat belts for already deployed commercial vehicles. This option should not be mandatory and the costs will be borne by the country.<sup>28</sup>

31. Military pattern vehicles are specifically engineered and designed according to precise military/police specifications and are built to satisfy particular military/police mission applications. The number of military pattern vehicles should be detailed in accordance with the mission-specific statement of unit requirements. A checklist to determine whether a commercial pattern vehicle could qualify for a military pattern rate of reimbursement is contained in appendix 1 to the present annex.<sup>29</sup> In cases in which the original vehicle is of a commercial pattern, the vehicle may be considered “military pattern” for reimbursement purposes under contingent-owned equipment, subject to negotiation of the memorandum of understanding, and are to be indicated in annex B to the memorandum of understanding. Issues relating to whether an upgrade to commercial equipment entitles a troop/police contributor to reimbursement for military pattern equipment are to be dealt with during the negotiation of the memorandum of understanding at United Nations Headquarters, with paramount importance accorded to operational requirements and the principle of “reasonableness” in resolving disagreements.

32. Specifications for police vehicles can be found in appendix 2 to the present annex.

33. Under a dry lease arrangement in which the United Nations is responsible for maintaining the major equipment or arranging for the maintenance of major equipment by a third party, a review of maintenance and spare parts will be conducted to determine if the cost of maintenance exceeds the maintenance rate included in the generic wet lease rate. In such situations, an initial assessment is required to determine if the cost of overrun is attributable to environmental or operational conditions. If the cost overrun is not attributable to local conditions but rather to the condition of the equipment, a report shall be submitted to United Nations Headquarters explaining the situation, indicating which category of equipment is subject to maintenance overrun and by what amount. In such cases, the United Nations may reduce the dry lease reimbursement rate to the troop/police contributor by the amount in excess of the estimated maintenance rate included in the generic wet lease.<sup>30</sup>

34. The equipment authorized in the memorandum of understanding must include all minor equipment, checklist items (jacks, driver’s tools, spare tire, etc.) and consumables (less fuel) associated with the vehicle.

35. Under the conditions of a wet lease, when the total number of operationally serviceable (i.e. available for use) vehicles is less than 90 per cent of the quantity authorized in the memorandum of understanding for a vehicle subcategory, the reimbursement will be reduced accordingly.<sup>31</sup>

36. A vehicle will be considered operationally unserviceable if it is unavailable for normal mission use for a period of time in excess of 24 hours. A unit can hold limited

<sup>28</sup> A/C.5/65/16, para. 117.

<sup>29</sup> A/C.5/58/37 and A/C.5/58/37/Corr.1, annex I.B.2.

<sup>30</sup> A/C.5/49/70, annex, appendix I.A, para. 26.

<sup>31</sup> Ibid., para. 23.

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operational stocks (up to 10 per cent of the authorized quantity, or one extra vehicle when the authorized quantity is from 5 to 10) to allow for immediate replacement for vehicles lost or damaged beyond in-theatre repair capability.<sup>32</sup>

37. Under the conditions of a dry lease, the vehicle will be provided in an operationally serviceable condition, with all minor equipment and checklist items, for immediate use upon arrival in the mission area. The United Nations is required to maintain operational serviceability at a minimum rate of 90 per cent of the agreed quantity in a vehicle subcategory. A vehicle will be considered operationally unserviceable if it is unavailable for normal mission usage for a period of time in excess of 24 hours. Serviceability below 90 per cent owing to the inability of the United Nations to maintain the equipment might require downward adjustments to unit tasks/missions without a corresponding reduction to other reimbursements adversely affected by reduced activity rates.<sup>33</sup> The United Nations is responsible for returning the vehicle to the troop/police contributor in the same level of operational serviceability, with all minor equipment and checklist items, as originally provided.

38. Weapons systems on all vehicles are to be serviced to ensure that the capability to perform the mission is maintained. On combat vehicles, operational serviceability is required for the main weapon and its associated fire control system. If either the weapon itself or the fire control system is inoperable, then the vehicle is considered not in service and not eligible for reimbursement.<sup>34</sup> A crew-served weapon is any weapon operated by more than one designated soldier.

39. To be considered serviceable for United Nations operations, all vehicles must be painted white with appropriate United Nations markings. Painting and repainting are covered in greater detail in appendix 4 to the present annex.

- A vehicle will be considered unserviceable if the odometer or hour meter reading is unserviceable for two consecutive quarters and must be repaired or the item replaced if lost or damaged beyond in-theatre repair capability.

#### **Canine unit, all types – special case**

40. A canine unit is a security unit comprising a dog and a dog handler with unique skills and capabilities. Operations may require the use of more than one canine unit.<sup>35</sup>

#### **Force protection equipment**

41. Force protection equipment is meant to enhance the force protection of United Nations units and allow them to confront the new techniques and procedures used against United Nations personnel and facilities. Current threats include the use of remote-control improvised explosive devices, infiltration and direct attack against United Nations facilities. Force protection equipment might include but not be limited to portable or vehicle-mounted electronic counter-measure jammers, closed-circuit television, motion detectors and various types of movement sensors.

- Military units are required to conduct operations at night and over long ranges and a long duration to complete mandated tasks. Contingent personnel engaged in targeted offensive operations, night operations and long-range patrolling over a long duration are also required to be supported by helicopters in case of casualty evacuation and emergency extrication. Considering the risk attached to

<sup>32</sup> Ibid., para. 24.

<sup>33</sup> Ibid., para. 25.

<sup>34</sup> Ibid., para. 27.

<sup>35</sup> [A/C.5/68/22](#), para. 99 (a).

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night operations, the inclusion of helicopter landing site kits as a package is important to enhance the survivability of uniformed personnel undertaking operations in highly unpredictable and remote areas of operations. Helicopter landing site kits will apply to, inter alia, independent infantry companies, quick reaction forces, special forces companies and force reserve companies. For battalions, two helicopter landing site kits are to be provided and one helicopter landing site kit should be provided for each company-sized unit and for level 1 medical facilities. For other types of units (equal to or less in strength than a company), one helicopter landing site kit should be provided.

- Very high frequency (VHF)-AM communications: the handheld radios for air-ground communications will be used as a means of radio communications between the infantry element of a quick reaction force, special forces, force reserves and infantry elements tasked with conducting long-range patrols and the relevant aviation assets, particularly in a casualty evacuation operation. This aeronautical radio will allow efficient, quick and direct contact with the air platform for such a time-sensitive task in the spectrum of 118 to 137 MHz.

- To be considered serviceable for United Nations operations, six mandatory items are required to be included in the helicopter landing site kit. These are:

(a) Handheld radio for air and ground communication (VHF-AM) (not mandatory if the unit already has the equipment);

(b) Coloured smoke grenades (set of 6 in 2 different colours)/coloured smoke device (capable of producing 2 or more colours);

(c) White strobe lights (set of 6);

(d) Fluorescent marker-panels with stakes (set of 3);

(e) Marshalling wands (set of 2);

(f) Machete (set of 2).

## Chapter 3, annex A, appendix 1

**Appendix 1****Factors in deciding whether a commercial-pattern support vehicle should be reimbursed as a military-pattern equivalent**

| <i>Serial</i> | <i>List of changes</i>  | <i>Remarks</i> |
|---------------|---|----------------|
| 1             | Military radio and antenna plus radio system (very high frequency (VHF)/high frequency (HF)) installed                | Mandatory      |
| 2             | Country mobility (4 x 4, 6 x 6, 8 x 8, etc.)  | Mandatory      |
| 3             | High ground clearance (minimum 200 mm for light utility vehicles and minimum 300 mm for heavier vehicles)             | Mandatory      |
| 4             | Winch with accessories (capable of pulling the weight of the vehicle to which it is fixed and its normal combat load) | See note       |
| 5             | Auxiliary __ volt power outlet/adaptor <sup>a</sup>   | See note       |
| 6             | Additional __ volt power outlets (minimum 2 pieces) <sup>a</sup>  | See note       |
| 7             | Spotlight (__ volts) <sup>a</sup>   | See note       |
| 8             | Roof-mounted working lights (minimum 2 pieces)  | See note       |
| 9             | Weapons stowage clamps and/or ammunition box storage  | See note       |
| 10            | Cargo tie-down loops and cargo-fastening equipment  | See note       |
| 11            | Jerry can or equivalent mounts for extra fuel   | See note       |

*Note:* At least 7 of the 11 serials must be met; serials 1, 2 and 3 are mandatory.

<sup>a</sup> Dependent upon which voltage the vehicle uses.

## Appendix 2

### Military and police vehicles<sup>1</sup>

#### Police armoured protected vehicle

1. A police armoured protected vehicle is an armoured vehicle with cross-country capability, used to transport a police section of 8 to 12 people with full crowd-control gear. It is a multipurpose public order vehicle and provides protection against small arms. Such a vehicle is designed for both urban and rural operations and can be used in many roles, including as a routine armoured patrol vehicle. There is no weapons system integrated with the vehicle.

#### Police crowd-control vehicle

2. A police crowd-control vehicle is a protected vehicle designed for operations in urban and rural environments, with the capacity to transport a police section of 9 to 12 people with full crowd-control gear. It must provide protection against non-explosive hand projectiles. One crowd-control system (a tear-gas launcher, for example) may be integrated within the vehicle. There is no weapons system integrated with the vehicle. A police crowd-control vehicle should allow all responding personnel to travel in the same vehicle platform, for easy communication and delivery of orders, operational planning, preparation of equipment and disembarkation as a unit or team, among other things. For security and operational reasons, there must be more than one entry/exit for the personnel travelling on the platform. The vehicle's entry/exit openings shall be large enough to facilitate the embarking and disembarking of security personnel in full riot control gear. Communications between the team leader, the driver and the crowd-control operators/team members must be assured at all times by direct verbal commands, rather than over the radio or the telephone. The vehicle must have the capability to deliver tear-gas munitions in a 360° arc of fire. All glazing, openings, front headlights, rear tail lights, emergency bar(s), light(s), public address systems and siren(s) must be protected by steel meshing. The vehicle must also be equipped with the following basic tools for police public order operations:

- (a) Two portable fire extinguishers (fire types ABC) of medium capacity;
- (b) One fire blanket;
- (c) One bolt-cutter;
- (d) One Halligan bar and door ram (for door breaching);
- (e) One iron hook and chain or rope (for barricade removal and dragging or pulling).<sup>2</sup>

#### Water cannon truck

3. A water cannon truck is a self-propelled water tanker with a minimum capacity of 2,500 litres that is equipped with a high-pressure, jet-pulse-system water cannon or cannons. These vehicles may be armoured or soft-skinned (depending on the mission's force requirements) in order to provide adequate protection for the entire operating crew. All glazing, openings, front headlights, rear tail lights, emergency bar(s), light(s), public address systems and siren(s) must be protected by steel meshing. The truck can be upgraded for additional payload, such as scanners, video

<sup>1</sup> [A/C.5/65/16](#), para. 113.

<sup>2</sup> [A/C.5/68/22](#), para. 102.

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or image recording, front plough, foam or chemical dye marking, tear gas or smoke disperser and projectors or launchers. Water cannon trucks are normally used by security forces for public order management operations.<sup>3</sup>

## **Vehicles**

### **Armoured personnel carrier**

1. An armoured personnel carrier is an armoured carrier (either tracked or wheeled) designed and equipped to transport an infantry section (minimum of 8 to 10 persons). An armoured personnel carrier can be armed or unarmed with an integral or organic weapon, the calibre of which will be determined in the statement of unit requirements. By convention, armoured personnel carriers are not intended to take part in direct-fire battle, but are armed for self-defence (armoured personnel carriers can be gathered together to generate a fire-support nest, if necessary). They are armoured to provide protection from heavy machine guns, small arms fire and fragments. Protection can be upgraded with additional armoured layers against anti-vehicle weapons, shrapnel and small arms fire, including rocket-propelled grenade nets. The armoured personnel carrier category includes different equipment types, such as infantry carrier, recovery, command post and ambulance armoured personnel carriers.

- Classification is determined based on the capabilities of the armoured personnel carrier. The capabilities include protection level, fire power, mobility, payload or carrying capacity, and command and control in respect of armed armoured personnel carriers. For unarmed armoured personnel carriers, the capabilities will include protection, mobility, payload or carrying capacity, and command and control. The statement of unit requirements will state the critical capabilities (class I, II or III) that an armoured personnel carrier is required to have based on the operational need of the unit/mission. Armoured personnel carrier capabilities will be assessed using the assessment sheets contained in appendices 5 to 8. The capabilities will be confirmed by the troop/police-contributing countries, along with documentary proof, and verified during the predeployment visits or arrival inspection, as necessary. The above-mentioned system to classify armoured personnel carriers will come into effect from 1 July 2025 for all new deployments or armoured personnel carrier equipment rotations for currently deployed troop/police contributors, once eligible under the policy of rotation of contingent-owned equipment, at United Nations expense. The existing fleet of armoured personnel carriers will continue to be reimbursed under the existing classification in the signed memorandums of understanding in place with the Member States.<sup>4</sup>

### **Armed armoured personnel carriers**

2. Armed armoured personnel carriers are vehicles (tracked or wheeled) that are equipped with an integrated weapon platform to host a machine gun with a minimum calibre determined in the specific statement of unit requirements. This weapon platform must provide basic ballistic protection to the gunner (from 360 degrees if the weaponry is not operated from inside the armoured personnel carrier) and allow the gunner to modify the elevation of the weaponry. The weaponry could be an integrated part of the vehicle or capable of being dismounted and used mounted on the vehicle to provide self-protection and fire support to another vehicle or dismounted troops, but can be dismounted for maintenance, cleaning or storage

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<sup>3</sup> Ibid., para. 104 (a).

<sup>4</sup> [A/77/736](#), IV.A, para. 45, 1 bis.

**Chapter 3, annex A, appendix 2**

purposes as well as dismounted to be used on a tripod (or any other device) to provide fire support to troops from the ground when operationally deemed necessary. In all the cases (as an integrated part or capable of being dismounted), the weaponry should provide a minimum 120-degree arc of fire.

**Unarmed armoured personnel carriers**

3. Unarmed armoured personnel carriers, on the other hand, are vehicles (tracked or wheeled) which do not meet the requirements of integrated weapon platforms for self-protection and fire support, or for which the main weaponry calibre is insufficient. Unarmed carriers do not have an integrated weapons system or an integrated cradle for the dismounted weapons system.

**High-mobility light tactical vehicle**

4. A high-mobility light tactical vehicle is a light armoured wheeled combat or combat support vehicle designed and equipped to transport between four and six persons. It is normally armed with an integral or organic 5.56-mm or higher calibre weapon. By convention, high-mobility light tactical vehicles are not intended to take part in direct-fire battle, but are armed for self-defence. High-mobility light tactical vehicles are armoured to provide protection from fragments and small-arms fire. The high-mobility light tactical vehicle category includes different types of equipment, such as infantry carrier, command post, anti-tank platform, cargo and ambulance high-mobility light tactical vehicles.

**Infantry fighting vehicle**

5. An infantry fighting vehicle is a tracked or wheeled armoured combat vehicle which is designed and equipped to carry a combat infantry squad of a minimum of six persons and which is armed with an integral or organic cannon of at least 20-mm calibre. Infantry fighting vehicles are capable of taking part in direct-fire battle and providing fire support to the dismounted infantry.

**Mine-resistant ambush-protected vehicle**

6. A mine-resistant ambush-protected vehicle is a military-pattern wheeled vehicle that cannot be classified as an armoured personnel carrier but is protected against mines and explosive devices by specific design characteristics to mitigate the effects of an explosive blast. These are typically identified as a V-shaped hull and/or enhanced undercarriage protection that can withstand the effects of a minimum 6 kg anti-tank landmine. The mine-resistant ambush-protected vehicle is used to carry an infantry team of a minimum of four persons. The mine-resistant ambush-protected vehicle can be either unarmed or armed with cannon and/or machine gun with an appropriate calibre as recommended in the statement of unit requirements. The mine-resistant ambush-protected vehicle can also be used for engineering tasks and/or explosive ordnance disposal in mined environments.

**Reconnaissance vehicle**

7. A reconnaissance vehicle is a purpose-built, wheeled, small-sized, light armoured vehicle generally used for passive reconnaissance. It relies on speed, communication capabilities and cover to escape detection. Reconnaissance vehicles are either unarmed or lightly armed with 5.56-mm or higher calibre weapon systems. Reconnaissance vehicles are protected against artillery and mortar fragmentation and small-arms fire and are designated to transport troops with a minimum of two to three persons.

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**Chapter 3, annex A, appendix 2****All-terrain vehicle**

8. An all-terrain vehicle is an unarmoured vehicle capable of both road and off-road mobility, allowing operability over different terrains. The vehicle has the ability to manoeuvre over rough ground, thick brush or vegetation and fields, and through shallow water. Some all-terrain vehicles have, in addition, the ability to manoeuvre through wetlands. All-terrain vehicles should have the capability to undertake patrols in areas typically impossible to reach with regular patrol vehicles. Keeping in view the operational environment, such vehicles may have additional fuel canisters for extended range. All-terrain vehicles include:

- (a) All-terrain vehicle, light – minimum load capacity of 200 kg or two personnel;
- (b) All-terrain vehicle, heavy – minimum load capacity of 1,000 kg or six personnel.<sup>5</sup>

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<sup>5</sup> [A/77/736](#), IV.A, para. 8 (b).

## Appendix 3

### Generators<sup>1</sup>

1. The ISO 8528 standard includes four ratings for generators: continuous power, prime power, limited-time running and emergency standby power. Troop/police contributors may choose to deploy generators that meet the ISO 8528 standard or are covered under the existing (pre-2017) arrangements.

#### Site energy plans

2. Site energy plans will be developed for both existing and planned sites, based upon energy assessments and forecasts. The core of such plans will be the design of an optimized diesel-generation solution for each site, which may consist of an individual generator for the smallest of sites and a bank of two or more generators for other sites. Renewable energy solutions will be integrated into the plans where appropriate. Appropriate backup generation capacity will be included in the design to allow for scheduled and unscheduled outages of the main (prime power) generator units. A core principle of the energy plan will be appropriate sizing of the generator or generators to match the variable demand and avoid low-load operation (ISO 8528-2-5.3).

3. For contingents deploying generators meeting the ISO 8528 standard, site energy assessments will be conducted to ensure compliance with site energy plans. Contingents will enable site access and safeguard the supplied monitoring equipment in order to receive reimbursement at the prime power, limited-time running and emergency standby power rates. The assessment will be a report provided in draft form for review by the contingent commander.

#### Generator role classification

4. Generators deployed under the new categories of generators must meet the ISO 8528 standard. The performance class will be minimum of class G3, as defined in ISO 8528, which is the standard of electrical power stability and quality required to safely operate and protect moderately sensitive electrical equipment. In addition, generators will have a power rating as either prime power, limited-time running or emergency standby power depending on their actual operational role. Additional generators will be considered excess requirement. Different technical standards and reimbursement rates will apply to the different classifications.

5. **Prime power generators** individually or collectively provide the whole or majority of the electricity required by an isolated or mini-grid load. Prime power is defined as being the maximum power that a generating set is capable of delivering continuously while supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions, with maintenance intervals and procedures carried out as prescribed by the manufacturer. Prime generators can operate either individually, servicing 100 per cent of an isolated load, or as part of a prime generator bank, in which several synchronized generators act as a virtual single generator in a load-following mode.

6. **Limited-time running power generators** provide a backup role for prime power generators, for both planned and unplanned outages. Common planned outages are for routine minor maintenance and, in some cases, fuel supply. Limited-time running is defined as the maximum power available, under the agreed operating

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<sup>1</sup> A/C.5/71/20, para. 35 (b).

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conditions, for which the generating set is capable of delivering up to 500 hours of operation per year with maintenance intervals and procedures carried out as prescribed by the manufacturers.

7. **Emergency standby power generators** provide a similar backup role for prime power generators. Emergency standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions up to 200 hours of operation per year with maintenance intervals and procedures carried out as prescribed by the manufacturers.

8. **Renewable energy** increases energy autonomy, operational resilience and the self-sustainment capacity of camps by reducing the use of diesel fuel and petroleum-based lubricants and the need for fuel supply and related convoys, especially in areas with asymmetric attacks. Deployment of more renewable energy power generation capacity has a positive effect on the safety, security and health of personnel and the host community, and reduces the environmental impact of the contingent and the missions globally through a reduction in emissions of greenhouse gas and other air pollutants, and in-country through the prevention of soil, air and water pollution. The use of renewable energy systems in contingent camps also reduces exposure of personnel to elevated noise levels from diesel generators, contributing to the welfare of personnel.<sup>2</sup>

- **Synchronized generator banks** are sets of three or more generators connected by an electronic synchronization system, to enable operation as an integrated unit that can supply highly variable levels of electrical power to service highly variable daily and seasonal demands. All generators within such banks must be of the prime power role performance standard defined above.

**Generator sizing**

9. Required generator sizes will be determined in the site energy plan. Individual prime-power generators and banks of such generators must be sized to operate within the load band of 60–110 per cent based on a kVA to kilowatt (kW) power factor of 0.8. The annual average load for individual generators should not exceed 85 per cent of the rated power.

- The total number of generator banks (N) must be sized as a minimum to accommodate the short-term (30 minutes or less) peak daily load within the 100 per cent rated capacity of N-1, thereby enabling reliable and continuous operation while one unit is being serviced or repaired. Such banks must be sized as a maximum to result in a three-unit combined capacity factor of 55 per cent or higher.

**Prime power generator availability and backup capacity**

10. Prime power generators in base camps and medical facilities must have the capacity to run at least 8,200 hours per year and to operate on a 24/7 basis. They must have the equivalent of 100 per cent of the backup capacity of functional generators onsite and be ready for connection in either a limited-time running or an emergency standby power role.

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<sup>2</sup> A/77/736, IV.A, para. 38 (8).

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**Generator life cycle and reimbursement**

11. Generators cannot operate in the prime power generator role beyond their stated useful service life, which shall be assumed to be a maximum of 20,000 hours unless indicated otherwise by the manufacturer's manual. For the purposes of calculation of reimbursement, the useful service life of generators in the prime power role is set as six years in the 2017 reimbursement rates.

12. Prime power generators that are between six and twelve years old may be retained, but they must be downgraded to a lower power rating (either limited-time running or emergency standby power) and be part of an agreed site energy plan. Downgraded generators within an agreed energy plan will be reimbursed at the rate for their new role. Downgraded generators not within an agreed energy plan and not used will be declared excess requirement.

**Generator maintenance and reimbursement**

13. Prime power generators will undergo regular routine maintenance and scheduled major overhauls in accordance with the manufacturer's manual. A unit will retain full maintenance records for verification. When prime power generators have not undergone a major overhaul within the period stated in the manufacturer's manual (10,000 hours for units up to 200 kW or 15,000 hours for units over 200 kW, whichever is lower), the generators shall be downgraded for reimbursement to limited-time running generator status.

## Appendix 4

### Painting and repainting

1. To be considered serviceable for United Nations operations, all vehicles must be painted white with appropriate United Nations markings. If painting is not completed before deployment, reimbursement may be withheld until the standard is reached unless United Nations Headquarters has specifically authorized an exception to this requirement. Reimbursement for painting will be calculated using the standard rates per type/category of equipment,<sup>1</sup> multiplied by the quantity of equipment authorized in annex B to the memorandum of understanding, plus an additional 10 per cent, where applicable, upon confirmation by the mission through inspections or other means that the major equipment items were painted.

2. For special cases, if the equipment can be logically fitted into an existing category or if agreed between the United Nations and a troop/police contributor at the time of negotiation of the memorandum of understanding, the painting and repainting rate applicable to the existing category will apply. Otherwise, reimbursement for painting or repainting will be based on presentation of an invoice for actual costs.<sup>2</sup> The rates for repainting are set at 1.19 times the rates for painting.<sup>3</sup>

3. Reimbursement for painting or repainting of major equipment not identified separately in annex B to the memorandum of understanding but used in the performance of self-sustainment capabilities, such as containers and communications vehicles, should be submitted through a separate claim showing the applicable category of self-sustainment, and the type and quantity of equipment. These claims will be reviewed to assess that the type and quantity of major equipment used for self-sustainment is required and reasonable and to establish, where possible, a logical link with existing major equipment items for which standard rates were determined. If no logical link to existing major equipment exists, the claim will be reviewed and negotiated on a case-by-case basis.

4. Reimbursement for repainting will be based on major equipment departing the mission in accordance with the departure verification reports. In order to provide assurance that the equipment will be properly repainted and all United Nations markings will be duly removed, a troop/police contributor will deliver an official certification to the United Nations through its permanent mission indicating that it will not use the repatriated equipment in any activity before all United Nations markings are removed. The United Nations will reimburse troop/police contributors for repainting after receiving the certification; no claim is necessary. The reimbursement rates for repainting are contained in chapter 8, annex A.<sup>4</sup>

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<sup>1</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 56.

<sup>2</sup> Ibid., para. 56 (a).

<sup>3</sup> Ibid., para. 56 (b).

<sup>4</sup> A/C.5/71/20, para. 50 (a).

## Appendix 5

### Breakdown of proposed capabilities and corresponding points allocated (tracked armoured personnel carrier – armed)

| <i>Serial</i> | <i>Parameter</i> | <i>Subparameter</i>   | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>  | <i>Weighted point allocated</i> | <i>Measured subparameter</i>  | <i>Weighted point allocated</i> |
|---------------|------------------|---|---|--|---------------------------------|---|---------------------------------|---|---------------------------------|
| 1.            | Protection       | Ballistic 360/kinetic energy threat                                     | 3   | Protection against heavy machine gun, 14.5 mm and above:<br>Ammunition: armour-piercing<br>Distance: 200 m,<br>Angle azimuth 360°;<br>elevation 0° | 3                               | Protection against machine gun and sniper rifles ≥ 7.62 mm but less than 14.5 mm<br>Ammunition: armour-piercing tungsten carbide and armour-piercing hard steel core<br>Distance: 30m<br>Angle: azimuth 360°;<br>elevation 0°–30° | 2                               | Protection against assault rifles, 7.62 mm and below:<br>Ammunition: armour-piercing steel core<br>Distance: 30 m,<br>Angle azimuth 360°;<br>elevation 0°–30° | 1                               |
|               |                  | Blast under the body/track (mine explosion/improvised explosive device) | 3   | 10 kg (explosive mass) anti-tank blast   | 3                               | 8 kg (explosive mass) anti-tank blast   | 2                               | 6 kg (explosive mass) anti-tank blast   | 1                               |
| 2.            | Mobility         | Horsepower/tonnage (HP/T)   | 3   | ≥ 20 HP/T  | 3                               | 16–19 HP/T  | 2                               | ≤ 15 HP/T   | 1                               |
|               |                  | Operating range on paved road   | 3   | ≥ 500 km   | 3                               | 401–499 km  | 2                               | ≤ 400 km  | 1                               |
|               |                  | Amphibious ability  | 3   | Float and ford on the move   | 3                               | Ford ≥ 1.5 m on the move  | 2                               | Ford < 1.5 m  | 1                               |
|               |                  | Off-road driving  | 3   | Soft soil + 2.5-meter trench<br>+> 0.5-m step + satellite (local area) cum inertial navigation system  | 3                               | Soft soil + 2-m trench + 0.5-m step + satellite navigation (local area)   | 2                               | Hard surface +< 2-m trench + < 0.5-m step + magnetic compass/gyro-based navigation  | 1                               |
| 3.            | Firepower        | Air transportability  | 3   | C-130 and helicopter underslung  | 3                               | C-130/IL-76   | 2                               | C-17  | 1                               |
|               |                  | ≥ 7.62mm/.30 calibre  | 3   | Stabilized remote-controlled acquisition and firing without exposing gunner + ≥1,500 round magazine  | 3                               | Remote-controlled acquisition and firing but unstabilized system mount + 1,000 to 1,499 round magazine  | 2                               | Manual acquisition and firing with gunner exposed/partially protected + < 1,000 round magazine  | 1                               |

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| <i>Serial</i> | <i>Parameter</i>    | <i>Subparameter</i>                             | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> |
|---------------|---------------------|---|---|--|---------------------------------|--|---------------------------------|--|---------------------------------|
|               |                     | Portholes for firing personal weapons by troops | 3   | ≥ 3 portholes on sides and at least 1 on rear                                | 3                               | 1–2 porthole(s) on sides and rear  | 2                               | No portholes. Troops required to open hatches for firing             | 1                               |
| 4.            | Payload capacity    | Number of persons, including crew               | 3   | 10 or more   | 3                               | 9  | 2                               | 8 or fewer   | 1                               |
| 5.            | Command and control | VHF/HF communication                            | 3   | ≥ 1 VHF + 1 HF radio set and communication feasible on the move              | 3                               | ≥ 1 VHF radio set and communication feasible on the move   | 2                               | ≥ 1 VHF or 1 HF radio set but communication not feasible on the move | 1                               |
|               |                     | Situational awareness                           | 3   | Day and thermal imaging sights for driver, commander and gunner              | 3                               | Day and thermal imaging sights for one crew member   | 2                               | Only day sights for driver, commander and gunner (no night vision)   | 1                               |
|               |                     | Intercommunication                              | 3   | Intercommunication between all crews and commander and dismounted commanders | 3                               | Intercommunication between all crews and commander but not between vehicle commander and dismounted commanders | 2                               | No intercommunication capability                                     | 1                               |

*Note:* The classification of armed, tracked armoured personnel carriers is calculated as follows: the highest possible number of points per subparameter is 3. The total possible points for the subparameters (3 x 13) is 39. Consequently, the classification would be as follows:

- Class I: 27–39 points
- Class II: 14–26 points
- Class III: 13 points

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## Appendix 6

## Breakdown of proposed capabilities and corresponding points allocated (wheeled armoured personnel carrier – armed)

| <i>Serial</i> | <i>Parameter</i> | <i>Subparameter</i>   | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>  | <i>Weighted point allocated</i> | <i>Measured subparameter</i>  | <i>Weighted point allocated</i> |
|---------------|------------------|---|---|--|---------------------------------|---|---------------------------------|---|---------------------------------|
| 1.            | Protection       | Ballistic 360/<br>kinetic energy threat                                 | 3   | Protection against heavy machine gun, 14.5 mm and above:<br>Ammunition: armour-piercing<br>Distance: 200 m,<br>Angle azimuth 360°;<br>elevation 0° | 3                               | Protection against machine gun and sniper rifles<br>≥ 7.62 mm but less than 14.5 mm<br>Ammunition: armour-piercing tungsten carbide and armour-piercing hard steel core<br>Distance: 30 m<br>Angle: azimuth 360°;<br>elevation 0°–30° | 2                               | Protection against assault rifles, 7.62 mm and below:<br>Ammunition: armour-piercing steel core<br>Distance: 30 m,<br>Angle azimuth 360°;<br>elevation 0°–30° | 1                               |
|               |                  | Blast under the body/track (mine explosion/improvised explosive device) | 3   | 10 kg (explosive mass) anti-tank blast   | 3                               | 8 kg (explosive mass) anti-tank blast   | 2                               | 6 kg (explosive mass) anti-tank blast   | 1                               |
| 2.            | Mobility         | Horsepower/tonnage (HP/T)   | 3   | ≥20 HP/T   | 3                               | 16–19 HP/T  | 2                               | ≤15 HP/T  | 1                               |
|               |                  | Operating range on paved road   | 3   | ≥ 500 km   | 3                               | 401–499 km  | 2                               | ≤ 400 km  | 1                               |
|               |                  | Amphibious ability  | 3   | Float and ford on the move   | 3                               | Ford ≥1.5 m on the move   | 2                               | Ford < 1.5 m  | 1                               |
|               |                  | Off-road driving  | 3   | 8 x 8  | 3                               | 6 x 6   | 2                               | 4 x 4   | 1                               |
|               |                  | Air transportability  | 3   | C-130 and helicopter underslung  | 3                               | C-130/IL-76   | 2                               | C-17  | 1                               |
| 3.            | Firepower        | ≥ 7.62 mm/<br>.30 calibre   | 3   | Stabilized remote-controlled acquisition and firing without exposing gunner + ≥1,500 round magazine  | 3                               | Remote-controlled acquisition and firing but unstabilized system mount + 1,000 to 1,499 round magazine  | 2                               | Manual acquisition and firing with gunner exposed/partially protected + < 1,000 round magazine  | 1                               |
|               |                  | Portholes for firing personal weapons by troops                         | 3   | ≥ 3 portholes on sides and at least 1 on rear  | 3                               | 1–2 porthole(s) on sides and rear   | 2                               | No portholes. Troops required to open hatches for firing  | 1                               |

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| <i>Serial</i> | <i>Parameter</i>    | <i>Subparameter</i>               | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> |
|---------------|---------------------|-----------------------------------|---|--|---------------------------------|--|---------------------------------|--|---------------------------------|
| 4.            | Payload capacity    | Number of persons, including crew | 3   | 10 or more   | 3                               | 9  | 2                               | 8 or fewer   | 1                               |
| 5.            | Command and control | VHF/HF communication              | 3   | ≥ 1 VHF and 1 HF radio set and communication feasible on the move            | 3                               | ≥ 1 VHF radio set and communication feasible on the move   | 2                               | ≥ 1 VHF or 1 HF radio set but communication not feasible on the move | 1                               |
|               |                     | Situational awareness             | 3   | Day and thermal imaging sights for driver, commander and gunner              | 3                               | Day and thermal imaging sights for one crew member   | 2                               | Only day sights for driver, commander and gunner (no night vision)   | 1                               |
|               |                     | Intercommunication                | 3   | Intercommunication between all crews and commander and dismantled commanders | 3                               | Intercommunication between all crews and commander but not between vehicle commander and dismantled commanders | 2                               | No intercommunication capability.                                    | 1                               |

Note: The classification of armed wheeled armoured personnel carriers is calculated as follows: the highest possible number of points per subparameter is 3. The total possible points for the subparameters (3 x 13) is 39. Consequently, the classification would be as follows:

- Class I: 27–39 points
- Class II: 14–26 points
- Class III: 13 points

## Appendix 7

### Breakdown of proposed capabilities and corresponding points allocated (tracked armoured personnel carrier – unarmed)

| <i>Serial</i> | <i>Parameter</i>    | <i>Subparameter</i>   | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>  | <i>Weighted point allocated</i> | <i>Measured subparameter</i>  | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> |
|---------------|---------------------|---|---|---|---------------------------------|---|---------------------------------|--|---------------------------------|
| 1.            | Protection          | Ballistic 360/ kinetic energy threat                                    | 3   | Protection against heavy machine gun, 14.5 mm and above:<br>Ammunition armour-piercing<br>Distance: 200 m,<br>Angle azimuth 360°;<br>elevation 0° | 3                               | Protection against machine gun and sniper rifles<br>≥ 7.62 mm but less than 14.5 mm<br>Ammunition: armour-piercing tungsten carbide and armour-piercing hard steel core<br>Distance: 30m.<br>Angle: azimuth 360°;<br>elevation 0°–30° | 2                               | Protection against assault rifles, 7.62 mm and below:<br>Ammunition armour-piercing steel core<br>Distance: 30 m,<br>Angle azimuth 360°;<br>elevation 0°–30° | 1                               |
|               |                     | Blast under the body/track (mine explosion/improvised explosive device) | 3   | 10 kg (explosive mass) anti-tank blast  | 3                               | 8 kg (explosive mass) anti-tank blast   | 2                               | 6 kg (explosive mass) anti-tank blast  | 1                               |
| 2.            | Mobility            | Horsepower/ tonnage (HP/T)  | 3   | ≥ 20 HP/T   | 3                               | 16–19 HP/T  | 2                               | ≤ 15 HP/T  | 1                               |
|               |                     | Operating range on paved road   | 3   | ≥ 500 km  | 3                               | 401–499 km  | 2                               | ≤ 400 km   | 1                               |
|               |                     | Amphibious ability  | 3   | Float and ford on the move  | 3                               | Ford ≥ 1.5 m on the move  | 2                               | Ford < 1.5 m   | 1                               |
|               |                     | Off-road driving  | 3   | Soft soil + 2.5-m trench + > 0.5-metre step + satellite (local area) cum inertial navigation system   | 3                               | Soft soil + 2-m trench + 0.5-m step + satellite navigation (local area)   | 2                               | Hard surface + < 2-m trench + < 0.5-m step + magnetic compass/gyro-based navigation  | 1                               |
|               |                     | Air transportability  | 3   | C-130 and helicopter underslung   | 3                               | C-130/IL-76   | 2                               | C-17   | 1                               |
| 3.            | Payload capacity    | Number of persons, including crew                                       | 3   | 10 or more  | 3                               | 9   | 2                               | 8 or fewer   | 1                               |
| 4.            | Command and control | VHF/HF communication  | 3   | ≥ 1 VHF + 1 HF radio set and communication feasible on the move   | 3                               | ≥ 1 VHF radio set and communication feasible on the move  | 2                               | ≥ 1 VHF or 1 HF radio set but communication not feasible on the move   | 1                               |

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| <i>Serial</i> | <i>Parameter</i> | <i>Subparameter</i>   | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>                                       | <i>Weighted point allocated</i> |
|---------------|------------------|-----------------------|---|--|---------------------------------|--|---------------------------------|--|---------------------------------|
|               |                  | Situational awareness | 3   | Day and thermal imaging sights for driver, commander and gunner              | 3                               | Day and thermal imaging sights for one crew member   | 2                               | Only day sights for driver, commander and gunner (no night vision) | 1                               |
|               |                  | Intercommunication    | 3   | Intercommunication between all crews and commander and dismounted commanders | 3                               | Intercommunication between all crews and commander but not between vehicle commander and dismounted commanders | 2                               | No intercommunication capability                                   | 1                               |

*Note:* The classification of unarmed, tracked armoured personnel carriers is calculated as follows: the highest possible number of points per subparameter is 3. The total possible points for the subparameters (3 x 11) is 33. Consequently, the classification would be as follows:  
 Class I: 23–33 points  
 Class II: 11–22 points

## Appendix 8

## Breakdown of proposed capabilities and corresponding points allocated (wheeled armoured personnel carrier – unarmed)

| <i>Serial</i> | <i>Parameter</i>    | <i>Subparameter</i>   | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> |
|---------------|---------------------|---|---|--|---------------------------------|--|---------------------------------|--|---------------------------------|
| 1.            | Protection          | Ballistic 360/kinetic energy threat                                     | 3   | Protection against heavy machine gun, 14.5 mm and above:<br>Ammunition: armour-piercing<br>Distance: 200 m,<br>Angle azimuth 360°;<br>elevation 0° | 3                               | Protection against machine gun and sniper rifles ≥ 7.62 mm but less than 14.5 mm<br>Ammunition: armour-piercing tungsten carbide and armour-piercing hard steel core<br>Distance: 30 m<br>Angle: azimuth 360°;<br>elevation 0°–30° | 2                               | Protection against assault rifles, 7.62 mm and below:<br>Ammunition: armour-piercing steel core<br>Distance: 200 m,<br>Angle azimuth 360°;<br>elevation 0°–30° | 1                               |
|               |                     | Blast under the body/track (mine explosion/improvised explosive device) | 3   | 10 kg (explosive mass) anti-tank blast   | 3                               | 8 kg (explosive mass) anti-tank blast  | 2                               | 6 kg (explosive mass) anti-tank blast  | 1                               |
| 2.            | Mobility            | Horsepower/tonnage (HP/T)   | 3   | ≥ 20 HP/T  | 3                               | 16–19 HP/T   | 2                               | ≤ 15 HP/T  | 1                               |
|               |                     | Operating range on paved road   | 3   | ≥ 500 km   | 3                               | 401–499 km   | 2                               | ≤ 400 km   | 1                               |
|               |                     | Amphibious ability  | 3   | Float and ford on the move   | 3                               | Ford ≥ 1.5 m on the move   | 2                               | Ford < 1.5 m   | 1                               |
|               |                     | Off-road driving  | 3   | 8 x 8  | 3                               | 6 x 6  | 2                               | 4 x 4  | 1                               |
|               |                     | Air transportability  | 3   | C-130 and helicopter underslung  | 3                               | C-130/IL-76  | 2                               | C-17   | 1                               |
| 3.            | Payload capacity    | Number of persons, including crew                                       | 3   | 10 or more   | 3                               | 9  | 2                               | 8 or fewer   | 1                               |
| 4.            | Command and control | VHF/HF communication  | 3   | ≥ 1 VHF + 1 HF radio set and communication feasible on the move  | 3                               | ≥ 1 VHF radio set and communication feasible on the move   | 2                               | ≥ 1 VHF or 1 HF radio set but communication not feasible on the move   | 1                               |
|               |                     | Situational awareness   | 3   | Day and thermal imaging sights for   | 3                               | Day and thermal imaging sights for one crew member   | 2                               | Only day sights for driver, commander and gunner (no night vision)   | 1                               |

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| <i>Serial</i> | <i>Parameter</i> | <i>Subparameter</i> | <i>Highest possible points per subparameter</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>   | <i>Weighted point allocated</i> | <i>Measured subparameter</i>      | <i>Weighted point allocated</i> |
|---------------|------------------|---------------------|---|--|---------------------------------|--|---------------------------------|-----------------------------------|---------------------------------|
|               |                  | Intercommunication  | 3   | driver, commander and gunner<br>Intercommunication between all crews and commander and dismounted commanders | 3                               | Intercommunication between all crews and commander but not between vehicle commander and dismounted commanders | 2                               | No intercommunication capability. | 1                               |

*Note:* The classification of unarmed, wheeled armoured personnel carriers is calculated as follows: the highest possible number of points per subparameter is 3. The total possible points for the subparameters (3 x 11) is 33. Consequently, the classification would be as follows:

- Class I: 23–33 points
- Class II: 11–22 points

**Annex B****Principles of verification and performance standards for minor equipment and consumables provided under self-sustainment****Introduction**

1. Self-sustainment is defined as logistics support for units in a field mission area whereby the troop/police contributor provides some or all categories of logistics support to the contingent on a reimbursable basis. A unit may be self-sufficient for various categories, depending on the ability of the United Nations to provide the necessary support and the unit's own capabilities. The modular concept of self-sustainment is based on the principle that a troop/police contributor cannot be partially self-sustaining in any given category. The required self-sustainment categories and any supplementary arrangements will be indicated in the respective memorandum of understanding.

**Purpose**

2. There are verifiable standards by which the self-sustainment categories are provided and subsequently reimbursed. The following standards, and associated definitions, are designed to apply to the categories of self-sustainment listed in chapter 8, annex B. The standards, stated in terms of operational capabilities, are designed to be generic in nature, leaving the details and the means of delivery of the capabilities to be discussed between the United Nations and the troop/police contributor.<sup>1</sup>

**Principles**

3. The overarching principle regarding self-sustainment is for all troop/police contributors and units to adhere to the commitments made in their respective memorandums of understanding to provide the agreed operational capability. Discussions between the United Nations and the troop/police contributor deploying a unit will result in an agreement on the self-sustainment capabilities to be provided.<sup>2</sup> As a starting point for negotiation, the United Nations will identify and request from a troop/police contributor those self-sustainment capabilities which it cannot provide. The right of a troop/police contributor to provide any, or some, of categories of self-sustainment will be taken into consideration during the negotiation of the memorandum of understanding.<sup>3</sup> The United Nations has a responsibility, however, to ensure that any self-sustainment services provided by a troop/police contributor meet the minimum operational capabilities and are compatible with those services provided by other troop/police contributors if interface is required, and that the cost to the United Nations is similar to what it would have been to arrange centrally for the provision of these services. Unless specifically required by the standards for a self-sustainment category, as detailed in the present annex, the provision of specific types, numbers or capabilities of equipment needed to meet the standards for a self-sustainment category, for reimbursement purposes, is to be based on meeting the operational requirement agreed between the United Nations and the troop/police contributor and reflected in the memorandum of understanding.<sup>4</sup>

4. When determining which party is to be responsible for the provision of a self-sustainment category, the cultural requirements of a troop/police contributor will be taken into consideration and a general principle of reasonability shall apply.<sup>5</sup>

<sup>1</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), para. 63.

<sup>2</sup> *Ibid.*, para. 67 (a) (i) and (ii).

<sup>3</sup> *Ibid.*, para. 67 (a) (ii).

<sup>4</sup> [A/C.5/65/16](#), para. 136.

<sup>5</sup> *Ibid.*, para. 128 (b) (27) (d).

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5. Only those services specifically agreed upon in the memorandum of understanding to be provided by a troop/police contributor will be reimbursable, at the rates listed in chapter 8, annex B, using the actual personnel strength up to the personnel ceiling agreed upon in the memorandum of understanding. The inspection team will refer to the respective memorandum of understanding to determine the categories of self-sustainment to be provided by each unit.

6. To be eligible for reimbursement for any self-sustainment category or subcategory, a unit must provide all minor equipment, maintenance and consumables associated with that specific category or subcategory. Categories are subdivided to ensure flexibility and to reimburse troop/police contributors only for the minor equipment and consumables provided. Should a unit obtain self-sustainment services from another unit, reimbursement will be made to the troop/police contributor providing the services unless other bilateral arrangements have been made. When the United Nations provides such services or part thereof, the troop/police contributor does not receive reimbursement for the applicable category or subcategory. A troop/police contributor may choose to procure some minor equipment and consumables from another troop/police contributor on a bilateral basis, or from a civilian contractor, in which case the troop/police contributor remains eligible for reimbursement as long as it meets the operational capabilities and standards for the categories of self-sustainment.

7. Troop/police contributors are requested to note that, in order not to disrupt the operational effectiveness of a mission, significant lead time may be required for the United Nations to arrange for procurement and support for some self-sustainment categories. Therefore, it is of paramount importance that a troop/police contributor inform the United Nations once it knows that it will not be able or does not wish to continue providing one or more of the self-sustainment capabilities negotiated in the memorandum of understanding. In these cases, the United Nations and the troop/police contributor will have to agree to an amendment to the memorandum of understanding in order for the United Nations to take responsibility for the provision of self-sustainment categories that cannot be sustained by the troop/police contributor.

8. Troop/police contributors are responsible for transportation related to the resupply to contingents of consumables and minor equipment necessary for the provision of self-sustainment.

### Change of location

9. In the event of a unit being required (if mutually agreed upon) to change the location of any base camp (unit or sub-unit level) owing to an operational or logistical/administrative requirement, the troop/police contributor may submit a claim to the United Nations for reimbursement of the extra and reasonable costs of reinstalling the self-sustainment services under its responsibility.<sup>6</sup>

### Standards

10. The inspection team is responsible for verifying the categories or subcategories of self-sustainment agreed to in the memorandum of understanding to assess if the standard of operational requirement approved by the General Assembly is being fulfilled.<sup>7</sup> In the same way, the United Nations must give an account of the services provided by the United Nations as stipulated in the memorandum of understanding.<sup>8</sup>

<sup>6</sup> Ibid., para. 122 (b).

<sup>7</sup> Standards are from [A/C.5/49/70](#), annex, appendix II.A, as amended subsequently by the General Assembly (see [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), annex III.B, annex B, paras. 7–45).

<sup>8</sup> [A/C.5/49/70](#), annex, appendix III, para. 1.

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**Catering**

11. To receive the self-sustainment reimbursement rate for catering, the unit must be able to feed its troops with cold and hot meals in a clean and healthy environment. The contingent must:<sup>9</sup>

(a) Provide kitchen facilities and equipment, including supplies, consumables, and reusable or disposable tableware (dishes, cups, and cutlery), for the camps for which it is responsible, as detailed in the memorandum of understanding. It is strongly recommended that disposable tableware be made of biodegradable and/or compostable material.<sup>10</sup> Tableware in self-sustainment catering:

(i) Biodegradable tableware: Any tableware (dishes, cups and cutlery) made of materials able to decay naturally and in a way that is not harmful to the environment);

(ii) Compostable tableware: Any tableware (dishes, cups and cutlery) made of materials that can be used as compost when they decay and/or organic materials that can, through the process of decomposition, be turned into nutrient-rich soil or fertilizer;

(iii) Reusable tableware: Any tableware (dishes, cups and cutlery) made of materials able to be used again and repeatedly, including reusable hard plastic;

(b) Provide deep freeze (14 days where required), cold (7 days) and dry (7 days) food storage for kitchen facilities;

(c) Provide kitchen facilities with hot dishwashing capabilities;

(d) Ensure that kitchen facilities have hygienic equipment that maintains a clean and healthy environment.

- Where refrigerated trucks (non-static) are required, this will be reimbursed separately under major equipment.<sup>11</sup>

12. The unit is responsible for maintaining and servicing its kitchen facilities, including all catering equipment, repair parts and supplies, such as dishes and cutlery. When the United Nations provides this service to an equivalent standard, the unit does not receive reimbursement for this category.<sup>12</sup>

13. Food, water and petrol, oil and lubricants are not included in the reimbursement rates, as the United Nations normally provides them. When the United Nations is unable to provide those items, or for initial provisioning, reimbursement will be made by the United Nations upon presentation of a detailed claim, subject to a review of the reasonableness of the claim in terms of the types and quantities of commodities provided in comparison with United Nations provisioning scales in the mission area.<sup>13</sup> The claim will be reviewed at United Nations Headquarters and should include the details of the provisioning requested under the guidelines for troop-contributing countries or other specific documented requests from the United Nations, as well as any other supporting substantiation.

<sup>9</sup> A/C.5/54/49, para. 60 (a).

<sup>10</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 67 (b).

<sup>11</sup> A/C.5/54/49, note to para. 60 (a).

<sup>12</sup> A/C.5/49/70, annex, appendix II.A, para. 2.

<sup>13</sup> A/C.5/68/22, para. 116 (a).

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**Communications**<sup>14</sup>

14. Telephone is the preferred means of communication for the unit; it will be utilized as much as possible for internal communications within the headquarters, and for communications with non-mobile sub-elements and sub-units of the unit located in the main base camp. The requirement for very high frequency (VHF)/ultra-high-frequency (UHF) FM and high frequency (HF) communications within the area of operations will be determined during the site survey and is subject to negotiation with the troop/police contributor. The standards for each of the communications subcategories are defined below, in order of usage preference. To receive the self-sustainment reimbursement rate for communications, a unit must meet the following criteria:

(a) **Telephone:** The unit will utilize the telephone as its primary means of internal communication within the main base camp. The unit headquarters and stationary sub-elements (such as offices, workspaces, observation posts and guard posts) and sub-units located at the main base camp will be wired into the telephone system as early into the operation as possible in order to maximize the use of telephonic communications. The telephone system that is deployed should have the capability to interface with the telephone system that is provided at the mission level. The interface could be on the most simple level (i.e. two-wire trunk or better). This would then give the unit the ability to access the local telephone system in places where such systems are available. Reimbursement will be based upon the number of personnel in the main base camp and those elements of the unit at other locations which are served by authorized contingent-provided telephone services. To receive the reimbursement rate for self-sustainment, the unit will:

- (i) Provide, install, operate and maintain a switchboard and telephone network that is capable of maintaining telephonic communications within the main base camp;
- (ii) Provide, install and maintain an adequate number of telephone instruments for the contingent and its sub-units and sub-elements within the area of operations (including all cable, wire and connectors, as well as other hardware that may be required);
- (iii) Provide a sufficient stock of spare parts and consumables to support operations, and the repair or replacement of malfunctioning equipment;

(b) **VHF/UHF-FM communications:** VHF/UHF-FM communications will be used as the primary means of radio communications with sub-units and sub-elements of the unit that are in a tactical or mobile environment and thus unable to communicate via telephonic means. While VHF/UHF-FM communications may be used by the unit as a backup means of communication to the telephone, this type of usage in itself is not a sufficient reason for reimbursement. Reimbursement will be based on the number of personnel in the unit. To receive the reimbursement rate for self-sustainment, the unit will:

- (i) Maintain one command-and-control net, down to the sub-unit (section/squad) level;
- (ii) Maintain one administrative net;
- (iii) Maintain one dismounted patrol and security net or other primary non-vehicle mounted net;

<sup>14</sup> [A/C.5/52/39](#), appendix IV.

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(iv) Provide a sufficient stock of spare parts and consumables to support operations and the repair or replacement of malfunctioning equipment;

(c) **HF communications:** HF communications will be used as the primary means of communication with sub-units and sub-elements of the unit that are operating within the areas of operations that are beyond range of VHF/UHF-FM communications assets and that are operating in a tactical or mobile environment, and thus unable to communicate via telephone or VHF/UHF-FM. While HF communications may be used as a backup means of communication to the telephone or to VHF/UHF-FM communications, this type of usage in itself is not a sufficient reason for reimbursement. Additionally, the use of HF communications solely as a means of national rear-link will not be reimbursed. Reimbursement will be based on the authorized number of personnel in the sub-units and sub-elements of the unit operating within the areas of operation beyond the range of VHF/UHF-FM communications assets and that are operating in a tactical or mobile environment, and thus unable to communicate via telephone or VHF/UHF-FM. To receive the reimbursement rate for self-sustainment, the unit will:

(i) Communicate with sub-units and sub-elements of the unit that are in a tactical or mobile environment, and thus unable to communicate via telephonic means, and beyond the range of VHF/UHF-FM base station communications;

(ii) Provide a command-and-control net using non-vehicular mounted HF communications equipment;

(iii) Provide a sufficient stock of spare parts and consumables to support operations and the repair or replacement of malfunctioning equipment.

**Office**<sup>15</sup>

15. To receive the reimbursement rate for office self-sustainment, the unit must provide:

(a) Office furniture, equipment and supplies for all unit headquarters staff;

(b) Office supplies for and services to personnel within the contingent;

(c) Electronic data processing and reproduction capability, including necessary software, to run all internal headquarters correspondence and administration, including necessary databases.

16. The unit is responsible for maintaining and servicing its offices, including all equipment, repair parts and supplies.

17. The rate is to be applied against the total unit population.

18. The United Nations could provide this capability as a complete self-contained function, subject to the agreed overarching principles stated above.<sup>16</sup>

**Electrical equipment**

19. To receive the self-sustainment reimbursement rate for electrical equipment, the unit must provide decentralized electrical power from generators. The decentralized power must:

(a) Ensure a stable power supply for small sub-units such as observation posts and small troop camps for the company, platoon or section level;

<sup>15</sup> Ibid., para. 81.

<sup>16</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 67 (c).

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(b) Provide redundant emergency backup when the main power supply, provided through larger generators, is interrupted;

(c) Provide all necessary electrical harnesses, wiring, circuitry and lighting sets.

20. This is not the primary electrical power supply for larger units, which is covered under the major equipment rate.

21. The United Nations could provide this capability as a complete self-contained function, subject to the agreed overarching principles stated above.<sup>17</sup>

22. The use of renewable energy electrical generation equipment to provide electrical self-sustainment in lieu of all or part of it being provided by fuel-powered generators is encouraged and will be reimbursed at a wet lease reimbursement rate or treated as a special case, depending on the type of system, as detailed in chapter 8, annex A.<sup>18</sup>

**Minor engineering**

23. To receive the self-sustainment reimbursement rate for minor engineering, the unit must be able, within its accommodation areas, to:

- (a) Undertake non-field defensive minor construction;
- (b) Handle minor electrical repairs and replacement;
- (c) Undertake repairs to plumbing and water systems;
- (d) Conduct minor maintenance and other light repair work;
- (e) Provide all related workshop equipment, construction tools and supplies.

- The reimbursement rate for minor engineering does not include waste and sewage collection. Waste collection from a centralized location for each unit is a United Nations responsibility.

24. Appendix 2 to the present annex provides an overview of tasks and responsibilities that fall under minor engineering and major engineering in various circumstances, including responsibilities of both the United Nations and the troop/police contributors regarding repair and maintenance of United Nations-owned equipment. Any variations or contingencies not covered in the guidance document would be dealt with on a case-by-case basis by the United Nations and the contributing country, with the reasonability clause being applied in such cases.<sup>19</sup>

**Explosive ordnance disposal**

25. To receive the self-sustainment reimbursement rate for explosive ordnance disposal, the unit must possess the capability, in accordance with the United Nations Peacekeeping Missions Military Explosive Ordnance Disposal Unit Manual, to dispose of explosive ordnance to secure the unit's accommodation area.<sup>20</sup> This unit must also have the capability:

- (a) To locate and evaluate unexploded ordnance;
- (b) To dismantle or destroy isolated ordnance that is considered a threat to the contingent's safety;

<sup>17</sup> Ibid., para. 67 (d).

<sup>18</sup> A/C.5/71/20, para. 57 (c).

<sup>19</sup> A/C.5/65/16, para. 124.

<sup>20</sup> A/C.5/52/39, para. 82 (a).

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(c) To provide all related minor equipment, personal protective clothing and consumables.

- To be eligible for the self-sustainment reimbursement for explosive ordnance disposal, the unit must also be self-sustained for observation and identification. Ammunition used for the disposal of unexploded explosive ordnance under self-sustainment is included in consumables and is not reimbursable separately.

26. Self-sustainment with regard to explosive ordnance disposal is reimbursable only when the United Nations has established an operational requirement and specifically requested that the service be provided. The requirement for this support will not exist in all missions and should be determined on a case-by-case basis.

27. Demining and explosive ordnance disposal equipment should perform in compliance with the relevant standards described in the United Nations Peacekeeping Missions Military Explosive Ordnance Disposal Unit Manual, the United Nations Improvised Explosive Device Disposal Standards, the United Nations Peacekeeping Missions Military Engineer Unit Manual and the International Mine Action Standards.<sup>21</sup>

28. When a troop/police contributor providing force-level engineering support is tasked with providing sustainment support with regard to the disposal of explosive ordnance to the accommodation areas of another troop/police contributor, the unit providing the support will receive self-sustainment reimbursement for the disposal of explosive ordnance for the population supported by the unit.<sup>22</sup>

29. Disposal of significant quantities of ordnance, for example, large-scale demolitions resulting from surrendered ammunition and minefields, will be handled by engineering units provided by the United Nations.

30. The requirement for self-sustainment with regard to explosive ordnance disposal should be reviewed 18 months after forces are deployed. If the review determines there is no longer a requirement for such self-sustainment, the troop/police contributor will continue to be reimbursed during the six-month period after the official communication to the unit is made. After this period, the self-sustainment capability with regard to the disposal of explosive ordnance will be repatriated at United Nations cost. During this six-month period, the troop/police contributor can negotiate an amendment to the memorandum of understanding.<sup>23</sup>

#### **Laundry**<sup>24</sup>

31. To receive the self-sustainment reimbursement rate for laundry, the unit must:

(a) Provide laundry services for all military/police and personal clothing services, including dry cleaning of operationally required specialist clothing (if any);

(b) Ensure that all laundry facilities have hygienic equipment that allows a clean and healthy environment to be maintained;

(c) Ensure that laundry facilities allow for sufficient privacy, taking into consideration layout, location and the use of the space provided for personnel;

(d) Provide all related equipment, maintenance and supplies.

- When a unit is geographically dispersed and the United Nations is able to provide laundry to only a portion of the unit, the troop/police contributor will

<sup>21</sup> A/C.5/65/16, para. 110, and A/74/689, para. 26.

<sup>22</sup> A/C.5/52/39, para. 82 (b).

<sup>23</sup> A/C.5/65/16, para. 126.

<sup>24</sup> Ibid., para. 128 (b) 26.

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receive the self-sustainment rate for laundry for those personnel not serviced by the United Nations.

**Cleaning**<sup>25</sup>

32. To receive the self-sustainment reimbursement rate for cleaning, the unit must:
- (a) Provide cleaning of facilities for all personnel of the unit;
  - (b) Ensure that all facilities have hygienic equipment that allows a clean and healthy environment to be maintained, i.e. cleaning of accommodations and office areas;
  - (c) Provide all related equipment, maintenance and supplies.
- When a unit is geographically dispersed and the United Nations is able to provide cleaning services to only a portion of the unit, the troop/police contributor will receive the self-sustainment rate for cleaning for those personnel not serviced by the United Nations.

**Tentage**

33. To receive the self-sustainment reimbursement rate for tentage, the unit must have the ability to:
- (a) House personnel in tented accommodations. Tentage includes flooring and the ability to heat and cool, as appropriate;<sup>26</sup>
  - (b) Provide ablutions capability under tentage, in which case the ablution facilities will be reimbursed under major equipment;<sup>27</sup>
  - (c) Provide temporary offices/workspace in tentage.
- These requirements should be read in conjunction with the guidelines for troop-contributing countries.
34. The provision of accommodation by a unit shall be decided during the initial deployment discussions and planning for each individual unit. On a mission start-up, most units will be expected to deploy with tentage to accommodate their troops for at least six months. Depending on operational or administrative requirements, either the United Nations or a troop/police contributor may initiate discussions regarding the contributing country providing a specific unit with long-term accommodation. This may occur either on initial deployment or during the unit's deployment. The long-term accommodation provided by the contributing country will meet the minimum standards listed in paragraphs 39 through 47 below.
35. In general terms, for units initially deployed and accommodated in self-provided tentage, the United Nations shall aim to provide accommodation that meets the United Nations field mission accommodation standards listed in paragraph 40 of chapter 3, annex B, within six months after deployment. The style of accommodation provided by the United Nations will be decided based on mission operational needs (including mission time frames), deployment mobility needs, sustainability requirements, gender parity considerations, noting efforts to increase the number of women peacekeepers, mission administrative capabilities, local infrastructure capacity and logistics demands. The type of accommodation decided upon will range from high quality tensioned membrane facilities, to prefabricated buildings, to normally constructed facilities.<sup>28</sup>

<sup>25</sup> Ibid., para. 128 (b) 27.

<sup>26</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 67 (f) (iv).

<sup>27</sup> Ibid., para. 67 (f) (iii).

<sup>28</sup> A/C.5/71/20, para. 57 (c).

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36. The United Nations can provide this capability as a complete self-contained function, subject to the agreed overarching principles for the provision of self-sustainment categories.<sup>29</sup> When the United Nations notifies a troop/police contributor prior to a unit deploying that this capability is not required, the troop/police contributor will not receive reimbursement for this category. Units will initially receive tentage reimbursement for up to six months if not accommodated by the United Nations. If the United Nations confirms that the capability is required, the deploying unit will continue to decide whether to provide its own tentage capability and be reimbursed accordingly.<sup>30</sup> If a unit is accommodated in standard United Nations field mission accommodation but is required to retain a tentage capability for part of the unit in order to satisfy a mobility requirement, the quantity of tentage agreed upon may be reimbursed as major equipment following negotiations between the troop/police contributor and the United Nations.

- If not required, at the request of troop- and police-contributing countries, the tentage will be repatriated back to the troop- and police-contributing countries under United Nations arrangements, whenever logistically and financially feasible.

37. When the United Nations is unable to provide standard United Nations field mission accommodation for a unit after six months in tents, the troop/police contributor will be entitled to receive reimbursement at both the tentage and the accommodation self-sustainment rates. This combined rate will continue until personnel are housed to the standard specified in paragraph 40 of chapter 3, annex B.<sup>31</sup> The Secretariat may request a temporary waiver of the application of this dual payment principle for short-duration missions for which the provision of standard United Nations field mission accommodation is demonstrably and clearly impractical and not cost effective.<sup>32</sup>

- During the quarterly contingent-owned equipment inspections, a joint team of the United Nations contingent-owned equipment unit and representatives of the troop/police contributor will carry out an inspection of the United Nations field mission accommodation and ablution units. They will declare the accommodation as not meeting the standards set out in the COE Manual if they are not compliant with the standard specified in paragraph 40 of chapter 3, annex B, of the COE Manual. If the accommodation and ablution units provided by the United Nations are assessed as not meeting United Nations standards, they will be repaired or replaced by the United Nations in accordance with the deltas identified within the contingent-owned equipment inspection reports.

38. An environmental enhancement supplement of an additional 5 per cent of the reimbursement rate to the troop/police contributor will be added if the provided tentage is shown to have additional features included which are designed to improve the heating and cooling effectiveness and efficiency of the facility in accordance with the standards defined in paragraphs 20 and 23 of chapter 3, annex A.<sup>33</sup>

### Accommodation

39. Accommodation types shall be defined by the minimum standards and characteristics listed below.

<sup>29</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), para. 67 (f) (ii).

<sup>30</sup> *Ibid.*, para. 67 (f) (i).

<sup>31</sup> [A/C.5/52/39](#), para. 84.

<sup>32</sup> *Ibid.*, para. 85.

<sup>33</sup> [A/C.5/71/20](#), para. 57 (c).

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40. Standard United Nations field mission accommodation is defined as a facility in which:

(a) The structural framework is composed of a truss system or wood, structural steel, reinforced concrete, structural masonry or similarly rigid material under proper design;

(b) The structural framework is interconnected with a tensioned membrane or a solid exterior wall and roofing system for a weathertight enclosure;

(c) The facility is erected upon a properly designed substructure system with an adequate foundation, taking into account in situ soil conditions and the facility's dead loads, live loads (including the occupants), wind, snow and seismic factors, and is secured appropriately to the ground against horizontal and vertical loads, taking into account the environmental conditions within the mission's area of responsibility;

(d) The exterior enclosure has adequate insulation, interior liner and/or adequate wall thickness designed to reduce heating and cooling requirements with minimum R values, as defined by the Director of the Logistics Division of the Department of Operational Support;

(e) The facility includes an integrated flooring system above ground level or a constructed slab on grade designed to carry the live and dead loads of the occupants;

(f) The facility has adequate doors and windows, all of which can be secured and covered with insect screens, with the total area of openings being not less than 5 per cent of the total wall area of the facility to enable adequate ventilation, including cross-ventilation, for the occupants;

(g) The facility should be capable of meeting the fire protection and suppression standards of the United Nations, in addition to the firefighting requirements for contributing countries in accordance with the COE Manual;

(h) Accommodation services should include:

(i) Adequate power and lighting systems for the intended occupancy;

(ii) A heating, ventilation, and air-conditioning system for the intended occupancy, taking into account the environmental conditions within the mission's area of responsibility. Generally, air-conditioning is to be provided when the seasonal maximum ambient outdoor shade temperature of the location exceeds 86 degrees Fahrenheit or 30 degrees Celsius for periods exceeding 30 days in a year and heating is to be provided when the minimum ambient outdoor temperature is 0 degrees Celsius or 32 degrees Fahrenheit or below for periods exceeding 30 days in a year.

41. To receive the self-sustainment reimbursement rate for accommodation, the troop/police contributor must:

(a) Purchase or construct facilities to accommodate the unit's personnel. These facilities shall comply at a minimum with the requirements of standard United Nations field mission accommodation as defined in paragraph 40 of chapter 3, annex B. The rate is based on a standard of 9 square metres per person; where ablution facilities are provided or are being reimbursed separately, the rate is based on a scale of accommodation of 8 square metres per person;<sup>34</sup>

(b) Provide furniture for eating facilities where necessary;<sup>35</sup>

<sup>34</sup> Ibid.

<sup>35</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 67 (g).

## Chapter 3, annex B

(c) Provide offices/workspaces in facilities as defined in paragraph 40 of chapter 3, annex B, as applicable;<sup>36</sup>

(d) The scale of ablution facilities provided is to be in accordance with the scales adopted by the United Nations for the deployment of officers and troops in missions. The ablution facilities should complement the type of accommodation facility being employed and meet the requirements of long-term facilities as defined in paragraph 40 of chapter 3, annex B, have hot and cold running water for the showers and basins in accordance with the water scale defined by the mission or by the United Nations, have adequate plumbing fixtures and fittings to maintain standards of hygiene, including proper disposal of menstrual products, and have an appropriate and environmentally friendly drainage system that meets field mission wastewater standards. The ablution facilities provided are to account for adequate gender separation and privacy for personnel;

(e) To ensure proper crew rest and the safe conduct of flights, either the United Nations or the troop-contributing country (as agreed) should make every effort to provide aircrews of aviation units with the following accommodations: pilots (as stipulated in the letter of assist) to be accommodated in standard single rooms; and aircrew (e.g. air gunners, engineers, masters) to be accommodated in two-person rooms.<sup>37</sup>

- These requirements should be read in conjunction with the guidelines for troop-contributing countries.

42. When the United Nations provides accommodation to an equivalent standard, the troop/police contributor does not receive reimbursement for this category.

43. Warehouses and equipment storage are not included in the self-sustainment reimbursement rate for accommodation. These will be handled either through the facilities reimbursed as major equipment or on a bilateral special-case basis between the troop/police contributor and the United Nations.

44. An environmental enhancement supplement of an additional 5 per cent of the agreed reimbursement to troop/police contributors will be added if the provided accommodation, including warehouses and equipment storage, is shown to have additional features included that are designed to improve the heating and cooling effectiveness and efficiency of the facility in accordance with the standards defined in paragraph 40 of chapter 3, annex B, and in paragraph 45 below.

45. Environmental enhancements to accommodation are considered to be additions to the aforementioned accommodation standards that have the effect of reducing energy use and thus decreasing generator fuel usage and greenhouse gas emissions. Enhancements include all or some of the following:

- (a) Double roofing and wall shading;
- (b) Additional thermal insulation for walls, roofs, floors and doors, as applicable;
- (c) Air conditioner and heating systems with appropriate sizing and energy efficiency ratios.

46. Accommodation rates include all minor equipment and consumables associated with the primary function of the facility.

<sup>36</sup> A/C.5/62/26, para. 85.

<sup>37</sup> A/C.5/65/16, para. 122 (a).

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47. When the United Nations is unable to provide accommodation to an equivalent standard and the unit rents a suitable structure, the troop/police contributor will be reimbursed the actual rental cost under a bilateral special case arrangement between the troop/police contributor and the United Nations.

**Basic firefighting capability**<sup>38</sup>

48. To receive the self-sustainment rate for basic firefighting capability, the unit must:

- (a) Provide sufficient basic firefighting equipment, i.e. buckets, beaters and fire extinguishers, in accordance with the International Fire Code, as amended;
- (b) Provide all necessary minor equipment and consumables.

**Fire detection and alarm capability**

49. To receive the self-sustainment rate for fire detection and alarm capability, the unit must:

- (a) Provide sufficient fire detection and alarm capability equipment, i.e. smoke detectors and fire alarm systems, in accordance with the International Fire Code, as amended;
- (b) Provide all necessary minor equipment and consumables.

**Observation**

50. To receive the self-sustainment rate for observation, the unit must be able to carry out observations throughout its area of operation. The standards for each of the three subcategories are as follows:

(a) **General observation:** Provide handheld binoculars for general observation use;

(b) **Night observation:**

- (i) Provide the capability for passive or active infrared, thermal or image intensification night-time line-of-sight visual observation;
- (ii) Be capable of detecting, identifying and categorizing persons or items within a range of 300 metres or more;
- (iii) Be able to conduct night-time patrols and intercept missions;

- The United Nations can provide the night observation capability as a complete self-contained function, subject to the agreed overarching principles stated above.<sup>39</sup>

(c) **Positioning:** Be able to determine the exact geographical location of a person or item within the area of operations through the combined use of global positioning systems and laser rangefinders.

- The reimbursement for the observation category is based on meeting the operational requirements.

51. The unit must provide all related equipment, maintenance and supplies. Night observation and positioning rates will be reimbursed only when requested by the United Nations.<sup>40</sup>

<sup>38</sup> A/C.5/62/26, para. 105.

<sup>39</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 67 (h).

<sup>40</sup> A/C.5/49/70, annex, appendix II.A, para. 30.

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**Identification**

52. To receive the self-sustainment rate for identification, the unit must be able to:
- (a) Conduct surveillance operations with photographic equipment, such as videotape and single lens reflex cameras;
  - (b) Process and edit the obtained visual information;
  - (c) Provide all related equipment, maintenance and supplies.
- When the United Nations provides this service to equivalent standards, the unit does not receive reimbursement for this category.

**Nuclear, biological and chemical protection**

53. To receive the self-sustainment rate for nuclear, biological and chemical protection, the unit must be able to operate fully protected in any nuclear, biological or chemical threat environment. This includes the ability to:<sup>41</sup>
- (a) Detect and identify nuclear, biological and chemical agents with appropriate detection equipment at the unit level;
  - (b) Conduct initial decontamination operations for all personnel and personal equipment in a nuclear, biological or chemical threat environment;
  - (c) Provide all personnel with the necessary nuclear, biological or chemical protection clothing and equipment (e.g. protective mask, coveralls, gloves, personal decontamination kits and injectors);
  - (d) Provide all related equipment, maintenance and supplies. Nuclear, biological and chemical protection will be reimbursed only when requested by the United Nations.<sup>42</sup>

**Field defence stores**

54. To receive the field defence stores self-sustainment reimbursement rate, the unit must:
- (a) Secure its own base camps with adequate field defence facilities (e.g. barbed-wire fences, sandbags and other field defence obstacles);
  - (b) Establish early warning and detection systems to protect contingent premises;<sup>43</sup>
  - (c) Prepare self-defence fortification works (e.g. small shelters, trenches and observation posts) that have not been tasked to specialized engineering contingents;
  - (d) Provide all related equipment, maintenance and supplies.
55. The United Nations can provide this capability as a complete self-contained function, subject to the agreed overarching principles stated above.<sup>44</sup> A guide to the stores required for providing a suitable level of field defence for a contingent of 850 personnel can be found in appendix 1 to the present annex.

<sup>41</sup> [A/C.5/52/39](#), para. 88.

<sup>42</sup> [A/C.5/49/70](#), annex, appendix II.A, para. 34.

<sup>43</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), para. 67 (i) (i).

<sup>44</sup> *Ibid.*, para. 67 (i) (ii).

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**Chapter 3, annex B****Miscellaneous general stores**

56. To receive the self-sustainment reimbursement rate for each of the three subcategories of miscellaneous general stores, a unit must provide:

(a) **Bedding:** Bed linen, blankets, mattress covers, pillows and towels. Sleeping bags may be an acceptable substitute for bed linen and blankets. Sufficient quantities must be provided to allow for rotation and cleaning;

(b) **Furniture:** Bed, mattress, nightstand, table light and locker for each person, or other appropriate furniture to provide an adequate living space;

(c) **Welfare:**<sup>45</sup> Appropriate levels of equipment and amenities across the welfare spectrum for both men and women, to include entertainment, fitness, sports, games and communications, must be provided in quantities appropriate to the number of personnel at their respective locations in the mission area, and equal access to amenities for both men and women is to be provided. Verification as to whether appropriate standards have been provided will be based on the welfare arrangements agreed between the troop/police contributors and the United Nations, detailed in annex C, appendix 2, of the memorandum of understanding;

(d) **Internet access:**<sup>46</sup> Appropriate levels of Internet access in the field mission:

(i) Verification as to whether appropriate Internet access has been provided, as agreed between the troop/police contributors and the Secretariat, and as detailed in the memorandum of understanding in annex C, appendix 2;

(ii) Access to the Internet is to be established by the troop/police contributor and not linked to existing United Nations communications systems.

**Unique equipment**

57. Any special minor equipment or consumables not covered in the above self-sustainment rates will be treated as unique equipment. These items will be handled on a bilateral special case basis between the troop/police contributor and the United Nations.

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<sup>45</sup> A/C.5/62/26, para. 93 (c).

<sup>46</sup> Ibid., para. 93 (d).

## Chapter 3, annex B, appendix 1

## Appendix 1

### Guidelines for field defence stores for peacekeeping forces (infantry battalion)<sup>1</sup>

| Items  | Unit  | Quantity required |           | Remarks                         |
|--|-------|-------------------|-----------|---------------------------------|
|  |       | Company           | Battalion |                                 |
| Concertina wire  | Roll  | 266               | 1 600     | Triple standard concertina      |
| Ground locking pegs  | Each  | 1 596             | 9 600     | 6 pegs per concertina wire roll |
| Barbed wire  | Roll  | 30                | 180       |                                 |
| Binding wire (1.5 mm x 25 kg)                              | Roll  | 15                | 90        |                                 |
| Pickets  |       |                   |           |                                 |
| Angular iron pickets (long)                                | Each  | 800               | 4 800     | 6' (182 cm)                     |
| Angular iron pickets (medium)                              | Each  | 50                | 300       | 4' (121 cm)                     |
| Angular iron pickets (short)                               | Each  | 250               | 1 500     | 2' (61 cm)                      |
| Sandbags (40 x 70 cm)                                      | Each  | 5 000             | 30 000    |                                 |
| Gabions (1.5 x 0.5 x 0.5 m: 3 cells)                       | Each  | 50                | 300       | Hesco Bastion or FlexMac        |
| Corrugated galvanized iron sheets (0.7 mm x 0.9 m x 3.0 m) | Sheet | 100               | 600       |                                 |
| Polyethylene film (black)                                  | Roll  | 50                | 300       | 0.3 mm x 1.5 m x 30 m           |
| Nail   |       |                   |           |                                 |
| Nail 2" (5 cm)   | Kg    | 10                | 60        |                                 |
| Nail 4" (10 cm)  | Kg    | 10                | 60        |                                 |
| Nail 6" (15 cm)  | Kg    | 10                | 60        |                                 |
| Timber   |       |                   |           |                                 |
| Timber (2" x 4" x 12')                                     | Each  | 120               | 720       | Shelter/bunker, barricade, post |
| Timber (2" x 12" x 12')                                    | Each  | 30                | 180       |                                 |
| Timber (4" x 4" x 12')                                     | Each  | 80                | 480       |                                 |
| Plywood  |       |                   |           |                                 |
| Plywood (1/4" x 4' x 8')                                   | Sheet | 30                | 180       | Shelter/bunker, barricade, post |
| Plywood (5/8" x 4' x 8')                                   | Sheet | 30                | 180       |                                 |
| Plywood (3/4" x 4' x 8')                                   | Sheet | 50                | 300       |                                 |
| Tools  |       |                   |           |                                 |
| Wire-cutter  | Each  | 3                 | 18        |                                 |
| Gauntlets (gloves)   | Pair  | 12                | 72        |                                 |
| Axes   | Each  | 3                 | 18        |                                 |
| Sledgehammer   | Each  | 6                 | 36        |                                 |
| Power chain-saw  | Each  | 2                 | 12        |                                 |

<sup>1</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), para. 65 (n): “[annex] should be included as an appendix to the Contingent-Owned Equipment Manual to provide a simple guide to the minimum level of stores required to provide a suitable level of field defence”.

## Chapter 3, annex B, appendix 1

| <i>Items</i>                    | <i>Unit</i> | <i>Quantity required</i> |                  | <i>Remarks</i> |
|---------------------------------|-------------|--------------------------|------------------|----------------|
|                                 |             | <i>Company</i>           | <i>Battalion</i> |                |
| 20' ISO container (used)        | Each        | 2                        | 12               | Shelter/bunker |
| <b>Subtotal</b>                 |             |                          |                  |                |
| Sea freight cost at 15 per cent |             |                          |                  |                |
| <b>Grand total</b>              |             |                          |                  |                |

*Notes:**Assumptions:*

- (a) Infantry battalion: strength (850), 3 rifle companies, 1 mechanized company and headquarters and log company (United Nations Infantry Battalion Manual);
- (b) Operational concept: Base camp defence along perimeter with protective wires only.
- Triple standard concertina wires for perimeter defence
  - 1,000 metres perimeter per company
  - Total required length of protective wires: 1,000 m (perimeter) x 1.20 = 1,200 m
  - Additional requirements of tactical and supplementary wires: 300 m of double apron (4-2 pace)
  - Total requirements for battalion: 6 x company's requirements (5 companies + 1 for reserve stores)
- Packed in accordance with the infantry company's requirement in two-each 20-foot ISO containers. This standard requirement is assumed for an initial six-month period per battalion. Battalion reserve calculated for one infantry company.

## Appendix 2

### Guidance document on responsibilities under minor engineering<sup>1</sup>

#### General

1. Military and formed police units deployed to United Nations peacekeeping field missions are generally self-sustained with regard to minor engineering. Troop/police contributors are reimbursed if services provided are satisfactory according to the standards set out in the present manual. This arrangement is reflected in the memorandum of understanding between the United Nations and the Government contributing resources to the field mission.
2. While minor engineering work is the responsibility of each formed unit, major engineering work is the responsibility of the field mission. For this purpose, field missions make available United Nations assets, formed military engineering units and/or contractors.
3. To enhance consistency across field missions and formed units in the execution of minor engineering tasks, the present guidance provides examples of typical engineering tasks and clarifies who is generally responsible for performing them.

#### Implementation

4. Minor engineering is part of a formed unit's own logistical support and should be provided for all personnel up to or above the ceiling specified in the memorandum of understanding. To be eligible for reimbursement for minor engineering, a formed unit must provide all minor equipment, maintenance and consumables associated with this category and the work it requires.
5. Formed units normally deploy trained craftsmen, workshops and tools, spare parts and consumables to carry out minor engineering tasks. Occasionally, formed units will recruit national workers or contractors to conduct minor engineering tasks or augment their capabilities with regard to minor engineering under their own arrangements, and at their own liability and expense. Such arrangements are not in conflict with the guidance provided in the COE Manual.
6. Formed units that are self-sustained with regard to minor engineering are responsible for minor construction, repairs and replacement, as well as maintenance and supplies, in accordance with the generic performance standard above, and must be proactive in the area of minor engineering. A request for minor engineering work through the field mission will therefore be rejected as a general rule.
7. Likewise, field missions should not undertake minor engineering work with formed units self-sustained with regard to minor engineering unless it is clear that the formed unit does not have or has been temporarily deprived of the capability required to solve the task at hand. If that is the case, support should be provided by the field mission in accordance with overall priorities following coordination with the chief of the contingent-owned equipment unit on a cost-recovery basis agreed to by the commanding officer of the formed unit. In more extreme cases, support can be provided based on a declaration by the commanding officer that the formed unit is no longer self-sustained with regard to minor engineering. This will be reported as part of the regular reporting on the inspection of contingent-owned equipment for reimbursement purposes to United Nations Headquarters. The implication is that the

<sup>1</sup> A/C.5/65/16, annex 4.

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**Chapter 3, annex B, appendix 2**

troop/police contributor will not be reimbursed for minor engineering until its capacity to conduct minor engineering work has been restored.

8. This also applies to formed units occupying temporary camps. The purpose of minor engineering must be to allow for necessary services irrespective of circumstances to ensure reasonable living conditions for formed unit personnel at all times and to ensure that the formed unit is able to operate in a safe environment.

9. It should be noted that units that receive field mission support in minor engineering or fail to demonstrate that they are willing to carry out minor engineering tasks, or are capable of doing so, cannot be regarded as self-sustained with regard to minor engineering. Underperformance will be discussed in the field mission's contingent-owned equipment/memorandum of understanding management review board for suitable action.

**Guiding examples of tasks and responsibilities**

10. Tables 1–3 below provide examples of tasks and responsibilities related to minor engineering and major engineering in various fields:

(a) Table 1: Responsibilities related to minor engineering when the United Nations is responsible for field defence stores;

(b) Table 2: Responsibilities related to minor engineering during development and maintenance of the camp area;

(c) Table 3: Responsibilities related to minor engineering when the United Nations provides accommodation.

Table 1

**Responsibilities related to minor engineering when the United Nations is responsible for field defence stores**

| <i>Field defence stores</i>   | <i>Field mission</i>   | <i>Minor engineering by formed unit</i>  |
|-------------------------------|--|--|
| <b>Construction</b>           | <ul style="list-style-type: none"> <li>▪ Erect adequate perimeter walls and/or barbed wire fences with access (boom gates, metal gates or other gates), perimeter lighting and other early warning systems in accordance with security assessment</li> <li>▪ Provide lights inside the camp</li> <li>▪ Construct observation platforms and self-defence fortification works, e.g. small shelters and trenches and bastions</li> <li>▪ Erect adequate barricades and, if required due to limited distances available to other infrastructure, overhead protection to limit and reduce explosive effects for ammunition stores in accordance with the required temporary/quantity distances</li> <li>▪ Painting and United Nations markings on external surfaces</li> <li>▪ Construct dams, ditches, canals, drainage or similar permanent structures if required in accordance with security assessment</li> <li>▪ Removal of vegetation</li> </ul> | <ul style="list-style-type: none"> <li>▪ Provide a self-fortification plan</li> <li>▪ Connect perimeter lights and other early warning systems and lights with main contingent-owned equipment generators</li> <li>▪ Provide a barricade/protection plan for the ammunition storage area with temporary/quantity distances, based on the amount and type of ammunition to be stored</li> </ul> |
| <b>Maintenance and repair</b> | <ul style="list-style-type: none"> <li>▪ Conduct structural and major repairs, e.g. major repairs to fences, walls and platforms, and replacement of perimeter lights in the event of damage</li> <li>▪ Major paintwork</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Conduct inspection and daily repairs of perimeter wall/fence, lights, observation platforms and fortification works, e.g. patching of small holes in fence, necessary electrical and carpentry work and minor paintwork in accordance with building maintenance standard</li> </ul>   |
| <b>Consumables/supplies</b>   | <ul style="list-style-type: none"> <li>▪ Provide all related minor equipment and consumables for construction, maintenance and repair, e.g. concertina wire, barbed wire, corrugated galvanized iron sheets, pickets, nails, ground locking pegs, light bulbs, paint and sandbags</li> </ul>   | <ul style="list-style-type: none"> <li>▪ None. Consumables are a United Nations responsibility</li> </ul>  |
| <b>Tools and personnel</b>    | <ul style="list-style-type: none"> <li>▪ Provide all tools and personnel for construction, major repairs and maintenance work</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Provide guidance with respect to fortification plan</li> <li>▪ Provide all personnel and tools for daily inspection and minor repairs</li> </ul>  |

Table 2  
**Responsibilities related to minor engineering during development and maintenance of the camp area**

| <i>Camp area</i>    | <i>Field mission</i>  | <i>Minor engineering by formed unit</i>   |
|---------------------|---|---|
| <b>Construction</b> | <ul style="list-style-type: none"> <li>▪ Removal of major vegetation, ground levelling, ground stabilization (gravel, hardstand, compacting)</li> <li>▪ Ground work for tentage<sup>a</sup></li> <li>▪ Drainage (installation or construction of collection pools, soak pits or outlets; installation of underground drains)</li> <li>▪ Grading of surface</li> <li>▪ Provision of water source (well, river, lake, external supply) and storage if no contingent-owned equipment storage is available in accordance with memorandum of understanding</li> <li>▪ Installation of United Nations-owned equipment, i.e. generators, water and waste treatment plants, fuel storage, computers, and telephone and communication lines</li> <li>▪ Provision of technical guidance for installation of United Nations-owned equipment</li> </ul> | <ul style="list-style-type: none"> <li>▪ Construct concrete platforms with berms, slabs and sheds for generators (contingent-owned equipment and equipment owned by the United Nations), vehicle wash areas, gymnasium, etc., with the purpose of preventing petroleum pollution in and around United Nations camps.</li> <li>▪ Installation of contingent-owned equipment fuel storage (including used oil storage) through the necessary construction of concrete platforms with berms with the purpose of preventing petroleum pollution in and around United Nations camps.</li> <li>▪ Installation of contingent-owned equipment generators and power connection/distribution to accommodation area, office and workshops, kitchens, perimeter lights, water treatment plants, medical facility, etc.</li> <li>▪ Installation of contingent-owned equipment water treatment plants with storage and internal distribution to end users (ablution facilities, kitchen, laundry facility, hospital and work areas, dining and accommodation, etc.)</li> <li>▪ Connect contingent-owned equipment field ablution facilities to United Nations-provided sewage facility</li> <li>▪ Construction of guard posts, shades, garbage collection points and centralized safe storage;</li> <li>▪ Construction of shades for ammunition containers, and installation and earthing of ammunition containers in the provided barricade structure</li> </ul> |

| Camp area                     | Field mission  | Minor engineering by formed unit  |
|-------------------------------|--|---|
| <b>Maintenance and repair</b> | <ul style="list-style-type: none"> <li>▪ Conduct structural and major repairs to groundwork, drainage and water supply</li> <li>▪ Collection of garbage and hazardous waste from centralized formed unit location</li> <li>▪ United Nations-owned generators, water and waste treatment plants</li> </ul>                  | <ul style="list-style-type: none"> <li>▪ Removal of minor vegetation, landscaping within own camp area (lawn, flowers, lamps) and dust stabilization</li> <li>▪ Construction of signs and minor paintwork</li> <li>▪ Other minor construction work such as outdoor sports facilities, weights for gymnasium, car ramps, flag poles with platforms, vehicle wash points and barbeque area</li> <li>▪ Removal of minor vegetation (small bushes, grass, etc.)</li> <li>▪ Daily inspection and maintenance of all drainage, water supply and groundwork</li> </ul> |
| <b>Consumables/supplies</b>   | <ul style="list-style-type: none"> <li>▪ Gravel and sand for ground repairs following erosion and other repair requirements</li> <li>▪ Minor equipment and consumables for structural and major repairs to drainage installations</li> <li>▪ United Nations-owned equipment that is used to support formed unit</li> </ul> | <ul style="list-style-type: none"> <li>▪ Provide all related minor equipment and consumables for minor construction work, maintenance and repairs (cement, gravel, sand, nails, screws, fittings, fertilizers, liquids, electrical wires, fuses, light bulbs, pipes and hoses, filters, etc.)</li> <li>▪ Consumables for the formed unit’s minor engineering work may under exceptional circumstances be issued (as the situation allows) by the field mission against cost recovery</li> </ul>   |
| <b>Tools and personnel</b>    | <ul style="list-style-type: none"> <li>▪ Provide all personnel and tools for major construction work and structural and major repairs</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Trained personnel (carpenters, plumbers, electricians) and all relevant tools</li> </ul>   |

<sup>a</sup> Concrete pads for tents are not a mandatory requirement. What is required is adequate protection against flooding and access, among other things. This could be provided by building up earth mounds and providing drainage ditches and protective bunds, among other things. In some circumstances, concrete pads may be the most cost effective and may be the only solution. In either case, the United Nations is responsible for the provision of the site, protected as above, as this scale of task is considered beyond the integral capability of most units and is not covered under the self-sustainment categories mentioned. For engineering units that do have the capacity for the work, they could be expected to prepare their own sites, as well as sites for other formed units, for tentage, with required material supplied by the United Nations.

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Table 3  
**Responsibilities related to minor engineering when the United Nations provides accommodation<sup>a</sup>**

| <i>Accommodation</i>                      | <i>Field mission</i>  | <i>Minor engineering by formed unit</i>   |
|---|---|---|
| <b>Construction</b>                       | <ul style="list-style-type: none"> <li>▪ Foundation work and erection and assembly of accommodation units, office and workspace, and ablution facilities</li> <li>▪ Construction/reconstruction/refurbishment to United Nations standard of living space and office/workspace, including kitchen and laundry facilities</li> <li>▪ Installation of floor/wall/roof panels, doors, windows, footings, netting, heating/cooling</li> <li>▪ Installation of building utilities (electrical wiring and fixtures, water supply and wastewater removal)</li> <li>▪ Internal and external painting of United Nations-provided accommodation and workspace, as well as United Nations markings, as necessary</li> </ul> | <ul style="list-style-type: none"> <li>▪ Provide an accommodation plan which allows for effective use of United Nations-provided accommodation while ensuring satisfactory living conditions of formed unit personnel</li> </ul>  |
| <b>Maintenance and repair<sup>b</sup></b> | <ul style="list-style-type: none"> <li>▪ Repair and replacement of building elements (floor, walls, roof panels, doors, windows, footings)</li> <li>▪ Major repair work to building utilities (installation of electrical wiring and fixtures, water supply and wastewater removal)</li> <li>▪ Major paintwork</li> <li>▪ Preventive maintenance: periodic inspection (minimum of twice a year or in cases where the verification report states that the accommodation does not meet the required standard) and allocation of responsibilities and resources for renovation accordingly</li> <li>▪ Minor paintwork and repairs to painted surfaces</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Handle minor electrical repairs and replacement, including of electrical fixtures</li> <li>▪ Undertake minor repairs to plumbing and water systems, including toilets and showers</li> <li>▪ Conduct minor maintenance and other light repair work, including fastening of loose fixtures (door handles, window brackets, hinges)</li> <li>▪ Cleaning:<sup>c</sup> Daily sweeping and washing of floors, wash basins, showers, water closets and urinals; washing of walls, window cleaning, and removal of limestone in toilets, showers, faucets and shower heads, etc.</li> <li>▪ Cleaning: daily cleaning of drains, plumbing installations and fixtures, and electrical installations and fixtures, including surface wiring</li> </ul> |
| <b>Consumables/supplies</b>               | <ul style="list-style-type: none"> <li>▪ Provide all spare parts and consumables related to maintenance and repairs, except cleaning materials</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Provide cleaning materials</li> </ul>  |

| <i>Accommodation</i>       | <i>Field mission</i>   | <i>Minor engineering by formed unit</i>   |
|----------------------------|--|---|
| <b>Tools and personnel</b> | <ul style="list-style-type: none"> <li>▪ Provide all personnel and tools for construction and assembly work, installation and major repairs</li> <li>▪ Provide all personnel and tools for periodic inspection and preventive maintenance</li> </ul> | <ul style="list-style-type: none"> <li>▪ Provide all personnel and tools for minor repair</li> <li>▪ Provide all related workshop equipment and construction tools</li> </ul> |
| <b>Other</b>               | <ul style="list-style-type: none"> <li>▪ Provide furniture for eating facilities, where necessary</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Maintain furniture</li> </ul>  |

<sup>a</sup> It should be noted that, in order to minimize the risk of fire, there can be **no use** of additional electrical appliances, no open fires, no cookers, no coffeemakers, no gas cookers and no smoking in United Nations-provided accommodation.

<sup>b</sup> In cases in which the United Nations is unable to carry out repairs and maintenance or provide special spare parts, a troop/police contributor, with the prior agreement of the United Nations as to the scope of work required, may carry out the required repairs and maintenance using spare parts provided by the United Nations or purchased by the troop/police contributor itself. A troop/police contributor shall be entitled to reimbursement of the actual and reasonable costs of carrying out the repairs and maintenance upon presentation of supporting documentation and a claim (A/C.5/68/22, para. 114).

<sup>c</sup> These standards also apply to the self-sustainment category of cleaning.

**Annex C****Principles of verification and performance standards for medical support<sup>1</sup>****Principles of verification**

1. Only medical equipment provided in accordance with United Nations standards and authorized in the memorandum of understanding will be reimbursed.<sup>2</sup> Units must have sufficient medical equipment as stipulated in the United Nations standards for level 1, level 2 and level 3 medical services in order to provide the respective outpatient and inpatient care, basic and advanced diagnostic services, basic and advanced life-saving, basic and advanced surgical capacities and capabilities, and sufficient resupply capabilities, as well as casualty evacuation/medical evacuation capabilities and capacities in the mission area in accordance with the memorandum of understanding. Requested medical equipment must be provided and maintained in a fully operational condition, maintaining an aseptic and sterile environment in accordance with World Health Organization (WHO) requirements in order to ensure uninterrupted medical support and an adequate standard for medical services, including evacuation capabilities.<sup>3</sup>

2. In implementing the following principles and standards, the following definitions are used:

(a) Medical equipment: Accountable major equipment (see footnotes to the appendices to the present annex) for the provision of medical support in United Nations medical facilities;

(b) Drugs: Drugs produced according to WHO standards and consumed in the provision of medical support in United Nations medical facilities;

(c) Medical supplies: Expendable supplies and minor equipment consumed in the provision of medical support in United Nations medical facilities;

(d) Medical self-sustainment: The supply and resupply of drugs and medical supplies for the provision of medical support in United Nations medical facilities;

(e) High-risk mission: A mission with a high incidence of endemic infectious diseases for which no vaccinations exist. All other missions are considered “normal-risk missions”.<sup>4</sup> This definition is for use in determining eligibility for reimbursement of the self-sustainment rate for “high-risk areas (epidemiological)”;

(f) For the purpose of establishing eligibility for medical care through United Nations mission medical facilities, the following personnel are considered part of a United Nations mission:<sup>5</sup>

(i) United Nations formed military and formed police units;

(ii) United Nations military and police personnel that are not members of formed units and other government-provided personnel;

(iii) United Nations international civilian staff;

<sup>1</sup> A/C.5/71/20, para. 75 (c).

<sup>2</sup> A/C.5/54/49, annex VIII, sect. II.B, “Chapter 3, annex A, paragraph 13”; and annex VIII, appendices I and II; and A/C.5/55/39 and A/C.5/55/39/Corr.1, annex III.B.

<sup>3</sup> A/C.5/54/49, annex VIII, sect. II.B, “Chapter 3, annex A, paragraph 14”.

<sup>4</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 95.

<sup>5</sup> Ibid., para. 97.

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- (iv) United Nations Volunteers;
- (v) Locally employed United Nations staff, where applicable.

3. All medical facilities are considered “force assets” and thus are available to all members of a United Nations mission.<sup>6</sup> Medical facilities may be United Nations-owned, contingent-owned or commercially contracted.

4. Level 1 and level 2 medical facilities can be augmented with modules to enhance their capabilities, at which point they are referred to as level 1+ and level 2+ facilities, respectively. The requirements and standards for modules are presented in appendices 5 through 11 to the present annex.

5. The costing of each medical facility or module, and therefore the related reimbursement rates, is based on the generic fair market value of each piece of medical equipment required by the module.<sup>7</sup> The lists of equipment per module include all medical equipment required for the separate levels. Non-medical equipment required to meet the medical standards (e.g. generators above 20 kVA, ambulances, water treatment plants and sanitation equipment) are listed separately for the purpose of reimbursement. The revised medical equipment requirements for each medical facility and module are shown in the appendices to the present annex.<sup>8</sup>

6. Medical modules deployed independently will be reimbursed as separate entities under major equipment.

7. In preparing the verification reports for medical facilities, quality, capacity and capability, as defined in the standards, are the overriding considerations.<sup>9</sup> Therefore, an expert medical opinion concerning the operational impact of any shortfall, discrepancy or corrective action or substitution undertaken will be required before deduction may be made to the reimbursement.

### Performance standards

8. When troop/police contributors are deployed on United Nations peacekeeping operations and they provide standard United Nations field mission accommodation for level 2 and/or level 3 medical facilities, these items are reimbursed separately as major equipment. (See chapter 8, annex A, Accommodation equipment, Camp unit (medium and large for levels 2 and 3 medical facilities, respectively)).<sup>10</sup> Ablution units will be reimbursed separately as major equipment.<sup>11</sup>

9. Medical support and security are essential at all times; therefore, a troop/police contributor cannot be partially self-sustaining in the medical self-sustainment subcategories. Level 1 medical care is a troop/police contributor responsibility; however, each level 1 facility is to provide medical support and care to all United Nations personnel permanently or temporarily in its area of responsibility.<sup>12</sup> As a matter of principle, this occasional level 1 care should be provided in an emergency with no fee. A troop/police contributor may, however, choose to seek reimbursement for services rendered, and therefore there is a requirement to document and register emergency services provided.<sup>13</sup> All United Nations medical facilities are responsible

<sup>6</sup> Ibid., para. 96.

<sup>7</sup> A/C.5/65/16, paras. 138 and 144.

<sup>8</sup> Ibid., paras. 143, 144 and 147–152.

<sup>9</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 98 (a).

<sup>10</sup> A/C.5/62/26, para. 115 (a).

<sup>11</sup> A/C.5/71/20, para. 57 (c).

<sup>12</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, annex III.B, annex B, para. 1.

<sup>13</sup> Ibid., para. 103.

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for emergency medical services for all United Nations personnel in their area of responsibility. Except in emergencies, specialists and level 2 and 3 facilities can request a referral from a level 1 facility before accepting a patient.<sup>14</sup> Efforts should be made to ensure streamlined access to essential medicines to address the specific health needs of women peacekeepers.

10. Medical support facilities are often called upon by the mission headquarters to provide care to United Nations and other authorized personnel for whom they are not receiving reimbursement under self-sustainment. In these circumstances, the medical facility is entitled to seek reimbursement for the associated costs by applying a fee-for-service model for the medical care provided. The agreed procedures and fee-for-service rates are listed in appendix 16 to the present annex. Care provided to non-eligible personnel (e.g. the local civilian population) by a troop/police contributor is not reimbursable by the United Nations.

11. A troop/police contributor that cannot provide all medical capabilities according to the standards listed in the present annex must advise the Secretariat during the negotiation of the memorandum of understanding, and in all cases prior to deployment.

12. A contingent commander must inform the mission immediately if a troop/police contributor, while deployed, finds that it cannot adequately supply medical equipment, drugs or consumables under self-sustainment. If the troop/police contributor cannot find another contributor to offer resupply on a bilateral basis, the United Nations must take over the resupply of drugs, consumables and medical supplies permanently. The responsibility to provide medical personnel and medical services remains with the troop/police contributor. Medical self-sustainment will not be reimbursed from the day the troop/police contributor cannot provide full self-sustainment resupply.<sup>15</sup>

13. To ensure that all personnel receive the medical care to which they are entitled and to ensure that there is an effective and equitable system for reimbursement for medical self-sustainment, all uniformed personnel, police and military, shall be assigned to medical facilities that are responsible for their medical care. The assignment can be as part of a unit (for formed units) or on an individual basis (United Nations police, military observers and Headquarters staff). Each individual shall be assigned to a level 1, level 2 and/or a level 3 facility, where applicable.

14. It is the responsibility of the Chief Medical Officer/Force Medical Officer to ensure that all personnel are informed upon entry into the mission as to the medical facilities responsible for their care, and to ensure that all medical facilities are notified as to who is assigned to the facility. The same information or notification must be given whenever individuals and units move from the area of responsibility of one facility to that of another.

15. All United Nations civilian staff shall be assigned to medical facilities in the same manner as uniformed personnel; however, this will not create eligibility for reimbursement under self-sustainment unless this is explicitly stated in the memorandum of understanding. Alternatively, a fee-for-service model might apply.

16. All United Nations medical facilities must be equipped and staffed to receive and treat all United Nations personnel, preserving the dignity and individuality of all patients.

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<sup>14</sup> Ibid., annex III.B, annex B, para. 34.

<sup>15</sup> Ibid., para. 4.

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17. The reimbursement for self-sustainment medical services, including medical-related minor equipment, tools, supplies and consumables, will be made at the rate of self-sustainment for the level of service provided and be calculated on the actual personnel strength of the units/contingents for which a medical facility is responsible up to the level agreed in the memorandum of understanding.<sup>16</sup>

18. If a troop/police contributor provides medical services to United Nations standards, which includes services of more than one level, these levels shall be accumulated accordingly.<sup>17</sup> When a level 3 medical facility covers an area where there is no medical facility providing level 2 medical services, however, the level 2 and level 3 self-sustainment rates are not accumulated. The level 2 and 3 combined self-sustainment rate is to be used and the calculation of the reimbursement is to be based on the actual personnel strength of those contingents assigned to the level 3 medical facility for level 2 and 3 medical care.<sup>18</sup>

- In the event that medical services cannot be provided due to unforeseen logistical challenges beyond the control of the troop/police contributor as a result of rules and policies of the host country preventing self-sustainment of medical supplies, the reimbursement for lost or damaged medical material will be made at cost. It is the responsibility of the United Nations to determine the extent of such circumstances in whole or in part, in consultation with the troop/police contributor.

19. To be eligible for reimbursement at the medical self-sustainment rate, the medical facility must provide medical self-sustainment, including all related staff, equipment, drugs and supplies (including those required for epidemiological high-risk areas), for the categories of basic, level 1, level 2, level 3, storage for blood and blood products, and high-risk areas, as agreed in the memorandum of understanding. The level of equipment must meet United Nations standards as specified in the present annex and the Medical Support Manual for United Nations Field Missions for a medical facility and indicated in the memorandum of understanding. Drugs and consumables must meet WHO standards.<sup>19</sup>

- Technical clearance of all medical personnel is a core requirement for any troop/police contributor medical facility deployed to field missions. All required documents for such technical clearance must be submitted by the troop/police contributor ahead of the planned deployment or rotation to the United Nations for verification in accordance with the procedures and timelines outlined in the most recent edition of the United Nations Medical Support Manual. Failure to fulfil the technical clearance criteria renders the medical support non-operational and ineligible for reimbursement.

20. A summary of the United Nations standards for each level of medical service with respect to self-sustainment rates is shown below. Detailed information regarding equipment requirements for medical support are contained in the appendices to the present annex.<sup>20</sup> Additional information on the immunization policy, malaria prophylaxis, vector control, HIV/AIDS and sexually transmitted diseases is included in appendix 17 to the present annex.<sup>21</sup> Information on levels of medical support in the

<sup>16</sup> [A/C.5/54/49](#), annex VIII, sect. II.B, “Chapter 3, Annex A, paragraph 13”.

<sup>17</sup> *Ibid.*, remark to sect. II.B.1.

<sup>18</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), annex III.B, para. 106.

<sup>19</sup> [A/C.5/54/49](#), annex VIII, sect. II.B, “Chapter 3, annex A, paragraph 14”; and [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), annex III.B, annex B, para. 36.

<sup>20</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), annex III.A; and [A/C.5/65/16](#), paras. 151 and 152 and annexes 7.4–7.9.

<sup>21</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), annex III.C.

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field are spelled out in chapter 4 of the United Nations Medical Support Manual, and the minimum professional qualifications for medical personnel are spelled out in chapter 8 of the United Nations Medical Support Manual:

(a) **Buddy first aid:** The basic immediate first aid provided to a casualty for himself or herself or by the nearest person on site, at the point of injury. The United Nations requirement for the buddy first aid kit is set out in appendix 1 to the present annex. One complete kit must be carried by each contingent member. Provision of buddy first aid by troop/police contributors should be implemented as soon as possible; however, it is mandatory from 1 July 2022;

(b) **Communal first aid:** Communal first aid medical services comprise the basic immediate first aid provided to a casualty by the nearest person on site, at the point of injury. The United Nations requirement for communal first aid is set out in appendix 2 to the present annex. The communal first aid kits are designed for common and higher-risk areas, and must be present in vehicles, workshops and maintenance facilities, kitchen and cooking facilities, or any other area deemed necessary by the Force Medical Officer;

(c) **Field medical assistance kit:** The field medical assistance kit is an advanced first responders' medical kit designed to provide a more sophisticated range of equipment and consumables and to deliver life-saving assistance to a casualty at the point of injury. The United Nations requirement for field medical assistance kits is set out in appendix 3 to the present annex. One kit is recommended per company-sized unit, with exact requirements to be determined during negotiation of the memorandum of understanding, based on the operating conditions. The troop/police contributor will prepare a minimum of one trained person per company-sized unit (see above), providing that person with the required advanced medical skills and training to a sufficient level of proficiency in accordance with the United Nations Field Medic Course;

(d) **Level 1 medical facility:**<sup>22</sup> Level 1 medical facilities provide the first level of medical care, i.e. primary health care and immediate life-saving and resuscitation services. Normally included within basic level 1 capabilities are: routine sick calls and the management of minor sicknesses and injuries among personnel for immediate return to duty; casualty collection from the point of injury/wounding and limited triage; stabilization of casualties; preparation of casualties for evacuation to the next level of medical capability or the appropriate level of medical facility depending on the type and gravity of the injuries; limited inpatient services; and advice on disease prevention, medical risk assessment and force protection within the area of responsibility. A level 1 medical facility is the first level of medical care where a doctor/physician is available. The United Nations requirement for level 1 medical facilities is set out in appendix 4 to the present annex;

(e) **Level 2 medical facility:**<sup>23,24</sup> Level 2 medical facilities provide the next level of medical care and the first level at which basic surgical expertise is available and life support services and hospital and ancillary services are provided within the mission area. A level 2 medical facility provides all level 1 capabilities and, in addition, includes capabilities for emergency surgery, damage control surgery, post operative services and high-dependency care, intensive care resuscitation and inpatient services; and basic diagnostic, laboratory, pharmaceutical, preventive medicine and dental services. Maintenance of patient records and tracking of

<sup>22</sup> [A/C.5/65/16](#), paras. 136–139.

<sup>23</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), annex III.B, annex B, para. 35 (c).

<sup>24</sup> [A/C.5/62/26](#), para. 128, paras. under “(d) Level-II medical facility”.

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evacuated patients are also minimum capabilities required for a level 2 medical facility. The United Nations requirement for level 2 medical facilities is set out in appendix 5 to the present annex;

(f) **Level 3 medical facility:**<sup>25,26</sup> Level 3 medical facilities provide the third and highest level of medical care deployed within a mission area. At this level, all capabilities of a level 1 and 2 medical facility are provided, as are capabilities for multidisciplinary surgical services, specialist services and specialist diagnostic services, increased high-dependency care capacity, extended intensive care services and specialist outpatient services. The United Nations requirement for level 3 medical facilities is presented set out in appendix 6 to the present annex;

(g) **Light mobile surgical module:** The light mobile surgical module is a highly specialized capability that has greatest utility during mission start-up where rapid deployment is required and in missions where the military and police components are required to rapidly redeploy within the mission area to meet a specific threat or conduct operations. It has special utility in missions where aeromedical evacuation distances are extended and likely to make meeting the United Nations guideline of surgery within two hours of injury difficult. Unlike other medical facilities, it is focused on resuscitation and surgical care and does not provide extensive primary health care as would be found at level 1, 2 and 3 facilities. The facility provides damage control resuscitation and surgery and limited post-operative intensive care prior to rapid onward evacuation. In order to keep the facility as light and mobile as possible, only the minimum of medical equipment is provided, and it is housed in a soft shelter system. Medical equipment must be robust, multifunctional and designed for field use. Staffing is kept to a minimum and the unit must have the necessary skills to pack, set up, disassemble and move the equipment without external assistance, except for the provision of vehicles. The requirements for the light mobile surgical module are listed in appendix 7 to the present annex;

(h) **Aeromedical evacuation module:** To be eligible for self-sustainment reimbursement for the aeromedical evacuation module, troop/police contributors must be able to provide treatment capabilities and medical equipment, as listed in chapter 3, annex C, appendices 10 and 10.1;

(i) **Orthopaedic module:** To be eligible for self-sustainment reimbursement for the orthopaedic module, troop/police contributors must be able to provide treatment capabilities and medical equipment, as listed in chapter 3, annex C, appendices 13 and 13.1;

(j) **Physiotherapy module:** To be eligible for self-sustainment reimbursement for the physiotherapy module, troop/police contributors must be able to provide treatment capabilities and medical equipment, as listed in chapter 3, annex C, appendices 14 and 14.1;

(k) **Internal medicine module:** To be eligible for self-sustainment reimbursement for the internal medicine module, troop/police contributors must be able to provide an internal medicine specialist to provide treatment capabilities, as listed in chapter 3, annex C, appendix 15;

(l) **Blood and blood products:** Blood and blood products will be provided by the United Nations according to United Nations standards, including transport, testing, handling and administration, unless the level 2 or 3 medical facility

<sup>25</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, annex III.B, para. 35 (d).

<sup>26</sup> A/C.5/62/26, para. 128, paras. under "(f) Level-III medical facility".

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troop/police contributor believes it necessary to negotiate the issue.<sup>27</sup> In such instances, this will be negotiated on a case-by-case basis and reflected in annex C to the memorandum of understanding. The United Nations will provide climate-controlled storage and transport capability (cold chain) to prevent the deterioration or contamination of blood and blood products. Qualified personnel in medical facilities will administer blood and blood products according to the compatibility of blood groups and rhesus factors, using approved hygiene to prevent contamination, and will perform blood testing and grouping. Further details on blood and blood products can be found in chapter 12 of the United Nations Medical Support Manual;

(m) **Medical gases:** Refilling of medical gases (only the medical gas and not the storage cylinder) will be provided by the United Nations in accordance with United Nations standards;

(n) **High-risk areas (epidemiological):**<sup>28</sup> To be eligible for self-sustainment reimbursement for high-risk areas (epidemiological), troop/police contributors must provide medical supplies, chemoprophylaxis and preventive health measures in areas with a high incidence of endemic infectious disease for which there is no vaccine. The minimum standards for high-risk areas (epidemiological) can vary according to the region in which United Nations personnel are deployed and are based on the risk posed to United Nations personnel. The self-sustainment reimbursement covers the provision and sustainment of prophylactic pharmaceuticals (anti-malarial) at a minimum. The prophylactic treatment of malaria is a national responsibility, as stipulated in appendix 17 to the present annex;

(o) **Dental-only facility:** Dental-only facilities must be able to provide dental care to maintain the dental health of unit personnel, provide basic or emergency dental procedures, maintain a sterilization capability, conduct minor prophylactic procedures and provide oral hygiene education to mission personnel.

- United Nations health-care quality and patient safety standards are a core requirement for any troop- or police-contributing medical facility deployed to field missions. All troop- or police-contributing medical facilities are required to implement these standards. Compliance with the standards will be assessed by the Health-Care Management and Occupational Safety and Health Division.

### Vaccinations

21. The administration of vaccinations, as recommended by the United Nations, is a national responsibility. The United Nations will provide necessary information on what kind of vaccination and preventive measures will be given to all United Nations personnel prior to deployment. If any United Nations personnel deploy without proper vaccinations and prophylaxes, the United Nations will provide necessary booster shots and prophylaxes. In such cases, the United Nations will deduct any expenses for initial vaccinations, which are covered by reimbursement provided to troop/police contributors for contingent personnel.<sup>29,30</sup>

<sup>27</sup> A/C.5/54/49, para. 86 (h).

<sup>28</sup> A/C.5/62/26, para. 128, paras. under “(h) High-risk areas (epidemiological)”.

<sup>29</sup> A/C.5/54/49, annex VIII, sect. II.B.14.

<sup>30</sup> General Assembly resolution 67/261 of 10 May 2013.

## Appendix 1

## United Nations levels of medical support: buddy first aid requirements and standards

| <i>Treatment capability</i>  | <i>Treatment capacity</i> | <i>Staffing requirement</i> | <i>Equipment requirement</i>     | <i>Infrastructure requirement</i> | <i>Reimbursement rate (per capita per month)</i> | <i>Remarks</i>  |
|--|---------------------------|-----------------------------|----------------------------------|-----------------------------------|--|---|
| 1. Cardiopulmonary resuscitation<br>2. Bleeding control<br>3. Fracture immobilization<br>4. Wound dressing and bandaging (including burns)<br>5. Casualty transport and evacuation<br>6. Communication and reporting | 2 casualties              | Nil                         | Buddy first aid kit <sup>a</sup> | Nil                               | \$3.27   | Troop/police contributor will prepare personnel by providing them with the required medical skills.<br>The personnel will be trained to a sufficient level of proficiency as stipulated in the Medical Support Manual for United Nations Field Missions. <sup>b</sup> |

<sup>a</sup> See appendix 1.1 for a detailed list of items in the buddy first aid kit, which must be carried by each troop/police contingent member.

<sup>b</sup> See Medical Support Manual for United Nations Field Missions, chap. 16.

## Chapter 3, annex C, appendix 1.1

**Appendix 1.1****Buddy first aid kit**

| <i>Serial No.</i> | <i>Item</i>   | <i>Quantity</i> |
|-------------------|---|-----------------|
| 1                 | First aid pouch or box  | 1               |
| 2                 | Emergency pressure bandage  | 1               |
| 3                 | Field dressing (small) <sup>a</sup>                                       | 2               |
| 4                 | Sterile gauze pads  | 10              |
| 5                 | S-rolled gauze (4.5 inches x 4.1 yards) <sup>a</sup>                      | 1               |
| 6                 | Chest seal (set of 2 per pack) <sup>a</sup>                               | 1               |
| 7                 | Adhesive tape (roll)  | 1               |
| 8                 | Pocket mask or face barrier to cardiopulmonary resuscitation <sup>b</sup> | 1               |
| 9                 | 2 Talon nitrile gloves, medium or large <sup>a</sup>                      | 2               |
| 10                | 1 Z-fold haemostatic gauze dressing, vacuum-sealed <sup>a</sup>           | 1               |
| 11                | Combat arterial tourniquet <sup>a</sup>                                   | 1               |
| 12                | Emergency hypothermia blanket   | 1               |

*Notes:*

1. Replenishing used and expired items within first aid kits is the responsibility of the troop/police contributing country.
2. Items are reimbursed under self-sustainment on the basis of one kit per troop/police contingent member.

<sup>a</sup> Minor size and brand variations are allowed as long as the item serves the intended function.

<sup>b</sup> Face barrier to cardiopulmonary resuscitation is considered as an alternate item to pocket mask.

## Appendix 2

## United Nations levels of medical support: communal first aid requirements and standards

| <i>Treatment capability</i>  | <i>Treatment capacity</i> | <i>Staffing requirement</i> | <i>Equipment requirement</i>        | <i>Infrastructure requirement</i> | <i>Reimbursement rate (per capita per month)</i> | <i>Remarks</i>   |
|--|---------------------------|-----------------------------|-------------------------------------|-----------------------------------|--|--|
| 1. Cardiopulmonary resuscitation<br>2. Bleeding control<br>3. Fracture immobilization<br>4. Wound dressing and bandaging (including burns)<br>5. Casualty transport and evacuation<br>6. Communication and reporting | 2 casualties              | Nil                         | Communal first aid kit <sup>a</sup> | Nil                               | \$2.18   | Troop/police contributor will prepare personnel by providing them with the required medical skills.<br>The personnel will be trained to a sufficient level of proficiency as stipulated in the Medical Support Manual for United Nations Field Missions <sup>b</sup> |

*Note:* Replenishing used and expired items within communal first aid kits is the responsibility of the troop/police contributing country.

<sup>a</sup> See appendix 2.1 for a detailed list of items in the communal first aid kit.

<sup>b</sup> See Medical Support Manual for United Nations Field Missions, chap. 16.

## Chapter 3, annex C, appendix 2.1

**Appendix 2.1****Communal first aid kit**

| <i>Serial No.</i> | <i>Item</i>                       | <i>Quantity</i> |
|-------------------|-----------------------------------|-----------------|
| 1                 | First aid pouch or box            | 1               |
| 2                 | Field dressing (small)            | 5               |
| 3                 | Field dressing (large)            | 1               |
| 4                 | Burn dressing                     | 1               |
| 5                 | Triangular bandages               | 1               |
| 6                 | Sterile gauze pads                | 10              |
| 7                 | Roller bandage/gauze (roll)       | 2               |
| 8                 | Sterile cotton wool (100 g pack)  | 1               |
| 9                 | Wound-cleansing solution (bottle) | 1               |
| 10                | Adhesive tape (roll)              | 2               |
| 11                | Safety scissors (super shear)     | 1               |
| 12                | Pocket mask                       | 1               |
| 13                | Gloves, size 7 1/2 and 8 (pairs)  | 2               |
| 14                | Arterial tourniquet               | 1               |

## Notes:

1. Items are reimbursed under self-sustainment.
2. The following facilities are required to have at least one communal first aid kit:
  - (a) All vehicles;
  - (b) All workshops and maintenance facilities;
  - (c) All kitchens and cooking facilities;
  - (d) Any other area where the Force Medical Officer deems it necessary.
3. Replenishing used and expired items within first aid kits is the responsibility of the troop- or police-contributing country.
4. Member States may choose to augment the above-mentioned minimum standards. This is a national prerogative, which must not lead to additional costs to the United Nations.

## Chapter 3, annex C, appendix 3

## Appendix 3

## Field medical assistance kit

(United States dollars)

| <i>Facility</i>           | <i>Generic fair market value</i> | <i>No.</i> | <i>Item</i>   | <i>Quantity</i> | <i>Generic fair market value</i> |
|---------------------------|----------------------------------|------------|---|-----------------|----------------------------------|
| Field trauma bag          | 36                               | 1          | Trauma bag/backpack   | 1               | 36                               |
| Airway and respiration    | 218                              | 2          | Nasopharyngeal airway, 28 F <sup>a</sup>  | 2               | 3                                |
|                           |                                  | 3          | Nasopharyngeal airway, 32 F <sup>a</sup>  | 2               | 3                                |
|                           |                                  | 4          | Supraglottic airway, size 4, colour-coded <sup>a</sup>  | 2               | 44                               |
|                           |                                  | 5          | Supraglottic airway, size 3, colour-coded <sup>a</sup>  | 2               | 44                               |
|                           |                                  | 6          | 3.25-inch 10 gauge intravenous catheter/pneumothorax needle decompressor <sup>a</sup>   | 4               | 40                               |
|                           |                                  | 7          | Chest seals (1 pack of 2) hydrogel occlusive dressing designed to treat penetrating chest wound and secure other wound dressings <sup>a</sup> | 4               | 45                               |
|                           |                                  | 8          | Paediatric bag valve mask   | 5               | 12                               |
|                           |                                  | 9          | Adult face mask for use with paediatric bag valve mask  | 1               | 9                                |
|                           |                                  | 10         | Cardiopulmonary resuscitation pocket mask, single-use   | 2               | 4                                |
|                           |                                  | 11         | Manual bulb-type suction device with removable reservoir  | 1               | 15                               |
| Vascular access equipment | 691                              | 12         | Intravenous administration set, 15 drops/ml with luer lock medication port <sup>a</sup>   | 4               | 6                                |
|                           |                                  | 13         | Sharps container, 50–100cc  | 1               | 2                                |
|                           |                                  | 14         | 15G needle with “talon” manual introducer for intraosseous fluid infusion (EZ-IO)   | 2               | 670                              |
|                           |                                  | 15         | Intravenous solution, 0.9% sodium chloride, 250cc (in bag form) <sup>a</sup>  | 2               | 1                                |
|                           |                                  | 16         | Intravenous solution, 3% sodium chloride (hypertonic), 250cc (in bag form) <sup>a</sup>   | 2               | 1                                |
|                           |                                  | 17         | Intravenous solution, 0.9% sodium chloride, 10cc (plastic or equivalent ampules) <sup>a</sup>   | 2               | –                                |
|                           |                                  | 18         | Intravenous solution, 0.9% sodium chloride, 250cc (in bottle form) <sup>a</sup>   | 1               | 6                                |
|                           |                                  | 19         | Medical adhesive tape, hypoallergenic, 1-inch width <sup>a</sup>  | 4               | 2                                |
|                           |                                  | 20         | Medical adhesive tape, hypoallergenic, 3-inch width <sup>a</sup>  | 2               | 2                                |
|                           |                                  | 21         | 60cc syringe with luer lock <sup>a</sup>  | 1               | –                                |
|                           |                                  | 22         | 10cc syringe with luer lock <sup>a</sup>  | 2               | –                                |
|                           |                                  | 23         | 5cc syringe with needle with luer lock <sup>a</sup>   | 2               | –                                |
|                           |                                  | 24         | Hypodermic needle 22 g x 1.5 inches <sup>a</sup>  | 2               | –                                |
| Haemorrhage control       | 622                              | 25         | Haemostatic application tourniquet  | 8               | 81                               |
|                           |                                  | 26         | Pelvic binder/junctional tourniquet   | 1               | 366                              |
|                           |                                  | 27         | Haemostatic combat gauze (3 inches x 4 yards, Z-fold) <sup>a</sup>  | 10              | 163                              |
|                           |                                  | 28         | Vacuum-sealed sterile conforming gauze  | 10              | 12                               |
| Dressing materials        | 65                               | 29         | Emergency pressure bandage, vacuum-sealed   | 10              | 46                               |
|                           |                                  | 30         | Sterile gauze, 4 inches x 4 yards <sup>a</sup>  | 20              | 5                                |

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| Facility                     | Generic fair market value | No. | Item   | Quantity | Generic fair market value |
|------------------------------|---------------------------|-----|--|----------|---------------------------|
|                              |                           | 31  | Triangular bandage   | 4        | 2                         |
|                              |                           | 32  | Gauze elastic bandage  | 4        | 10                        |
|                              |                           | 33  | Water-Jel burn dressings, 4 x 4 inches <sup>a</sup>                                      | 2        | 2                         |
| Immobilization and transport | 210                       | 34  | Slishman traction splint type or equivalent  | 1        | 81                        |
|                              |                           | 35  | SAM type or equivalent splint, about 26 inches <sup>a</sup>                              | 2        | 12                        |
|                              |                           | 36  | First aid thermal blanket  | 1        | 1                         |
|                              |                           | 37  | Kendrick extrication device type or equivalent extrication device                        | 1        | 79                        |
|                              |                           | 38  | Flexible “blanket” stretcher with reinforced carry handles                               | 1        | 37                        |
| Diagnostics                  | 30                        | 39  | Portable pulse oximeter  | 1        | 15                        |
|                              |                           | 40  | Manual blood pressure cuff   | 1        | 15                        |
| Medication                   | 279                       | 41  | Tactical combat casualty care card   | 5        | 17                        |
|                              |                           | 42  | Ziploc-type sandwich bags (1 quart) <sup>a</sup>   | 5        | 2                         |
|                              |                           | 43  | 3 m x 1 inch nylon webbing loop (i.e. for casualty movement) <sup>a</sup>                | 1        | 70                        |
|                              |                           | 44  | Smoke (for helicopter landing site marking) <sup>b</sup>                                 | 1        | 10                        |
|                              |                           | 45  | Orange panel (for helicopter landing site marking)                                       | 1        | 11                        |
|                              |                           | 46  | Mirror (for helicopter landing site marking)   | 1        | 2                         |
|                              |                           | 47  | Flashlight (for helicopter landing site marking)   | 1        | 5                         |
|                              |                           | 48  | Helicopter landing zone marking (for helicopter landing site marking)                    | 1        | 137                       |
|                              |                           | 49  | Multipurpose hand soap, individual use, bottle pack                                      | 1        | 1                         |
|                              |                           | 50  | Gloves, examination, nitrile, non-sterile, disposable, size M, L or XL (box of 50 pairs) | 1        | 12                        |
|                              |                           | 51  | Rolls of coloured plastic tape (red, yellow, green, black), set with one of each colour  | 1        | 7                         |
|                              |                           | 52  | 2-inch cloth medical tape/roll <sup>a</sup>  | 3        | 4                         |
| Miscellaneous                | 120                       | 53  | Disposable coveralls (clothing)  | 1        | 5                         |
|                              |                           | 54  | Hypothermia Prevention and Management Kit <sup>a</sup>                                   | 1        | 55                        |
|                              |                           | 55  | Alcohol-based hand sanitizer   | 3        | 2                         |
|                              |                           | 56  | Paramedic trauma shears  | 2        | 16                        |
|                              |                           | 57  | Headlamp   | 1        | 15                        |
|                              |                           | 58  | Infrared reflective “MED” patch (2 x 3 inches) <sup>a</sup>                              | 1        | 3                         |
|                              |                           | 59  | Glow sticks  | 4        | 2                         |
|                              |                           | 60  | Protective goggles   | 1        | 16                        |
|                              |                           | 61  | N95 face masks   | 4        | 5                         |
| <b>Total</b>                 | <b>2 271</b>              |     |  |          | <b>2 271</b>              |

## Notes:

- Items are reimbursed under major equipment.
- Replenishing used and expired items within first aid kits is the responsibility of the troop/police contributing country.

<sup>a</sup> Minor size and brand variations are allowed as long as the item serves the intended function.

<sup>b</sup> This item is recommended, but not compulsory.

## Appendix 4

## United Nations levels of medical support: level 1 (primary health and emergency care) requirements and standards

| <i>Treatment capability</i>  | <i>Treatment capacity</i> | <i>Staffing requirement</i> | <i>Equipment requirement<sup>a</sup></i> | <i>Infrastructure requirement</i> | <i>Reimbursement rate (per capita per month)</i> | <i>Remarks</i>               |
|--|---------------------------|-----------------------------|--|-----------------------------------|--|------------------------------|
| Scope  | Treatment of              | 2x medical officers         | Emergency                                | Tentage                           | Epidemiological                                  | The level 1 unit must be     |
| 1. Maintenance of airway   | 20 ambulatory             | 6x medics/nurses            | resuscitation equipment                  | Containers                        | low-risk areas                                   | able to split into two       |
| 2. Ventilation   | patients per day          | (Able to split into         | and drugs: <sup>a</sup>                  | Building                          | Level 1 <sup>b</sup>                             | forward medical teams.       |
| 3. Haemorrhage control   | Holding capacity          | 2 forward medical           | Fluids                                   | (if available)                    |  | All equipment must be        |
| 4. Advanced life support   | of 5 patients for         | teams, each with            | Splints and bandages                     | Deployment will be                |  | portable.                    |
| 5. Treatment of shock  | up to 2 days              | 1 medical officer and       | Surgical sets for                        | subdivided into                   |  | The weight, size and shape   |
| 6. Correction of dehydration   | Medical supplies          | 3 medics/nurses)            | minor surgical                           | three main areas:                 |  | of packs should enable one   |
| 7. Fracture immobilization   | for 60 days               | 3x support staff            | procedures                               | Resuscitation and                 |  | person to carry them.        |
| 8. Wound management  |                           |                             | Field dispensary                         | stabilization                     |  | All equipment must be        |
| 9. Burn management   |                           |                             | Stretchers                               | Treatment and                     |  | transportable by helicopter. |
| 10. Infection control  |                           |                             |  | minor surgery                     |  |                              |
| 11. Pain control   |                           |                             |  | Holding/observation               |  |                              |
| 12. Minor surgery, e.g. toilet and suture, nail avulsion, and removal of corns |                           |                             |  |                                   |  |                              |
| 13. Treatment of common/minor conditions                                       |                           |                             |  |                                   |  |                              |
| 14. Stabilization for evacuation   |                           |                             |  |                                   |  |                              |
| 15. Evacuation   |                           |                             |  |                                   |  |                              |

*Notes:* Equivalent to battalion or regimental aid station (up to the battalion level). Actual composition and number of level 1 medical personnel may vary depending on the operational requirements as agreed upon in the memorandum of understanding. Troop/police contributors must ensure that personnel required to meet the indicated staffing requirements, in accordance with the present appendix, are backfilled during periods of planned leave. During periods of unforeseen absence (e.g. compassionate or emergency leave), troop/police contributors are responsible for the continuous operational capability of the facility without degradation and for backfilling the required personnel within 72 hours. The personnel who backfill during periods of planned leave or unforeseen absence must meet the same technical clearance requirements as regular staff.

<sup>a</sup> See appendix 4.1 for a detailed equipment list.

<sup>b</sup> See chap. 8, annex B.

## Chapter 3, annex C, appendix 4.1

## Appendix 4.1

Level 1 medical facility<sup>1</sup>

(United States dollars)

| <i>Facility</i>   | <i>Generic<br/>fair market<br/>value</i> | <i>Item</i>  | <i>Quantity</i>     | <i>Generic<br/>fair market<br/>value</i> |
|---|--|--|---------------------|--|
| A. Administration,<br>logistics and<br>communications   | 4 254                                    | i. Standby generator (portable) <sup>a</sup>                             | 1                   | 4 254                                    |
|   |  | ii. Furniture <sup>b</sup>   | Adequate            |  |
|   |  | iii. Stationery/documentation <sup>b</sup>                               | Adequate            |  |
|   |  | iv. Computer/printer <sup>b</sup> (optional, where possible or feasible) | 1                   |  |
|   |  | v. Telephone <sup>b</sup> (optional, where possible or feasible)         | 1 line              |  |
|   |  | vi. VHF/UHF communications <sup>b</sup>                                  | Suitable to mission |  |
|   |  | vii. Storage (boxes, cupboards, etc.) <sup>b</sup>                       | Adequate            |  |
| B. Consultation,<br>treatment and<br>emergency          | 76 475                                   | i. Examination couch <sup>a</sup>  | 1                   | 1 334                                    |
|   |  | ii. Desk and chairs <sup>b</sup>   | 1 set               |  |
|   |  | iii. Essential diagnostic equipment <sup>a</sup>                         | 2 sets              |  |
|   |  | Stethoscope <sup>a</sup>   |                     | 223                                      |
|   |  | Ophthalmoscope <sup>a</sup>  |                     | 1 112                                    |
|   |  | Otoscope <sup>a</sup>  |                     | 1 112                                    |
|   |  | Electrocardiogram machine <sup>a</sup>                                   |                     | 11 118                                   |
|   |  | Reflex mallet <sup>a</sup>   |                     | 223                                      |
|   |  | Thermometers <sup>a</sup>  |                     | 111                                      |
|   |  | Sphygmomanometer <sup>a</sup>  |                     | 223                                      |
|   |  | Gynaecological speculum <sup>a</sup>                                     |                     | 667                                      |
|   |  | Proctoscope <sup>a</sup>   |                     | 667                                      |
|   |  | Measuring tape <sup>a</sup>  |                     | 22                                       |
|   |  | Torch <sup>a</sup>   |                     | 45                                       |
| Examination lamp <sup>a</sup>                           |  | 4 447  |                     |  |
| Miscellaneous <sup>a</sup>                              |  | 2 223  |                     |  |
| iv. X-ray view box <sup>a</sup>                         | 1  | 1 112  |                     |  |
| v. Minor treatment/dressing sets <sup>b</sup>           | Adequate quantity<br>consumables         |  |                     |  |
| vi. Resuscitation trolley (fully equipped) <sup>a</sup> | 2 sets                                   | 4 447  |                     |  |
| vii. Intubation set <sup>a</sup>                        | 2 sets                                   | 3 335  |                     |  |
| viii. Coniotomy set <sup>a</sup>                        | 2 sets                                   | 1 112  |                     |  |
| ix. Defibrillator <sup>a</sup>                          | 2  | 17 789   |                     |  |
| x. Oxygen cylinder with regulator <sup>a</sup>          | 2  | 444  |                     |  |
| xi. Suction unit <sup>a</sup>                           | 2  | 2 223  |                     |  |
| xii. Nebulizer <sup>a</sup>                             | 2  | 446  |                     |  |
| xiii. Perfusion stands <sup>a</sup>                     | 2  | 445  |                     |  |
| xiv. General-purpose sets <sup>a</sup>                  | 3  | 592  |                     |  |

<sup>1</sup> A/C.5/68/22, paras. 136–139; and A/C.5/71/20, annex 4.1.

## Chapter 3, annex C, appendix 4.1

| Facility  | Generic fair market value | Item   | Quantity     | Generic fair market value |
|---|---------------------------|--|--------------|---------------------------|
|   |                           | xv. Sets for chest tube insertion, catheterization and venous cut-downs <sup>a</sup>                                 | 2 sets       | 1 334                     |
|   |                           | xvi. Infusion pump <sup>a</sup>  | 2            | 10 005                    |
|   |                           | xvii. Pulse oximeter <sup>a</sup>  | 1            | 3 335                     |
|   |                           | xviii. Pulse oximeter (portable) <sup>a</sup>  | 1            | 197                       |
|   |                           | xix. Handheld portable ultrasound machine <sup>a</sup>   | 1            | 6 130                     |
| C. Pharmacy   | 889                       | Refrigerator for drugs <sup>a</sup>  | 1            | 889                       |
|   |                           | Analgesics <sup>b</sup>  |              |                           |
|   |                           | Antipyretics <sup>b</sup>  |              |                           |
|   |                           | Antibiotics <sup>b</sup>   |              |                           |
|   |                           | Drugs for common respiratory conditions <sup>b</sup>   |              |                           |
|   |                           | Drugs for common gastrointestinal conditions <sup>b</sup>  |              |                           |
|   |                           | Drugs for common musculoskeletal conditions <sup>b</sup>   |              |                           |
|   |                           | Drugs for common cardiovascular conditions <sup>b</sup>  |              |                           |
|   |                           | Drugs for common gynaecological conditions <sup>b</sup>  |              |                           |
|   |                           | Drugs for other common illnesses <sup>b</sup>  |              |                           |
|   |                           | Resuscitation drugs and equipment (including narcotics) <sup>b</sup>   |              |                           |
|   |                           | Menstrual products <sup>b</sup>  |              |                           |
| D. Sterilization  | 4 254                     | Field autoclave sterilizer <sup>a</sup>  | 1            | 4 254                     |
| E. Inpatient care   | 4 627                     | i. Collapsible beds <sup>a</sup>   | 5            | 1 329                     |
|   |                           | ii. Crutches <sup>a</sup>  | 2 pairs      | 223                       |
|   |                           | iii. Trolley for drugs <sup>a</sup>  | 1            | 2 223                     |
|   |                           | iv. Utensils for feeding patients <sup>a</sup>   | 5 sets       | 851                       |
| F. Transportation.  |                           | Fully equipped ambulance <sup>a</sup>  | 2 ambulances |                           |
| Two fully equipped ambulances will be reimbursed as major equipment under annex B to the memorandum of understanding <sup>c</sup> |                           | Doctor's bag <sup>a</sup>  |              |                           |
|   |                           | Oxygen cylinder with regulator <sup>a</sup>  |              |                           |
|   |                           | Suction pump <sup>a</sup>  |              |                           |
|   |                           | Resuscitation drugs <sup>a</sup>   |              |                           |
|   |                           | Helicopter landing site marking equipment (smoke grenade or smoke device, luminous sticks/sheets, etc.) <sup>a</sup> |              |                           |
|   |                           | Communications equipment (VHF/UHF) <sup>a</sup>  |              |                           |
|   |                           | Emergency lighting <sup>a</sup>  |              |                           |
|   |                           | Vehicle maintenance equipment <sup>a</sup>   |              |                           |
|   |                           | Communal first aid kit <sup>b</sup>  |              |                           |
|   |                           | Pulse oximeter <sup>a</sup>  |              |                           |
|   |                           | Portable defibrillator <sup>a</sup>  |              |                           |
| G. Miscellaneous  | 6 376                     | i. Doctor's bags <sup>a</sup>  | 2 sets       | 3 188                     |
|   |                           | ii. Paramedic's/nurse's bags <sup>a</sup>  | 3 sets       | 3 188                     |
| <b>Total</b>  | <b>96 874</b>             |  |              | <b>96 874</b>             |

<sup>a</sup> Reimbursed under major equipment.

<sup>b</sup> Reimbursed under self-sustainment.

<sup>c</sup> In the case of naval vessels, ambulances may be disregarded (agreed upon during negotiation of the memorandum of understanding).

## Appendix 5

## United Nations levels of medical support: level 2 (basic field hospital) requirements and standards

| <i>Treatment capability</i>  | <i>Treatment capacity</i>                                   | <i>Staffing requirement</i>   | <i>Equipment requirement</i>                                   | <i>Infrastructure requirement</i>  | <i>Reimbursement rate<br/>(per capita per month)</i>   | <i>Remarks</i>  |
|--|---|---|--|--|--|---|
| 1. Triage, resuscitation and stabilization                                       | 3 to 4 surgical operations per day                          | 2x general surgeons<br>1x anaesthetist  | Standard operating theatre fixtures and equipment <sup>a</sup> | 1. Hospital:<br>(a) Reception/administration<br>(b) 2x outpatient consultation rooms<br>(c) 1x pharmacy<br>(d) 1x radiography room<br>(e) 1x laboratory<br>(f) 1x dental treatment room<br>(g) 1x dental X-ray room<br>(h) 1x emergency/resuscitation/anaesthesia/recovery room<br>(i) 1x operating theatre<br>(j) 1x sterilization room<br>(k) 1x or 2x 10-bed wards<br>(l) 1- to 2-bed intensive care unit | Epidemiological low-risk areas<br>Level 2 <sup>b</sup> | The level 2 facility must be able to configure at least 2 forward medical teams capable of resuscitating and treating casualties onsite |
| 2. Life- and limb-saving surgical interventions, e.g.:                           | Hospitalization of 10 to 20 sick or wounded at any one time | 1x nurse<br>1x anaesthetist (or equivalent)<br>1x internist   | Standard intensive care unit equipment <sup>a</sup>            |  |  |   |
| Laparotomy   | Up to 7 days of hospitalization for each patient            | 1x general physician  | Essential laboratory and radiography equipment <sup>a</sup>    |  |  |   |
| Thoracocentesis  |   | 1x commanding officer   |  |  |  |   |
| Appendectomy   |   | 1x senior medical officer   |  |  |  |   |
| Wound exploration  |   | 1x Mental health professional (clinical psychologist/psychiatrist/psychiatrist nurse) (optional) <sup>c,d,e,f</sup>                               |  |  |  |   |
| Fracture debridement   | Up to 40 outpatient consultations per day                   | 1x dentist<br>1x dental assistant<br>1x dental technician<br>1x hygiene officer (or equivalent public health officer)                             |  |  |  |   |
| 3. Anaesthesia (general and regional)  | 5 to 10 dental consultations per day                        |   |  |  |  | There must be provision made for sufficient and suitable portable equipment and packs in order to perform this role                     |
| 4. Advanced life support and intensive care                                      | 10 X-rays and 20 laboratory tests per day                   |   |  |  |  |   |
| 5. Treatment and observation of common medical conditions and infectious disease | Medical supplies for 60 days                                |   |  |  |  |   |
| 6. Essential pharmaceutical support  |   | 1x pharmacist<br>1x pharmacist technician<br>1x head nurse<br>2x critical/intensive care nurses<br>12x nurses/paramedics<br>1x preoperative nurse |  |  |  |   |
| 7. Basic dental service:   |   |   |  |  |  |   |
| Pain relief  |   |   |  |  |  |   |
| Simple extractions   |   |   |  |  |  |   |
| Simple fillings  |   |   |  |  |  |   |
| Infection control  |   |   |  |  |  |   |

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| <i>Treatment capability</i>                                    | <i>Treatment capacity</i> | <i>Staffing requirement</i>                   | <i>Equipment requirement</i> | <i>Infrastructure requirement</i>                       | <i>Reimbursement rate<br/>(per capita per month)</i> | <i>Remarks</i> |
|--|---------------------------|---|------------------------------|---|--|----------------|
|  |                           | 1x charge nurse                               |                              |   |  |                |
|  |                           | 1x X-ray technician<br>(or equivalent)        |                              |   |  |                |
|  |                           | 1x radiographer                               |                              |   |  |                |
| 8. Basic laboratory facility                                   |                           | 1x laboratory technician                      |                              | 2. Support services                                     |  |                |
| Blood group and cross matching                                 |                           | 2x lab technologists                          |                              | (a) Kitchen   |  |                |
| Leucocyte count  |                           | 2x ambulance drivers                          |                              | (b) Laundry   |  |                |
| Erythrocyte sedimentation rate, etc.                           |                           | 1x medical storeman                           |                              | (c) Supply storage facility                             |  |                |
| Gram staining  |                           | 1x medical records officer                    |                              | (d) Maintenance room                                    |  |                |
| Blood film   |                           | 1x company sergeant major                     |                              | (e) Communication                                       |  |                |
| Urine analysis   |                           | 1x company quartermaster sergeant major       |                              | (f) Transportation (ambulance/air evacuation)           |  |                |
| 9. Basic diagnostic radiography                                |                           | 1x hygiene officer                            |                              | (g) Generator room                                      |  |                |
| 10. Hygiene control and prevention of disease                  |                           | 1x hygiene assistant                          |                              | (h) Fuel storage  |  |                |
|  |                           | 1x administrative officer                     |                              | (i) Staff room  |  |                |
| 11. Evacuation of casualties to level 3 and level 4 facilities |                           | 1x administrative clerk                       |                              | (j) Water sanitation/water disposal                     |  |                |
|  |                           | 2x cooks                                      |                              | 3. Accommodation  |  |                |
|  |                           | 1x plant mechanic                             |                              | (a) Tentage   |  |                |
|  |                           | 1x electrician                                |                              | (b) Containers  |  |                |
|  |                           | 1x electro-medical technician                 |                              | (c) Standard United Nations field mission accommodation |  |                |
|  |                           | 1x radio technician                           |                              |   |  |                |
|  |                           | 1x radio operator                             |                              |   |  |                |
|  |                           | 1x refrigerator and air conditioning mechanic |                              |   |  |                |
|  |                           | 1x driver mechanic                            |                              |   |  |                |
|  |                           | 1x vehicle mechanic                           |                              |   |  |                |
|  |                           | 1x sanitary duty staff                        |                              |   |  |                |
|  |                           | <b>Total: 58 staff</b>                        |                              |   |  |                |

(Footnotes on following page)

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(Footnotes to appendix 5)

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*Notes:* Regional medical support in a mission area (up to brigade level) with emergency surgical capabilities. Actual composition and number of level 2 medical personnel may vary depending on the operational requirements as agreed upon in the memorandum of understanding. Troop/police contributors must ensure that personnel required to meet the indicated staffing requirements, in accordance with the present appendix, are backfilled during periods of planned leave. During periods of unforeseen absence (e.g. compassionate or emergency leave), troop/police contributors are responsible for the continuous operational capability of the facility without degradation and for backfilling the required personnel within 72 hours. The personnel who backfill during periods of planned leave or unforeseen absence must meet the same technical clearance requirements as regular staff.

<sup>a</sup> See appendix 5.1 for a detailed equipment list.

<sup>b</sup> See chap. 8, annex B.

<sup>c</sup> Not more than two uniformed mental health professionals per mission.

<sup>d</sup> See United Nations, Department of Peacekeeping Operations and Department of Field Support, *Medical Support Manual for United Nations Field Missions*, third edition, 2015, chap. 8, para. C, p. 82, and para. G, p. 83; and *Mental health and psychological support resources in the United Nations system*, chap. 9, para. 3, p. 105.

<sup>e</sup> The deployment of one uniformed clinical psychologist/psychiatrist/psychiatrist nurse will be subject to the medical support plan of the mission.

<sup>f</sup> Effective from 1 July 2024.

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## Appendix 5.1

Level 2 medical facility<sup>1</sup>

(United States dollars)

| Facility  | Generic<br>fair market<br>value | Item  | Quantity             | Generic<br>fair market<br>value |
|---|---------------------------------|---|----------------------|---------------------------------|
| I.A. Outpatient services                            |                                 | i. Furniture <sup>b</sup>                                 | Adequate             |                                 |
|   |                                 | ii. Stationery/documentation <sup>b</sup>                 | Adequate             |                                 |
|   |                                 | iii. Computer/printer <sup>b</sup>                        | 1                    |                                 |
|   |                                 | iv. Telephone <sup>b</sup>                                | 2 lines              |                                 |
| B. Consultation rooms<br>(2)<br>(\$12,239 per room) | 24 862                          | i. Examination couch <sup>a</sup>                         | 1 per room           | 2 669                           |
|   |                                 | ii. Desk and chairs <sup>b</sup>                          | 1 set per room       |                                 |
|   |                                 | iii. Essential diagnostic equipment: <sup>a</sup>         | 1 set per room       |                                 |
|   |                                 | Stethoscope <sup>a</sup>                                  |                      | 223                             |
|   |                                 | Ophthalmoscope <sup>a</sup>                               |                      | 1 112                           |
|   |                                 | Otoscope <sup>a</sup>                                     |                      | 1 112                           |
|   |                                 | Electrocardiogram machine <sup>a</sup>                    |                      | 11 118                          |
|   |                                 | Reflex mallet <sup>a</sup>                                |                      | 223                             |
|   |                                 | Thermometers <sup>a</sup>                                 |                      | 111                             |
|   |                                 | Sphygmomanometer <sup>a</sup>                             |                      | 223                             |
|   |                                 | Gynaecological speculum <sup>a</sup>                      |                      | 667                             |
|   |                                 | Proctoscope <sup>a</sup>                                  |                      | 667                             |
|   |                                 | Measuring tape <sup>a</sup>                               |                      | 22                              |
|   |                                 | Torch <sup>a</sup>  |                      | 45                              |
|   |                                 | Examination lamp <sup>a</sup>                             |                      | 4 447                           |
|   |                                 | Miscellaneous <sup>a</sup>                                |                      | 2 223                           |
|   |                                 | iv. Documentation and stationery <sup>b</sup>             |                      |                                 |
| C. Pharmacy   | 4 224                           | i. Refrigerator for drugs <sup>a</sup>                    | 1                    | 889                             |
|   |                                 | ii. Refrigerator for blood/blood products <sup>a</sup>    | 1                    | 3 335                           |
|   |                                 | Analgesics <sup>b</sup>                                   | Adequate quantity    |                                 |
|   |                                 | Antipyretics <sup>b</sup>                                 | and essential        |                                 |
|   |                                 | Antibiotics <sup>b</sup>                                  | variety to support   |                                 |
|   |                                 | Drugs for common respiratory conditions <sup>b</sup>      | 40 outpatients per   |                                 |
|   |                                 | Drugs for common gastrointestinal conditions <sup>b</sup> | day for a period of  |                                 |
|   |                                 | Drugs for common musculoskeletal conditions <sup>b</sup>  | 60 days. The list of |                                 |
|   |                                 | Drugs for common cardiovascular conditions <sup>b</sup>   | drugs is listed in   |                                 |
|   |                                 | Drugs for common gynaecological conditions <sup>b</sup>   | the Medical          |                                 |
|   |                                 | Drugs for other common illnesses <sup>b</sup>             | Support Manual for   |                                 |
|   |                                 | Resuscitation drugs (including narcotics) <sup>b</sup>    | United Nations       |                                 |
|   |                                 | Menstrual products (sanitary pads) <sup>b,e</sup>         | Field Missions       |                                 |

<sup>1</sup> A/C.5/65/16, annex 7.2; A/C.5/68/22, annex 5.2; and A/C.5/71/20, annex 4.2.

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| <i>Facility</i>   | <i>Generic fair market value</i> | <i>Item</i>   | <i>Quantity</i>                       | <i>Generic fair market value</i> |
|---|----------------------------------|---|---------------------------------------|----------------------------------|
| D. Radiography room   | 187 150                          | i. Digital X-ray machine, including X-ray table and printer <sup>a</sup>  | 1                                     | 101 570                          |
|   |                                  | ii. X-ray view box <sup>a</sup>   | 2                                     | 2 223                            |
|   |                                  | iii. Protective equipment for staff and patients <sup>a,c</sup>   | 2 sets                                | 6 602                            |
|   |                                  | iv. Ultrasound machine <sup>a</sup>   | 1                                     | 30 702                           |
|   |                                  | v. Mobile digital X-ray machine <sup>a</sup>  | 1                                     | 46 052                           |
| E. Laboratory   | 39 089                           | i. Digital haematology analyser <sup>a</sup>  | 1                                     | 5 704                            |
|   |                                  | ii. Digital biochemistry analyser <sup>a</sup>  | 1                                     | 4 899                            |
|   |                                  | iii. Kits for HIV tests and other relevant tests <sup>b</sup>   | 5 kits each                           |                                  |
|   |                                  | iv. Microscope <sup>a</sup>   | 2                                     | 6 670                            |
|   |                                  | v. Centrifuge <sup>a</sup>  | 1                                     | 3 335                            |
|   |                                  | vi. Urinalysis kit <sup>b</sup>   |                                       |                                  |
|   |                                  | vii. Incubator <sup>a</sup>   | 1                                     | 5 559                            |
|   |                                  | viii. Supplies (tubes, reagents, etc.) <sup>b</sup>   |                                       |                                  |
|   |                                  | ix. Glucometer <sup>a</sup>   | 1                                     | 1 112                            |
|   |                                  | x. Refrigerator <sup>a</sup>  | 1                                     | 889                              |
|   |                                  | xi. Freezer <sup>a</sup>  | 1                                     | 3 335                            |
|   |                                  | xii. Cardiac troponin <sup>a</sup>  | 1 set (10 tests)                      | 86                               |
|   |                                  | xiii. Clotting profile analyser <sup>a</sup>  | 1                                     | 7 500                            |
| II. Dental services consultation, treatment and X-ray                                     | 164 100                          | i. Dental chair, electrical <sup>a</sup>  | 1                                     | 72 266                           |
|   |                                  | ii. Equipment for treatment <sup>a</sup><br>Extraction <sup>a</sup><br>Filling <sup>a</sup><br>Other basic treatment <sup>a</sup> | Adequate for 5 to 10 patients per day | 3 335                            |
|   |                                  | iii. Drilling unit <sup>a</sup>   | 1                                     | 22 235                           |
|   |                                  | iv. Digital X-ray equipment <sup>a</sup>  | 1 set                                 | 44 471                           |
|   |                                  | v. Protective equipment <sup>a,c,e</sup>  | 2 sets                                | 5 115                            |
|   |                                  | vi. Dental sterilizer <sup>a</sup>  | 1                                     | 16 677                           |
|   |                                  | vii. Furniture <sup>b</sup>   | Adequate                              |                                  |
| III.A. Surgery/<br>anaesthesia<br>emergency<br>resuscitation/<br>anaesthesia/<br>recovery | 98 572                           | i. Desk and chairs <sup>b</sup>   | 2 to 3 sets                           |                                  |
|   |                                  | ii. Examination couch <sup>a</sup>  | 2                                     | 2 669                            |
|   |                                  | iii. Essential diagnostic equipment   | 2 sets                                |                                  |
|   |                                  | Stethoscope <sup>a</sup>  |                                       | 223                              |
|   |                                  | Ophthalmoscope <sup>a</sup>   |                                       | 1 112                            |
|   |                                  | Otoscope <sup>a</sup>   |                                       | 1 112                            |
|   |                                  | Electrocardiogram machine <sup>a</sup>  |                                       | 11 118                           |
|   |                                  | Reflex mallet <sup>a</sup>  |                                       | 223                              |
|   |                                  | Thermometers <sup>a</sup>   |                                       | 111                              |
|   |                                  | Sphygmomanometer <sup>a</sup>   |                                       | 223                              |
|   |                                  | Gynaecological speculum <sup>a</sup>  |                                       | 667                              |
| Proctoscope <sup>a</sup>  |                                  | 667   |                                       |                                  |
| Measuring tape <sup>a</sup>   |                                  | 22  |                                       |                                  |

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| <i>Facility</i>       | <i>Generic fair market value</i> | <i>Item</i>   | <i>Quantity</i>                            | <i>Generic fair market value</i> |
|-----------------------|----------------------------------|---|--|----------------------------------|
|                       |                                  | Torch <sup>a</sup>  |  | 45                               |
|                       |                                  | Examination lamp <sup>a</sup>   |  | 4 447                            |
|                       |                                  | Miscellaneous <sup>a</sup>  |  | 2 223                            |
|                       |                                  | iv. X-ray viewer <sup>a</sup>   |  | 1 112                            |
|                       |                                  | v. Minor treatment/dressing set <sup>b</sup>  | Adequate                                   |                                  |
|                       |                                  | vi. Resuscitation trolley (fully equipped) <sup>a</sup>   | 2  | 4 447                            |
|                       |                                  | vii. Intubation sets <sup>a</sup>   | 2  | 3 335                            |
|                       |                                  | viii. Coniotomy set <sup>a</sup>  | 2  | 1 112                            |
|                       |                                  | ix. Electrocardiogram machine <sup>a</sup>  | 1  | 5 559                            |
|                       |                                  | x. Defibrillator <sup>a</sup>   | 1  | 8 895                            |
|                       |                                  | xi. Portable ventilator/oxygen cylinder <sup>a</sup>  | 1  | 7 226                            |
|                       |                                  | xii. Pulse oximeter <sup>a</sup>  | 1  | 3 335                            |
|                       |                                  | xiii. Suction unit <sup>a</sup>   | 1  | 1 112                            |
|                       |                                  | xiv. Nebulizer <sup>a</sup>   | 1  | 223                              |
|                       |                                  | xv. Backboards/vacuum mattresses <sup>a</sup>   | 2  | 7 782                            |
|                       |                                  | xvi. Excision/suture sets <sup>a</sup>  | 3  | 5 337                            |
|                       |                                  | xvii. Perfusion stands <sup>a</sup>   | 3  | 667                              |
|                       |                                  | xviii. Sets for chest tube insertion, catheterization and venesection <sup>a</sup>  | 2 sets each                                | 1 334                            |
|                       |                                  | xix. Anaesthetic gas supply system <sup>a</sup>   | To support 3–4 operations per day          | 22 235                           |
|                       |                                  | xx. Drugs and consumables required for induction of anaesthesia (including local and regional anaesthesia) and post-operation recovery <sup>b</sup> |  |                                  |
| B. Operating theatres | 152 201                          | i. Operating table <sup>a</sup>   | 1  | 15 565                           |
|                       |                                  | ii. Operating theatre lamps <sup>a</sup>  | 2  | 13 342                           |
|                       |                                  | iii. Anaesthesia machine <sup>a</sup>   | 1  | 55 589                           |
|                       |                                  | iv. Oxygen and anaesthetic gases <sup>b</sup>   | Essential                                  |                                  |
|                       |                                  | v. Diathermy machine <sup>a</sup>   | 1  | 8 895                            |
|                       |                                  | vi. Suction unit for body fluids <sup>a</sup>   | 1  | 4 447                            |
|                       |                                  | vii. Laparotomy sets <sup>a</sup>   | Quantity to support 3–4 operations per day | 12 230                           |
|                       |                                  | viii. Thoracotomy sets <sup>a</sup>   |  |                                  |
|                       |                                  | ix. Craniotomy sets <sup>a</sup>  |  |                                  |
|                       |                                  | x. Wound exploration sets <sup>a</sup>  |  |                                  |
|                       |                                  | xi. Amputation sets <sup>a</sup>  |  |                                  |
|                       |                                  | xii. Fracture fixation sets and fixation equipment <sup>a</sup>   |  |                                  |
|                       |                                  | xiii. Appendectomy and general purpose sets <sup>a</sup>  |  |                                  |
|                       |                                  | xiv. Disinfection equipment <sup>a</sup>  | Adequate                                   | 4 447                            |
|                       |                                  | xv. Resuscitation/monitoring equipment trolley with drugs <sup>a</sup>  | 1  | 2 223                            |
|                       |                                  | Defibrillator <sup>a</sup>  |  | 8 895                            |
|                       |                                  | Ventilator <sup>a</sup>   |  | 7 226                            |
|                       |                                  | Intubation sets <sup>a</sup>  |  | 1 668                            |

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| <i>Facility</i>                  | <i>Generic fair market value</i> | <i>Item</i>  | <i>Quantity</i>                                | <i>Generic fair market value</i> |
|----------------------------------|----------------------------------|--|--|----------------------------------|
|                                  |                                  | Infusion pump <sup>a</sup>   |  | 5 003                            |
|                                  |                                  | Suction pump <sup>a</sup>  |  | 1 112                            |
|                                  |                                  | Pulse oximeter <sup>a</sup>  |  | 3 335                            |
|                                  |                                  | xvi. Oxygen cylinder with regulator <sup>a</sup>                             | 2  | 444                              |
|                                  |                                  | xvii. Patient transport/transfer trolley <sup>a</sup>                        | 2  | 7 782                            |
|                                  |                                  | xviii. Surgical consumables <sup>b</sup>                                     | To support 3–4 operations per day              |                                  |
| C. Sterilization room            | 59 814                           | i. Autoclave sterilizer <sup>a</sup>   | 1  | 44 472                           |
|                                  |                                  | ii. Boiler <sup>a</sup>  | 1  | 4 447                            |
|                                  |                                  | iii. Disinfection equipment <sup>a</sup>                                     | 1 set  | 7 782                            |
|                                  |                                  | iv. Fire extinguisher <sup>b</sup>   | 1  |                                  |
|                                  |                                  | v. Furniture and supplies <sup>b</sup>                                       | Adequate                                       |                                  |
|                                  |                                  | vi. Machine for cleansing surgical instruments <sup>a</sup>                  | 1 or 2   | 3 113                            |
| IV. Wards                        | 49 807                           | i. Collapsible multipurpose hospital beds <sup>a</sup>                       | 20 beds (10 per ward)                          | 22 235                           |
| A. General multidiscipline wards |                                  | ii. Orthopaedic traction equipment <sup>a</sup>                              | 2 sets per ward                                | 10 673                           |
|                                  |                                  | iii. Mini dispensary (trolley) <sup>a</sup>                                  | 1 per ward                                     | 2 668                            |
|                                  |                                  | iv. Essential medical supplies and equipment for inpatient care <sup>b</sup> | Adequate quantity based on number of beds (20) |                                  |
|                                  |                                  | v. Furniture, office supplies, etc. <sup>b</sup>                             |  |                                  |
|                                  |                                  | vi. Crutches <sup>a</sup>  | 2 sets per ward                                | 446                              |
|                                  |                                  | vii. Wheelchairs <sup>a</sup>  | 1  | 2 668                            |
|                                  |                                  | viii. Cloth patient <sup>a</sup>   | 1  | 11 118                           |
| B. Intensive care ward           | 75 575                           | i. Intensive care hospital beds <sup>a</sup>                                 | 2 beds   | 3 335                            |
|                                  |                                  | ii. Blood gas analyser <sup>a</sup>  | 1  | 10 759                           |
|                                  |                                  | iii. Resuscitation/monitoring equipment <sup>a</sup>                         |  |                                  |
|                                  |                                  | Trolley with drugs <sup>a</sup>  | 1 set  | 2 223                            |
|                                  |                                  | Defibrillator <sup>a</sup>   | 1 set  | 8 895                            |
|                                  |                                  | Ventilator <sup>a,f</sup>  | 2 sets   | 14 452                           |
|                                  |                                  | Intubation sets <sup>a</sup>   | 1 set  | 1 668                            |
|                                  |                                  | Infusion pump <sup>a,f</sup>   | 2 sets   | 10 005                           |
|                                  |                                  | Suction pump <sup>a</sup>  | 1 set  | 1 112                            |
|                                  |                                  | Multiline vital signs monitor <sup>a,f</sup>                                 | 2 sets   | 22 236                           |
|                                  |                                  | Oxygen cylinder with regulator <sup>a,f</sup>                                | 2 sets (2 cylinders in each set)               | 889                              |
| V. Support services              | 26 682                           | i. Cooking equipment <sup>a</sup>  | To cater to 20 inpatients                      | 22 235                           |
| A. Catering                      |                                  | Stoves <sup>a</sup>  |  |                                  |
|                                  |                                  | Ovens <sup>a</sup>   |  |                                  |
|                                  |                                  | Boilers <sup>a</sup>   |  |                                  |
|                                  |                                  | Cooking pots, pans, utensils, etc. <sup>a</sup>                              |  |                                  |
|                                  |                                  | ii. Serving equipment <sup>a</sup>   |  | 1 112                            |
|                                  |                                  | iii. Cooking equipment <sup>b</sup>  | To cater to hospital staff                     |                                  |
|                                  |                                  | Stoves <sup>b</sup>  |  |                                  |

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| <i>Facility</i>  | <i>Generic fair market value</i> | <i>Item</i>  | <i>Quantity</i>   | <i>Generic fair market value</i> |
|--|----------------------------------|--|-------------------|----------------------------------|
|  |                                  | Ovens <sup>b</sup>   |                   |                                  |
|  |                                  | Boilers <sup>b</sup>   |                   |                                  |
|  |                                  | Cooking pots, pans, utensils, etc. <sup>b</sup>  |                   |                                  |
|  |                                  | Serving equipment <sup>b</sup>   |                   |                                  |
|  |                                  | iv. Dishwashers <sup>a</sup>   | 1                 | 2 223                            |
|  |                                  | v. Cleaning equipment <sup>a</sup>   | 1 set             | 1 112                            |
|  |                                  | vi. Communal first aid kit <sup>b</sup>  | 1 kit             |                                  |
|  |                                  | vii. Fire extinguisher <sup>b</sup>  | 2                 |                                  |
| B. Laundry for hospital use  | 5 003                            | i. Washing machines <sup>a</sup>   | 2 machines        | 3 335                            |
|  |                                  | ii. Clothes dryer <sup>a</sup>   | 1 machine         | 1 668                            |
|  |                                  | iii. Detergents and supplies <sup>b</sup>  | Adequate          |                                  |
| C. Storage/supplies room   | 18 456                           | i. Storage shelves <sup>a</sup>  | Adequate quantity | 11 118                           |
|  |                                  | ii. Storage cupboards/cabinets <sup>a</sup>  |                   | 5 559                            |
|  |                                  | iii. Refrigerator <sup>a</sup>   |                   | 1 779                            |
| D. Maintenance   | 5 559                            | i. Equipment and tools for maintenance of equipment and infrastructure <sup>a</sup>                                  | 1 set             | 5 559                            |
|  |                                  | ii. Communal first aid kit <sup>b</sup>  | 1 kit             |                                  |
| E. Communications room   |                                  | i. Telephone <sup>b</sup>  | 2                 |                                  |
|  |                                  | ii. Internal telephone system <sup>b</sup>   | 1 system          |                                  |
|  |                                  | iii. Computer with email <sup>b</sup>  | 1 computer        |                                  |
|  |                                  | iv. Furniture and stationery <sup>b</sup>  | Adequate quantity |                                  |
|  |                                  | v. VHF/UHF radio for communication with forward medical teams <sup>b</sup>   | 1 radio           |                                  |
| F. Transportation<br>Two fully equipped ambulances will be reimbursed as major equipment under annex B to the memorandum of understanding  |                                  | i. Fully equipped ambulances <sup>a</sup>  | 2 ambulances      |                                  |
|  |                                  | Doctor's bag <sup>a</sup>  |                   |                                  |
|  |                                  | Oxygen cylinder with regulator <sup>a</sup>  |                   |                                  |
|  |                                  | Suction pump <sup>a</sup>  |                   |                                  |
|  |                                  | Resuscitation drugs <sup>a</sup>   |                   |                                  |
|  |                                  | Helicopter landing site marking equipment (smoke grenade or smoke device, luminous sticks/sheets, etc.) <sup>a</sup> |                   |                                  |
|  |                                  | Emergency lighting <sup>a</sup>  |                   |                                  |
|  |                                  | Communications equipment (VHF/UHF) <sup>a</sup>  |                   |                                  |
|  |                                  | Vehicle maintenance equipment <sup>a</sup>   |                   |                                  |
|  |                                  | Pulse oximeter <sup>b</sup>  |                   |                                  |
|  |                                  | Portable defibrillator <sup>b</sup>  |                   |                                  |
|  |                                  | ii. Communal first aid kit <sup>b</sup>  | 1 kit             |                                  |
| G. Generator room<br>Two sets of standby generators will be reimbursed as major equipment under annex B to the memorandum of understanding |                                  | i. Standby generators (>20 kVA) <sup>a</sup>   | 2                 |                                  |
|  |                                  | Maintenance equipment <sup>a</sup>   |                   |                                  |
|  |                                  | Communal first aid kit <sup>b</sup>  |                   |                                  |
|  |                                  | Fire extinguisher <sup>b</sup>   |                   |                                  |

## Chapter 3, annex C, appendix 5.1

| <i>Facility</i>   | <i>Generic fair market value</i> | <i>Item</i>  | <i>Quantity</i>                               | <i>Generic fair market value</i> |
|---|----------------------------------|--|---|----------------------------------|
| H. Fuel storage   |                                  | i. Fuel for generators <sup>b</sup>  | 1 week's supply                               |                                  |
|   |                                  | ii. Fire extinguishers <sup>b</sup>  | 2   |                                  |
| I. Staff room   |                                  | i. Lounge furniture <sup>b</sup>   | 1 set   |                                  |
|   |                                  | ii. Other furniture <sup>b</sup>   | Adequate                                      |                                  |
|   |                                  | iii. Coffeemaker/other beverage appliances <sup>b</sup>  | 1   |                                  |
| J. Water and sanitation. Will be reimbursed as major equipment under annex B to memorandum of understanding |                                  | i. Toilet facilities and sanitation system <sup>a</sup>  | Adequate for 20 inpatients and 50 outpatients |                                  |
|   |                                  | ii. Toilet facilities and sanitation system <sup>a</sup>   | Adequate for staff                            |                                  |
|   |                                  | iii. Shower facilities and system <sup>a</sup>   | For inpatients                                |                                  |
|   |                                  | iv. Water supply for hospital facilities, reverse osmosis <sup>a</sup>   | Adequate                                      |                                  |
|   |                                  | v. Refuse disposal facilities and system <sup>a</sup>  | Adequate                                      |                                  |
| K. Miscellaneous  | 44 478                           | i. Medical waste collection, including waste bags, containers and carts; posters, personal protective equipment, cleaning materials and handwashing facilities and systems for staff <sup>a,d</sup>  | Adequate                                      | 44 478                           |
|   |                                  | ii. Medical waste treatment/disposal system technology, including incinerators/pyrolytic ovens, autoclaves, hybrid autoclave systems, frictional heat treatment systems or equivalent <sup>a,d</sup> | Adequate                                      |                                  |
| <b>Total</b>  | <b>955 571</b>                   |  |   | <b>955 571</b>                   |

Note: From 1 July 2023 to 30 June 2024, the generic fair market value is \$931,757 and the wet lease reimbursement rate is \$20,266 (see footnote h).

<sup>a</sup> Reimbursed under major equipment.

<sup>b</sup> Reimbursed under self-sustainment.

<sup>c</sup> International Atomic Energy Agency Safety Standards Series No. SSG-46 (Radiation protection and safety in medical uses of ionizing radiation) are to be applied.

<sup>d</sup> United Nations Environment Programme, Compendium of Technologies for Treatment/Destruction of Healthcare Waste.

<sup>e</sup> For patient use.

<sup>f</sup> The increase in ventilators, infusion pumps, multiline vital signs monitors and oxygen cylinders with regulator from one set to two sets is mandatory from 1 July 2024.

<sup>g</sup> United Nations Environment Programme, Compendium of Technologies for Treatment/Destruction of Healthcare Waste.

<sup>h</sup> Mandatory as sets of 2 each from 1 July 2024.

## Appendix 6

## United Nations levels of medical support: level 3 (advanced field hospital) requirements and standards

| <i>Treatment capability</i>   | <i>Treatment capacity</i>                         | <i>Staffing requirement</i>                  | <i>Equipment requirement</i>                                   | <i>Infrastructure requirement</i>                        | <i>Reimbursement rate (per capita per month)</i> | <i>Remarks</i>   |
|---|---|--|--|--|--|--|
| Same as for level 2.<br>In addition:                                      | Up to 10 surgical operations per day              | 4x surgeons (minimum 1x orthopaedic surgeon) | Standard operating theatre fixtures and equipment <sup>a</sup> | 1. Hospital:   | Epidemiological low-risk areas                   | The level 3 facility must have the capability of forming small forward medical teams (1 doctor and 2 nurses/medics) with portable resuscitation equipment and portable supplies and consumables. |
| 1. Full multidiscipline surgical facilities with post-operative care      | Hospitalization of 50 patients at any one time    | 2x anaesthetists                             | Standard intensive care unit equipment <sup>a</sup>            | (a) Reception/administration                             | Level 3 <sup>b</sup>                             |  |
| 2. Full laboratory services   | Up to 30 days of hospitalization for each patient | 6x specialists                               |  | (b) 3x or 4x outpatient consultation rooms               |  |  |
| 3. Extended investigative radiological capabilities, including ultrasound | Up to 30 days of hospitalization for each patient | 4x physicians                                | Essential laboratory and radiography equipment <sup>a</sup>    | (c) 1x pharmacy  |  |  |
| 4. Full pharmaceutical services   | 50–60 outpatient consultations per day            | 1x dentist                                   | 2x dental chairs and equipment <sup>a</sup>                    | (d) 1x radiography room                                  |  |  |
| 5. Extended dental treatment that includes emergency dental surgery       | 10 dental consultations per day                   | 2x dental assistants                         |  | (e) 1x laboratory  |  |  |
|   | 20 X-rays and 40 laboratory tests per day         | 1x hygiene officer                           |  | (f) 1x dental treatment room (2 chairs)                  |  |  |
|   | Medical supplies for 60 days                      | 1x pharmacist                                |  | (g) Dental X-ray room                                    |  |  |
|   |   | 1x pharmacist assistant                      |  | (h) 1x emergency/resuscitation/anaesthesia/recovery room |  |  |
|   |   | 50 nursing staff:                            |  | (i) 2x operating theatres                                |  |  |
|   |   | 1x head nurse                                |  | (j) 1x sterilization room                                |  |  |
|   |   | 2x intensive care nurses                     |  | (k) 2x 25-bed wards (or any configuration of 50 beds)    |  |  |
|   |   | 4x operating theatre nurses                  |  | (l) 1- to 4-bed intensive care unit                      |  |  |
|   |   | 43x nurses/paramedics                        |  |  |  |  |
|   |   | 2x radiology assistants                      |  |  |  |  |
|   |   | 2x laboratory technicians                    |  |  |  |  |
|   |   | 14x maintenance and support staff            |  |  |  |  |
|   |   | <b>Total: 90 staff</b>                       |  |  |  |  |

| <i>Treatment capability</i> | <i>Treatment capacity</i> | <i>Staffing requirement</i> | <i>Equipment requirement</i> | <i>Infrastructure requirement</i>  | <i>Reimbursement rate (per capita per month)</i> | <i>Remarks</i> |
|-----------------------------|---------------------------|-----------------------------|------------------------------|--|--|----------------|
|                             |                           |                             |                              | 2. Support services<br>(a) Kitchen<br>(b) Laundry<br>(c) Supply storage facility<br>(d) Maintenance room<br>(e) Communications<br>(f) Transportation (ambulance/air evacuation)<br>(g) Generator room<br>(h) Fuel storage<br>(i) Staff room<br>(j) Water/sanitation/water disposal<br>3. Accommodation<br>(a) Tentage<br>(b) Containers<br>(c) Standard United Nations field mission accommodation |  |                |

*Notes:* Fully deployed advanced field hospital. Dependency as operationally defined. Of the four general surgeons, there should preferably be at least one with experience/training in performing craniotomies and one with experience/training in urology. The internists should preferably have specialized knowledge in cardiology and tropical medicine. Actual composition and number of level 3 medical personnel may vary depending on the operational requirements as agreed upon in the memorandum of understanding. Troop/police contributors must ensure that personnel required to meet the indicated staffing requirements, in accordance with the present appendix, are backfilled during periods of planned leave. During periods of unforeseen absence (e.g. compassionate or emergency leave), troop/police contributors are responsible for the continuous operational capability of the facility without degradation and for backfilling the required personnel within 72 hours. The personnel who backfill during periods of planned leave or unforeseen absence must meet the same technical clearance requirements as regular staff.

<sup>a</sup> See appendix 6.1 for a detailed equipment list.

<sup>b</sup> See chap. 8, annex B.

## Chapter 3, annex C, appendix 6.1

## Appendix 6.1

Level 3 medical facility<sup>1</sup>

(United States dollars)

| <i>Facility</i>                                 | <i>Generic<br/>fair market<br/>value</i> | <i>Item</i>   | <i>Quantity</i>      | <i>Generic<br/>fair market<br/>value</i> |
|---|--|---|----------------------|--|
| I.A. Outpatient services                        |  | i. Furniture <sup>b</sup>                                 | Adequate             |  |
|   |  | ii. Stationery/documentation <sup>b</sup>                 | Adequate             |  |
|   |  | iii. Computer/printer <sup>b</sup>                        |                      |  |
|   |  | iv. Telephone <sup>b</sup>                                | 2 lines              |  |
| B. Consultation rooms (4)<br>per room: \$12,431 | 49 725                                   | i. Desk and chairs <sup>b</sup>                           | 1 set per room       |  |
|   |  | ii. Examination couch <sup>a</sup>                        | 1 per room           | 5 338                                    |
|   |  | iii. Essential diagnostic equipment <sup>a</sup>          | 1 set per room       |  |
|   |  | Stethoscope <sup>a</sup>                                  |                      | 446                                      |
|   |  | Ophthalmoscope <sup>a</sup>                               |                      | 2 223                                    |
|   |  | Otoscope <sup>a</sup>                                     |                      | 2 223                                    |
|   |  | Electrocardiogram machine <sup>a</sup>                    |                      | 22 236                                   |
|   |  | Reflex mallet <sup>a</sup>                                |                      | 446                                      |
|   |  | Thermometers <sup>a</sup>                                 |                      | 223                                      |
|   |  | Sphygmomanometer <sup>a</sup>                             |                      | 446                                      |
|   |  | Gynaecological speculum <sup>a</sup>                      |                      | 1 334                                    |
|   |  | Proctoscope <sup>a</sup>                                  |                      | 1 334                                    |
|   |  | Measuring tape <sup>a</sup>                               |                      | 45                                       |
|   |  | Torch <sup>a</sup>  |                      | 90                                       |
|   |  | Examination lamp <sup>a</sup>                             |                      | 8 894                                    |
|   |  | Miscellaneous <sup>a</sup>                                |                      | 4 447                                    |
|   |  | iv. Documentation/stationery <sup>b</sup>                 | Adequate             |  |
| C. Pharmacy                                     | 8 448                                    | i. Refrigerator for drugs <sup>a</sup>                    | 2                    | 1 778                                    |
|   |  | ii. Refrigerator for blood/blood products <sup>a</sup>    | 2                    | 6 670                                    |
|   |  | Analgesics <sup>b</sup>                                   | Adequate quantity    |  |
|   |  | Antipyretics <sup>b</sup>                                 | and variety to       |  |
|   |  | Antibiotics <sup>b</sup>                                  | support 50–60        |  |
|   |  | Drugs for common respiratory conditions <sup>b</sup>      | outpatients per day  |  |
|   |  | Drugs for common gastrointestinal conditions <sup>b</sup> | for a period of      |  |
|   |  | Drugs for common musculoskeletal conditions <sup>b</sup>  | 60 days. The list of |  |
|   |  | Drugs for common cardiovascular conditions <sup>b</sup>   | drugs is contained   |  |
|   |  | Drugs for common gynaecological conditions <sup>b</sup>   | in the Medical       |  |
|   |  | Drugs for other common illnesses <sup>b</sup>             | Support Manual       |  |
|   |  | Resuscitation drugs, including narcotics <sup>b</sup>     |                      |  |
|   |  | Menstrual products (sanitary pads) <sup>b,e</sup>         |                      |  |

<sup>1</sup> A/C.5/68/22, annex 5.3, and A/C.5/71/20, annex 4.3.

## Chapter 3, annex C, appendix 6.1

| <i>Facility</i>  | <i>Generic fair market value</i> | <i>Item</i>   | <i>Quantity</i>                     | <i>Generic fair market value</i>                              |
|--|----------------------------------|---|-------------------------------------|---|
| D. Radiography room  | 186 038                          | i. Digital X-ray machine, including X-ray table and printer <sup>a</sup>  | 1                                   | 101 570   |
|  |                                  | ii. X-ray view box <sup>a</sup>   | 1                                   | 1 112   |
|  |                                  | iii. Protective equipment for staff and patients <sup>a,c</sup>   | 2 sets                              | 6 602   |
|  |                                  | iv. Ultrasound machine <sup>a</sup>   | 1                                   | 30 702  |
|  |                                  | v. Mobile digital X-ray machine <sup>a</sup>  | 1                                   | 46 052  |
| E. Laboratory  | 68 233                           | i. Digital haematology analyser <sup>a</sup>  | 2                                   | 11 408  |
|  |                                  | ii. Digital biochemistry analyser <sup>a</sup>  | 2                                   | 9 797   |
|  |                                  | iii. Kits for HIV and other blood tests <sup>b</sup>  | 5 kits each                         |   |
|  |                                  | iv. Microscope <sup>a</sup>   | 3                                   | 10 005  |
|  |                                  | v. Centrifuge <sup>a</sup>  | 2                                   | 6 670   |
|  |                                  | vi. Urinalysis kit <sup>b</sup>   | Adequate                            |   |
|  |                                  | vii. Incubator <sup>a</sup>   | 1                                   | 5 559   |
|  |                                  | viii. Lab supplies <sup>b</sup>   | Adequate                            |   |
|  |                                  | ix. Glucometer <sup>a</sup>   | 2                                   | 2 223   |
|  |                                  | x. Blood gas analyser <sup>a</sup>  | 1                                   | 10 759  |
|  |                                  | xi. Bacterial culture material <sup>b</sup>   | Adequate                            |   |
|  |                                  | xii. Refrigerator <sup>a</sup>  | 1                                   | 889   |
|  |                                  | xiii. Freezer <sup>a</sup>  | 1                                   | 3 335   |
|  |                                  | xiv. Cardiac troponin <sup>a</sup>  | 1 set (10 tests)                    | 86  |
|  |                                  | xv. Clotting profile analyser <sup>a</sup>  | 1                                   | 7 500   |
| II. Dental services<br>1 dental chair:<br>\$164,100<br>2 dental chairs:<br>\$267,052   | 267 052                          | i. Dental chair, electrical <sup>a</sup>  | 2                                   | 144 533   |
|  |                                  | ii. Equipment for treatment <sup>a</sup><br>Extraction <sup>a</sup><br>Filling <sup>a</sup><br>Other basic treatment <sup>a</sup> | Adequate for<br>10 patients per day | 6 670   |
|  |                                  | iii. Drilling unit <sup>a</sup>   | 2                                   | 44 471  |
|  |                                  | iv. Furniture <sup>b</sup>  | Adequate                            |   |
|  |                                  | v. Digital X-ray equipment <sup>a</sup>   | 1 set                               | 44 471  |
|  |                                  | vii. Protective equipment <sup>a,c</sup>  | 4 sets                              | 10 230  |
|  |                                  | viii. Dental sterilizer <sup>a</sup>  | 1                                   | 16 677  |
|  |                                  | III.A. Surgery/<br>anaesthesia,<br>emergency room<br>and recovery<br>Without<br>duplication:<br>\$79,572                          | 159 143                             | i. Desk and chairs <sup>b</sup>                               |
| ii. Examination couch <sup>a</sup>   | 3                                |   |                                     | 4 003   |
| iii. Essential diagnostic equipment <sup>a</sup><br>Stethoscope <sup>a</sup><br>Ophthalmoscope <sup>a</sup><br>Otoscope <sup>a</sup><br>Electrocardiogram machine <sup>a</sup><br>Reflex mallet <sup>a</sup><br>Thermometers <sup>a</sup><br>Sphygmomanometer <sup>a</sup><br>Gynaecological speculum <sup>a</sup> | 3 sets                           |   |                                     | 334<br>1 668<br>1 668<br>16 677<br>334<br>167<br>334<br>1 001 |

## Chapter 3, annex C, appendix 6.1

| Facility   | Generic fair market value | Item  | Quantity   | Generic fair market value |
|--|---------------------------|---|--|---------------------------|
|  |                           | Proctoscope <sup>a</sup>  |  | 1 001                     |
|  |                           | Measuring tape <sup>a</sup>   |  | 34                        |
|  |                           | Torch <sup>a</sup>  |  | 67                        |
|  |                           | Examination lamp <sup>a</sup>   |  | 6 670                     |
|  |                           | Miscellaneous <sup>a</sup>  |  | 3 335                     |
|  |                           | iv. X-ray viewers   | 3  | 3 335                     |
|  |                           | v. Minor treatment/dressing set <sup>b</sup>  | Adequate   |                           |
|  |                           | vi. Resuscitation trolley (fully equipped) <sup>a</sup>   | 2  | 4 447                     |
|  |                           | vii. Intubation sets  | 4 sets   | 6 670                     |
|  |                           | viii. Coniotomy set <sup>a</sup>  | 4 sets   | 2 223                     |
|  |                           | ix. Electrocardiogram machine <sup>a</sup>  | 2 sets   | 11 117                    |
|  |                           | x. Defibrillator <sup>a</sup>   | 2 sets   | 17 789                    |
|  |                           | xi. Portable ventilator/oxygen cylinder <sup>a</sup>  | 2 sets   | 14 452                    |
|  |                           | xii. Pulse oximeter <sup>a</sup>  | 2 sets   | 6 670                     |
|  |                           | xiii. Suction unit <sup>a</sup>   | 2 sets   | 2 223                     |
|  |                           | xiv. Nebulizer <sup>a</sup>   | 2 sets   | 446                       |
|  |                           | xv. Backboards/vacuum mattress <sup>a</sup>   | 4 sets   | 15 564                    |
|  |                           | xvi. Excision/suture sets <sup>a</sup>  | 6 sets   | 10 674                    |
|  |                           | xvii. Perfusion stands <sup>a</sup>   | 4–6 sets   | 1 334                     |
|  |                           | xviii. Sets for chest tube insertion, catheterization and venesection <sup>a</sup>  | 4 sets each  | 2 669                     |
|  |                           | xix. Anaesthetic gas supply system <sup>a</sup>   | To support up to 10 operations per day                     | 22 235                    |
|  |                           | xx. Drugs and consumables for induction of anaesthesia (including local and regional anaesthesia) and post-operation recovery |  |                           |
| B. Operating theatres (2)<br>1 operating theatre:<br>\$176,838 | 353 676                   | i. Operating tables <sup>a</sup>  | 1 per operating theatre                                    | 31 130                    |
|  |                           | ii. Operating theatre lamps <sup>a</sup>  | 2 per operating theatre                                    | 26 683                    |
|  |                           | iii. Anaesthesia machine <sup>a</sup>   | 1 per operating theatre                                    | 111 177                   |
|  |                           | iv. Oxygen and anaesthetic gases <sup>b</sup>   | Essential  |                           |
|  |                           | v. Diathermy machine <sup>a</sup>   | 1 per operating theatre                                    | 17 789                    |
|  |                           | vi. Suction unit for body fluids <sup>a</sup>   | 1 per operating theatre                                    | 8 894                     |
|  |                           | vii. Laparotomy sets <sup>a</sup>   | Sufficient quantity to support up to 10 operations per day | 30 575                    |
|  |                           | viii. Thoracotomy sets <sup>a</sup>   |  |                           |
|  |                           | ix. Craniotomy sets <sup>a</sup>  |  |                           |
|  |                           | x. Wound exploration sets <sup>a</sup>  |  |                           |
|  |                           | xi. Sets for amputations <sup>a</sup>   |  |                           |
|  |                           | xii. Fracture fixation sets and fixation equipment <sup>a</sup>   |  |                           |
|  |                           | xiii. Appendectomy and general-purpose sets <sup>a</sup>  |  |                           |

## Chapter 3, annex C, appendix 6.1

| Facility                | Generic fair market value | Item   | Quantity                                 | Generic fair market value |
|-------------------------|---------------------------|--|--|---------------------------|
|                         |                           | xiv. Disinfection equipment <sup>a</sup>                                     | Adequate                                 | 8 894                     |
|                         |                           | xv. Resuscitation/monitoring equipment                                       | 1 set per operating theatre              | 4 447                     |
|                         |                           | Trolley with drugs <sup>a</sup>  |  | 17 789                    |
|                         |                           | Defibrillator <sup>a</sup>   |  | 14 452                    |
|                         |                           | Ventilator <sup>a</sup>  |  | 3 335                     |
|                         |                           | Intubation sets <sup>a</sup>   |  | 10 005                    |
|                         |                           | Infusion pump <sup>a</sup>   |  | 2 223                     |
|                         |                           | Suction pump <sup>a</sup>  |  | 6 670                     |
|                         |                           | Pulse oximeter <sup>a</sup>  |  | 889                       |
|                         |                           | Oxygen cylinder with regulator <sup>a</sup>                                  | 2 per operating theatre                  |                           |
|                         |                           | xvi. Patient transport and transfer trolley <sup>a</sup>                     | 2 per operating theatre                  | 15 564                    |
|                         |                           | xvii. Surgical consumables <sup>b</sup>                                      | To support up to 10 operations per day   |                           |
|                         |                           | xviii. Mobile C-arm fluoroscope <sup>a</sup>                                 | 1 shared between both operating theatres | 40 935                    |
|                         |                           | xix. X-ray view box <sup>a</sup>   | 2 shared between both operating theatres | 2 223                     |
| C. Sterilization room   | 116 514                   | i. Autoclave sterilizer <sup>a</sup>   | 2  | 88 943                    |
| 1 room: \$59,814        |                           | ii. Boiler <sup>a</sup>  | 2  | 8 894                     |
|                         |                           | iii. Disinfection equipment <sup>a</sup>                                     | 2 sets                                   | 15 564                    |
|                         |                           | iv. Furniture and supplies <sup>b</sup>                                      | Adequate                                 |                           |
|                         |                           | v. Machine for cleansing surgical instruments <sup>a</sup>                   | 1 or 2                                   | 3 113                     |
| IV.A. Wards             | 110 732                   | i. Collapsible multipurpose hospital beds <sup>a</sup>                       | 50 beds (25 per ward)                    | 55 588                    |
|                         |                           | ii. Orthopaedic traction equipment <sup>a</sup>                              | 4 sets per ward                          | 21 345                    |
|                         |                           | iii. Mini dispensary (trolley) <sup>a</sup>                                  | 1 per ward                               | 5 335                     |
|                         |                           | iv. Essential medical supplies and equipment for inpatient care <sup>b</sup> | Adequate for number of beds              |                           |
|                         |                           | v. Furniture, office supplies, etc. <sup>b</sup>                             | Adequate                                 |                           |
|                         |                           | vi. Crutches <sup>a</sup>  | 8 sets per ward                          | 891                       |
|                         |                           | vii. Wheelchairs <sup>a</sup>  | 4 sets per ward                          | 5 336                     |
|                         |                           | viii. Cloth patients <sup>a</sup>  | 2 sets per ward                          | 22 236                    |
| B. Intensive care wards | 140 391                   | i. Intensive care hospital beds <sup>a</sup>                                 | 4 beds                                   | 6 670                     |
| per 2 beds: \$36,900    |                           | ii. Blood gas analyser <sup>a</sup>  | 1  | 10 759                    |
|                         |                           | iii. Resuscitation/monitoring equipment                                      | 2 sets                                   |                           |
|                         |                           | Trolley with drugs <sup>a</sup>  |  | 4 447                     |
|                         |                           | Defibrillator <sup>a</sup>   | 2 sets                                   | 17 789                    |
|                         |                           | Ventilator <sup>a,f</sup>  | 4 sets                                   | 28 905                    |
|                         |                           | Intubation sets <sup>a</sup>   | 2 sets                                   | 3 335                     |
|                         |                           | Infusion pump <sup>a,f</sup>   | 4 sets                                   | 20 011                    |

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| <i>Facility</i>  | <i>Generic fair market value</i> | <i>Item</i>   | <i>Quantity</i>                  | <i>Generic fair market value</i> |
|--|----------------------------------|---|----------------------------------|----------------------------------|
|  |                                  | Suction pump <sup>a</sup>   | 2 sets                           | 2 223                            |
|  |                                  | Multiline vital signs monitor <sup>a,f</sup>  | 4 sets                           | 44 473                           |
|  |                                  | Oxygen cylinder with regulator <sup>a,f</sup>   | 4 sets (2 cylinders in each set) | 1 778                            |
| V.A. Support services  | 65 038                           | i. Cooking equipment <sup>a</sup>   | To cater to 50 inpatients        | 55 588                           |
|  |                                  | Stoves <sup>a</sup>   |                                  |                                  |
|  |                                  | Ovens <sup>a</sup>  |                                  |                                  |
|  |                                  | Boilers <sup>a</sup>  |                                  |                                  |
|  |                                  | Cooking pots, pans, utensils, etc. <sup>a</sup>   |                                  |                                  |
|  |                                  | ii. Serving equipment <sup>a</sup>  |                                  | 2 779                            |
|  |                                  | iii. Cooking equipment <sup>b</sup>   | To cater to hospital staff       |                                  |
|  |                                  | Stoves <sup>b</sup>   |                                  |                                  |
|  |                                  | Ovens <sup>b</sup>  |                                  |                                  |
|  |                                  | Boilers <sup>b</sup>  |                                  |                                  |
|  |                                  | Cooking pots, pans, utensils, etc. <sup>b</sup>   |                                  |                                  |
|  |                                  | Serving equipment <sup>b</sup>  |                                  |                                  |
|  |                                  | iv. Dishwashers <sup>a</sup>  | 2                                | 4 447                            |
|  |                                  | v. Cleaning equipment <sup>a</sup>  | 2 sets                           | 2 223                            |
|  |                                  | vi. Communal first aid kit <sup>b</sup>   | 1                                |                                  |
|  |                                  | viii. Fire extinguisher <sup>b</sup>  | 2                                |                                  |
| B. Laundry for hospital use  | 8 338                            | i. Washing machines <sup>a</sup>  | 3 machines                       | 5 003                            |
|  |                                  | ii. Clothes dryer <sup>a</sup>  | 2 machines                       | 3 335                            |
|  |                                  | iii. Detergents and supplies <sup>b</sup>   | Adequate                         |                                  |
| C. Storage/supplies room   | 27 683                           | i. Storage shelves <sup>a</sup>   | Adequate                         | 16 677                           |
|  |                                  | ii. Storage cupboards/cabinets <sup>a</sup>   | Adequate                         | 8 338                            |
|  |                                  | iii. Refrigerator <sup>a</sup>  | 2 or 3                           | 2 668                            |
| D. Maintenance   | 11 117                           | i. Equipment and tools for maintenance of equipment and infrastructure <sup>a</sup>                                   | 2 sets                           | 11 117                           |
|  |                                  | ii. Communal first aid kit <sup>b</sup>   | 1 kit                            |                                  |
| E. Communications room   |                                  | i. Telephone <sup>b</sup>   | 2                                |                                  |
|  |                                  | ii. Internal telephone system <sup>b</sup>  | 1                                |                                  |
|  |                                  | iii. Computer with e-mail <sup>b</sup>  | 1                                |                                  |
|  |                                  | iv. Furniture and stationery <sup>b</sup>   | Adequate                         |                                  |
|  |                                  | v. VHF/UHF communications with link to commanding officer and forward medical teams <sup>b</sup>                      | 1                                |                                  |
| F. Transportation  |                                  | i. Fully equipped ambulances <sup>a</sup>   | 2 ambulances                     |                                  |
| Two fully equipped ambulances will be reimbursed as major equipment under annex B to the memorandum of understanding |                                  | Doctor's bag <sup>a</sup>   |                                  |                                  |
|  |                                  | Oxygen cylinder with regulator <sup>a</sup>   |                                  |                                  |
|  |                                  | Suction pump <sup>a</sup>   |                                  |                                  |
|  |                                  | Resuscitation drugs <sup>a</sup>  |                                  |                                  |
|  |                                  | Helicopter landing site marking equipment (smoke grenade or smoke device, luminous sticks, sheets, etc.) <sup>a</sup> |                                  |                                  |

## Chapter 3, annex C, appendix 6.1

| <i>Facility</i>   | <i>Generic<br/>fair market<br/>value</i> | <i>Item</i>  | <i>Quantity</i>                    | <i>Generic<br/>fair market<br/>value</i> |
|---|--|--|------------------------------------|--|
|   |  | Emergency lighting <sup>a</sup>  |                                    |  |
|   |  | Pulse oximeter <sup>a</sup>  |                                    |  |
|   |  | Portable defibrillator <sup>a</sup>  |                                    |  |
|   |  | Communications equipment (VHF/UHF) <sup>a</sup>  |                                    |  |
|   |  | Vehicle maintenance equipment <sup>a</sup>   |                                    |  |
|   |  | ii. Communal first aid kit <sup>b</sup>  | 1 kit                              |  |
| G. Generator room   |  | i. Standby generator (>20 kVA) <sup>a</sup>  | 3                                  |  |
| Three sets of standby generators will be reimbursed as major equipment under annex B to the memorandum of understanding |  | Maintenance equipment <sup>a</sup>   |                                    |  |
|   |  | Communal first aid kit <sup>b</sup>  |                                    |  |
|   |  | Fire extinguisher <sup>b</sup>   |                                    |  |
| H. Fuel storage   |  | i. Fuel for generators <sup>b</sup>  | 1 week's supply                    |  |
|   |  | ii. Fire extinguishers <sup>b</sup>  | 2                                  |  |
| I. Staff room   |  | i. Lounge furniture <sup>b</sup>   | 1 set                              |  |
|   |  | ii. Other furniture <sup>b</sup>   | Adequate                           |  |
|   |  | iii. Coffeemaker/other beverage appliances <sup>b</sup>  | 1                                  |  |
| J. Water and sanitation.  |  | i. Toilet facilities and sanitation system <sup>a</sup>  | For 50 inpatients + 50 outpatients |  |
| Will be reimbursed as major equipment under annex B to the memorandum of understanding                                  |  | ii. Toilet facilities and sanitation system <sup>a</sup>   | Adequate for staff                 |  |
|   |  | iii. Shower facilities and system <sup>a</sup>   | For inpatients                     |  |
|   |  | iv. Refuse disposal facilities and system <sup>a</sup>   | Adequate                           |  |
|   |  | v. Water supply for hospital facilities, reverse osmosis <sup>a</sup>  | Adequate                           |  |
| K. Miscellaneous  | 44 478                                   | i. Medical waste collection, including waste bags, containers and carts; posters, personal protective equipment, cleaning materials and handwashing facilities and systems for staff <sup>a,d</sup>  | Adequate                           | 44 478                                   |
|   |  | ii. Medical waste treatment/disposal system technology, including incinerators/pyrolytic ovens, autoclaves, hybrid autoclave systems, frictional heat treatment systems or equivalent <sup>a,d</sup> | Adequate                           |  |
| <b>Total</b>  | <b>1 616 604</b>                         |  |                                    | <b>1 616 604</b>                         |

<sup>a</sup> Reimbursed under self-sustainment.

<sup>b</sup> Reimbursed under major equipment as a part of level III reimbursement rate.

<sup>c</sup> International Atomic Energy Agency Safety Standards Series No. SSG-46 (Radiation protection and safety in medical uses of ionizing radiation) are to be applied.

<sup>d</sup> United Nations Environment Programme, *Compendium of Technologies for Treatment/Destruction of Healthcare Waste*.

<sup>e</sup> For patient use.

<sup>f</sup> The increase in ventilators, infusion pumps, multiline vital signs monitors and oxygen cylinders with regulators from one set to four sets is mandatory from 1 July 2024.

## Chapter 3, annex C, appendix 7

## Appendix 7

### United Nations levels of medical support: light mobile surgical module requirements and standards

| <i>Treatment capability</i>   | <i>Treatment capacity</i>  | <i>Staffing requirement</i>   | <i>Equipment requirement</i>              | <i>Infrastructure requirement</i>   | <i>Reimbursement rate (per capita per month)</i> | <i>Remarks</i>   |
|---|--|---|---|---|--|--|
| Damage control resuscitation, including damage control surgery, including: <ul style="list-style-type: none"> <li>(a) Thoracotomy;</li> <li>(b) Laparotomy;</li> <li>(c) Cranial decompression;</li> <li>(d) Amputation</li> <li>(e) External fixation of limb fracture</li> </ul> This list is not exhaustive, and procedures required to be done will depend on the actual scenario | Up to 6 surgical operations per day.<br>Simultaneously: <ul style="list-style-type: none"> <li>(a) Resuscitate two casualties;</li> <li>(b) Perform 1 surgical case;</li> <li>(c) Hold 2 intensive care patients;</li> <li>(d) Hold 2 high-dependency post-operative patients</li> </ul> 20 X-rays per day | 1 doctor – emergency medicine specialist<br>1 doctor – intensivist<br>1 general surgeon<br>1 orthopaedic surgeon<br>1 anaesthetist<br>2 nurses – operating theatre<br>2 nurses – emergency care<br>2 nurses – intensive care<br>4 nurses/medical assistants<br>1 radiographer<br>1 technician (generator set, power distribution and environmental system)<br>3 general duty staff <sup>a</sup> | Light mobile surgical module <sup>b</sup> | 1 resuscitation area with 2 resuscitation stations/bays<br><br>1 operating theatre with 1 table<br><br>1 holding area with: <ul style="list-style-type: none"> <li>(a) 2 intensive care beds;</li> <li>(b) 2 medium/high-dependency beds</li> </ul> | See chap. 8, annex B                             | The lightweight surgical facility is structured and equipped for rapid deployment and redeployment |
| Anaesthesia (general and regional), draw over and intravenous   | Medical supplies for 28 surgical procedures, including pre- and post-operative care  |   |   |   |  |  |
| Advanced life support and intensive care  |  |   |   |   |  |  |
| Clinician-operated basic lab capability for trauma-focused: <ul style="list-style-type: none"> <li>(a) Biochemistry;</li> <li>(b) Haematology.</li> </ul> Basic diagnostic medical imaging: <ul style="list-style-type: none"> <li>(a) Digital X-ray;</li> <li>(b) Sonography.</li> </ul>   |  |   |   |   |  |  |

<sup>a</sup> These personnel may be added at the discretion of the contributing country and will be eligible for reimbursement under chap. 9, annex A (Personnel), based on memorandum of understanding negotiations.

<sup>b</sup> See appendix 7.1 for a detailed list of items in the light mobile surgical module.

## Chapter 3, annex C, appendix 7.1

## Appendix 7.1

## Light mobile surgical module

(United States dollars)

| <i>Facility</i>       | <i>Generic fair market value</i> | <i>Item</i>  | <i>Quantity</i> | <i>Generic fair market value</i> |
|-----------------------|----------------------------------|--|-----------------|----------------------------------|
| A. Resuscitation area | 222 002                          | Stethoscope <sup>a</sup>   | 2               | 223                              |
|                       |                                  | Portable electrically driven blood storage cooling box <sup>a,f,g</sup>  | 1               | 750                              |
|                       |                                  | Reflex mallet <sup>a</sup>   | 1               | 112                              |
|                       |                                  | Thermometer, tympanic, battery powered <sup>a</sup>  | 1               | 102                              |
|                       |                                  | Combined ophthalmoscope and otoscope <sup>a</sup>  | 1               | 711                              |
|                       |                                  | Patient monitor – combined function: electrocardiogram, pulse, respiratory rate; pulse oximeter; blood pressure; defibrillator; capnography <sup>a</sup> | 2               | 35 143                           |
|                       |                                  | Laryngoscope with selection of adult and paediatric blades <sup>a</sup>  | 2               | 1 503                            |
|                       |                                  | Bag valve mask with PEEP valve for hospital use <sup>a</sup>   | 2               | 609                              |
|                       |                                  | Transport ventilator, lightweight, with wave form display for field use with extended battery life (< 8 hours) <sup>a</sup>                              | 2               | 40 628                           |
|                       |                                  | Oxygen cylinder with regulator <sup>a</sup>  | 2               | 444                              |
|                       |                                  | Suction unit, lightweight with rechargeable battery <sup>a</sup>   | 2               | 2 031                            |
|                       |                                  | Intraosseous drill <sup>a</sup>  | 1               | 813                              |
|                       |                                  | Dual-channel infusion pump <sup>a</sup>  | 2               | 10 005                           |
|                       |                                  | Stretcher, collapsible with adjustable intravenous infusion pole <sup>a</sup>  | 12              | 6 094                            |
|                       |                                  | Wheeled stretcher/litter carrier <sup>a</sup>  | 2               | 2 742                            |
|                       |                                  | Intravenous fluid pressure cuff – 500 ml <sup>a</sup>  | 2               | 102                              |
|                       |                                  | Intravenous fluid pressure cuff – 1,000 ml <sup>a</sup>  | 2               | 132                              |
|                       |                                  | Intravenous fluid warmer (disposable type) <sup>a</sup>  | 2               | 2 742                            |
|                       |                                  | Portable sonography machine (laptop type) <sup>a</sup>   | 1               | 40 628                           |
|                       |                                  | Mobile digital X-ray machine for field use with digital X-ray viewer plate <sup>a</sup>  | 1               | 46 052                           |
|                       |                                  | X-ray lead apron <sup>a,b</sup>  | 4               | 508                              |
|                       |                                  | Junctional tourniquet <sup>a</sup>   | 1               | 366                              |
|                       |                                  | Femoral traction splint <sup>a</sup>   | 4               | 1 747                            |
|                       |                                  | Portable refrigerator, 30 litre, mains and rechargeable battery powered with extended battery life (< 8 hours) <sup>a</sup>                              | 2               | 2 031                            |
|                       |                                  | Multifunctional handheld blood analyser: biochemistry, haematology <sup>a</sup>  | 1               | 13 814                           |
|                       |                                  | Resuscitation box, lightweight for field use <sup>a</sup>  | 2               | 3 453                            |
|                       |                                  | Cut down set <sup>a</sup>  | 2               | 406                              |
|                       |                                  | Head torch, battery operated; 1,000 lumens <sup>a</sup>  | 6               | 609                              |
|                       |                                  | Suture sets – disposable <sup>c</sup>  | 10              |                                  |
|                       |                                  | Coniotomy set – disposable <sup>c</sup>  | 5               |                                  |
|                       |                                  | Chest drain set – disposable <sup>c</sup>  | 10              |                                  |

## Chapter 3, annex C, appendix 7.1

| <i>Facility</i>      | <i>Generic fair market value</i> | <i>Item</i>  | <i>Quantity</i>                                | <i>Generic fair market value</i> |
|----------------------|----------------------------------|--|--|----------------------------------|
|                      |                                  | Endotracheal tubes and laryngeal masks: selection of adult and paediatric sizes – disposable <sup>c</sup>  | Up to 28 intubations in 7 days                 |                                  |
|                      |                                  | Drugs for resuscitation (including narcotics) and analgesia <sup>c</sup>   | Up to 28 pre-operation/ resuscitation cases    |                                  |
|                      |                                  | Drugs for basic primary health care <sup>c</sup>   |  |                                  |
|                      |                                  | Consumables for intravenous infusers, syringe pumps, intraosseous devices, blood warmers etc. <sup>c</sup>   |  |                                  |
|                      |                                  | Clotting profile analyser <sup>a</sup>   | 1  | 7 500                            |
| B. Operating theatre | 138 532                          | Scrub sink, collapsible <sup>a</sup>   | 2  | 2 539                            |
|                      |                                  | Stethoscope <sup>a</sup>   | 2  | 223                              |
|                      |                                  | Laryngoscope with selection of adult and paediatric blades <sup>a</sup>  | 1  | 752                              |
|                      |                                  | Bag valve mask with PEEP valve for hospital use <sup>a</sup>   | 1  | 305                              |
|                      |                                  | Anaesthetic machine, lightweight, for field use <sup>a</sup>   | 1  | 13 407                           |
|                      |                                  | Patient monitor – combined function: electrocardiogram, pulse, respiratory rate; pulse oximeter; blood pressure; defibrillator; capnography <sup>a</sup> | 1  | 17 572                           |
|                      |                                  | Resuscitation box, lightweight, for field use <sup>a</sup>   | 1  | 1 727                            |
|                      |                                  | Dual-channel infusion pump <sup>a</sup>  | 1  | 5 003                            |
|                      |                                  | Syringe driver – multiple syringe size <sup>a</sup>  | 2  | 6 094                            |
|                      |                                  | Intraosseous drill <sup>a</sup>  | 1  | 813                              |
|                      |                                  | Intravenous fluid pressure cuff – 500 ml <sup>a</sup>  | 2  | 102                              |
|                      |                                  | Intravenous fluid pressure cuff – 1,000 ml <sup>a</sup>  | 2  | 132                              |
|                      |                                  | Intravenous fluid warmer (disposable type) <sup>a</sup>  | 1  | 1 371                            |
|                      |                                  | Suction unit for body fluids – operation theatre <sup>a</sup>  | 1  | 4 447                            |
|                      |                                  | Diathermy machine <sup>a</sup>   | 1  | 8 895                            |
|                      |                                  | Surgical tourniquet – bilateral, with pressure infuser <sup>a</sup>  | 1  | 1 422                            |
|                      |                                  | Field operating table – collapsible, with 2 integral intravenous poles, instrument tray, arm rests and integral operating theatre light <sup>a</sup>     | 1  | 29 963                           |
|                      |                                  | Autoclave, lightweight, for field use <sup>a</sup>   | 1  | 20 314                           |
|                      |                                  | Oxygen cylinder with regulator <sup>a</sup>  | 2  | 444                              |
|                      |                                  | Cut down set <sup>a</sup>  | 2  | 406                              |
|                      |                                  | Multiple external fixation kit <sup>a</sup>  | 4  | 6 094                            |
|                      |                                  | Set, basic surgery, instruments (ICRC) <sup>a,d</sup>  | Quantity to support up to 6 operations per day | 15 899                           |
|                      |                                  | Set, vascular, complimentary, instruments (ICRC) <sup>a,d</sup>  |  |                                  |
|                      |                                  | Set, basic bone surgery, complementary, instruments (ICRC) <sup>a,d</sup>  |  |                                  |
|                      |                                  | Set, laparotomy (ICRC) <sup>a,d</sup>  |  |                                  |
|                      |                                  | Set, craniotomy, complementary, instruments (ICRC) <sup>a,d</sup>  |  |                                  |
|                      |                                  | Set, amputation, instruments (ICRC) <sup>a,d</sup>   |  |                                  |
|                      |                                  | Head torch, battery operated; 1,000 lumens <sup>a</sup>  | 6  | 609                              |
|                      |                                  | Endotracheal tubes and laryngeal masks: selection of adult and paediatric sizes – disposable <sup>c</sup>  | Up to 28 intubations                           |                                  |

## Chapter 3, annex C, appendix 7.1

| <i>Facility</i>   | <i>Generic fair market value</i> | <i>Item</i>  | <i>Quantity</i>         | <i>Generic fair market value</i> |
|-------------------|----------------------------------|--|-------------------------|----------------------------------|
|                   |                                  | Drugs for anaesthesia care <sup>c</sup>  | Up to 28 surgical cases |                                  |
|                   |                                  | Consumables for intravenous infusers, syringe pumps, intraosseous devices, blood warmers, etc. <sup>c</sup>  |                         |                                  |
| C. Holding area   | 157 685                          | Stethoscope <sup>a</sup>   | 2                       | 223                              |
|                   |                                  | Combined ophthalmoscope and otoscope <sup>a</sup>  | 1                       | 711                              |
|                   |                                  | Thermometer, tympanic, battery-powered <sup>a</sup>  | 1                       | 102                              |
|                   |                                  | Laryngoscope with selection of adult and paediatric blades <sup>a</sup>  | 1                       | 752                              |
|                   |                                  | Bag valve mask with PEEP valve for hospital use <sup>a</sup>   | 1                       | 305                              |
|                   |                                  | Suction unit, lightweight with rechargeable battery <sup>a</sup>   | 2                       | 2 031                            |
|                   |                                  | Field hospital bed – lightweight, collapsible – intensive care <sup>a</sup>  | 2                       | 2 539                            |
|                   |                                  | Field hospital bed – lightweight, collapsible – general use <sup>a</sup>   | 2                       | 1 117                            |
|                   |                                  | Resuscitation box, lightweight, for field use <sup>a</sup>   | 1                       | 1 727                            |
|                   |                                  | Patient monitor – combined function: electrocardiogram, pulse, respiratory rate; pulse oximeter; blood pressure; defibrillator; capnography <sup>a</sup> | 2                       | 35 143                           |
|                   |                                  | Dual-channel infusion pump <sup>a</sup>  | 2                       | 10 005                           |
|                   |                                  | Syringe driver – multiple syringe size <sup>a</sup>  | 2                       | 6 094                            |
|                   |                                  | Transport ventilator, lightweight, with wave form display for field use with extended battery life (< 8 hours) <sup>a</sup>                              | 2                       | 40 628                           |
|                   |                                  | Multifunctional handheld blood analyser: haematology and biochemistry <sup>a</sup>   | 1                       | 13 814                           |
|                   |                                  | Portable oxygen generation system, not less than 30 litres per minute, with cylinder refilling capability <sup>a</sup>                                   | 1                       | 41 644                           |
|                   |                                  | Oxygen cylinder with regulator <sup>a</sup>  | 2                       | 444                              |
|                   |                                  | Head torch, battery operated; 1,000 lumens <sup>a</sup>  | 4                       | 406                              |
|                   |                                  | Endotracheal tubes and laryngeal masks: selection of adult and paediatric sizes – disposable <sup>c</sup>  | Up to 28 intubations    |                                  |
|                   |                                  | Drugs for resuscitation (including narcotics) and analgesia  | Up to 28 surgical cases |                                  |
|                   |                                  | Consumables for intravenous infusers, syringe pumps, intraosseous devices, blood warmers, etc. <sup>c</sup>  |                         |                                  |
| D. Infrastructure | 92 429                           | Furniture <sup>c</sup>   | Adequate                |                                  |
|                   |                                  | Stationery/documentation <sup>c</sup>  | Adequate                |                                  |
|                   |                                  | Computer/printer <sup>c</sup>  | 1                       |                                  |
|                   |                                  | VHF/UHF radio <sup>c</sup>   | 1                       |                                  |
|                   |                                  | Soft shelter, lightweight, for rapid assembly, medium (approx. 4 x 6.5 m) <sup>a</sup>   | 3                       | 45 707                           |
|                   |                                  | Soft shelter, lightweight, for rapid assembly, small (approx. 4 x 4 m) <sup>a</sup>  | 1                       | 10 157                           |
|                   |                                  | Generator 15 kVA – lightweight, for field use <sup>a</sup>   | 1                       | 10 157                           |
|                   |                                  | Power distribution and lighting set <sup>a</sup>   | 1                       | 8 633                            |
|                   |                                  | Environmental control system <sup>a</sup>  | 1                       | 14 728                           |
|                   |                                  | Stackable equipment storage boxes, medium (approx. 1 x 0.45 x 0.45 m) <sup>a</sup>   | 10                      | 1 524                            |

## Chapter 3, annex C, appendix 7.1

| <i>Facility</i>                | <i>Generic fair market value</i> | <i>Item</i>  | <i>Quantity</i>                       | <i>Generic fair market value</i> |
|--------------------------------|----------------------------------|--|---------------------------------------|----------------------------------|
|                                |                                  | Stackable equipment storage boxes, small (approx. 0.5 x 0.45 x 0.45 m) <sup>a</sup>  | 15                                    | 1 524                            |
|                                |                                  | Portable water storage <sup>c</sup>  | 48 hours' supply                      |                                  |
|                                |                                  | Portable fuel storage <sup>c</sup>   | 48 hours' supply                      |                                  |
|                                |                                  | Food storage and water heating for meals ready to eat or combat rations <sup>c</sup> | 7 days' supply for up to 16 personnel |                                  |
|                                |                                  | Tentage with field beds for staff accommodation <sup>c</sup>                         | Adequate for 16 personnel             |                                  |
| E. Waste disposal              |                                  | Waste collection, treatment/disposal <sup>a,e</sup>                                  | 1                                     |                                  |
| F. Helicopter landing site kit |                                  | Helicopter landing site kit <sup>a</sup>   | 1 set                                 |                                  |
| <b>Total</b>                   | <b>610 648</b>                   |  | <b>610 648</b>                        |                                  |

*Abbreviation:* ICRC, International Committee of the Red Cross.

<sup>a</sup> Reimbursed under major equipment.

<sup>b</sup> International Atomic Energy Agency Safety Standards Series No. SSG-46 (Radiation protection and safety in medical uses of ionizing radiation) are to be applied.

<sup>c</sup> Reimbursed under self-sustainment.

<sup>d</sup> Instruments to comply with International Committee of the Red Cross minimum set.

<sup>e</sup> To be negotiated separately as a special case in accordance with the Environmental Policy for Peacekeeping operations and field-based Special Political Missions and the *Compendium of Technologies for Treatment/Destruction of Healthcare Waste*.

<sup>f</sup> Effective from 1 January 2024.

<sup>g</sup> Able to hold a temperature of 2°C to 6°C (36°F to 43°F) in any environment, even an austere one, for a minimum 48 hours.

## Chapter 3, annex C, appendix 8

## Appendix 8

Laboratory-only facility<sup>1</sup>

(United States dollars)

| <i>Facility</i> | <i>Generic fair market value</i> | <i>Item</i>   | <i>Quantity</i>  | <i>Generic fair market value</i> |
|-----------------|----------------------------------|---|------------------|----------------------------------|
| Laboratory      | 31 589                           | i. Digital haematology analyser <sup>a</sup>            | 1                | 5 704                            |
|                 |                                  | ii. Digital biochemistry analyser <sup>a</sup>          | 1                | 4 899                            |
|                 |                                  | iii. Kits for HIV and other relevant tests <sup>b</sup> | 5 kits each      |                                  |
|                 |                                  | iv. Microscope <sup>a</sup>                             | 2                | 6 670                            |
|                 |                                  | v. Centrifuge <sup>a</sup>                              | 1                | 3 335                            |
|                 |                                  | vi. Urinalysis kit <sup>b</sup>                         |                  |                                  |
|                 |                                  | vii. Incubator <sup>a</sup>                             | 1                | 5 559                            |
|                 |                                  | viii. Supplies (tubes, reagents, etc.) <sup>b</sup>     |                  |                                  |
|                 |                                  | ix. Glucometer <sup>a</sup>                             | 1                | 1 112                            |
|                 |                                  | x. Refrigerator <sup>a</sup>                            | 1                | 889                              |
|                 |                                  | xi. Freezer <sup>a</sup>                                | 1                | 3 335                            |
|                 |                                  | xii. Cardiac troponin <sup>a</sup>                      | 1 set (10 tests) | 86                               |
|                 | <b>31 589</b>                    |   |                  | <b>31 589</b>                    |

<sup>a</sup> Reimbursed under major equipment.<sup>b</sup> Reimbursed under self-sustainment.<sup>1</sup> A/C.5/65/16, annex 7.4; A/C.5/68/22, annex 5.4; and A/C.5/71/20, annex 4.4.

## Chapter 3, annex C, appendix 9

## Appendix 9

Dental-only facility<sup>1</sup>

(United States dollars)

| <i>Facility</i>                                   | <i>Generic fair market value</i> | <i>Item</i>                              | <i>Quantity</i>                       | <i>Generic fair market value</i> |
|---|----------------------------------|--|---------------------------------------|----------------------------------|
| Dental services consultation, treatment and X-ray | 164 100                          | i. Dental chair, electrical <sup>a</sup> | 1                                     | 72 266                           |
|   |                                  | ii. Equipment for treatment <sup>a</sup> | Adequate for 5 to 10 patients per day | 3 335                            |
|   |                                  | Extraction <sup>a</sup>                  |                                       |                                  |
|   |                                  | Filling <sup>a</sup>                     |                                       |                                  |
|   |                                  | Other basic treatment <sup>a</sup>       |                                       |                                  |
|   |                                  | iii. Drilling unit <sup>a</sup>          | 1                                     | 22 236                           |
|   |                                  | iv. Furniture <sup>b</sup>               | Adequate                              |                                  |
|   |                                  | v. Digital X-ray equipment <sup>a</sup>  | 1 set                                 | 44 471                           |
|   |                                  | vii. Protective equipment <sup>a,c</sup> | 2 sets                                | 5 115                            |
|   |                                  | viii. Dental sterilizer <sup>a</sup>     | 1                                     | 16 677                           |
|   | <b>164 100</b>                   |  |                                       | <b>164 100</b>                   |

<sup>a</sup> Reimbursed under major equipment.<sup>b</sup> Reimbursed under self-sustainment.<sup>c</sup> International Atomic Energy Agency Safety Standards Series No. SSG-46 (Radiation protection and safety in medical uses of ionizing radiation) are to be applied.<sup>1</sup> A/C.5/65/16, annex 7.5; A/C.5/68/22, annex 5.5; and A/C.5/71/20, annex 4.5.

**Appendix 10****Aeromedical evacuation module: requirements and standards<sup>1</sup>**

| <i>Treatment capability</i>  | <i>Treatment capacity</i>   | <i>Staffing requirement</i>                 | <i>Equipment requirement</i>  | <i>Infrastructure requirement</i> |
|--|---|---|---|-----------------------------------|
| 1. Evacuate casualties<br>2. Stabilize and sustain a casualty during evacuation<br>3. Report to the medical emergency coordinator during the evacuation process<br>4. Can be deployed to support a hospital upon request<br>5. Function on both rotary and fixed-wing aircraft<br>6. Able to configure and equip in 30 minutes or less to provide in-flight medical care | Evacuate casualties on an around-the-clock basis<br>Two priority alpha and four priority bravo patients at the same time for a transportation time of six or more hours | 2x medical officers<br>4x nurses/paramedics | According to applicable global air ambulance practice and standards |                                   |

<sup>1</sup> [A/C.5/71/20](#), annex 4.6.

## Appendix 10.1

Aeromedical evacuation module<sup>1</sup>

(United States dollars)

| <i>Facility</i>   | <i>Generic fair market value</i> | <i>Item</i>   | <i>Quantity</i> | <i>Generic fair market value</i> |
|---|----------------------------------|---|-----------------|----------------------------------|
| Aeromedical evacuation module                                       | 97 554                           | Ventilator <sup>a,d</sup>   | 2               | 14 452                           |
|   |                                  | Portable defibrillator integrated in the multiparameter monitor <sup>a,e</sup>  | 2               | 17 789                           |
|   |                                  | Intubation equipment set (both supraglottic and infraglottic) <sup>a,f</sup>  | 2 sets          | 4 255                            |
|   |                                  | Nasogastric tubes set <sup>a</sup>  | 2 sets          | 319                              |
|   |                                  | Portable electric suction equipment with lithium battery <sup>a</sup>   | 2               | 2 223                            |
|   |                                  | Spinal boards and vacuum mattresses for each patient <sup>a</sup>   | 2               | 638                              |
|   |                                  | Stretchers (easy-glide type) that lock into the base of an aircraft (can be configured for basic to advanced life support) <sup>a</sup> | 2               | 2 834                            |
|   |                                  | Scoop stretchers <sup>a</sup>   | 2               | 850                              |
|   |                                  | Head blocks <sup>a</sup>  | 2               | 319                              |
|   |                                  | Neck braces <sup>a</sup>  | 2               | 90                               |
|   |                                  | Chest drain kit set <sup>a</sup>  | 2 sets          | 850                              |
|   |                                  | Complete vacuum splint set for limbs and body <sup>a,g</sup>  | 2 sets          | 1 702                            |
|   |                                  | Spider harness (straps for securing patient) <sup>a</sup>   | 2               | 638                              |
|   |                                  | Vacuum mattress with harness <sup>a,h</sup>   | 6               | 10 851                           |
|   |                                  | Ambu-bags (resuscitation bags and masks) <sup>a</sup>   | 2 sets          | 638                              |
|   |                                  | Glucometer (dry chemical) <sup>a</sup>  | 2               | 61                               |
|   |                                  | Portable haemoglobin meter <sup>a</sup>   | 2               | 1 422                            |
|   |                                  | Oxygen delivery system <sup>a</sup>   | 4               | 889                              |
|   |                                  | Flexible LED lighting <sup>a</sup>  | 4               | 204                              |
|   |                                  | Infusion pump, portable ramp of 4 IV electric syringes per intubated-sedated patient, with lithium battery <sup>a</sup>                 | 2               | 10 005                           |
|   |                                  | Portable multiparameter monitor <sup>a</sup>  | 2               | 22 236                           |
| Emergency bag, doctor/nurse/paramedic <sup>a</sup>                  | 6                                | 4 020   |                 |                                  |
| Full medical kit (all medications, plasma expanders) <sup>b,c</sup> | Adequate                         |   |                 |                                  |
| Portable storage for medication and disposables <sup>a</sup>        | 2                                | 268   |                 |                                  |
|   | <b>97 554</b>                    |   |                 | <b>97 554</b>                    |

(Footnotes on following page)

<sup>1</sup> A/C.5/65/16, annex 7.6; A/C.5/68/22, annex 5.6; and A/C.5/71/20, annex 4.6.

## Chapter 3, annex C, appendix 10.1

(Footnotes to appendix 10.1)

- 
- <sup>a</sup> Reimbursed under major equipment.
- <sup>b</sup> Reimbursed under self-sustainment.
- <sup>c</sup> Staffing: the aeromedical evacuation team should consist of two sub-teams, each consisting of at least one physician and two nurses/paramedics specialized or trained in aeromedical evacuation.
- <sup>d</sup> Offering volume and pressure-based modes, for controlled, synchronized or spontaneous ventilation. The ventilator should be capable of non-invasive ventilation flow and pressure curve patient monitoring. Lithium-ion battery: four hours with in-flight one spare battery. With AC/DC power supply. Should operate under a temperature of 50 degrees Celsius and atmospheric pressure of 650 kPa. Minimum requirement for in-flight ventilation priority alpha patient: VT adjustable 50 to 2,000 ml, flow trigger 3 to 15 L/min., Fio2 adjustable 40 to 100 per cent, PEEP, +3 to 20 mbar, I/E 1:4 to 3:1, apnea alarm. Measured and displayed on LCD screen: MV, f, VTe, PEEP, P mean, P peak, P plat and O<sub>2</sub>. Manufacturer should meet the ISO 10651-3 standard.
- <sup>e</sup> Semi-automated and manual biphasic defibrillation with synchronized mode through adhesive pads, external pacing through adhesive pads, 12-lead electrocardiography, SpO<sub>2</sub>, non-invasive blood pressure monitoring, end-tidal CO<sub>2</sub> (EtCO<sub>2</sub>) monitor for both intubated and non-intubated patients. Continuous intrarectal or esophageal temperature monitoring. All alarms should be audible and visible during transport. One 3-lead electrocardiogram monitoring LCD colour screen. Printer lithium-ion battery with a 6-hour autonomy for each monitor (one set of spare battery for each monitor).
- <sup>f</sup> Intubation equipment set should include laryngoscope with blades, emergency tracheotomy kits and endotracheal tubes. All necessary material for orotracheal and supraglottic intubation for patients ranging from paediatric patients to adults, to include medication for rapid sequence induction kit for cricothyroidotomy and a complete set for chest drain. One bag-valve mask per patient. One oxygen humidifier per oxygen tank. One disposable ventilation hose per ventilator. Six available at any time. Bacterial/viral filter: one per main line. Non-invasive ventilation set with continuous positive airway pressure mask in three different sizes.
- <sup>g</sup> Complete vacuum splint set for arm, leg, forearm; small vacuum pump and bag. Immobilization of the lower and upper limbs by vacuum Equipped with suction valve positioned on the outside. Should be X-ray transparent; lower limb traction splint, pelvic splint and cervical collar adjustable to the size of patient.
- <sup>h</sup> Vacuum mattress: allows the patient to be immobilized and transported wrapped in the mattress. Complete with three belts for the patient and four belts to fit the mattress stretcher, completely made of polyvinyl chloride. Impermeable and easy to clean. Equipped with four handles on each side, two handles on head side and one on foot side for easy transportation.

## Appendix 11

Forward surgery module<sup>1</sup>

(United States dollars)

| Facility                            | Generic fair market value | Item  | Quantity                           | Generic fair market value  |       |
|-------------------------------------|---------------------------|---|------------------------------------|----------------------------|-------|
| Forward surgery module <sup>a</sup> | 165 641                   | Operating table   | 1                                  | 15 565                     |       |
|                                     |                           | Operating theatre lamps (portable)                                      | 2                                  | 13 342                     |       |
|                                     |                           | Autoclave sterilizer (one step 10-15l) with basket                      | 1                                  | 4 254                      |       |
|                                     |                           | Anaesthesia machine   | 1                                  | 55 589                     |       |
|                                     |                           | Oxygen and anaesthesia gases  | Essential                          |                            |       |
|                                     |                           | Diathermy machine   | 1                                  | 8 895                      |       |
|                                     |                           | Suction unit for bodily fluids  | Adequate                           |                            | 4 447 |
|                                     |                           | Disinfection equipment  | 1                                  | 7 782                      |       |
|                                     |                           | Resuscitation/monitoring equipment trolley with drugs                   | 1                                  | 2 223                      |       |
|                                     |                           | Defibrillator   | 1                                  | 8 895                      |       |
|                                     |                           | Ventilator  | 1                                  | 7 226                      |       |
|                                     |                           | Intubation sets   | 1 set                              | 1 668                      |       |
|                                     |                           | Infusion pump   | 1                                  | 5 003                      |       |
|                                     |                           | Pulse oximeter  | 1                                  | 3 335                      |       |
|                                     |                           | Oxygen cylinder with regulator  | 2                                  | 444                        |       |
|                                     |                           | Patient transport/transfer trolley                                      | 1                                  | 3 891                      |       |
|                                     |                           | Surgical consumables  | To support<br>2 operations per day |                            |       |
|                                     |                           | Appendectomy and general-purpose set <sup>b</sup>                       | 1 set                              | 5 849                      |       |
|                                     |                           | Thoracotomy set <sup>b</sup>  | 1 set                              | 6 913                      |       |
|                                     |                           | Wound exploration set <sup>b</sup>                                      | 1 set                              | 5 849                      |       |
|                                     |                           | Portable electronically driven blood storage cooling box <sup>c,d</sup> | 1                                  | 750                        |       |
|                                     |                           | Alligator nasal forceps, serrated jaws 5 1/2"                           | 1                                  | 3 722                      |       |
|                                     |                           | Cylinder for presentation of sterile forceps, D=4 cm                    | 1                                  |                            |       |
|                                     |                           | Eye, lancet for foreign bodies  | 1                                  |                            |       |
|                                     |                           | Eye, magnet   | 1                                  |                            |       |
|                                     |                           | Laryngeal mirror, small   | 1                                  |                            |       |
|                                     |                           | Laryngeal mirror, large   | 1                                  |                            |       |
|                                     |                           | Laryngeal mirror, medium  | 1                                  |                            |       |
|                                     |                           | Nasal speculae 5 3/4" large   | 1                                  |                            |       |
|                                     |                           | Nasal speculae 5 3/4" medium  | 1                                  |                            |       |
|                                     |                           | Nasal speculae 5 3/4" small   | 1                                  |                            |       |
|                                     |                           | Needle holder 5", Mayo-Hegar  | 1                                  |                            |       |
|                                     |                           | Nipper, 5 1/2", spring  | 1                                  |                            |       |
|                                     |                           | Retractor, Alm, 1/8" prongs   | 1                                  |                            |       |
|                                     |                           | Ring cutter   | 1                                  |                            |       |
| Scissors, bandage 7 1/4"            | 1                         |   |                                    |                            |       |
|                                     | <b>165 641</b>            |   |                                    | <b>165 641<sup>e</sup></b> |       |

(Footnotes on following page)

<sup>1</sup> A/C.5/65/16, annex 7.7; A/C.5/68/22, annex 5.7; and A/C.5/71/20, annex 4.7.

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**Chapter 3, annex C, appendix 11**

(Footnotes to appendix 11)

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<sup>a</sup> Staffing: The forward surgery team should consist of one general surgeon, one anaesthetist and three nurses.

<sup>b</sup> Instruments to comply with International Committee of the Red Cross minimum set.

<sup>c</sup> Effective from 1 January 2024.

<sup>d</sup> Able to hold a temperature of 2°C to 6°C (36°F to 43°F) in any environment, even an austere one, for a minimum of 48 hours.

<sup>e</sup> From 1 July to 31 December 2023, the generic fair market value is \$164,891 and the wet lease reimbursement rate is \$3,586 (see footnote d).

## Chapter 3, annex C, appendix 12

**Appendix 12****United Nations levels of medical support: gynaecology requirements and standards**

(United States dollars)

| <i>Treatment capability</i>  | <i>Treatment capacity</i>                 | <i>Staffing requirement</i> | <i>Equipment requirement</i> | <i>Infrastructure requirement</i> | <i>Reimbursement rate (per female person per month)</i> |
|--|---|-----------------------------|------------------------------|-----------------------------------|---|
| 1. Gynaecology basic examination   | Up to 15 outpatient consultations per day | 1 gynaecologist             | Basic gynaecology equipment  | 1x outpatient consultation room   | \$2.13  |
| 2. Examine, diagnose and treat common diseases and injuries of the female reproductive system by surgical and conservative means |   |                             |                              |                                   |   |
| 3. Perform common gynaecological emergency operations only   |   |                             |                              |                                   |   |

*Note:* An anaesthetist, an operation assistant and a nurse are included in the human resources requirement for level 2 hospitals.

## Chapter 3, annex C, appendix 12.1

## Appendix 12.1

Gynaecology module<sup>1</sup>

| <i>Facility</i>    | <i>Generic fair<br/>market value</i> | <i>Item</i>                                   | <i>Quantity</i> | <i>Generic fair<br/>market value</i> |
|--------------------|--------------------------------------|---|-----------------|--------------------------------------|
| Gynaecology module | 11 104                               | i. Gynaecological chair <sup>a</sup>          | 1               | 2 918                                |
|                    |                                      | ii. Gynaecological equipment set <sup>a</sup> | 1 set           | 4 093                                |
|                    |                                      | iii. Colposcope <sup>a</sup>                  | 1               | 4 093                                |
|                    | <b>11 104</b>                        |   |                 | <b>11 104</b>                        |

<sup>a</sup> Reimbursed under major equipment as a part of gynaecology module reimbursement rate.

<sup>1</sup> [A/C.5/65/16](#), annex 7.8; [A/C.5/68/22](#), para. 131 (b); and [A/C.5/71/20](#), annex 4.8.

## Appendix 13

### United Nations levels of medical support: orthopaedic requirements and standards

| <i>Treatment capability</i>  | <i>Treatment capacity</i>                 | <i>Staffing requirement</i>                                  | <i>Equipment requirement</i> | <i>Infrastructure requirement</i> |
|--|---|--|------------------------------|-----------------------------------|
| 1. Formulate plans and procedures for orthopaedic surgery services. With days of hospitalization extended to 21 days, able to manage orthopaedic surgery services  | Up to 15 outpatient consultations per day | 1x orthopaedic surgeon<br>1x orthopaedic operation assistant | Basic orthopaedic equipment  | 2 x outpatient consultation rooms |
| 2. Reduce and immobilize closed fractures with a plaster or fibreglass cast or splint  |   |  |                              |                                   |
| 3. Reduce and immobilize fractures by open reduction or internal fixation under fluoroscopic guidance  |   |  |                              |                                   |
| 4. In cases in which the injury is an open (compound) fracture or complex fracture associated with vascular or neurological damage, with the aim to save life and limb, the ideal treatment should be stop or control the bleeding, stabilize the fracture and evacuate to a higher-level hospital |   |  |                              |                                   |
| 5. Examine, diagnose and treat diseases and injuries of the musculoskeletal system by surgical and conservative means  |   |  |                              |                                   |
| 6. Determine procedures for preoperative and post-operative care   |   |  |                              |                                   |

*Note:* An anaesthetist and nurses are included in the human resources requirement for level 2 hospitals.

## Chapter 3, annex C, appendix 13.1

**Appendix 13.1****Orthopaedic module<sup>1</sup>**

(United States dollars)

| <i>Facility</i>    | <i>Generic fair<br/>market value</i> | <i>Item</i>                                      | <i>Quantity</i> | <i>Generic fair<br/>market value</i> |
|--------------------|--------------------------------------|--|-----------------|--------------------------------------|
| Orthopaedic module | 49 107                               | i. Basic orthopaedic instrument set <sup>a</sup> | 1 set           | 3 798                                |
|                    |                                      | ii. Mobile C-arm fluoroscope <sup>a</sup>        | 1               | 40 935                               |
|                    |                                      | iii. Orthopaedic traction kit <sup>a</sup>       | 2               | 4 375                                |
| <b>Total</b>       | <b>49 107</b>                        |  |                 | <b>49 107</b>                        |

<sup>a</sup> Reimbursed under major equipment as a part of the orthopaedic module reimbursement rate.

<sup>1</sup> [A/C.5/65/16](#), annex 7.9; [A/C.5/68/22](#), annex 5.9; and [A/C.5/71/20](#), annex 4.9.

**Appendix 14****Physiotherapy module: requirements and standards<sup>1</sup>**

| <i>Treatment capability</i>   | <i>Treatment capacity</i>             | <i>Staffing requirement</i> | <i>Equipment requirement</i>  | <i>Infrastructure requirement</i> |
|-------------------------------|---------------------------------------|-----------------------------|-------------------------------|-----------------------------------|
| Physiotherapy basic treatment | Up to 5 outpatient treatments per day | 1 physiotherapist           | Basic physiotherapy equipment | 1x outpatient consultation room   |

<sup>1</sup> [A/C.5/71/20](#), annex 4.10.

## Chapter 3, annex C, appendix 14.1

**Appendix 14.1****Physiotherapy module<sup>1</sup>**

(United States dollars)

| <i>Facility</i>      | <i>Generic fair<br/>market value</i> | <i>Item</i>                                    | <i>Quantity</i> | <i>Generic fair<br/>market value</i> |
|----------------------|--------------------------------------|--|-----------------|--------------------------------------|
| Physiotherapy module | 13 509                               | i. Sonotherapy <sup>a</sup>                    | 1               | 2 133                                |
|                      |                                      | ii. Neurotens <sup>a</sup>                     | 1               | 2 235                                |
|                      |                                      | iii. Magnetotherapy <sup>a</sup>               | 1               | 3 250                                |
|                      |                                      | iv. Shortwave (high frequency) <sup>a</sup>    | 1               | 3 657                                |
|                      |                                      | v. Stationary bike lumbar support <sup>a</sup> | 1               | 2 234                                |
| <b>Total</b>         | <b>13 509</b>                        |  |                 | <b>13 509</b>                        |

<sup>a</sup> Reimbursed under major equipment as a part of physiotherapy module reimbursement rate.

<sup>1</sup> [A/C.5/71/20](#), annex 4.10.1.

**Appendix 15****Internal medicine module<sup>1</sup>**

| <i>Treatment capability</i>  | <i>Staffing requirement</i>  | <i>Equipment requirement</i> | <i>Infrastructure requirement</i>   |
|--|--|------------------------------|---|
| Diagnose and treat common internal diseases<br>Treatment care for complex cases and critical medical conditions<br>Prescribe care for complex dermatological cases together with surgical specialties<br>Coordinate internal medicine services with other medical activities | 1 general physician/internist<br>2 cardiologists<br>1 lab technician<br>2 nurses | Nil                          | No additional infrastructure required beyond that already present in level 2 facility |

<sup>1</sup> [A/C.5/71/20](#), annex 4.10.

## Appendix 16

### Administrative procedures for “fee-for-service” reimbursement

1. The Mission shall settle fee-for-service claims from the troop/police contributor only upon receipt of a monthly invoice delivered to the mission’s Force Medical Officer/Chief Medical Officer, who represents the Director/Chief of Mission Support.
2. Fee-for-service reimbursement shall be accepted upon presentation of the invoice from the troop/police contributor to the Mission, which includes:
  - (a) Full name and United Nations identification number of the patient;
  - (b) Dates of treatment;
  - (c) Service given according to the attached schedule;
  - (d) Individual spreadsheets for patient’s United Nations status/category of employment.
3. The diagnosis, according to the World Health Organization International Statistical Classification of Diseases and Related Health Problems code system, and a copy of any associated referral from a United Nations primary care medical officer or health specialist, are to be sealed in an envelope marked “Medical: in confidence” and addressed to the Chief Medical Officer, who is responsible to the Director/Chief of Mission Support for the appropriate maintenance of confidentiality and record-keeping.
4. The Director/Chief of Mission Support is responsible for all fee-for-service reimbursements to the troop/police contributor and for reclaiming the fees from United Nations personnel with insurance coverage (where applicable).

## Chapter 3, annex C, appendix 16

**Fee-for-service schedule<sup>1</sup>**

(United States dollars)

| <i>Code</i> | <i>Type of services</i>   | <i>Fee</i>  |
|-------------|---|-------------|
| A           | General practitioner  | 31.5        |
| B           | Specialist on referral  | 42          |
| C           | Nurse (for medical procedures)  | 21          |
| D           | Vaccination/medication/drugs  | Actual cost |
| E           | X-ray (referral, image only)  | 26.25       |
| F           | X-ray with contrast (referral, image only)  | 68.25       |
| G           | Lab (referral, tests only)  | 26.25       |
| H           | Dental consultation, emergency only (includes dental X-rays)  | 68.25       |
| I           | Hospital bed per 24-hour period   | 84          |
| J           | United Nations personnel entry examination (inclusive of tests and X-ray for predeployment and post-deployment) | 131.25      |
| K           | Surgery, minor (local anaesthesia)  | 525         |
| L           | Surgery, major (general, regional anaesthesia)  | 1 102.5     |
| M           | Physiotherapy (referral specialist)   | 15          |

*Notes:*

1. The fees include consumables utilized during the consultation.
2. Labs or X-ray services rendered are to be billed separately from the consultation fee (with the exception of dental X-rays and United Nations personnel entry examinations, if they are included in the fee).
3. There is to be no patient co-payment charged. The medical facility of the troop/police contributor bills the mission for the full amount and is reimbursed accordingly.
4. Actual vaccination cost is the cost the medical facility paid to obtain the vaccine stock.
5. Locally recruited staff are exempt from the fee-for-service model for surgery in all emergency cases.

<sup>1</sup> [A/C.5/68/22](#), para. 145.

**Fee-for-service reimbursement for medical support services**

United Nations peacekeeping operation (name) \_\_\_\_\_

Contingent's name (type of medical facility): \_\_\_\_\_

United Nations status by category (contingent, formed police unit, military observer, United Nations police, United Nations civilian) \_\_\_\_\_

| SEQ#                     | Patient's name         |       | Referral note   | A      | B    | C    | D         | E       | F       | G       | H       | I    | J        | K       | L          | M    | Total cost |
|--------------------------|------------------------|-------|-----------------|--------|------|------|-----------|---------|---------|---------|---------|------|----------|---------|------------|------|------------|
|                          | Surname                | First |                 | GP     | SR   | N    | V/M/D     | X-ray   | XRC     | Lab     | Dental  | Hosp | Exam     | Sur, mi | Sur, mj    | Phys |            |
|                          | Patient's UN-ID number |       |                 | \$31.5 | \$42 | \$21 | Actual \$ | \$26.25 | \$68.25 | \$26.25 | \$68.25 | \$84 | \$131.25 | \$525   | \$1,102.50 | \$15 |            |
| 1                        | Example                |       | PKF-BDN-00-0000 |        |      |      |           |         |         |         |         |      |          |         |            |      |            |
| 2                        |                        |       |                 |        |      |      |           |         |         |         |         |      |          |         |            |      |            |
| 3                        |                        |       |                 |        |      |      |           |         |         |         |         |      |          |         |            |      |            |
| 4                        |                        |       |                 |        |      |      |           |         |         |         |         |      |          |         |            |      |            |
| 5                        |                        |       |                 |        |      |      |           |         |         |         |         |      |          |         |            |      |            |
| 6                        |                        |       |                 |        |      |      |           |         |         |         |         |      |          |         |            |      |            |
| <b>Total balance due</b> |                        |       |                 |        |      |      |           |         |         |         |         |      |          |         |            |      |            |

Commanding officer hospital: \_\_\_\_\_

(Signature)

Name (Please print) \_\_\_\_\_

Date: \_\_\_\_\_

United Nations Civilian/Military Personnel Officer: \_\_\_\_\_

(Signature)

Name (Please print) \_\_\_\_\_

Date: \_\_\_\_\_

Chief Medical Officer: \_\_\_\_\_

(Signature)

Name (Please print) \_\_\_\_\_

Date: \_\_\_\_\_

Certifying Officer (Finance): \_\_\_\_\_

(Signature)

Name (Please print) \_\_\_\_\_

Date: \_\_\_\_\_

## Appendix 17

### Procedures for immunization, malaria and HIV

#### Immunization policy

1. The United Nations makes recommendations with regard to the vaccination and chemoprophylaxis requirements within a mission area, which should be the minimum observed by all troop/police contributors. These requirements are divided into the following categories:

(a) **Mandatory vaccinations.** Vaccinations required to meet international health regulations or national requirements stipulated by the host country for travel into the mission area. In the case of yellow fever, vaccination is required for people travelling to or from countries with a risk of yellow fever transmission. It is important that the WHO international certificate of vaccination or equivalent document containing the immunization details for each peacekeeper be made available to the mission medical section on arrival in the mission;

(b) **Recommended vaccinations.** Vaccinations recommended by WHO or by the Department of Operational Support for travel to a region where certain diseases (e.g. hepatitis A, Japanese encephalitis, meningitis) are present. Recommended vaccines are covered under reimbursement for contingent personnel;

(c) **Standard and childhood vaccinations.** Standard and childhood vaccinations, including boosters, provided routinely to the general population and to military and police personnel and not specifically required for peacekeeping, e.g. vaccinations for diphtheria, pertussis, tetanus and poliomyelitis. This type of vaccine is a national responsibility;

(d) **Optional vaccinations.** Additional vaccinations that are administered as a national requirement of a troop/police contributor, but that are not mandatory for entry into the mission area under international or host country health regulations and that have not been specifically recommended by the Department of Operational Support, e.g. vaccinations against rabies, anthrax and seasonal human influenza. Such vaccines will not be reimbursed by the United Nations;

(e) **Special case vaccinations.** Additional vaccinations or drugs that are required against new or emerging infections encountered in the mission area and are not reimbursed under the previous categories, e.g. the antiviral drug Ribavirin for Lassa fever, and Oseltamivir or Tamiflu for avian influenza. These will be provided by the United Nations or reimbursed through the submission of claims for actual costs.

2. It is a national responsibility (and at national expense) to ensure that all personnel have received at least the initial dose of mandatory and recommended vaccinations before deployment into the mission area. The immunization status of each individual is to be properly documented for monitoring by the respective contingent doctor. It would be ideal if each member of the contingent were provided with a WHO international certificate of vaccination or its national equivalent.

3. Should troops or police deploy into a mission area without the required vaccinations, such vaccinations will be provided by the supporting medical unit, but all costs incurred will be deducted from the reimbursement to the troop/police contributor. The Force Medical Officer is required to submit a record of all vaccinations administered in the field, indicating the names, United Nations identification numbers and nationalities of those receiving vaccines, as well as the types and doses of vaccinations given.

**Chapter 3, annex C, appendix 17**

4. Should a multiple-dose immunization regimen for mandatory or recommended vaccines not be completed prior to deployment, the United Nations has the responsibility for subsequent vaccinations, including the administration of booster doses, if required. The mission headquarters will procure the required vaccines in this instance, with the assistance of the Medical Support Section. The United Nations will recover the cost of the above vaccines from the troop/police contributor.

5. Failure to follow United Nations-recommended immunization and chemoprophylaxis policies may result in the denial of entry into the host country, as well as rejection of any resulting medical claims and compensation.

**Malaria prophylaxis and vector control**

6. Malaria is endemic in most tropical countries, particularly in Africa, South America and South Asia, with 400 million individuals infected and 1.5 million dying from the disease each year. It is one of the major diseases affecting peacekeepers and an important cause of morbidity and mortality. This indicates a general lack of awareness of the disease among peacekeepers, as well as inadequate or incorrect use of environmental and personal protection. Prevention of malaria is further hampered by delays in diagnosis by doctors unfamiliar with the disease, the development of anopheles mosquitoes resistant to standard insecticides and resistant strains of plasmodia. A vaccine against this organism has been developed that is currently recommended for use in children below the age of 5 years in countries with moderate to high malaria transmission. Steps that should be taken to control the disease include:

(a) Avoid setting up camp locations near stagnant bodies of water (e.g. marshes, ponds);

(b) Routine inspection and destruction of mosquito-breeding sites in the camp vicinity. The use of oiling is recommended, while organophosphate insecticides should be considered for bodies of water that are rich in vegetation;

(c) Residual spraying of insecticides on both internal and external walls and windowsills to destroy resting adult mosquitoes. This is more effective than space spraying, and should be conducted at least once every three months. Hand-operated compression sprayers are generally adequate; organophosphate, carbamate or synthetic pyrethroids can be used;

(d) Proper use of mosquito bednets and appropriate clothing after dusk. Impregnation of bednets, and even clothing, with permethrin or a similar compound has been shown to increase protection against mosquitoes. This should be repeated every six months;

(e) The obligatory use of insect repellents after dusk, with repeat applications at night for soldiers who are on duty. N,N-Diethyl-m-toluamide (DEET)-based repellents are recommended, particularly sustained-released formulations and ointments;

(f) Supervision and even enforcement of malaria prophylaxis. Mefloquine (Lariam) (250 mg per week) is generally recommended for most mission areas, while doxycycline (100 mg daily) is advised for individuals with glucose-6-phosphate dehydrogenase (G6PD) deficiency or allergy to quinine-based drugs. *It is a national responsibility to ensure that the recommended prophylaxis is commenced prior to deployment in the mission area. Following deployment, continuation of prophylaxis will be provided by the medical unit supporting the contingent;*

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(g) When diagnosis of malaria is suspected or confirmed, it is recommended that the patient be treated at a level 2 or 3 medical facility, where adequate monitoring and laboratory capacities<sup>1</sup> are available;

(h) Health education is the key to raising awareness about malaria and to debunking misconceptions about the disease (e.g. the harmful effects of prophylaxis), as well as to reinforcing the need for adequate preventive measures.

### HIV/AIDS and sexually transmitted diseases

7. Sexually transmitted diseases and AIDS are occupational diseases that affect the military, including United Nations peacekeeping troops and observers. Prevalence rates of as high as 10 to 30 per cent have been found among military personnel, including those from certain countries that contribute troops to field missions. This rate is estimated to be two to five times higher than among the respective general population, and has been known to be as much as 50 times higher during deployment in a conflict area.

### Risk factors

8. The following factors contribute to the particular vulnerability of deployed peacekeepers to sexually transmitted diseases and AIDS, which arise largely from contact with infected sex workers:

- (a) Lengthy periods away from home and separation from regular sex partners;
- (b) Influence of alcohol and peers;
- (c) Fewer inhibitions and restrictions in a new country;
- (d) Pocket money, with less opportunity to spend it during operational deployment;
- (e) Risk-taking ethos and behaviour in the military, which is part of the make-up of any soldier;
- (f) Ready access to sex workers near campsites and frequented off-duty areas;
- (g) In some situations, a higher tendency towards drug abuse and a lack of access to sterile hypodermic needles;
- (h) A higher chance of exposure to infected blood in the operational environment, either from fellow peacekeepers or the local population, particularly for medical personnel.

9. Sexually transmitted diseases, HIV infection and AIDS are largely preventable through proper health education and training, as well as through the issuance of personal protection (condoms) to individual peacekeepers. An effective AIDS-prevention programme will limit further spread of the disease among peacekeepers and the local population. Elements of such a programme include:

- (a) Health education on the risks of HIV/AIDS and to debunk myths and misconceptions regarding the disease. This is to be reinforced by publications, posters and other means of communication;

<sup>1</sup> [A/C.5/68/22](#), para. 116 (b).

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(b) AIDS-prevention training for peacekeepers prior to and during their deployment in United Nations peacekeeping operations, with an emphasis on proper use of prophylaxis and moderation of behaviour in “risky” situations;

(c) Supervised regular distribution of condoms to all peacekeepers, both male and female, particularly before time off or leave. It is a national responsibility to ensure that troops deploy with an adequate supply of condoms. Additional condoms may be obtained from the medical unit supporting the contingent or through a United Nations channel;

(d) Making HIV testing available and accessible to all United Nations peacekeepers and staff members deployed in the field. Counselling services provided by medical staff should be made available for infected individuals if requested;

(e) Promoting greater awareness among medical personnel and adopting “universal precautions” in handling patients, particularly during resuscitation and intravenous procedures, along with ensuring the proper disposal and decontamination of medical wastes and consumables;

(f) Availability and access to HIV post-exposure prophylaxis services in all field operations areas to prevent HIV infection due occupational and incidental exposure among personnel.

10. Further information regarding AIDS can be obtained from the booklet “Protect yourself, and those you care about, against HIV/AIDS”, published jointly by the Department of Peacekeeping Operations and the Joint United Nations Programme on HIV/AIDS (UNAIDS). This is distributed to all military observers, civilian police monitors and military contingents serving in field missions.

## Chapter 4

**Chapter 4****Preparation, deployment, repatriation and transportation  
of contingents**

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## Chapter 4

## I. Introduction

1. The present chapter sets out the policy concerning the reimbursement of preparation and transportation costs associated with the deployment, rotation and repatriation of a contingent. Additional details are provided in the guidelines for troop-contributing countries.

## II. Preparation costs

2. Prior to deployment, all authorized equipment is to be prepared by the troop/police contributor to a fully operational and fully serviced state. All costs associated with preparing authorized equipment to additional standards defined by the United Nations for deployment to a mission under a wet lease or dry lease arrangement (e.g. painting, United Nations marking, winterizing) and returning equipment to national stocks at the conclusion of a mission (e.g. repainting to national colours) will be reimbursed by the United Nations. Reimbursement will be calculated using the standard rates for painting and repainting listed in the appendix to chapter 8, annex A. The reimbursement will be limited to the equipment agreed in the memorandum of understanding, plus 10 per cent overstock, where applicable.<sup>1</sup>

3. The special cost of preparing and refurbishing specialist equipment leased for a relatively short duration will not be included under a wet lease or dry lease arrangement but will be separately negotiated between the United Nations and the contributing country.<sup>2</sup>

## III. Deployment and repatriation of personnel

4. The United Nations is responsible for the deployment and repatriation (including regular rotations) of contingent personnel authorized in the memorandum of understanding. The United Nations will normally make the necessary arrangements with the troop/police contributor and appropriate carriers. When a troop/police contributor offers to provide transportation to and from the mission area, or when the United Nations is unable to provide the required transportation, the United Nations may request the troop/police contributor via a letter of assist to provide such transportation. In such cases, the United Nations will reimburse the troop/police contributor the associated cost, up to the estimated amount that would have been incurred had the United Nations provided those services (normally the lowest bid meeting the transportation requirement), or provide reimbursement at a rate agreed to between the United Nations and the troop/police contributor. More details are provided in the guidelines for troop-contributing countries.

5. The troop port of entry/exit shall be agreed and noted in the memorandum of understanding. Troops will be redeployed to the agreed port of entry/exit. The troops may be returned to another location nominated by the troop/police contributor; however, the maximum cost to the United Nations will be the cost to the agreed originating location. Where a rotation uplifts troops from a different port of exit, this port shall become the agreed port of entry for these troops. Any additional costs incurred as a result of a request from a troop/police contributor to change the port of entry/exit will be the responsibility of the troop/police contributor. In the event of the troop/police contributor deploying more personnel than authorized in the memorandum

<sup>1</sup> A/C.5/49/70, annex, appendix I.A, para. 2 (e).

<sup>2</sup> A/C.5/49/66, annex, para. 23.

## Chapter 4

of understanding, the extra cost will be borne by the troop/police contributor. There is no entitlement for the reimbursement of landing fees, as the United Nations considers landing fees to be direct taxes from which the Organization is exempt pursuant to section 7 (a) of the Convention on the Privileges and Immunities of the United Nations.<sup>3</sup>

6. Reimbursement for contingent personnel will continue at full rates until departure in accordance with the drawdown plan.

7. United Nations Headquarters will develop an indicative, mission-specific personal equipment listing for each mission (appendix to annex A to the memorandum of understanding) as part of the mission planning process. This listing is to be discussed with each contingent before starting each mission and to be included in the guidelines for troop-contributing countries issued for each mission.<sup>4</sup> The personal equipment and kit agreed upon should be available to personnel prior to deployment.

#### IV. Deployment and repatriation of equipment

8. The United Nations is responsible for the deployment and repatriation of contingent-owned major and minor equipment, including spare parts and consumables, as noted in the memorandum of understanding or as outlined in the guidelines for troop-contributing countries. The port of embarkation/disembarkation shall be agreed upon and noted in the memorandum of understanding. For landlocked countries or countries where equipment is moved by road or rail to the mission area, the port of embarkation/disembarkation will be an agreed border crossing.<sup>5</sup> The United Nations will normally make the necessary transportation arrangements with the troop/police contributor and appropriate carriers. When a troop/police contributor offers to provide transportation to and from the mission area, or when the United Nations is unable to provide the required transportation, the United Nations may request the troop/police contributor via a letter of assist to provide such transportation. In such cases, the United Nations will reimburse the troop/police contributor the associated cost up to the estimated amount that would have been incurred had the United Nations provided those services, normally the lowest bid that meets the transportation requirement, or provide reimbursement at a rate agreed to between the United Nations and the troop/police contributor.

- Where there are delays in a troop/police contributing country's ability to deploy due to equipment procurement, personnel training or other reasons that only affect a part of the unit's ability to deploy, the United Nations may consider a phased deployment of the unit to meet the operational needs of the receiving field mission. Phased deployments will only be considered where the operational integrity of the unit can still be maintained (at a reduced level) and the reduced unit can carry out the mandated tasks considered critical for the success of the field mission, especially when it can save lives. The decision to authorize a phased deployment will remain with the United Nations Secretariat, on advice from the receiving field mission and in discussion with the troop/police contributor. Where the delay is caused by the procurement of equipment, personnel associated with the employment of that equipment should not be deployed until that equipment is available within the mission. Any delay to equipment deployment should not increase the operational risks to the personnel deploying.

9. For movements into, within and out of a mission's area of operations, the United Nations is responsible for the coordination of all mission movement control

<sup>3</sup> Office of Legal Affairs memorandum dated 12 June 2001.

<sup>4</sup> A/C.5/52/39, para. 78.

<sup>5</sup> A/C.5/54/49, para. 67 (c).

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operations, including obtaining the necessary permissions and authorizations from the appropriate authorities in the host country.<sup>6</sup>

10. On deployment and repatriation, the United Nations will provide packing and crating materials, and additional containers required for transportation other than those agreed in the memorandum of understanding, or reimburse the cost of such materials, exclusive of labour costs, as a preventive measure against loss of or damage to equipment.

11. Documented costs related to loading and unloading major equipment prior to deployment and after repatriation will be reimbursed by the United Nations and are to be included in the letter of assist. These same costs for additional major equipment (beyond the allowable 10 per cent overstock) deployed by a troop/police contributor will not be eligible for reimbursement unless the deployment has prior approval from the United Nations. All other associated costs will be met on the basis of the letter of assist.<sup>7</sup> When transportation is provided by military/police means, the incremental cost is eligible for reimbursement, except the labour cost of military/police personnel.

12. The United Nations may request a troop/police contributor to provide petroleum, oils and lubricants, particularly during the start-up phase. In these circumstances, the troop/police contributor will be reimbursed at standard monthly rates as approved by the General Assembly (in accordance with chapter 8, annex A, of the present Manual) or through a letter of assist for special case equipment.<sup>8</sup>

13. For major equipment, transportation shall be provided for the level listed in the memorandum of understanding. A troop/police contributor is allowed to exceed the quantity of major equipment by up to 10 per cent to allow for backup major equipment. The United Nations will be responsible for the cost of transportation on deployment and repatriation for the equipment level authorized in the memorandum of understanding, as well as for the additional 10 per cent to allow for backup major equipment.<sup>9</sup> In the event of the troop/police contributor deploying more equipment than authorized in the memorandum of understanding, and factoring in the 10 per cent overstock, the extra costs will be borne by the troop/police contributor.

14. **Cessation of operations:** Reimbursement for major equipment will be in effect at full rates until the date of cessation of operations by a troop/police contributor or termination of the mission.<sup>10</sup> Thereafter, reimbursement will be reduced to 50 per cent of the rates agreed in the memorandum of understanding and will cease once equipment departs the mission area or 90 days after the date of cessation of operations or the termination of the mission (whichever happens earlier), except in those instances deemed to be outside the control of the troop/police contributor, as determined by the United Nations.

15. Reimbursement for self-sustainment will be in effect at full rates until the date of cessation of operations by a troop/police contributor or termination of the mission. Thereafter, the following categories will be reimbursed at 100 per cent and calculated upon the remaining actual deployed personnel strengths until all contingent personnel have departed the mission area:<sup>10</sup>

- General/catering
- Communications/telephone
- General/laundry

<sup>6</sup> A/C.5/65/16, para. 106 (a) (i).

<sup>7</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 60 (b) and (c).

<sup>8</sup> A/C.5/49/66, annex, para. 21.

<sup>9</sup> A/C.5/49/70, annex, appendix I.A, para. 2 (d).

<sup>10</sup> A/C.5/52/39, para. 70.

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- General/accommodation
- Medical/high risk (epidemiological)
- Miscellaneous general stores/bedding
- Miscellaneous general stores/furniture

After the cessation of operations, reimbursement for other categories will be reduced to 50 per cent of the rates agreed in the memorandum of understanding calculated upon the remaining actual deployed personnel strengths until all contingent personnel have departed the mission area.

16. When the United Nations negotiates a contract for the repatriation of equipment and the carrier exceeds a 14-day grace period after the expected arrival date, the troop/police contributor will be reimbursed by the United Nations at the dry lease rate from the expected arrival date until the actual arrival date.<sup>11</sup>

- When the United Nations is responsible for carrying out the initial deployment (not for induction being undertaken under letter of assist) of the equipment, and exceptional delays are encountered in the movement of contingent-owned equipment beyond the control of the troop/police contributor, the troop/police contributor may negotiate reimbursement at the dry lease rate on a case-by-case basis with the United Nations.

## V. Inland transportation

17. The United Nations will be responsible only for paying the inland transportation costs on initial deployment and subsequent repatriation of the equipment, including inland transportation costs incurred by the troop/police contributor for the movement of contingent-owned equipment by air, from the location of the unit(s) within the home country to the airport of embarkation (owing to urgent operational requirements in the mission area) for the major equipment levels stipulated in the memorandum of understanding, plus the backup vehicles, up to a maximum of 10 per cent of such authorized levels.

18. The reimbursement for inland transportation costs, including packing and crating materials, will be assessed and reimbursed using procedures similar to those employed for a letter of assist. Therefore, troop/police contributors intending to request reimbursement for inland transportation are responsible for contacting the Logistics Division of the Department of Operational Support prior to the deployment to discuss arrangements and agree in advance on the conditions and costs eligible for reimbursement.<sup>12</sup>

19. The following factors, similar to those used for letter of assist procedures, will be taken into consideration:<sup>13</sup>

- (a) Changes in climate en route to the point of embarkation;
- (b) Environmental changes;
- (c) Border crossing (crossing from one State to another for the purpose of transiting to a point of embarkation);

<sup>11</sup> *Ibid.*, para. 75.

<sup>12</sup> *A/C.5/55/39* and *A/C.5/55/39/Corr.1*, para. 60 (a).

<sup>13</sup> *Ibid.*, para. 60 (a) (i)–(iv).

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(d) Changes in transportation mode (such as from road to rail, between different rail gauges, from road to water).

20. When transportation is provided by military means, the incremental cost is eligible for reimbursement, except the labour cost of military personnel.<sup>14</sup>

21. Expenses associated with inland transportation of the resupply of spare parts and consumables associated with major equipment under wet lease arrangements and minor equipment and consumables associated with self-sustainment are not eligible for additional reimbursement beyond that provided in the wet lease.<sup>15</sup> There is no reimbursement of inland transportation costs for spare parts or consumables under dry lease arrangements.

22. The United Nations will not reimburse the cost of transporting troops from various parts of the contributing country to the assembly point at the port of exit/entry.

## VI. Rotation of equipment

23. Contingent-owned equipment brought into a field mission area is expected to remain for the duration that the troop/police contributor participates in that mission, and will not be rotated with contingent personnel. Therefore, costs related to the transportation of equipment to meet national operational or maintenance requirements, including third- or fourth-line maintenance, are a national responsibility and not eligible for reimbursement by the United Nations,<sup>16</sup> except as provided for in the following paragraphs.<sup>17</sup> The United Nations will be responsible only for reimbursing a troop/police contributor for transportation costs of extra equipment brought into a mission area when mutually agreed. In such cases, United Nations Headquarters will issue an amendment to the memorandum of understanding. Transportation costs will be arranged in the same manner as for other movements as described above.

24. Certain categories of major equipment under prolonged deployment to peace operations that are non-operable, or for which continued maintenance is not economical in the mission area, can be considered for rotation under the arrangement of the United Nations or under the letter of assist, at United Nations expense, at the discretion of a mission contingent-owned equipment/memorandum of understanding management review board, in consultation with the applicable contingent commander, on the basis of operational requirements within the mission. These categories are as follows: aircraft/airfield support equipment, all types of vehicles, material handling equipment, logistical equipment, electrical equipment, communications equipment and engineering equipment.<sup>18</sup>

25. To be eligible for consideration, equipment must have been continuously deployed in peacekeeping operations for at least seven years or 50 per cent of its estimated useful life, whichever comes earlier. Rotation will be considered when the amount of equipment proposed for rotation represents 10 per cent or more of the amount of equipment in at least one eligible category.<sup>19</sup> Equipment to be rotated at United Nations expense shall be treated by the United Nations as if it were contingent-owned equipment being repatriated at the end of the unit's deployment to a mission area. Replacement equipment shall be treated as if it were equipment being deployed

<sup>14</sup> Ibid., para. 60 (c).

<sup>15</sup> A/C.5/49/70, annex, para. 46 (b)–(e) and (g).

<sup>16</sup> Ibid., para. 46 (f).

<sup>17</sup> A/C.5/68/22, para. 90 (a).

<sup>18</sup> A/C.5/71/20, para. 44 (b).

<sup>19</sup> Ibid.

under the contingent's initial deployment to a mission area.<sup>20</sup> In exceptional circumstances, such as higher-risk missions, the seven years requirement could be reduced to five years for equipment that is unserviceable due to operational tempo, environmental conditions, extreme climate, location, mileage, hours of usage, trafficability or non-negotiable terrain, to be determined and recommended by the mission leadership and decided by the Secretariat. The rotation at United Nations expense will not include equipment that is not serviceable due to lack of maintenance.

- The mission contingent-owned equipment/memorandum of understanding management review board, in consultation with the applicable contingent commander, should review whether individual generators eligible for rotation under United Nations expense can be replaced with generators of a lower kVA rating based on operational requirements and considerations, such as low average load. If the board concludes that such a replacement is appropriate, the relevant troop- or police-contributing countries would be encouraged to replace such generators with generators of lower kVA ratings.

26. In addition to the categories included in paragraph 25, major equipment of all categories lost or damaged as a result of hostile action or forced abandonment will also be considered for rotation at the United Nations expense within the established financial parameters. The requirements stipulated in paragraph 29 of at least seven years or 50 per cent of the estimated useful life will not apply to equipment lost or damaged as a result of hostile action or forced abandonment.<sup>21</sup>

## VII. Transportation of spare parts and consumables

27. Other than on initial deployment and repatriation, transportation of spare parts associated with the maintenance of major equipment under a wet lease arrangement is a national responsibility, as the monthly estimated maintenance rate, within the wet lease rate, is increased by 2 per cent to cover such costs. This rate is further increased by an incremental transportation factor of 0.25 per cent for each complete 500 statute miles or 800 kilometres (after the first 500 statute miles or 800 kilometres) along the consignment route between the port of embarkation and the port of entry to the mission area.<sup>22</sup> For landlocked countries or countries where equipment is moved by road or rail to and from the mission area, the port of embarkation/disembarkation will be an agreed border crossing point. In order to determine the incremental transportation factor, the United Nations and the troop/police contributor will agree to a distance to be considered for reimbursement at the time of negotiation of the memorandum of understanding and note that distance in the memorandum. The distance is determined using the sea consignment route unless it is determined that a different route is necessary. The conversion rate to be used in computing the distance is 1.6091 kilometre to 1 statute mile and 1.852 kilometre to 1 nautical mile. The lease rates will then be calculated accordingly.

28. Upon request from a troop- or police-contributing country, the United Nations may assist the troop- or police-contributing country by providing guidance on how to arrange such shipments<sup>23</sup> and appropriate assistance in obtaining cargo entry clearance from host countries in a timely manner.

<sup>20</sup> A/C.5/68/22, para. 90 (a).

<sup>21</sup> A/C.5/71/20, para. 44 (b).

<sup>22</sup> A/C.5/49/70, annex, sect. IV, para. 46 (c).

<sup>23</sup> A/C.5/65/16, para. 106 (a) (ii).

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29. The transportation costs of minor equipment, spare parts and consumables associated with self-sustainment, other than those incurred for initial deployment and repatriation, are not reimbursable, as the self-sustainment rates include a premium of a 2 per cent transportation factor to compensate for such expenditures.<sup>24</sup> Therefore, the additional incremental transportation factor is not applicable to self-sustainment.

30. The costs associated with intra-mission transportation will be absorbed by the mission if there is a requirement to transport spare parts and consumables from authorized points of entry to a mission to other destinations within the mission area. United Nations field missions will entertain all reasonable requests for movement within the mission area using any available transportation resources, including United Nations assets, commercial assets and/or assets of the troop/police contributor.<sup>25</sup>

31. Subsequent to a notice of withdrawal, a contingent will draw down its spare parts and consumables to ensure that only minimum quantities are being returned with the equipment on repatriation.

## **VIII. Disposal of contingent-owned equipment<sup>26</sup>**

32. According to the general conditions for major equipment and self-sustainment provided by troop/police contributors under a memorandum of understanding, contingent-owned equipment remains the property of the troop/police contributor. Therefore, the disposal of such equipment is a responsibility of the troop/police contributor, unless ownership and/or responsibility for the equipment has been legally transferred to another entity.

33. Contingent-owned equipment may be disposed of by repatriation, as stipulated in paragraph 8 of the present chapter, or in the mission area by sale, donation or disposal action by the mission on behalf of the troop/police contributor. In-mission disposal of contingent-owned equipment, by any method, must be in compliance with the mission status-of-forces agreement or status of mission agreement; host country customs and tax rules, regulations and procedures; and other relevant host country and international laws.

34. Troop/police contributors may request the assistance of the mission to dispose of contingent-owned equipment through arrangements established for the disposal of equipment owned by the United Nations. In these cases, a formal agreement between the troop/police contributor and the mission will need to be prepared to formalize the handover of such equipment for subsequent disposal action. The agreement should specify that the troop/police contributor will make no claims for financial compensation for any potential revenue generated from the disposal action associated with the contingent-owned equipment.

35. Troop/police contributors may dispose of contingent-owned equipment by selling it directly to other troop/police contributors; the mission; United Nations agencies, funds and programmes; non-governmental organizations; or local governmental entities, as well as through commercial sale. Troop/police contributors should inform missions of their intention to sell such equipment by providing details of the items to be sold. The following documents shall be submitted to the mission: a formal statement from the troop/police contributor indicating that the United Nations will have no further liability for the equipment sold, a copy of the sale document identifying the buyer, and tax payment and supporting documents.

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<sup>24</sup> *Ibid.*, para. 46 (g) and appendix II, sect. B, note 1.

<sup>25</sup> *A/C.5/65/16*, para. 106 (a) (iii).

<sup>26</sup> *A/C.5/71/20*, para. 50 (b).

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36. Troop/police contributors may dispose of contingent-owned equipment by donation to the host government; other troop/police contributors; United Nations agencies, funds and programmes; or non-governmental organizations. Troop/police contributors shall inform the mission of the items to be donated and they will be given. A formal statement from the troop/police contributor indicating that the United Nations will have no further liability for the equipment once it has been donated to a third party shall be provided to the mission.

37. Troop/police contributors shall complete all procedures required by their respective national regulations for the authorization of write-off and disposal of equipment. National contingent commanders shall certify that the appropriate national administrative procedures for write-offs have been followed authorizing the in-mission disposal of contingent-owned equipment.

38. The in-mission disposal of contingent-owned equipment should be an ongoing process, rather than an action undertaken shortly before contingent repatriation. As part of the quarterly contingent-owned equipment verification process, contingents may consider conducting a regular in-mission disposal analysis of such equipment. This analysis should include a list of contingent-owned equipment that has become unserviceable, is beyond economical repair or is obsolete, with a recommendation for disposal actions. Contingent-owned equipment that is found to be non-functional for four consecutive quarters (12 months) must be repaired by the contingent or otherwise disposed of either through repatriation by the troop/police contributor or through an in-mission disposal method within the following six months.

**Annex<sup>1</sup>****Letter of assist****Definition of a letter of assist**

1. A letter of assist is a legally binding contractual document between the United Nations and a Government. It provides the appropriate authority for procurement of services on behalf of the United Nations. It also specifies how reimbursement will be made. Detailed information about letters of assist can be found in chapter 14 of the United Nations Procurement Manual.

**Contents of a letter of assist**

2. A letter of assist consists of a cover letter and the general terms and conditions:
- (a) The cover letter may include, but is not limited to, the following elements:
    - (i) Letter of assist number;
    - (ii) Country/United Nations mission/year/letter of assist number for the specific mission;
    - (iii) Purpose of the letter of assist;
    - (iv) Requirements;
    - (v) Type of service or equipment;
    - (vi) Reimbursement;
    - (vii) Overall regulations for reimbursement;
  - (b) The general terms and conditions may include, but are not limited to, the following elements:
    - (i) Services;
    - (ii) Itemized reimbursement for services provided in categories to be negotiated, without prejudice to the total amount of the letter of assist;<sup>2</sup>
    - (iii) Detailed regulations regarding the time frame for payment, invoices, receipts and the relevant division/department at United Nations Headquarters;
    - (iv) Aircraft call signs (in the case of air transportation);
    - (v) Facilities provided by the United Nations;
    - (vi) Reporting accidents or incidents;
    - (vii) Safety;
    - (viii) Claims and insurance;
    - (ix) Tax exemption;
    - (x) Circumstances for changes by the Government or by the United Nations;
    - (xi) Termination;

<sup>1</sup> [A/C.5/65/16](#), para. 101.

<sup>2</sup> [A/C.5/71/20](#), para. 54.

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- (xii) Future commitments;
- (xiii) Modifications;
- (xiv) Settlement of disputes;
- (xv) Privileges and immunities;
- (xvi) Force majeure.

**Special concerns****Rotation of units (personnel only)**

3. When rotating units (personnel only), the United Nations will ask the troop/police contributor whether the rotation shall be carried out by the United Nations or by the country under a letter of assist. If it is decided that the country will carry out the rotation, the country will forward a request for a letter of assist, including the expected costs for the rotation, the means to be used and a detailed movement plan. The United Nations will then evaluate the costs and send a reply to the country in which the United Nations either:

- (a) Accepts the cost, which then will be the ceiling in the letter of assist;
- (b) States that the costs are too high, and that the ceiling will be fixed at a particular amount.

4. When the rotation is carried out, the troop/police contributor will forward a claim, including a copy of the invoices, to the United Nations, and:

- (a) If the actual costs are higher than the ceiling in the letter of assist, the country will be reimbursed the amount mentioned in the letter of assist;
- (b) If the actual costs are lower than the ceiling in the letter of assist, the country will be reimbursed the actual costs;
- (c) Reimbursement will be based on the actual number of passengers moved or the amount of volumetric cargo (cubic metres), not to exceed the number or amounts agreed in the letter of assist.

**Aircraft**

5. When contributing aircraft, the troop-contributing country shall draw attention to the following:

- (a) Aircrew, ground maintenance staff and base equipment will normally be covered under a memorandum of understanding;
- (b) Accommodation of aircrew (only) (to be negotiated);
- (c) Operational flight time (to be negotiated);
- (d) Reimbursement. The following are examples of reimbursement issues to be negotiated:
  - (i) Costs per flying hour;
  - (ii) Costs for the deployment and repatriation;
  - (iii) Costs for painting the aircraft;
  - (iv) Costs for airport services;

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**Chapter 4, annex**

- (v) Tax exemption;
- (e) Conditions for reimbursement, such as the provision of invoices and receipts, and satisfactory performance.

**Vessels**

6. When contributing vessels, the troop-contributing country shall draw attention to the following:

- (a) Crew, ground maintenance staff and base equipment (major equipment, minor equipment and self-sustainment) will normally be covered under a memorandum of understanding;
- (b) Operational time frame – normally 24/7 (to be negotiated);
- (c) Requirement to rotate or replace the vessel in conjunction with operational capabilities (to be negotiated);
- (d) Reimbursement. The following are examples of reimbursement issues to be negotiated:
  - (i) Cost for each consecutive period of operational duty;
  - (ii) Cost for transit days, deployment and repatriation to/from the area of operations;
  - (iii) Cost for harbour service;
  - (iv) Tax exemption;
  - (e) Conditions for reimbursement, such as the provision of invoices and receipts, and satisfactory performance.

Chapter 5

**Chapter 5**

**Special case equipment**

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## Chapter 5

## I. Introduction

1. Special case equipment is major equipment for which, because of the uniqueness of the item, its high value or the lack of a generic group, a standard rate of reimbursement has not been defined in the tables of reimbursement. Special case major equipment should be of a value greater than \$1,000 (collective value of all items in the set) and have a life expectancy of more than one year. The value alone should not determine whether the equipment is treated as a special case.<sup>1</sup>

## II. Procedure

2. When the United Nations requests a troop/police contributor to provide equipment of a specialized nature or function for which reimbursement rates have not been authorized, the troop/police contributor will be requested to complete the application form in the annex to the present chapter and submit it to the Uniformed Capabilities Support for review and approval. The Uniformed Capabilities Support Division will, with the assistance of the Force Generation Service/Police Division, review the submission by the troop/police contributor and determine an acceptable rate of reimbursement for the equipment requested using the suggested elements outlined in the annex to the present chapter. The Uniformed Capabilities Support Division will advise the troop/police contributor of the acceptable rate of reimbursement.

3. The equipment-providing country will be requested to indicate its willingness and ability to provide the requested equipment at the specified rate. A memorandum of understanding shall be signed between the United Nations and the equipment-providing country listing the special equipment and the agreed rates of reimbursement, the purpose of the equipment and the period for which it is required in the mission area.

4. If the General Assembly approves a generic reimbursement rate for a special case item, the said item can no longer be considered or reimbursed as a special case.<sup>2</sup>

## III. Loss or damage

5. No-fault incident factor: For special equipment not currently incorporated into the wet and dry lease system, special arrangements between the United Nations and the country will apply.<sup>3</sup> The no-fault incident factor will be the same as for items of a similar type for which wet and dry lease rates have been promulgated.<sup>4</sup>

6. Unless specifically negotiated arrangements have been included in the memorandum of understanding, loss of or damage to special case equipment shall be treated in the same manner as for other major equipment.

7. When loss of or damage to special equipment occurs, the contingent commander will ensure that the reporting requirements contained in chapter 6 apply.

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<sup>1</sup> A/C.5/62/26, para. 57 and annex I.C.1.

<sup>2</sup> A/C.5/65/16, para. 92 (b).

<sup>3</sup> A/C.5/49/70, annex, para. 47 (a).

<sup>4</sup> Ibid., appendix I.C, para. 2.

#### IV. Determination of rates

8. The monthly rates of reimbursement will be calculated using the formula for the rates approved by the General Assembly as follows:

(a) **Dry lease rate:** The generic fair market value, divided by the estimated useful life in years and divided by 12, plus the no-fault incident factor for loss, multiplied by the generic fair market value, divided by 12;

(b) **Wet lease rate:** The dry lease rate (calculated above) plus the estimated cost of monthly maintenance provided by the troop/police contributor.<sup>5</sup>

9. **Mission factors:** Mission factors will be applied, where applicable, to the wet lease or dry lease rates to compensate for potential increased wear and tear in the mission area.

10. Revision of the reimbursement rates for special case equipment should be linked to the average revision granted by the Working Group on a triennial basis with regard to major equipment.<sup>6</sup>

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<sup>5</sup> [A/C.5/65/16](#), para. 96 (e).

<sup>6</sup> *Ibid.*, para. 96 (d).

**Annex****Application for special case reimbursement of major equipment under a wet lease or dry lease arrangement**

1. Based on a request received from the United Nations, \_\_\_\_\_ [troop/police contributor] is able to provide the following item of major equipment on a \_\_\_\_\_ [wet and/or dry] lease basis:

**Name, detailed description and quantity**

Please provide the name of the manufacturer, the make and model and any other information to assist the United Nations in reviewing the application and making a comparison with other similar equipment. This comparison and assessment are necessary to make a recommendation for approval of a “special case” fair market value and monthly reimbursement. Please provide a picture.

2. The following information is provided to assist the United Nations in calculating rate(s) (under a wet and/or dry lease arrangement):

**Requests under wet and dry lease arrangements**

**Generic fair market value:** \_\_\_\_\_ [currency]

This amount takes into consideration the initial purchase price, major capital improvements, a factor to recognize the effects of inflation and a factor to discount prior use.<sup>1</sup>

**Estimated useful life in years (based on normal operations in home country):**

**Requests under wet lease arrangements only**

**Estimated monthly maintenance costs:** \_\_\_\_\_ [currency]

This figure is to be based on the spares, contracted repair, third- and fourth-line maintenance and the estimated monthly cost of petrol, oil and lubricants required to keep the item operational to the specified standards and return the item to operational condition upon return from the mission area. This estimate is based on normal operations. The cost of labour for first- and second-line maintenance is not included, as these are part of the normal tasks of military and police personnel responsible for maintaining equipment.

**Estimated monthly use:** \_\_\_\_\_ [kilometres, miles or hours]

This data is required only when seeking wet lease reimbursement for special case vehicles or equipment requiring petrol, oil and lubricants. This factor will be used to ensure that the estimated monthly maintenance and the estimated monthly use of petrol, oil and lubricants reported above are based on an activity rate that is similar to the estimate prepared for the mission area.

<sup>1</sup> A/C.5/49/70, annex, appendix II.C, para. 1 (a).

Chapter 6

**Chapter 6**

**Procedures for reimbursement for loss of or damage to contingent-owned equipment**

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## Chapter 6

**I. No-fault incidents**

1. A no-fault incident is defined as an incident resulting from a mishap that is not attributable to wilful misconduct or gross negligence on the part of an operator or custodian of equipment. This includes vehicle accidents and thefts.<sup>1</sup>

2. The wet lease and dry lease rates include a no-fault factor to cover loss of or damage to equipment in a no-fault incident. There is no additional reimbursement and no other claims are receivable in the event of loss of or damage to equipment in such incidents.<sup>2</sup>

3. The United Nations does not assume additional financial responsibilities resulting either from the inability to make payments for contingent-owned equipment owing to lack of funding or from “no-fault” losses when an insurance factor has been included in the usage charge agreed to in the memorandum of understanding with the troop/police contributor.<sup>3</sup>

**II. Loss, damage or injury in transit**

4. Liability for loss or damage during transportation will be assumed by the party arranging the transportation.<sup>4</sup> Transportation means all transportation arrangements along the consignment route arranged by the United Nations.<sup>5</sup>

5. Loss or damage incurred during transportation is reimbursable only when significant damage occurs to contingent-owned equipment during transportation arranged by the United Nations. Significant damage is defined as damage in which the repairs amount to 10 per cent or more of the generic fair market value of the item of equipment.<sup>6</sup>

**III. Liability for damage to major equipment owned by one troop/police contributor and used by another troop/police contributor**

6. Major equipment can be provided to the United Nations by one troop/police contributor to be used, at the request of the United Nations, by another troop/police contributor. In these cases, the following principles will apply:<sup>7</sup>

(a) Adequate training is necessary to ensure that a user is qualified to operate unique major equipment such as armoured personnel carriers. The United Nations will be responsible for ensuring that this training is conducted and for providing funding for the training. The arrangements to provide and conduct this training are to be negotiated among the United Nations, the troop/police contributor providing the major equipment and the troop/police contributor using the major equipment. The results of the negotiation are to be reflected in the respective memorandums of understanding;

(b) Major equipment provided to a United Nations field mission by a troop/police contributor and used by another troop/police contributor shall be treated

<sup>1</sup> [A/C.5/49/70](#), annex, appendix VI, para. 1.

<sup>2</sup> *Ibid.*, appendix I.A, para. 2 (f).

<sup>3</sup> [A/53/465](#), para. 53 (c); [A/53/944](#) and [A/53/944/Corr.1](#), para. 28; and General Assembly resolution [54/194](#), para. 6.

<sup>4</sup> [A/C.5/49/66](#), para. 50 and [A/C.5/52/39](#), para. 68 (a).

<sup>5</sup> [A/C.5/52/39](#), annex, para. 68 (a) and (b).

<sup>6</sup> *Ibid.*, para. 68 (c).

<sup>7</sup> [A/C.5/55/39](#) and [A/C.5/55/39/Corr.1](#), para. 50.

## Chapter 6

with due diligence. The troop/police contributor using the equipment shall be responsible for reimbursing the troop/police contributor providing it, through the United Nations, for any damage that may occur, whether as a result of wilful misconduct, gross negligence or negligence by personnel of the troop/police contributor using the equipment;

(c) Any incident involving damage shall be investigated and processed according to the application of United Nations rules and regulations;

(d) The above-mentioned principles and procedures shall be taken into account by the Secretariat when establishing or amending memorandums of understanding between the United Nations and troop/police contributors.

#### IV. Hostile action or forced abandonment

7. **Hostile action** is defined as an incident of short or sustained duration resulting from the action(s) of one or more belligerents that has a direct and significant hostile impact on the personnel and/or equipment of a troop/police contributor. A hostile action may be characterized as a single action when different activities can be related to each other by means of time, place or tactical/strategic considerations, as acknowledged by the Force Commander/Police Commissioner.<sup>8</sup>

8. **Forced abandonment** is defined as action(s) resulting from a decision approved by the Force Commander/Police Commissioner or his or her authorized representative or a provision in the rules of engagement that results in the loss of custody and control of equipment and supplies.<sup>9</sup>

9. Troop/police contributors are responsible for loss of or damage to major equipment resulting from a single hostile action or forced abandonment for each item of major equipment whose individual generic fair market value is below the threshold value of \$80,000 or when the collective generic fair market value for loss or damage is less than the threshold value of \$250,000 for actions within one United Nations budget year. For major equipment lost or damaged, the United Nations will assume liability for each item of major equipment whose individual generic fair market value equals or exceeds \$80,000 in a single action or for major equipment lost or damaged when the collective generic fair market value of such equipment equals or exceeds \$250,000 for a series of hostile actions within one United Nations budget year. No upper limit shall be placed on justified claims.<sup>10</sup>

- Troop/police contributors should submit claims for all incidents of damage or loss of equipment resulting from hostile actions or force abandonment. Reimbursement should be processed when the generic fair market value of major equipment lost or damaged equals or exceeds \$80,000 in a single action or when the generic fair market value of major equipment lost or damaged equals or exceeds \$250,000 within one United Nations budget year of the mission. When a troop/police contributor submits a claim for loss or damage in excess of \$250,000, the method of calculation is generic fair market value less the equipment use charge, that is, dry lease rate and any other environmental and logistics and road conditions use payments made by the United Nations for that equipment.

<sup>8</sup> A/C.5/49/70, annex, appendix VI, para. 2.

<sup>9</sup> Ibid., para. 3.

<sup>10</sup> A/C.5/71/20, para. 42 (d).

## Chapter 6

10. Equipment lost or damaged as a result of hostile action or forced abandonment can be considered, if already approved, for rotation at United Nations expense as indicated in paragraphs 27–30 of chapter 4.

11. The method of calculation for the reimbursement of the cost of such equipment is made at the generic fair market value rate less the equipment use charge, i.e. the cumulative payments to date under a dry lease and any other payments associated with the environmental or logistics and road conditions mission factors made by the United Nations for that equipment.

12. The generic fair market value of equipment reimbursed under a single-action incident counts towards the collective annual threshold of \$250,000.<sup>11</sup> However, the equipment will be reimbursed only once.

13. Reimbursement will be processed only after the troop/police contributor undertakes to replace or repair the equipment.<sup>12</sup>

14. A troop/police contributor cannot file claims against the United Nations for loss of or damage to spare parts, minor equipment and consumables. These are covered by the mission-approved hostile action or forced abandonment factor, which is applied to the spare parts component of the wet lease, as well as the self-sustainment rates,<sup>13</sup> and/or by the no-fault incident factor, included in the wet and dry lease rates.

15. When equipment is provided under a wet lease arrangement, the method of calculation for damage shall be the reasonable cost of repair. Equipment that has suffered damage will be considered a total loss when the cost of repair exceeds 75 per cent of the generic fair market value.<sup>14</sup>

16. A mission-approved hostile action or forced abandonment factor determined by the technical survey team at the initiation of the mission is applied to each category of the self-sustainment rates and to the spares element (or one half) of the estimated maintenance component of the wet lease rate and is not to exceed 6 per cent of the rates. This factor is intended to compensate troop/police contributors when the individual generic fair market value of each piece of major equipment lost or damaged in a single action is less than \$80,000 or when the collective generic fair market value of major equipment lost or damaged is less than \$250,000 in a series of actions within one United Nations budget year.<sup>15</sup> The procedures for determining this factor are included in chapter 7.

- In cases of hostile actions during transit as part of the initial deployment organized by the United Nations, the reimbursement for the loss or damage will cover both the major equipment and self-sustainment items. Claims on the self-sustainment items will be made based on the cargo documentation and invoices provided to the United Nations by the troop- and police-contributing countries for the transportation.

## V. Wilful misconduct or negligence

17. The United Nations has no responsibility for reimbursement when loss or damage is due to wilful misconduct or negligence by members of the troop/police contributor as

<sup>11</sup> Ibid.

<sup>12</sup> Ibid.

<sup>13</sup> [A/C.5/49/70](#), para. 47 (a); and annex, appendix I.A, para. 2 (f).

<sup>14</sup> Ibid., annex, para. 47 (b) (vi).

<sup>15</sup> [A/C.5/71/20](#), para. 42 (d).

determined by a board of inquiry convened by a duly authorized United Nations official, the report of which has been approved by the responsible United Nations official.<sup>16</sup>

18. In applying the term “gross negligence”, consideration will be given, as appropriate, to the criteria set out in the legal opinion of 30 June 1981, including its attachment, published in the *United Nations Juridical Yearbook 1981*, pages 165 and 166.<sup>17</sup>

## VI. Special case equipment

19. For special case equipment not currently incorporated into the wet and dry lease system, special arrangements between the United Nations and the country will apply.<sup>18</sup> The no-fault incident factor for special cases will be the same as for items of a similar type for which wet and dry lease rates have been promulgated.<sup>19</sup>

20. Unless special negotiated arrangements have been stated in the memorandum of understanding, loss of or damage to special case equipment shall be treated in the same manner as for other major equipment. At the time of the arrangements being made for special equipment, the value of the equipment and the lease rate will be determined and indicated in the memorandum of understanding.

21. Aircraft and vessels are not covered in the COE Manual; however, they continue to be the subject of negotiations and arrangements via letters of assist.

## VII. Reporting loss or damage

22. For all eligible incidents of loss of or damage to major equipment resulting from hostile action or forced abandonment, contingents are to submit a report to the Director/Chief of Mission Support of the mission, detailing the circumstances and including a listing of the major equipment lost or damaged. The Director or Chief of Mission Support, or his or her delegated representative, shall, with the assistance of the Force Commander, verify the report and investigate the circumstances. The mission shall immediately advise United Nations Headquarters (i.e. the Uniformed Capabilities Support Division of the Department of Operational Support) of any such occurrences.

23. Troop/police contributors incurring loss of or damage to major equipment as a result of hostile action or forced abandonment are to submit a claim to United Nations Headquarters (i.e. the Uniformed Capabilities Support Division of the Department of Operational Support) listing the major equipment lost or damaged. Missions are to provide to Headquarters copies of investigations into or board of inquiry reports on loss of or damage to such equipment.<sup>20</sup> The United Nations will endeavour to ensure that the board of inquiry process for the loss or damage in hostile action is completed in a timely manner and that claims are finalized within six months of receipt of the board of inquiry report and completed claim documentation from the troop- or police-contributing country.

<sup>16</sup> A/C.5/49/70, annex, para. 47 (c).

<sup>17</sup> Office of Legal Affairs memorandum dated 15 November 2000, attachment 2, para. 2.

<sup>18</sup> A/C.5/49/70, annex, para. 47 (a).

<sup>19</sup> Ibid., appendix I.C, para. 2.

<sup>20</sup> A/C.5/68/22, para. 116 (c).

## Chapter 7

**Chapter 7****Procedures for determining mission factors**

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## General

1. Mission factors are multipliers applied to the reimbursement rates for major equipment and self-sustainment (minor equipment and consumables) to compensate troop/police-contributors for specific conditions prevailing in the area of responsibility that cause unusual wear and tear, shorter life of equipment, increased maintenance costs and/or risk of damage to and loss of the equipment. These factors are included in mission budgets developed after a technical survey.<sup>1</sup> The same mission factors are applicable to all contingents in a geographical area and are subject to review should circumstances change.<sup>2</sup> Three mission factors have been defined as follows:<sup>3</sup>

(a) **An extreme environmental conditions factor** not to exceed 5 per cent of the wet lease or dry lease rate and the self-sustainment rate. A specific factor is to be recommended by the initial United Nations technical survey team for approval, taking into account elements such as extreme terrain and climatic/coastal conditions;

(b) **A logistics and road conditions factor** not to exceed 5 per cent of the wet lease or dry lease rate and the self-sustainment rate. A specific factor is to be recommended by the initial United Nations technical survey team for approval, taking into account elements such as the length of logistics chains, road conditions, size of area of responsibility and the non-availability of commercial repair and support facilities;

(c) **A hostile action or forced abandonment factor** not to exceed 6 per cent of the spares element of the wet lease rate (or half of the estimated monthly maintenance cost when the spares cost cannot be calculated separately)<sup>4</sup> and the self-sustainment rate to compensate for the cost of losses borne by contingents for minor equipment, spare parts and consumables.<sup>5</sup>

2. The mission factors may be determined by the technical survey team and should be reviewed during different phases of the mission. The factors, especially the hostile action factor, are subject to change depending on changes to the mission mandate and the prevailing conditions in the mission area, and should be reviewed at least once every three years. The United Nations or troop/police contributors can request a review of the mission factors whenever the conditions in the mission have changed sufficiently to warrant a review. Whenever a review is conducted, due consideration should be given to the suitability of assigning different mission factors for specific geographical areas within a mission or consolidating geographical areas for which different mission factors were previously assigned. Different mission factors may be calculated and applied to different geographical areas within a mission area, if recommended.<sup>6</sup> Each memorandum of understanding will be automatically updated with new mission factors within a maximum period of three months after the review of those factors, without the need for renegotiation.

3. If a natural disaster occurs in a mission area, it is the responsibility of the United Nations to determine the extent of the natural disaster in whole or in part. Thereafter, as circumstances permit, the United Nations shall assess the situation and review the factors and subfactors to be re-evaluated in accordance with conditions, within the limits of the existing ceilings on mission factors. The possible changes in the factors of the mission will be temporary and will be maintained during the period that the United Nations recognizes the significantly changed circumstances. Reimbursement as a result of the re-evaluation of the mission factors will be paid for the period for which the United Nations determines the changed circumstances exist.<sup>7</sup>

<sup>1</sup> A/C.5/49/70, annex, para. 49.

<sup>2</sup> A/C.5/52/39, para. 69, and A/53/944, para. 17.

<sup>3</sup> A/C.5/49/70, annex, paras. 34 and 49 (a) and (b); appendix I.B, note a (a); and appendix I.C, para. 4 (a) and (b).

<sup>4</sup> Ibid., annex, appendix II.C, para. 4 (a).

<sup>5</sup> Ibid., annex, para. 33 (b).

<sup>6</sup> A/C.5/52/39, para. 69 (a) and (b); A/53/944, para. 17; and A/C.5/68/22, para. 108 (a) (iii).

<sup>7</sup> A/C.5/65/16, para. 132.

**Annex A****Decision sheet to calculate extreme environmental conditions in a mission area**

| Evaluator (rank, name) | Mission area/subgeographical area<br>(if relevant) | Day/month/year |
|------------------------|--|----------------|
|                        |  | / /            |

**I. General**

1. The purpose of this decision sheet is to assist the evaluator in determining extreme environmental conditions factors in mission areas, which are introduced to compensate troop/police contributors for the impact of exceptional and extreme conditions that result in shorter equipment life and increased maintenance costs. This factor, not to exceed 5 per cent, is to be applied to the wet lease or dry lease rate and the self-sustainment rates.
2. This decision sheet is to be used by the technical survey team visiting the peacekeeping area at the beginning of a mission and during subsequent reviews. Upon returning from the survey mission, the technical survey team is to submit this report to the Military/Police Adviser and the Under-Secretary-General for Operational Support for review and approval. The resulting factor is to be indicated in the memorandum of understanding.
3. Although the elements cannot be assessed with complete objectivity, some assistance in that regard is provided. The evaluator will also have to base the assessment on military experience and common judgment to complete this evaluation.

**II. Elements**

4. The following conditions which might contribute to premature wear and tear of the equipment and increased maintenance costs are to be analysed:

**A. Terrain profile**

5. The terrain profiles identified for consideration in this mission factor are: (a) mountainous; (b) desert conditions; and (c) swampy, jungle and comparable conditions.
6. Percentage of area of responsibility: The evaluator should identify and measure the relative percentage of mountainous, desert, or swampy, jungle and comparable conditions in the area of responsibility. The sum of relative percentages should not exceed 100 per cent. In instances where there is an overlap of one or more terrain profiles, the most prevalent element which might contribute to premature wear and tear of equipment and increased maintenance costs should be used. This relative percentage of terrain profiles is customarily available from standard geographical/cartographical measures.
7. The criteria to be used to categorize the respective terrain conditions are:
  - (a) **Mountainous:** If the terrain can be characterized as rough mountains, i.e. steep gorges, peaks and substantial rock outcrop, allocate points for compatibility with subgroup(s) mentioned below based on the elevation from mean sea level;

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| <i>Elevation from mean sea level<br/>(A)</i>                                     | <i>Points<br/>(B)</i> | <i>Percentage of area<br/>of responsibility<sup>a</sup><br/>(C)</i> | <i>Allocated points<br/>(D) = (B) x ((C)/100)</i> |
|--|-----------------------|---|---|
| Normal (less than 800 metres)  | 0                     |   |   |
| Moderate (801–1,600 metres)  | 1                     |   |   |
| Substantial (1,601–2,400 metres)   | 2                     |   |   |
| Extreme (2,401 metres and above)   | 3                     |   |   |
| Total points (sum of (D) rounded off to two decimal places;<br>maximum 3 points) |                       |   |   |

<sup>a</sup> Sum of percentages of area of responsibility of all three subgroups of terrain profile should not exceed 100 per cent.

(b) **Desert conditions:** If the terrain can be characterized as desert, loose sand and sharp rocks are the main factors of the terrain profile. One method of assessing these factors is to allocate points for trafficability based on average speed with off road type vehicles;

| <i>Average speed<br/>(A)</i>   | <i>Points<br/>(B)</i> | <i>Percentage of area<br/>of responsibility<sup>a</sup><br/>(C)</i> | <i>Allocated points<br/>(D) = (B) x ((C)/100)</i> |
|--|-----------------------|---|---|
| Normal (over 30 kilometres/hour)   | 0                     |   |   |
| Moderate (20–29 kilometres/hour)   | 1                     |   |   |
| Substantial (10–19 kilometres/hour)  | 2                     |   |   |
| Extreme (below 10 kilometres/hour)   | 3                     |   |   |
| Total points (sum of (D) rounded off to two decimal places;<br>maximum 3 points) |                       |   |   |

<sup>a</sup> Sum of percentages of area of responsibility of all three subgroups of terrain profile should not exceed 100 per cent.

(c) **Swampy, jungle and comparable conditions:** If the terrain is characterized as densely covered by swamps, jungle or terrain of comparable difficulty, and the area will have to be negotiated by patrols and resupply traffic, one method of assessing these factors is to allocate points based on the tree cover in jungles within the area of responsibility, as follows:

- (i) Extreme: tree cover > 40 per cent (deciduous/evergreen, broad-leaved/needle-leaved) or vegetation that is aquatic or regularly flooded (swamp);
- (ii) Substantial: tree cover 15–40 per cent (deciduous/evergreen, broad-leaved/needle-leaved);
- (iii) Moderate: tree cover < 15 per cent (deciduous/evergreen, broad-leaved/needle-leaved);
- (iv) Normal: all areas which are not included in the above classes;

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| <i>Jungles/swampy areas<br/>(A)</i>  | <i>Points<br/>(B)</i> | <i>Percentage of area<br/>of responsibility<sup>a</sup><br/>(C)</i> | <i>Allocated points<br/>(D) = (B) x ((C)/100)</i> |
|--|-----------------------|---|---|
| Normal   | 0                     |   |   |
| Moderate   | 1                     |   |   |
| Substantial  | 2                     |   |   |
| Extreme  | 3                     |   |   |
| Total points (sum of (D) rounded off to two decimal places;<br>maximum 3 points) |                       |   |   |

<sup>a</sup> Sum of percentages of area of responsibility of all three subgroups of terrain profile should not exceed 100 per cent.

(d) **Total points for terrain profile:** sum of three subgroups above rounded off to two decimal places. \_\_\_\_\_ (maximum 3 points).

## B. Climatic and coastal conditions

### Climatic conditions

8. The climatic conditions identified for consideration in this mission factor are: (a) tropical climate; (b) tundra/cold/polar climate; and (c) desert climate.

9. Percentage of area of responsibility: the evaluator should identify and measure the relative percentage of tropical, tundra/cold/polar and desert conditions in the area of responsibility. The sum of relative percentages should not exceed 100 per cent. In instances where there is an overlap of one or more climatic profiles, the most prevalent element which might contribute to premature wear and tear of equipment and increased maintenance costs should be used. This relative percentage of climatic profiles is customarily available from standard geographical/cartographical measures and sources such as agroecological zone classifications.

10. The criteria to be used to categorize the respective climatic conditions are:

(a) **Tropical climate:**

(i) Normal: mean monthly temperature adjusted to sea level less than 18°C for all months, and moisture and precipitation stored in soil is greater than half of potential evapotranspiration less than 30 per cent of the year;

(ii) Moderate: mean monthly temperature adjusted to sea level greater than 18°C for all months, and moisture and precipitation stored in soil is greater than half of potential evapotranspiration between 30 and 50 per cent of the year;

(iii) Substantial: mean monthly temperature adjusted to sea level greater than 18°C for all months, and moisture and precipitation stored in soil is greater than half of potential evapotranspiration between 50 and 75 per cent of the year;

(iv) Extreme: mean monthly temperature adjusted to sea level greater than 18°C for all months, and moisture and precipitation stored in soil is greater than half of potential evapotranspiration for more than 75 per cent of the year;

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| <i>Tropical climate<br/>(A)</i>  | <i>Points<br/>(B)</i> | <i>Percentage of area<br/>of responsibility<sup>a</sup><br/>(C)</i> | <i>Allocated points<br/>(D) = (B) x ((C)/100)</i> |
|--|-----------------------|---|---|
| Normal   | 0                     |   |   |
| Moderate   | 1                     |   |   |
| Substantial  | 2                     |   |   |
| Extreme  | 3                     |   |   |
| Total points (sum of (D) rounded off to two decimal places;<br>maximum 3 points) |                       |   |   |

<sup>a</sup> Sum of percentages of area of responsibility of all three subgroups of climatic conditions should not exceed 100 per cent.

(b) **Tundra/cold/polar climate:**

(i) Normal: average daily high temperature is more than 0°C for each of the coldest five months;

(ii) Moderate: average daily low temperature is between -5°C and 0°C for each of the coldest five months;

(iii) Substantial: average daily low temperature is between -10°C and -5°C for each of the coldest five months;

(iv) Extreme: average daily low temperature is less than -10°C for each of the coldest five months.

| <i>Tundra/cold/polar climate<br/>(A)</i>   | <i>Points<br/>(B)</i> | <i>Percentage of area<br/>of responsibility<sup>a</sup><br/>(C)</i> | <i>Allocated points<br/>(D) = (B) x ((C)/100)</i> |
|--|-----------------------|---|---|
| Normal   | 0                     |   |   |
| Moderate   | 1                     |   |   |
| Substantial  | 2                     |   |   |
| Extreme  | 3                     |   |   |
| Total points (sum of (D) rounded off to two decimal places;<br>maximum 3 points) |                       |   |   |

<sup>a</sup> Sum of percentages of area of responsibility of all three subgroups of climatic conditions should not exceed 100 per cent.

(c) **Desert climate:**

(i) Normal: the index of the total ozone mapping spectrometer is less than 1.5;

(ii) Moderate: the index of the total ozone mapping spectrometer is between 1.5 and 2;

(iii) Substantial: the index of the total ozone mapping spectrometer is between 2 and 3;

(iv) Extreme: the index of the total ozone mapping spectrometer is more than 3;

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| <i>Desert climate<br/>(A)</i>  | <i>Points<br/>(B)</i> | <i>Percentage of area<br/>of responsibility<sup>a</sup><br/>(C)</i> | <i>Allocated points<br/>(D) = (B) x ((C)/100)</i> |
|--|-----------------------|---|---|
| Normal   | 0                     |   |   |
| Moderate   | 1                     |   |   |
| Substantial  | 2                     |   |   |
| Extreme  | 3                     |   |   |
| Total points (sum of (D) rounded off to two decimal places;<br>maximum 3 points) |                       |   |   |

<sup>a</sup> Sum of percentages of area of responsibility of all three subgroups of climatic conditions should not exceed 100 per cent.

(d) **Total points for climatic conditions:** sum of three subgroups above rounded off to two decimal places. \_\_\_\_\_ (maximum 3 points).

**Coastal conditions**

11. Coastal conditions are defined, in part, by the presence of sand, salt and humidity within a certain distance of the seashore. If the area of responsibility has a seashore, the evaluator will calculate the percentage of land area that is within 5 kilometres of the seashore.

| <i>Coastal conditions<br/>(A)</i>                                   | <i>Points<br/>(B)</i> | <i>Percentage of area<br/>of responsibility<br/>(C)</i> | <i>Allocated points<br/>(D) = (B) x ((C)/100)<sup>a</sup></i> |
|---|-----------------------|---|---|
| Percentage of area of responsibility<br>within 5 km of the seashore | 1                     |   |   |

<sup>a</sup> Rounded off to two decimal places. Maximum 1 point.

12. **Total points for climatic/coastal conditions:** \_\_\_\_\_ (maximum 4 points, rounded off to two decimal places).

**III. Summary**

| <i>Factors</i>                                    | <i>Points allocated</i> |
|---|-------------------------|
| A. Terrain profile (maximum 3 points)             |                         |
| B. Climatic/coastal conditions (maximum 4 points) |                         |
| Total (maximum 7 points)                          |                         |

13. The extreme environmental conditions factor, in percentage points, equals the total points divided by 1.4, as it must not exceed 5 per cent. The resulting factor is to be rounded off to one decimal place.

|          |
|----------|
| per cent |
|----------|

**Annex B****Decision sheet to calculate logistics and road conditions in a mission area**

| Evaluator (rank, name) | Mission area/subgeographical area<br>(if relevant) | Day/month/year |
|------------------------|--|----------------|
|                        |  | / /            |

**I. General**

1. The purpose of this decision sheet is to assist the evaluator in determining the logistics and road conditions factor in mission areas, which is introduced to compensate a troop/police contributor for the impact of exceptional and extreme logistics and road conditions that result in shorter equipment life and increased maintenance costs. This factor, not to exceed 5 per cent, is to be applied to the wet lease or dry lease rates and the self-sustainment rates.

2. This decision sheet is to be used by the technical survey team visiting the peacekeeping area at the beginning of a mission and during subsequent reviews. Upon returning from the survey mission, the technical survey team is to submit this report to the Military/Police Adviser and the Under-Secretary-General for Operational Support for review and approval. The resulting factor is to be indicated in the memorandum of understanding.

3. Although the elements cannot be assessed with complete objectivity, some assistance in that regard is provided. The evaluator will also have to base the assessment on military experience and common sense to complete this evaluation.

**II. Elements**

4. The following conditions which might contribute to premature wear and tear of the equipment and increased maintenance costs are to be analysed:

**A. Size of area of responsibility**

5. The average battalion or unit in a field mission is given an area of responsibility within which it is deployed in company- and platoon-size camps. If the battalion or unit has been given intensive tasks, e.g. controlling a ceasefire between two opposing parties, it will also be deployed in a line of observation and squad-size checkpoints.

6. Allocate points if the area of responsibility for the average battalion-size unit is significantly larger than the normal maximum size of an area, which for a unit with intensive tasks is assessed to be not more than 1,000 square kilometres and for those with extensive tasks, e.g. monitoring a peace agreement, is assessed to be not more than 10,000 square kilometres. If not applicable, put zero.

| <i>Size of the area of responsibility</i>                         | <i>Points allocated<br/>(maximum 4 points)<br/>(A)</i> |  |
|---|--|--|
| Area of responsibility is 2–3 times the normal maximum size       | 1  |  |
| Area of responsibility is 4–5 times the normal maximum size       | 2  |  |
| Area of responsibility is 6–7 times the normal maximum size       | 3  |  |
| Area of responsibility is 8 times the normal maximum size or more | 4  |  |

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**B. Length of logistics chains**

7. The resupply of battalions or units will normally be performed by logistics units provided by the mission. When contingents, in exceptional situations, must haul the resupply themselves, and this is performed over significantly longer distances than normal, this would qualify for inclusion in the logistics and road conditions factor.

8. If battalions or units with their own means of resupply must haul major parts of their resupply over a distance that is significantly longer than the normal 100 kilometres, allocate points as set out below. If not applicable, put zero.

| <i>Average distance (one way) of travel (select the most applicable distance)</i> | <i>Points allocated (B)</i> |
|---|-----------------------------|
| Distance to base of 0–200 kilometres  | 0                           |
| Distance to base of 201–300 kilometres  | 1                           |
| Distance to base of 301–500 kilometres  | 2                           |
| Distance to base of 501–800 kilometres  | 3                           |
| Distance to base of greater than 801 kilometres                                   | 4                           |

9. If the battalions or units must haul only part of their resupply, allocate points as set out below:

| <i>Percentage of supplies hauled (select the most applicable class)</i> | <i>Points allocated (C)</i> |
|---|-----------------------------|
| Small portion (10–29 per cent)  | 1                           |
| Substantial, but less than half (30–49 per cent)                        | 2                           |
| Substantial, and more than half (50–69 per cent)                        | 3                           |
| Most of the supply (70–100 per cent)                                    | 4                           |

10. Calculate the total points for length of logistics chains by dividing the points allocated based on the distance of travel (B) by the points allocated for the percentage of resupply hauled (C):

|   |
|---|
| <i>Total points for length of logistics chains (D) = (B)/(C)<br/>(Maximum 4 points. Rounded off to two decimal places.)</i> |
|   |

**C. Infrastructure**

11. Normally, one would expect to find available fixed structures to be acquired for repair workshops, storage and headquarters in the area of responsibility. If such facilities are scarce, allocate points as set out below.

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| <i>Availability of infrastructure</i>  |   | <i>Points allocated<br/>(maximum 4 points)<br/>(E)</i> |
|--|---|--|
| Sufficient facilities  | 0 |  |
| A few facilities located outside of the unit's area of responsibility  | 2 |  |
| Sufficient fixed structures but without technical support, such as electricity, oil drains or cranes within area of responsibility | 2 |  |
| A few fixed structures but without technical support within area of responsibility   | 3 |  |
| No fixed structures within area of responsibility  | 4 |  |

**D. Road conditions**

12. If roads, bridges or ferries are especially poor and impede communications between base camps and resupply points, allocate points for main and secondary roads as follows. If not applicable, put zero.

| <i>1. Main road conditions (select the most applicable class)</i> |   | <i>Points allocated<br/>(F)</i> |
|---|---|---------------------------------|
| Few hardened main roads/bridges                                   | 1 |                                 |
| Few dirt main roads/ferries                                       | 2 |                                 |
| No main roads   | 3 |                                 |

| <i>2. Secondary road conditions (select the most applicable class)</i> |   | <i>Points allocated<br/>(G)</i> |
|--|---|---------------------------------|
| Several secondary dirt roads   | 0 |                                 |
| Very few secondary dirt roads  | 1 |                                 |

13. Allocate points as set out below for the extension of the area with poor roads as a portion of the area of responsibility.

| <i>3. Percentage of the area of responsibility</i>   |   | <i>Points allocated<br/>(H)</i> |
|--|---|---------------------------------|
| Small portion (10–29 per cent)                       | 4 |                                 |
| Substantial, but less than half (30–49 per cent)     | 3 |                                 |
| Substantial, and more than half (50–69 per cent)     | 2 |                                 |
| Most of the area of responsibility (70–100 per cent) | 1 |                                 |

14. Calculate the total points for road conditions by dividing the sum of points for main and secondary road conditions ((F and (G) above) by the points allocated for the extension of the area with poor roads as a portion of the area of responsibility (H).

|  |
|--|
| <i>Total points for road conditions</i><br>$(I) = (F) + (G) / (H)$ <i>(Maximum 4 points. Rounded off to two decimal places.)</i> |
|  |

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**III. Summary**

15. Enter the points allocated above in this summary table and correct the figures, if required, as the resulting factor cannot exceed 5 per cent.

| <i>Factor</i>   | <i>Points allocated</i> |
|---|-------------------------|
| A. Size of area of responsibility (maximum 4 points) ( <i>A</i> ) |                         |
| B. Length of logistics chain (maximum 4 points) ( <i>D</i> )      |                         |
| C. Infrastructure (maximum 4 points) ( <i>E</i> )                 |                         |
| D. Road conditions (maximum 4 points) ( <i>I</i> )                |                         |
| Total (maximum 16 points)   |                         |

16. The logistics and road conditions factor, in percentage points, equals the total points divided by 3.2, as it must not exceed 5 per cent. The resulting factor is to be rounded off to one decimal place.

|          |
|----------|
| per cent |
|----------|

**Annex C****Decision sheet to calculate the hostile action or forced abandonment factor in a mission area**

| Evaluator (rank, name) | Mission area/subgeographical area<br>(if relevant) | Day/month/year |
|------------------------|--|----------------|
|                        |  | / /            |

**I. General**

1. The purpose of this decision sheet is to assist the evaluator in determining a factor in mission areas which is introduced to compensate troop/police contributors for the impact of hostile action or forced abandonment. This factor, not to exceed 6 per cent, is to be applied to the spares element of the wet lease rate (or half of the estimated monthly maintenance cost when the spares cost cannot be calculated separately) and the self-sustainment rates to compensate for the cost of losses borne by contingents for minor equipment, spare parts and consumables.

2. This decision sheet is to be used by the technical survey team visiting the peacekeeping area at the beginning of a mission and during subsequent reviews. Upon returning from the survey mission, the technical survey team is to submit this report to the Military/Police Adviser and to the Under-Secretary-General for Operational Support for review and approval. The resulting factor is to be indicated in the memorandum of understanding.

3. Although the elements cannot be assessed with complete objectivity, some assistance in that regard is provided. The evaluator will also have to base the assessment on military experience and common sense to complete this evaluation. When assessing the risk for hostile action and potential forced abandonment, the standards of traditional chapter VI peacekeeping operations must be kept in mind.

**II. Elements****A. Criminal activities, such as theft and robbery**

4. Occasional cases of theft occur in mission areas. If, however, criminal activities such as theft or robbery are frequent, allocate points as set out below. If not applicable, put zero.

|   |   |
|---|---|
| There is no effective national police force to control criminal activities                            | 2 |
| Disarmament of factions will take place or has already taken place                                    | 1 |
| There is an acceptance by the local authorities of banditry   | 2 |
| Banditry involving other United Nations agencies and non-governmental organizations frequently occurs | 3 |
| <b>Total</b>  |   |

**B. Potential for hostile engagement of United Nations forces by identified factions or combatants participating in the peace process**

5. In a traditional peacekeeping operation, the parties have agreed to settle disputes without the use of force. They are not always able to meet this obligation, however,

## Chapter 7, annex C

and some outbursts of violence are expected because the parties are, or are perceived to have been, provoked. Factions within the parties or local warlords might retain armed elements not controlled by the parties who sign the peace agreement. Threats to United Nations peacekeepers might increase if the parties have the habit of using weapons, such as artillery or homemade rockets, indiscriminately or if they often seek increased protection by taking up positions close to United Nations observation posts.

|  |   |
|--|---|
| The combatants are equipped with sufficient heavy weapons such as mortars, and medium to heavy machine guns, to inflict damage on United Nations equipment and facilities. Allocate points as follows if the combatants: |   |
| Have a few heavy weapons and are not in range of United Nations forces   | 1 |
| Have some heavy weapons but are not normally in range of United Nations forces   | 2 |
| Are well equipped with heavy weapons but are not in range of United Nations forces   | 2 |
| Are well equipped with heavy weapons and are in range of United Nations forces   | 4 |
| The combatants are not committed to a lasting peace  | 1 |
| There is a history of disintegration of ceasefires or peace agreements   | 4 |
| There have been officially sanctioned and frequent attacks on other United Nations agencies or non-governmental organizations  | 4 |
| <b>Total</b>   |   |

**C. Distribution of uncontrolled or unmapped explosive hazards**

6. Mines and other explosive hazards are one of the main threats in mission areas where fighting has occurred. These weapons are normally laid without proper registration and markings. If that is the case, allocate points as set out below. If not applicable, put zero.

|  |   |
|--|---|
| There are a few mines and other explosive hazards, which pose no immediate threat to the mission   | 1 |
| Main and secondary roads are free from mines and other explosive hazards, but field and open areas are mined or subject to other explosive hazards | 1 |
| Main roads and secondary areas are suspected of being mined or subject to other explosive hazards  | 3 |
| Heavy demining, including explosive ordnance disposal, is required to secure the area  | 3 |
| <b>Total</b>   |   |

**D. Potential for hostile engagement of United Nations forces by unidentified factions or by individuals or groups other than participants in the peace process**

7. Operating in an increasingly complex security environment, United Nations peacekeepers are now exposed to threats from more diverse sources. Individuals or groups identified by the United Nations and/or groups not party to the peace process, who are often unidentified, or who employ hostile/terrorist methods in the area of operations or other regions of the host nation, might seek to attack civilians or make targets of international organizations like the United Nations, constituting threats to United Nations peacekeeping assets.

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|   |   |
|---|---|
| The above-mentioned individuals or groups are present in the host nation outside the area of operations   | 1 |
| The above-mentioned individuals or groups are present within the area of operations   | 2 |
| There has been indiscriminate hostile action against civilians by the above-mentioned individuals or groups in regions of the host nation outside the area of operations                              | 1 |
| There has been indiscriminate hostile action against civilians by the above-mentioned individuals or groups in regions of the host nation within the area of operations                               | 3 |
| There has been hostile action by the above-mentioned individuals or groups against non-governmental organizations and/or international organizations other than the United Nations in the host nation | 3 |
| There has been hostile action by the above-mentioned individuals or groups against United Nations personnel and agencies in the host nation   | 5 |
| <b>Total</b>  |   |

### III. Summary

8. Enter the points allocated above in the below summary table.

| <i>Factor</i>  | <i>Maximum</i> | <i>Points allocated</i> |
|--|----------------|-------------------------|
| Criminal activities  | 8              |                         |
| Potential for hostile engagement of United Nations forces by identified factions or combatants participating in the peace process                            | 13             |                         |
| Distribution of uncontrolled or unmapped explosive hazards   | 6              |                         |
| Potential for hostile engagement of United Nations forces by unidentified factions, or by individuals or groups other than participants in the peace process | 15             |                         |
| <b>Total</b>   |                |                         |

9. The hostile action or forced abandonment factor, in percentage points, equals the total points divided by 7, as it must not exceed 6 per cent. The resulting factor is to be rounded off to one decimal place.

|          |
|----------|
| per cent |
|----------|

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**Annex D****Example of the calculation of a mission factor***Contingent-owned equipment*

|  |  |
|--|--|
| Extreme environmental conditions factor        | Applies to whole basic rate (dry and wet lease rates)                          |
| Logistics and road conditions factor           | Applies to whole basic rate (dry and wet lease rates)                          |
| Hostile action or forced abandonment factor    | Applies to half of the maintenance rate (wet lease and maintenance rates only) |
| Incremental transportation factor <sup>a</sup> | Applies to maintenance rate only (wet lease and maintenance rates only)        |

*Note:* The incremental transportation factor is not a mission factor; however, it is listed here to show the calculation methodology. 1 nautical mile = 1.852 kilometres, 1 statute mile = 1.6091 kilometres

<sup>a</sup> Compensates for the length of the logistics chain for transportation related to the resupply of spare parts. The incremental transportation factor is calculated by subtracting the first 800 kilometres from the distance between the port of embarkation and the port of entry, dividing the remainder by 800 and multiplying the result, rounded down to the nearest integer, by 0.25.

**Self-sustainment**

1. The incremental transportation factor does not apply to self-sustainment.
2. The extreme environmental conditions factor, logistics and road conditions factor and hostile action or forced abandonment factor added together apply to the whole self-sustainment basic rate.

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## Example:

## Major equipment

|                    | Dry lease<br>rate<br>(I) | Maintenance<br>rate<br>(II) | Wet lease<br>rate<br>(III: I+II) | Mission factor (percentage) |             |              |                | Calculated<br>monthly rate<br>(with factor)** | Quantity | Total monthly<br>reimbursement |
|--------------------|--------------------------|-----------------------------|----------------------------------|-----------------------------|-------------|--------------|----------------|---|----------|--------------------------------|
|                    |                          |                             |                                  | Env.<br>(IV)                | Log.<br>(V) | Hos.<br>(VI) | Inc.*<br>(VII) |   |          |                                |
| Containers:        |                          |                             |                                  |                             |             |              |                |   |          |                                |
| Workshop container | \$593                    | \$148                       | \$741                            | 1.5                         | 3.2         | 1.3          | 1              | \$778.27                                      | 2        | \$1,554                        |

\* Calculation of transportation factor:  $\frac{4,721 - 800}{800} = 4.90125$        $4 \times 0.25 = 1\%$

\*\* Calculation of monthly rate:

$$III + (III \times IV) + (III \times V) + \left(\frac{II}{2} \times VI\right) + (II \times VII)$$

$$\$741 + (\$741 \times 1.5 \text{ per cent}) + (\$741 \times 3.2 \text{ per cent})$$

$$+ \left(\frac{\$148}{2} \times 1.3 \text{ per cent}\right)$$

$$+ (\$148 \times 1 \text{ per cent})$$

*Abbreviations:* Env., extreme environmental conditions factor; Log., logistics and road conditions factor; Hos., hostile action or forced abandonment factor; Inc., incremental transportation factor.

## Self-sustainment

|                | Monthly<br>rate<br>(no factor)<br>(I) | Mission factor (percentage) |               |              |      | Calculated<br>monthly rate<br>(with factor)* | Number of<br>personnel | Total monthly<br>reimbursement |
|----------------|---------------------------------------|-----------------------------|---------------|--------------|------|--|------------------------|--------------------------------|
|                |                                       | Env.<br>(II)                | Log.<br>(III) | Hos.<br>(IV) | Inc. |  |                        |                                |
| Identification | \$1.21                                | 1.5                         | 3.2           | 1.3          | N/A  | \$1.28                                       | 50                     | \$64                           |

*Abbreviations:* Env., extreme environmental conditions factor; Log., logistics and road conditions factor; Hos., hostile action or forced abandonment factor; Inc., incremental transportation factor.

\* Calculation of monthly rate:  $I + I \times (II + III + IV)$

## Chapter 8

**Chapter 8****Reimbursement rates for major equipment  
and self-sustainment**

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## I. Introduction

1. The tables included in the present chapter show the rates approved by the General Assembly in its resolutions [71/296](#) of 30 June 2017 and [74/279](#) of 30 June 2020. Reimbursement rates under wet and dry lease arrangements for major equipment, self-sustainment rates and related provisions for loss and damage, extreme environmental conditions, logistics and road conditions and the risk of loss or damage as a result of hostile action or forced abandonment are to be reviewed on a triennial<sup>1</sup> basis.
2. The reimbursement payable will be adjusted when equipment listed in the memorandum of understanding is not in the mission area or is unserviceable.

## II. Major equipment and related minor equipment and consumables

### Lease options

3. Reimbursement for major equipment is based on the concepts of dry lease and wet lease arrangements, which are defined as follows:

(a) **Dry lease arrangement:** A reimbursement system whereby the troop/police contributor provides equipment to a field mission and the United Nations assumes responsibility for maintaining the equipment (or arranging with a third party for maintenance of the equipment). Under a dry lease arrangement, the costs associated with categories of deployed minor equipment are reimbursable. If a third party provides maintenance services, the third party will be reimbursed for the maintenance portion of the wet lease rate. Dry lease equipment may be operated by either the equipment-owning country or another country. The contractual relationship is between the United Nations and the equipment-owning country and/or the United Nations and the equipment-operating country.<sup>2</sup> Issues of third-party liability will be the subject of supplementary arrangement or addendum to the memorandum of understanding;

(b) **Wet lease arrangement:** Reimbursement system whereby the troop/police contributor assumes responsibility for maintaining and supporting deployed major and minor items of equipment.

4. The reimbursement rates are based on the generic fair market value of major equipment. The generic fair market value is determined by the General Assembly based on cost data submitted every three years by troop/police contributors on the initial purchase price plus any major capital improvements, adjusted for inflation and discounted for any prior usage, or the replacement value, whichever is less. The generic fair market value includes all items associated with the equipment in the performance of its operational role.

5. If equipment has been provided by one country but, at the request of the United Nations, is used by another country, the general concepts of the wet lease or dry lease arrangement continue to apply and the United Nations will be responsible for the equipment until its return to the providing country. Nevertheless, reimbursement for the contingent-owned equipment would be arranged by a trilateral or bilateral memorandum of understanding between the United Nations and the using country and/or the providing country.<sup>3</sup> In these instances, under a wet lease arrangement a

<sup>1</sup> [A/C.5/54/49](#), para. 26.

<sup>2</sup> [A/C.5/49/66](#), annex II, para. 4.

<sup>3</sup> *Ibid.*, annex, para. 49.

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providing country has a responsibility to maintain 90 per cent operational serviceability. When the total number of operationally serviceable vehicles is less than 90 per cent of the quantity authorized in the memorandum of understanding, the reimbursement will be reduced accordingly,<sup>4</sup> as is the case in instances in which a country provides major equipment for its own usage.<sup>5</sup>

6. The monthly dry lease rate is calculated as follows, except for generators provided under the ISO 8528 standard:

$$\frac{GFMV}{\text{estimated useful life}} \div 12 + \frac{GFMV \times \text{no fault incident factor}}{12}$$

7. The components of the modular wet lease system include all four elements as follows:<sup>6</sup>

(a) **Equipment usage charge** (i.e. dry lease);

(b) **Spare parts**: An average cost associated with the use of repair parts to support the equipment is added to the equipment usage charge. This cost includes an incremental transportation factor, based on distance zone modules, to account for costs associated with maintaining a spare parts inventory in the mission area and transporting spare parts into the mission area;

(c) **Maintenance**: An average cost associated with maintaining the equipment in the mission area to the standards established by the United Nations, regardless of the means used by the contingent to provide this service, is added to the equipment usage charge. This includes a factor for periodic repair and overhaul and for the provision of test equipment, tools and consumables, but is exclusive of the cost of personnel labour costs. The maintenance costs for vehicles under a dry lease should not exceed the associated maintenance rates under a wet lease. If this situation occurs, an initial assessment will determine if the cost overrun is attributable to environmental or operational factors. If this is not the case, the United Nations may reduce the dry lease reimbursement rate accordingly;<sup>7</sup>

(d) **Related minor equipment**: An average cost associated with minor equipment necessary to support the major equipment, but not reimbursed under another category, is also added to the equipment usage charge. This includes a factor to account for potential loss or damage;

8. When the United Nations cannot provide petrol, oil and lubricants, the troop/police contributor will be reimbursed at standard monthly rates, as approved by the General Assembly or through a letter of assist for special case equipment.<sup>8</sup>

9. When the United Nations provides a component of support under a wet lease arrangement, the contributing country is not entitled to reimbursement for that specific component.<sup>9</sup>

10. In the event that a troop/police contributor is requested to provide a specialist unit for unique or force-level tasks that exceed standard equipment usage rates, a bilateral memorandum of understanding may be required between the troop/police contributor and the United Nations. The memorandum of understanding may set a

<sup>4</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 42.

<sup>5</sup> A/C.5/49/70, annex, appendix I.A, para. 23.

<sup>6</sup> A/C.5/49/66, annex, para. 46 (c), and paras. 20 (a)-(c).

<sup>7</sup> A/C.5/49/70, annex, appendix I.A, para. 26.

<sup>8</sup> A/C.5/49/66, annex, para. 21, and A/C.5/49/70, annex, appendix I.B.

<sup>9</sup> Ibid., annex, para. 46 (d).

new reimbursement rate, even if a specific piece of major equipment has already been given a standard rate.<sup>10</sup>

11. If a contingent employs major equipment for self-sustainment support, the applicable troop/police contributor is not entitled to reimbursement for major equipment, but rather only to the applicable reimbursement for self-sustainment.<sup>11</sup> There may be instances in which a troop/police contributor provides services such as communications, medical and engineering services on a force level, in which case there may be an entitlement to reimbursement for major equipment,<sup>12</sup> whereas the same items used to provide services at the unit level would be considered as minor equipment and covered under self-sustainment.<sup>13</sup>

12. Reimbursement is limited to those items of major equipment (including associated minor equipment and consumables) specifically agreed to by the United Nations. Should a contingent provide less major equipment or self-sustainment than stipulated in the memorandum of understanding, the reimbursement to the troop/police contributor will be adjusted accordingly. Additional items deployed by contingents are not reimbursable unless authorized through additional negotiations between the United Nations and the troop/police contributor or as covered under extraordinary charges in the memorandum of understanding between the United Nations and the troop/police contributor prior to deployment of the equipment.<sup>14</sup> The United Nations undertakes to provide self-sustainment services and related minor equipment as negotiated in the memorandum of understanding.

### **Peacekeeping Capability Readiness System**

13. Units that reach the rapid deployment level of the Peacekeeping Capability Readiness System should be paid 25 per cent of the maintenance component rates for major equipment during the period those units are pledged to the System, as an incentive for troop/police contributors. The reimbursement payment for units not deployed during a peacekeeping budget year should be made at the end of that budget year. During the course of each peacekeeping budget year, the United Nations may perform at least one inspection of major equipment, and troop/police contributors may perform at least one mission rehearsal exercise, by the most practical means, either physically or virtually, certified and evaluated by the United Nations.

14. Should a troop/police contributor be asked to deploy and then deploy within 60 days, reimbursement for time spent at the rapid deployment level would be paid as soon as possible following deployment. A troop/police contributor that does not deploy when requested or that cannot deploy within 60 days when requested will forfeit any claims and recovery, if needed, of reimbursement for time spent at the rapid deployment level, unless the delay or cancellation is due to matters beyond their control and as agreed to by the United Nations.

15. The rapid deployment level, ideally, has the equivalent of an integrated brigade containing the following units: three infantry battalions, one logistics battalion, one force headquarters support company, one quick reaction force company, one engineering company, one level 2 hospital, one military police company, one signal company, one medium utility helicopter unit, one attack helicopter unit, one tactical

<sup>10</sup> [A/C.5/49/70](#), annex, appendix I, para. 2 (g).

<sup>11</sup> [A/C.5/52/39](#), para. 77, and [A/C.5/49/70](#), annex, para. 15.

<sup>12</sup> [A/C.5/49/70](#), annex, appendix I.A, paras. 3, 8 and 10.

<sup>13</sup> [A/C.5/49/66](#), annex, annex III, para. 6.

<sup>14</sup> *Ibid.*, annex, para. 46 (a).

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airlift unit, one explosive ordnance disposal unit, one airfield support unit and one unmanned aircraft system unit.<sup>15</sup>

### III. Self-sustainment

16. Discussions between the United Nations and troop/police contributors will result in an agreement on the capabilities to be provided by the United Nations and the contingent being deployed. As a starting point for negotiation, the United Nations will identify and request from troop/police contributors those self-sustainment capabilities which it cannot provide. The right of troop/police contributors to provide any or some categories of self-sustainment will be taken into consideration during the negotiation of the memorandum of understanding.<sup>16</sup> The United Nations has a responsibility, however, to ensure that any self-sustainment services provided by a troop/police contributor meet minimum operational capabilities and are compatible with the needs of other troop/police contributors, when interface is required, and that the cost to the United Nations is similar to what it would have cost the United Nations to arrange centrally for the provision of these self-sustainment services.

17. Should a contingent receive self-sustainment services from another contingent, the self-sustainment rates will be paid to the contingent providing the services.

18. Upon mission drawdown, a plan is to be developed to coordinate the timely departure of troop/police contingents and equipment following the cessation of operations and termination of a mission. Personnel reimbursements will continue at full rates until departure, in accordance with the drawdown plan. Reimbursement for self-sustainment will be in effect at full rates until the date of cessation of operations by a troop/police contributor or termination of the mission. Thereafter, the following categories will be reimbursed at 100 per cent and calculated upon the remaining actual deployed troop strengths until all contingent personnel have departed the mission area:<sup>17</sup>

- General/catering
- Communications/telephone
- General/laundry
- General/accommodation
- Medical/high-risk (epidemiological)
- Miscellaneous general stores/bedding
- Miscellaneous general stores/furniture

After the cessation of operations, reimbursement for other categories will be reduced to 50 per cent of the rates agreed in the memorandum of understanding calculated upon the remaining actual deployed troop strengths until all contingent personnel have departed the mission area. In the event of a contingent being required (if mutually agreed) to change the location of any base camp (unit or sub-unit level) as a result of an operational, logistical or administrative requirement, the troop/police contributor may submit a claim to the United Nations for reimbursement of the extra and reasonable costs of reinstalling the self-sustainment services under its responsibility.<sup>18</sup>

<sup>15</sup> A/C.5/71/20, para. 46.

<sup>16</sup> A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 67 (a).

<sup>17</sup> A/C.5/52/39, para. 70.

<sup>18</sup> A/C.5/65/16, para. 122 (b).

**Temporary operating base**

- The extended temporary operating bases deployment premium is a stand-alone incentive provided to military and police units that have been ordered to deploy to more than three temporary operating bases for a cumulative period of more than 12 months for mandate-related tasks and operational requirements. These extended deployments should be caused by extreme and unpredictable situations that: (a) result in a broader-than-anticipated deployment footprint; and (b) create a dynamic mission operational environment preventing the timely update of the statement of unit requirements. The request for the premium should be approved by the Force Commander of the mission where the units are deployed. If the extreme conditions stabilize and the dispersed footprint is still operationally required, the statement of unit requirements should be updated to reflect the revised operational requirements.
- The extended temporary operating bases deployment premium is equal to 5 per cent of the quarterly reimbursement owed to the troop/police contributor for the following key self-sustainment categories, as agreed in annex C to the memorandum of understanding:
  - (a) Catering;
  - (b) Communications;
  - (c) Explosive ordnance disposal;
  - (d) Field defence stores;
  - (e) Tentage.

To be eligible to receive the premium, five conditions must be met:

- (a) Formed units that have been ordered to deploy to more than three temporary operating bases for a cumulative period of more than 12 months for mandate-related tasks and operational requirements. This requirement for a dispersed operational footprint should be based on an extreme and unpredictable situation;
- (b) All five categories deployed to the temporary operating bases should be serviceable, without support from the mission, unless otherwise agreed on a cost-recovery basis;
- (c) Units may not have restrictions placed on their operations by their respective troop/police contributors outside of those accepted by the Department of Peace Operations and the Department of Operational Support in the memorandum of understanding. Recommendations submitted by missions should include documented evidence that units are operating without restrictions;
- (d) No premium payment shall be made to units subject to substantiated allegations of misconduct, including, but not limited to, sexual exploitation and abuse;
- (e) The deployed unit should have an existing, signed memorandum of understanding.

19. Tentage, portable toilets/ablution units, field kitchen and other equipment for use in a temporary operating base will be reimbursed as major equipment and should not be used in permanent camps.

## Annex A

## Reimbursement rates for major equipment under a wet lease or dry lease arrangement

(United States dollars)

| Category of equipment  | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|--|---|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
| <b>Accommodation equipment</b>   | Ablution facilities (up to 50 persons) <sup>f</sup>   | 10 000                    | 10                             | 89               | 85                     | 174                    | 0.2                                   |                                |               |                 |
|  | Camp unit, small (5 persons)  | 5 625                     | 12                             | 39               | 40                     | 79                     | 0.2                                   |                                |               |                 |
|  | Camp unit, medium (6 to 50 persons)   | 82 311                    | 15                             | 476              | 471                    | 947                    | 0.2                                   |                                |               |                 |
|  | Camp unit, large (51 to 150 persons)  | 347 547                   | 15                             | 1 998            | 1 989                  | 3 987                  | 0.2                                   |                                |               |                 |
|  | Maintenance workshop  | 32 556                    | 7                              | 129              | 393                    | 522                    | 0.2                                   |                                |               |                 |
|  | Office, communications and command posts  | 20 945                    | 15                             | 120              | 120                    | 240                    | 0.2                                   |                                |               |                 |
|  | Warehousing and storage   | 32 647                    | 7                              | 129              | 394                    | 523                    | 0.2                                   |                                |               |                 |
| Containers   | Ammunition magazine (storage)   | 24 030                    | 9                              | 40               | 227                    | 267                    | 0.2                                   |                                | 859           | 1 366           |
|  | Communications and command posts  | 158 265                   | 12                             | 195              | 1 165                  | 1 360                  | 0.5                                   |                                | 859           | 1 366           |
|  | Dental  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Insulated storage   | 50 766                    | 12                             | 48               | 361                    | 409                    | 0.2                                   |                                | 859           | 1 366           |
|  | Medical   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Refrigeration/freezer/food storage  | 36 637                    | 6                              | 53               | 515                    | 568                    | 0.2                                   |                                | 859           | 1 366           |
|  | Workshop  | 63 899                    | 9                              | 150              | 602                    | 753                    | 0.2                                   |                                | 859           | 1 366           |
| <b>Temporary operating base equipment</b><br>(applicable only to contingents with temporary operating base tasks – not for use in permanent camps) | Other containers  | 7 767                     | 10                             | 7                | 66                     | 73                     | 0.2                                   |                                | 659           | 1 005           |
|  | Field kitchen (self-propelled or trailer-mounted)   | 22 000                    | 10                             | 50               | 198                    | 248                    | 0.8                                   |                                |               |                 |
|  | Portable field toilet/shower/washbasin, set of 5 (up to 40 persons) <sup>s</sup>  | 48 413                    | 5                              | 38               | 815                    | 853                    | 0.2                                   |                                |               |                 |
|  | Portable toilets (self-propelled or trailer-mounted), including sewage holding capacity (up to 50 persons) <sup>s</sup> | 17 909                    | 10                             | 159              | 152                    | 311                    | 0.2                                   |                                |               |                 |
|  | Portable field latrine set (consists of 4 individual latrines, each for up to 20 persons) <sup>s</sup>                  | 1 000                     | 2                              | 8                | 42                     | 50                     | 0.2                                   |                                |               |                 |
|  | Portable dry toilet (e.g. composting) (up to 20 persons) <sup>s</sup>   | 3 210                     | 5                              | 29               | 54                     | 83                     | 0.2                                   |                                |               |                 |
|  | Portable chemical toilet (up to 20 persons) <sup>s</sup>  | 1 070                     | 5                              | 10               | 18                     | 28                     | 0.2                                   |                                |               |                 |
|  | Tents for deployable platoon (up to 40 persons)   | 13 186                    | 5                              | 99               | 222                    | 321                    | 0.2                                   |                                |               |                 |
|  | Tents for deployable squad (up to 10 persons)   | 3 900                     | 5                              | 10               | 66                     | 76                     | 0.2                                   |                                |               |                 |



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| Category of equipment  | Type of equipment  | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|--|--|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
| <b>Armaments</b>   | Anti-air-missile launchers   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Anti-armour grenade launcher (81 to 100 mm)                          | <b>9 225</b>              | 24                             | 8                | 36                     | <b>44</b>              | 0.5                                   |                                |               |                 |
|  | Anti-armour missile launchers  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Anti-tank grenade launcher (40 mm) (set of 2) <sup>c</sup>           | <b>1 548</b>              | 25                             | 61               | 6                      | <b>67</b>              | 0.5                                   |                                |               |                 |
|  | Anti-tank grenade launcher (40 mm) (set of 3) <sup>c</sup>           | <b>2 322</b>              | 25                             | 91               | 9                      | <b>100</b>             | 0.5                                   |                                |               |                 |
|  | Anti-tank grenade launcher (60–80 mm)                                | <b>1 643</b>              | 25                             | 10               | 6                      | <b>16</b>              | 0.5                                   |                                |               |                 |
|  | Crew-served machine guns (up to 10 mm)                               | <b>9 867</b>              | 25                             | 7                | 37                     | <b>44</b>              | 0.5                                   |                                |               |                 |
|  | Crew-served machine guns (11–15 mm)                                  | <b>16 071</b>             | 25                             | 9                | 60                     | <b>69</b>              | 0.5                                   |                                |               |                 |
|  | Howitzer, light towed  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Howitzer, medium towed   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Mortars (up to 60 mm)  | <b>2 413</b>              | 25                             | 4                | 9                      | <b>13</b>              | 0.5                                   |                                |               |                 |
|  | Mortars (61–82 mm)   | <b>13 067</b>             | 25                             | 9                | 49                     | <b>58</b>              | 0.5                                   |                                |               |                 |
|  | Mortars (83–122 mm)  | <b>21 853</b>             | 25                             | 13               | 82                     | <b>95</b>              | 0.5                                   |                                |               |                 |
|  | Recoilless gun   | <b>17 244</b>             | 25                             | 21               | 65                     | <b>85</b>              | 0.5                                   |                                |               |                 |
|  | Sniper rifle (sniper weapons system kit) (up to 10mm) <sup>c,d</sup> | <b>3 047</b>              | 25                             | 15               | 11                     | <b>26</b>              | 0.5                                   |                                |               |                 |
| Sniper rifle (sniper weapons system kit) (anti-materiel rifle) (up to 15mm) <sup>c,d</sup> | <b>5 142</b>   | 25                        | 25                             | 19               | <b>44</b>              | 0.5                    |                                       |                                |               |                 |
| <b>Canine unit equipment</b>   | Dogs, all types  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
| <b>Combat vehicles<sup>e</sup></b>   |  |                           |                                |                  |                        |                        |                                       |                                |               |                 |
| Armoured personnel carriers, tracked   | Air defence  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Air liaison outpost/forward air control/artillery                    | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Ambulance rescue   | <b>723 657</b>            | 25                             | 3 111            | 2 714                  | <b>5 825</b>           | 0.5                                   | 375                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Cargo  | <b>580 074</b>            | 25                             | 4 256            | 2 175                  | <b>6 431</b>           | 0.5                                   | 525                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Command post   | <b>1 031 481</b>          | 25                             | 2 755            | 3 696                  | <b>6 452</b>           | 0.3                                   | 150                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Infantry carrier, armed (class I)                                    | <b>841 150</b>            | 25                             | 5 085            | 3 154                  | <b>8 239</b>           | 0.5                                   | 525                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Infantry carrier, armed (class II)                                   | <b>633 854</b>            | 25                             | 4 308            | 2 377                  | <b>6 685</b>           | 0.5                                   | 525                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Infantry carrier, armed (class III)                                  | <b>389 274</b>            | 20                             | 2 382            | 1 784                  | <b>4 166</b>           | 0.5                                   | 525                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Infantry carrier, unarmed/dozer (class I)                            | <b>606 534</b>            | 25                             | 3 796            | 2 275                  | <b>6 070</b>           | 0.5                                   | 525                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Infantry carrier, unarmed/dozer (class II)                           | <b>317 623</b>            | 25                             | 2 132            | 1 191                  | <b>3 323</b>           | 0.5                                   | 525                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Missile-equipped   | <b>1 181 089</b>          | 15                             | 6 381            | 7 054                  | <b>13 435</b>          | 0.5                                   | 300                            | <b>1 825</b>  | <b>2 253</b>    |
|  | Mortar   | <b>632 957</b>            | 25                             | 2 488            | 2 374                  | <b>4 861</b>           | 0.5                                   | 300                            | <b>1 825</b>  | <b>2 253</b>    |

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| Category of equipment                | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|--------------------------------------|---|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
| Armoured personnel carriers, wheeled | Radar <sup>b,f</sup>  | Special case              |                                |                  |                        |                        |                                       |                                | 1 825         | 2 253           |
|                                      | Recovery  | 886 242                   | 24                             | 3 126            | 3 446                  | 6 572                  | 0.5                                   | 375                            | 1 825         | 2 253           |
|                                      | Air defence <sup>b</sup>  | Special case              |                                |                  |                        |                        |                                       |                                | 1 825         | 2 253           |
|                                      | Air liaison outpost/forward air control/artillery   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                                      | Ambulance rescue  | 592 403                   | 24                             | 2 727            | 2 551                  | 5 277                  | 1.0                                   | 338                            | 1 825         | 2 253           |
|                                      | Command post  | 798 959                   | 24                             | 1 311            | 2 974                  | 4 285                  | 0.3                                   | 75                             | 1 825         | 2 253           |
|                                      | Infantry carrier, armed (class I)   | 796 612                   | 25                             | 4 482            | 3 319                  | 7 801                  | 1.0                                   | 450                            | 1 825         | 2 253           |
|                                      | Infantry carrier, armed (class II)  | 662 508                   | 25                             | 3 748            | 2 760                  | 6 508                  | 1.0                                   | 450                            | 1 825         | 2 253           |
|                                      | Infantry carrier, armed (class III)   | 377 850                   | 20                             | 2 166            | 1 889                  | 4 055                  | 1.0                                   | 450                            | 1 825         | 2 253           |
|                                      | Infantry carrier, unarmed (class I)   | 587 497                   | 25                             | 3 262            | 2 448                  | 5 710                  | 1.0                                   | 450                            | 1 825         | 2 253           |
|                                      | Infantry carrier, unarmed (class II)  | 319 310                   | 24                             | 1 736            | 1 375                  | 3 110                  | 1.0                                   | 450                            | 1 825         | 2 253           |
|                                      | Mine-resistant ambush-protected vehicle, light (6 to less than 8 kg blast anti-tank mine)           | 304 710                   | 15                             | 3 555            | 1 718                  | 5 273                  | 0.1                                   | 350                            | 891           | 1012            |
|                                      | Mine-resistant ambush protected vehicle, heavy (greater than or equal to 8 kg blast anti-tank mine) | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                                      | Missile-equipped  | 1 093 281                 | 15                             | 4 355            | 6 985                  | 11 340                 | 1.0                                   | 225                            | 1 825         | 2 253           |
| Mortar <sup>b</sup>                  | 602 397   | 24                        | 1 995                          | 2 594            | 4 589                  | 1.0                    | 225                                   | 1 825                          | 2 253         |                 |
| Carrier, oversnow                    | Radar   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                                      | Recovery  | 673 602                   | 24                             | 3 777            | 2 900                  | 6 678                  | 1.0                                   | 450                            | 1 825         | 2 253           |
|                                      | Infantry carrier  | 178 864                   | 15                             | 3 148            | 1 068                  | 4 216                  | 0.5                                   | 105                            | 1 825         | 2 253           |
|                                      | Infantry carrier, armoured  | 288 491                   | 20                             | 4 593            | 1 322                  | 5 916                  | 0.5                                   | 263                            | 1 825         | 2 253           |
|                                      | General purpose (Snowcat)   | 42 653                    | 15                             | 1 491            | 248                    | 1 739                  | 0.3                                   | 146                            | 1 825         | 2 253           |
|                                      | Missile-equipped <sup>b</sup>   | 748 788                   | 12                             | 4 862            | 5 387                  | 10 249                 | 0.3                                   | 60                             | 1 825         | 2 253           |
|                                      | Command post <sup>b</sup>   | 246 811                   | 15                             | 1 346            | 1 433                  | 2 779                  | 0.3                                   | 30                             | 1 825         | 2 253           |
| Reconnaissance vehicles              | Tracked   | 297 644                   | 22                             | 4 135            | 1 251                  | 5 386                  | 0.5                                   | 438                            | 1 296         | 1 356           |
|                                      | Wheeled, up to 25 mm  | 292 688                   | 25                             | 4 220            | 1 220                  | 5 439                  | 1.0                                   | 600                            | 1296          | 1 356           |
|                                      | Wheeled, more than 25 mm  | 408 278                   | 25                             | 4 313            | 1 701                  | 6 014                  | 1.0                                   | 600                            | 1 296         | 1 356           |
|                                      | Wheeled, more than 50 mm  | 729 911                   | 25                             | 4 930            | 3 041                  | 7 972                  | 1.0                                   | 600                            | 1 296         | 1 356           |
|                                      | Wheeled, more than 100 mm   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
| Self-propelled artillery             | Light howitzer  | 995 980                   | 30                             | 1 572            | 2 850                  | 4 422                  | 0.1                                   | 45                             |               |                 |
|                                      | Medium howitzer   | 1 091 764                 | 30                             | 1 745            | 3 124                  | 4 869                  | 0.1                                   | 45                             |               |                 |
|                                      | Heavy howitzer  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |

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| Category of equipment                              | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|--|---|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
| Tanks  | Main battle tank, medium (up to 50 tons)                                    | <b>1 600 424</b>          | 25                             | 4 706            | 6 002                  | <b>10 708</b>          | 0.5                                   |                                |               |                 |
|  | Main battle tank, heavy (more than 50 tons)                                 | <b>1 786 255</b>          | 25                             | 6 017            | 6 698                  | <b>12 715</b>          | 0.5                                   |                                |               |                 |
|  | Tank, recovery vehicle  | <b>1 513 262</b>          | 25                             | 4 283            | 5 675                  | <b>9 957</b>           | 0.5                                   |                                |               |                 |
|  | All other tanks   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Armoured infantry fighting/airborne/special vehicle                         | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
| <b>Communications equipment</b>                    |   |                           |                                |                  |                        |                        |                                       |                                |               |                 |
| VHF/UHF equipment                                  | Air-ground base station transceivers, AM/FM                                 | <b>34 387</b>             | 7                              | 287              | 415                    | <b>702</b>             | 0.2                                   |                                |               |                 |
|  | Microwave links   | <b>85 138</b>             | 10                             | 563              | 724                    | <b>1 287</b>           | 0.2                                   |                                |               |                 |
|  | Mobile stations for trunking systems  | <b>545</b>                | 9                              | 5                | 5                      | <b>10</b>              | 0.2                                   |                                |               |                 |
|  | Paging equipment  | <b>2 318</b>              | 10                             | 20               | 20                     | <b>40</b>              | 0.2                                   |                                |               |                 |
|  | Portable MTSX for trunking  | <b>2 326</b>              | 8                              | 20               | 25                     | <b>45</b>              | 0.2                                   |                                |               |                 |
|  | Repeaters   | <b>3 513</b>              | 7                              | 25               | 42                     | <b>67</b>              | 0.2                                   |                                |               |                 |
|  | VHF alarm units   | <b>2 255</b>              | 9                              | 12               | 21                     | <b>34</b>              | 0.2                                   |                                |               |                 |
|  | VHF multiplex channels  | <b>52 322</b>             | 10                             | 153              | 445                    | <b>598</b>             | 0.2                                   |                                |               |                 |
| HF equipment                                       | Antennas, log periodic – directional high-power                             | <b>25 470</b>             | 24                             | 7                | 93                     | <b>100</b>             | 0.2                                   |                                |               |                 |
|  | Base receiver, HF high power  | <b>8 230</b>              | 7                              | 24               | 99                     | <b>123</b>             | 0.2                                   |                                |               |                 |
|  | Base station transmitter, HF high power                                     | <b>22 314</b>             | 7                              | 39               | 269                    | <b>309</b>             | 0.2                                   |                                |               |                 |
|  | Phone patch interlink   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
| Satellite equipment                                | Earth station, non-redundant  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Earth station, redundant  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Earth station hub   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Earth station sub-hub   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Inmarsat type C, portable earth station <sup>f</sup>                        | <b>14 214</b>             | 7                              | 99               | 175                    | <b>274</b>             | 0.5                                   |                                |               |                 |
|  | Inmarsat Broadband Global Area Network, portable earth station <sup>f</sup> | <b>8 595</b>              | 7                              | 94               | 106                    | <b>200</b>             | 0.5                                   |                                |               |                 |
|  | Iridium Certus broadband portable earth station <sup>f</sup>                | <b>7 595</b>              | 7                              | 91               | 94                     | <b>185</b>             | 0.5                                   |                                |               |                 |
|  | Satellite phone <sup>c,f</sup>  | <b>1 315</b>              | 7                              | 69               | 16                     | <b>85</b>              | 0.2                                   |                                |               |                 |
|  | Satellite receivers/television receive only terminal                        | <b>166 116</b>            | 9                              | 154              | 1 566                  | <b>1 720</b>           | 0.2                                   |                                |               |                 |
|  | Uninterruptible power supply satellite station                              | <b>539</b>                | 9                              | 5                | 5                      | <b>10</b>              | 0.2                                   |                                |               |                 |
| Global Tx/Rx (transmit/receive) VSAT Earth station | <b>213 481</b>  | 9                         | 215                            | 2 012            | <b>2 227</b>           | 0.2                    |                                       |                                |               |                 |
| Telephone equipment                                | Cryptofax   | <b>3 470</b>              | 7                              | 4                | 42                     | <b>46</b>              | 0.2                                   |                                |               |                 |
|  | Cyphering equipment   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |

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| Category of equipment  | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|--|---|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
|  | Telephone exchange, large (1–1,100 lines)   | <b>431 344</b>            | 15                             | 111              | 2 468                  | <b>2 579</b>           | 0.2                                   |                                |               |                 |
|  | Telephone exchange (private automatic branch exchange system) (1–100 lines)   | <b>69 578</b>             | 12                             | 50               | 495                    | <b>545</b>             | 0.2                                   |                                |               |                 |
| Airfield support equipment   | All radars  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Approach systems/lighting   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Control tower   | <b>4 560 228</b>          | 20                             | 13 185           | 19 761                 | <b>32 946</b>          | 0.2                                   |                                |               |                 |
|  | Navigation systems  | <b>2 021 455</b>          | 10                             | 5 951            | 17 182                 | <b>23 133</b>          | 0.2                                   |                                |               |                 |
| Miscellaneous communications equipment   | Antenna towers  | <b>5 382</b>              | 20                             | 11               | 23                     | <b>35</b>              | 0.2                                   |                                |               |                 |
|  | Cell phones (set of 5) <sup>c</sup>   | <b>1 219</b>              | 5                              | 10               | 21                     | <b>31</b>              | 0.2                                   |                                |               |                 |
|  | Radio frequency inhibitors/cell phone jammer (portable/man pack) (set of 3) <sup>c</sup>                                | <b>1 524</b>              | 7                              | 10               | 18                     | <b>29</b>              | 0.2                                   |                                |               |                 |
|  | Radio frequency inhibitors/cell phone jammer (vehicle-mounted) <sup>c</sup>   | <b>1 016</b>              | 7                              | 18               | 12                     | <b>30</b>              | 0.2                                   |                                |               |                 |
|  | Radio frequency tracker/bug locator (set of 4) <sup>c</sup>   | <b>1 219</b>              | 7                              | 5                | 15                     | <b>20</b>              | 0.2                                   |                                |               |                 |
|  | Tactical satellite terminal <sup>c</sup>  | <b>91 413</b>             | 7                              | 102              | 1 103                  | <b>1 205</b>           | 0.2                                   |                                |               |                 |
|  | Underwater communications systems   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Uninterruptable power supply, 10 kVA and up   | <b>8 924</b>              | 10                             | 90               | 76                     | <b>166</b>             | 0.2                                   |                                |               |                 |
|  | Videoconferencing system <sup>c</sup>   | <b>5 586</b>              | 7                              | 15               | 67                     | <b>83</b>              | 0.2                                   |                                |               |                 |
| <b>Communications vehicles</b>   | Air liaison outpost/forward air control post/tactical air control post, wheeled   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Mobile tactical communications post <sup>c</sup>  | <b>48 754</b>             | 12                             | 555              | 359                    | <b>913</b>             | 0.5                                   | 150                            | <b>891</b>    | <b>1 012</b>    |
|  | Mobile trunking system  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|  | Trailer, communications suite   | Special case              |                                |                  |                        |                        |                                       |                                | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, communications (light)   | <b>51 037</b>             | 12                             | 567              | 376                    | <b>942</b>             | 0.5                                   | 30                             | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, communications (medium)  | Special case              |                                |                  |                        |                        |                                       |                                | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, communications (heavy)   | Special case              |                                |                  |                        |                        |                                       |                                | <b>1 195</b>  | <b>1 443</b>    |
| <b>Demining, explosive ordnance and improvised explosive device disposal equipment<sup>f</sup></b> | Man-portable high-power electronic countermeasure (cell/GPS/jammer) <sup>c</sup>  | <b>38 698</b>             | 7                              | 6                | 464                    | <b>470</b>             | 0.1                                   |                                |               |                 |
|  | Handheld (mine) detector (dual sensor with active metal detection and ground-penetrating radar)                         | <b>10 807</b>             | 5                              | 106              | 181                    | <b>287</b>             | 0.1                                   |                                |               |                 |
|  | Vehicle-mounted electronic countermeasure (jammer) against remotely activated improvised explosive devices <sup>c</sup> | <b>122 252</b>            | 7                              | 1 382            | 1 466                  | <b>2 848</b>           | 0.1                                   |                                |               |                 |

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| Category of equipment   | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|---|---|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
|   | Advanced hook and line toolkit for improvised explosive device disposal (vehicle and building access kit)   | 2 769                     | 2                              | 8                | 116                    | 124                    | 0.1                                   |                                |               |                 |
|   | Telescopic pole   | 660                       | 2                              | 6                | 28                     | 34                     | 0.1                                   |                                |               |                 |
|   | Collapsible ladder  | 254                       | 2                              | 3                | 11                     | 14                     | 0.1                                   |                                |               |                 |
|   | Explosives field identification kit (chemical quick test)   | 203                       | 2                              | 25               | 8                      | 34                     | 0.1                                   |                                |               |                 |
|   | <b>Set total</b>  | <b>9 072</b>              | <b>2</b>                       | <b>248</b>       | <b>379</b>             | <b>627</b>             |                                       |                                |               |                 |
|   | Mine-clearance system, vehicle-mounted  |                           |                                |                  |                        |                        |                                       |                                |               |                 |
|   | Special case  |                           |                                |                  |                        |                        |                                       |                                |               |                 |
|   | Handheld explosive identification analyser (Raman spectrometer, mass spectrometer, etc.)  | 81 256                    | 5                              | 813              | 1 361                  | 2 174                  | 0.1                                   |                                |               |                 |
|   | Non-linear junction detector  | 8 126                     | 5                              | 81               | 136                    | 217                    | 0.1                                   |                                |               |                 |
|   | Fibre-optic scope   | 7 618                     | 5                              | 51               | 128                    | 178                    | 0.1                                   |                                |               |                 |
|   | Handheld cable detector   | 2 539                     | 5                              | 25               | 43                     | 68                     | 0.1                                   |                                |               |                 |
|   | Personal dosimeters (with capability to read exposure levels)   | 609                       | 5                              | 20               | 10                     | 31                     | 0.1                                   |                                |               |                 |
| <b>Demining, vehicles for the disposal of explosive ordnance and improvised explosive devices</b> | Remote-control mine clearance tracked vehicle <sup>c</sup>  | 599 121                   | 20                             | 431              | 2 546                  | 2 977                  | 0.1                                   | 250                            | 891           | 1 012           |
|   | Mine-resistant ambush-protected vehicles with armoured cabin explosive ordnance disposal/improvised explosive device disposal team truck vehicle <sup>c</sup> | 797 396                   | 15                             | 3 826            | 4 496                  | 8 323                  | 0.1                                   | 450                            | 891           | 1 012           |
|   | Remotely operated vehicle with observation and/or disruption capacity <sup>c,u</sup>  | 92 932                    | 10                             | 1 016            | 782                    | 1 798                  | 0.1                                   | 150                            |               |                 |
| <b>Electrical equipment</b>   |   |                           |                                |                  |                        |                        |                                       |                                |               |                 |
| Generators, stationary and mobile   | 20–30 kVA   | 43 003                    | 12                             | 144              | 317                    | 461                    | 0.5                                   | 309                            | 221           | 324             |
|   | 31–40 kVA   | 45 544                    | 12                             | 187              | 335                    | 522                    | 0.5                                   | 432                            | 221           | 324             |
|   | 41–50 kVA   | 60 084                    | 12                             | 189              | 442                    | 631                    | 0.5                                   | 555                            | 221           | 324             |
|   | 51–75 kVA   | 72 965                    | 12                             | 202              | 537                    | 739                    | 0.5                                   | 771                            | 221           | 324             |
|   | 76–100 kVA  | 77 648                    | 12                             | 224              | 572                    | 795                    | 0.5                                   | 1 080                          | 334           | 352             |
|   | 101–150 kVA   | 88 859                    | 12                             | 296              | 632                    | 928                    | 0.2                                   | 1 543                          | 334           | 352             |
|   | 151–200 kVA   | 116 506                   | 15                             | 448              | 667                    | 1 115                  | 0.2                                   | 2 160                          | 334           | 352             |
|   | 201–500 kVA   | 167 360                   | 14                             | 560              | 1 024                  | 1 584                  | 0.2                                   | 3 086                          | 362           | 407             |
|   | Greater than 500 kVA  |                           |                                |                  |                        |                        |                                       |                                | 362           | 407             |
|   | Special case  |                           |                                |                  |                        |                        |                                       |                                |               |                 |
| Generators, ISO 8528 prime power  | 20–30 kVA <sup>c</sup>  | 18 486                    | 6                              | 482              | 260                    | 742                    | 0.2                                   | 309                            | 221           | 324             |
|   | 31–40 kVA <sup>b,c</sup>  | 20 923                    | 6                              | 491              | 294                    | 785                    | 0.2                                   | 432                            | 221           | 324             |
|   | 41–50 kVA <sup>c</sup>  | 26 713                    | 6                              | 562              | 375                    | 937                    | 0.2                                   | 555                            | 221           | 324             |

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| Category of equipment   | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate  | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|---|---|---------------------------|--------------------------------|---|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
| standard and role generator   | 51–75 kVA <sup>c</sup>  | <b>28 033</b>             | 6                              | 584   | 394                    | <b>978</b>             | 0.2                                   | 771                            | <b>221</b>    | <b>324</b>      |
|   | 76–100 kVA <sup>c</sup>   | <b>32 807</b>             | 6                              | 736   | 461                    | <b>1 198</b>           | 0.2                                   | 1 080                          | <b>334</b>    | <b>352</b>      |
|   | 101–150 kVA <sup>c</sup>  | <b>40 019</b>             | 6                              | 1 049   | 562                    | <b>1 612</b>           | 0.2                                   | 1 543                          | <b>334</b>    | <b>352</b>      |
|   | 151–200 kVA <sup>c</sup>  | <b>48 347</b>             | 6                              | 1 329   | 680                    | <b>2 008</b>           | 0.2                                   | 2 160                          | <b>334</b>    | <b>352</b>      |
|   | 201–330 kVA <sup>c</sup>  | <b>54 442</b>             | 6                              | 1 659   | 765                    | <b>2 424</b>           | 0.2                                   | 2 800                          | <b>362</b>    | <b>407</b>      |
|   | 331–500 kVA <sup>c</sup>  | <b>65 563</b>             | 6                              | 1 836   | 922                    | <b>2 758</b>           | 0.2                                   | 3 086                          | <b>362</b>    | <b>407</b>      |
|   | Greater than 500 kVA <sup>c</sup>   | Special case              |                                |   |                        |                        |                                       |                                | <b>362</b>    | <b>407</b>      |
| Generators, ISO 8528  | Limited-time-running power generator <sup>c</sup>   |                           | 12                             | Wet lease reimbursement at 50 per cent of equivalent prime power rate |                        |                        |                                       |                                |               |                 |
|   | Emergency-standby power generator <sup>c</sup>  |                           | 12                             | Wet lease reimbursement at 30 per cent of equivalent prime power rate |                        |                        |                                       |                                |               |                 |
| <b>Renewable energy – solar photovoltaic system integrated with diesel generator(s) in a hybrid low-penetration configuration</b> | 24–36 kWp nominal capacity (integrated in a hybrid system with a 101–150 kVA total capacity) <sup>q</sup>   | <b>49 740</b>             | 7                              | 90  | 600                    | <b>690</b>             | 0.2                                   |                                |               |                 |
|   | 37–48 kWp nominal capacity (integrated in a hybrid system with a 151–200 kVA total capacity) <sup>q</sup>   | <b>70 434</b>             | 7                              | 128   | 850                    | <b>978</b>             | 0.2                                   |                                |               |                 |
|   | 49–80 kWp nominal capacity (integrated in a hybrid system with a 201–330 kVA total capacity) <sup>q</sup>   | <b>106 860</b>            | 7                              | 193   | 1 290                  | <b>1 483</b>           | 0.2                                   |                                |               |                 |
|   | 81–120 kWp nominal capacity (integrated in a hybrid system with a 331–500 kVA total capacity) <sup>q</sup>  | <b>166 500</b>            | 7                              | 301   | 2 010                  | <b>2 311</b>           | 0.2                                   |                                |               |                 |
|   | 121–150 kWp nominal capacity (integrated in a hybrid system with a 500–625 kVA total capacity) <sup>q</sup>   | <b>224 505</b>            | 7                              | 406   | 2 710                  | <b>3 116</b>           | 0.2                                   |                                |               |                 |
|   | Greater than 151 kWp nominal capacity (integrated in a hybrid system with a greater than 626 kVA total capacity) <sup>q</sup>                                   | Special case              |                                |   |                        |                        |                                       |                                |               |                 |
| Other types of renewable energy systems   | Renewable energy storage systems <sup>r</sup>   | Special case              |                                |   |                        |                        |                                       |                                |               |                 |
|   | Medium- and high-penetration hybrid systems power penetration (photovoltaic peak power kW to generator 100 per cent load rating kW) of greater than 35 per cent | Special case              |                                |   |                        |                        |                                       |                                |               |                 |
|   | Autonomous photovoltaic and battery systems, with or without backup or peak demand generators   | Special case              |                                |   |                        |                        |                                       |                                |               |                 |
|   | Solar photovoltaic area and street lighting units, equipped with LEDs, batteries and sensors-timers   | Special case              |                                |   |                        |                        |                                       |                                |               |                 |
|   | Other renewable energy systems <sup>v</sup>   | Special case              |                                |   |                        |                        |                                       |                                |               |                 |

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| <i>Category of equipment</i>  | <i>Type of equipment</i>  | <i>Generic fair market value</i> | <i>Estimated useful life in years</i> | <i>Maintenance rate</i> | <i>Monthly dry lease rate</i> | <i>Monthly wet lease rate</i> | <i>No-fault incident factor (percentage)</i> | <i>Monthly non-United Nations POL</i> | <i>Painting rate</i> | <i>Repainting rate</i> |
|---|---|----------------------------------|---------------------------------------|-------------------------|-------------------------------|-------------------------------|--|---------------------------------------|----------------------|------------------------|
| <b>Engineering equipment</b>  | Assault boat and motor (Zodiac type)  | <b>16 567</b>                    | 8                                     | 154                     | 179                           | <b>333</b>                    | 0.5  | 240                                   | <b>567</b>           | <b>735</b>             |
|   | Bridging boat   | <b>180 747</b>                   | 25                                    | 1 188                   | 678                           | <b>1 866</b>                  | 0.5  | 775                                   |                      |                        |
|   | Bridging sets (Bailey or equivalent, set of 100 feet)   | <b>484 208</b>                   | 39                                    | 5 730                   | 1 075                         | <b>6 805</b>                  | 0.1  |                                       |                      |                        |
|   | Compactor plate   | <b>538</b>                       | 5                                     | 4                       | 9                             | <b>13</b>                     | 0.5  |                                       |                      |                        |
|   | Concrete cutter   | <b>5 275</b>                     | 15                                    | 79                      | 32                            | <b>110</b>                    | 0.5  |                                       |                      |                        |
|   | Concrete mixer machine, above 1.5 m <sup>3</sup>  | <b>7 971</b>                     | 10                                    | 107                     | 70                            | <b>177</b>                    | 0.5  |                                       |                      |                        |
|   | Concrete mixer machine, below 1.5 m <sup>3</sup>  | <b>1 891</b>                     | 8                                     | 34                      | 20                            | <b>54</b>                     | 0.1  |                                       |                      |                        |
|   | Concrete vibrator   | <b>1 488</b>                     | 12                                    | 26                      | 11                            | <b>36</b>                     | 0.5  |                                       |                      |                        |
|   | Dewatering pumps, up to 5 horsepower  | <b>1 857</b>                     | 10                                    | 13                      | 16                            | <b>30</b>                     | 0.5  |                                       |                      |                        |
|   | Ferry boats (river crossing)  | <b>646 875</b>                   | 20                                    | 1 147                   | 2 965                         | <b>4 112</b>                  | 0.5  | 900                                   |                      |                        |
|   | Pontoons/pontoon bridge (interior/ramp section)   | <b>447 091</b>                   | 10                                    | 669                     | 3 912                         | <b>4 581</b>                  | 0.5  |                                       |                      |                        |
|   | Quarry equipment, complete  | Special case                     |                                       |                         |                               |                               |  |                                       |                      |                        |
|   | Recce (reconnaissance) boats  | <b>32 255</b>                    | 10                                    | 278                     | 282                           | <b>560</b>                    | 0.5  | 258                                   | <b>567</b>           | <b>735</b>             |
|   | Scissor/cantilever-type bridge (up to 20 m)   | <b>101 834</b>                   | 10                                    | 592                     | 891                           | <b>1 484</b>                  | 0.5  |                                       |                      |                        |
|   | Sewage treatment plant and equipment  | <b>39 930</b>                    | 15                                    | 47                      | 238                           | <b>285</b>                    | 0.5  |                                       |                      |                        |
|   | Soil laboratory equipment   | <b>38 554</b>                    | 10                                    | 292                     | 337                           | <b>629</b>                    | 0.5  |                                       |                      |                        |
|   | Survey equipment, including total station   | <b>12 547</b>                    | 15                                    | 93                      | 75                            | <b>168</b>                    | 0.5  |                                       |                      |                        |
|   | Survey equipment, theodolite-type   | <b>6 841</b>                     | 15                                    | 10                      | 41                            | <b>51</b>                     | 0.5  |                                       |                      |                        |
|   | Water pumps   | <b>5 138</b>                     | 9                                     | 13                      | 50                            | <b>63</b>                     | 0.5  |                                       |                      |                        |
|   | Water treatment plant (reverse osmosis water purification unit or equivalent): equipment, tanks and bladders, up to 2,000 litres per hour, storage up to 5,000 litres | <b>56 618</b>                    | 10                                    | 386                     | 495                           | <b>881</b>                    | 0.5  |                                       |                      |                        |
| Water treatment plant (reverse osmosis water purification unit or equivalent): equipment, tanks and bladders, over 2,000 litres per hour, storage up to 20,000 litres | <b>90 347</b>   | 10                               | 1 419                                 | 791                     | <b>2 210</b>                  | 0.5                           |  |                                       |                      |                        |
| Water treatment plant (reverse osmosis water purification unit or equivalent): equipment, tanks and bladders, over 7,000 litres per hour, storage up to 42,000 litres | <b>392 691</b>  | 10                               | 2 858                                 | 3 436                   | <b>6 294</b>                  | 0.5                           |  |                                       |                      |                        |
| Well-drilling rig   | <b>421 626</b>  | 20                               | 1 746                                 | 1 932                   | <b>3 678</b>                  | 0.5                           | 200  |                                       |                      |                        |
| <b>Engineering vehicles</b>   | Armoured personnel carrier engineer (wheeled or tracked)  | <b>710 675</b>                   | 25                                    | 2 527                   | 2 961                         | <b>5 489</b>                  | 1.0  | 300                                   | <b>1 825</b>         | <b>2 253</b>           |
|   | Bulldozer, light (D4 and 5)   | <b>54 888</b>                    | 12                                    | 1 054                   | 386                           | <b>1 440</b>                  | 0.1  | 348                                   | <b>1 630</b>         | <b>1 825</b>           |
|   | Bulldozer, medium (D6 and 7)  | <b>156 670</b>                   | 15                                    | 1 663                   | 883                           | <b>2 546</b>                  | 0.1  | 540                                   | <b>1 630</b>         | <b>1 825</b>           |

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| Category of equipment | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|-----------------------|---|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
|                       | Bulldozer, heavy (D8A)  | <b>306 253</b>            | 19                             | 2 136            | 1 369                  | <b>3 504</b>           | 0.1                                   | 570                            | <b>1 630</b>  | <b>1 825</b>    |
|                       | Cherry picker crane/lift  | <b>47 417</b>             | 15                             | 176              | 267                    | <b>443</b>             | 0.1                                   | 350                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Compressor equipment truck <sup>c</sup>                         | <b>141 625</b>            | 5                              | 530              | 2 372                  | <b>2 902</b>           | 0.1                                   | 350                            | <b>1 427</b>  | <b>1 792</b>    |
|                       | Crane, mobile – light (up to 10 tons) <sup>b</sup>              | <b>132 506</b>            | 15                             | 530              | 747                    | <b>1 277</b>           | 0.1                                   | 142                            | <b>1 427</b>  | <b>1 792</b>    |
|                       | Crane, mobile – medium (11–24 tons) <sup>b</sup>                | <b>254 520</b>            | 15                             | 635              | 1 435                  | <b>2 070</b>           | 0.1                                   | 269                            | <b>1 427</b>  | <b>1 792</b>    |
|                       | Crane, mobile – heavy (25–30 tons) <sup>b</sup>                 | <b>329 022</b>            | 17                             | 926              | 1 640                  | <b>2 566</b>           | 0.1                                   | 350                            | <b>1 427</b>  | <b>1 792</b>    |
|                       | Crane, mobile – heavy (more than 30 tons) <sup>b</sup>          | Special case              |                                |                  |                        |                        |                                       |                                | <b>1 427</b>  | <b>1 792</b>    |
|                       | Crusher plant <sup>c</sup>                                      | <b>151 085</b>            | 10                             | 660              | 1 272                  | <b>1 932</b>           | 0.1                                   | 500                            | <b>1 825</b>  | <b>2 253</b>    |
|                       | Drill rig, self-propelled                                       | <b>227 038</b>            | 20                             | 710              | 965                    | <b>1 674</b>           | 0.1                                   | 450                            | <b>1 427</b>  | <b>1 792</b>    |
|                       | Excavator (up to 1 m <sup>3</sup> )                             | <b>107 346</b>            | 15                             | 1 202            | 605                    | <b>1 808</b>           | 0.1                                   | 309                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Excavator (more than 1 m <sup>3</sup> )                         | <b>294 888</b>            | 17                             | 1 597            | 1 470                  | <b>3 068</b>           | 0.1                                   | 492                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Firefighting truck  | <b>171 446</b>            | 20                             | 163              | 729                    | <b>892</b>             | 0.1                                   | 22                             | <b>1 630</b>  | <b>1 825</b>    |
|                       | Front-end loader, light (up to 1 m <sup>3</sup> )               | <b>60 869</b>             | 12                             | 1 159            | 428                    | <b>1 587</b>           | 0.1                                   | 257                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Front-end loader, medium (1–2 m <sup>3</sup> )                  | <b>97 261</b>             | 12                             | 1 511            | 684                    | <b>2 194</b>           | 0.1                                   | 257                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Front-end loader, heavy (2–4 m <sup>3</sup> )                   | <b>182 949</b>            | 15                             | 1 789            | 1 032                  | <b>2 821</b>           | 0.1                                   | 450                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Front-end loader, special (more than 4 m <sup>3</sup> )         | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                       | Front-end loader, tracked                                       | <b>173 833</b>            | 12                             | 1 473            | 1 222                  | <b>2 694</b>           | 0.1                                   | 582                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Grader, general purpose   | <b>146 602</b>            | 19                             | 1 713            | 655                    | <b>2 368</b>           | 0.1                                   | 504                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Grader, special purpose   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                       | Industrial tractor, light, with bucket and/or backhoe           | <b>46 734</b>             | 12                             | 956              | 328                    | <b>1 285</b>           | 0.1                                   | 282                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | M2 rig, pontoon bridge  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                       | Road sweeper  | <b>100 646</b>            | 15                             | 640              | 568                    | <b>1 207</b>           | 0.1                                   | 72                             | <b>1 514</b>  | <b>1 716</b>    |
|                       | Roller, self-propelled  | <b>108 124</b>            | 17                             | 803              | 539                    | <b>1 342</b>           | 0.1                                   | 211                            | <b>1 514</b>  | <b>1 716</b>    |
|                       | Roller, towed   | <b>38 807</b>             | 15                             | 632              | 219                    | <b>851</b>             | 0.1                                   | 57                             | <b>811</b>    | <b>1 029</b>    |
|                       | Sawmill, mobile   | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                       | Snowblower, truck   | <b>204 962</b>            | 12                             | 619              | 1 440                  | <b>2 060</b>           | 0.1                                   | 75                             | <b>1 630</b>  | <b>1 825</b>    |
|                       | Truck, drill rig <sup>b</sup>                                   | <b>65 858</b>             | 15                             | 80               | 371                    | <b>452</b>             | 0.1                                   | 24                             | <b>1 427</b>  | <b>1 792</b>    |
|                       | Truck, dump – up to 10 m <sup>3</sup> (commercial pattern)      | <b>62 793</b>             | 12                             | 705              | 478                    | <b>1 183</b>           | 0.8                                   | 140                            | <b>1 630</b>  | <b>1 825</b>    |
|                       | Truck, dump – up to 10 m <sup>3</sup> (military pattern)        | <b>157 991</b>            | 15                             | 639              | 983                    | <b>1 622</b>           | 0.8                                   | 140                            | <b>1 630</b>  | <b>1 825</b>    |
|                       | Truck, dump – large (more than 10 m <sup>3</sup> ) <sup>b</sup> | <b>249 005</b>            | 18                             | 1 882            | 1 174                  | <b>3 055</b>           | 0.1                                   | 525                            | <b>1 630</b>  | <b>1 825</b>    |
|                       | Truck, folding pontoon bridge                                   | <b>172 145</b>            | 18                             | 58               | 811                    | <b>869</b>             | 0.1                                   | 20                             | <b>1 427</b>  | <b>1 792</b>    |

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| Category of equipment  | Type of equipment  | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|--|--|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
|  | Truck, launched bridge (scissor type)  | 101 029                   | 18                             | 54               | 476                    | 530                    | 0.1                                   | 20                             | 1 427         | 1 792           |
|  | Truck, pile driver <sup>b</sup>  | 50 242                    | 15                             | 73               | 283                    | 356                    | 0.1                                   | 24                             | 1 427         | 1 792           |
|  | Truck, sewer cleaning  | 134 615                   | 15                             | 95               | 759                    | 854                    | 0.1                                   | 110                            | 1 195         | 1 443           |
|  | Workshop truck, heavy engineering equipment  | 126 871                   | 19                             | 409              | 567                    | 976                    | 0.1                                   | 52                             | 1 427         | 1 792           |
| <b>Force protection surveillance equipment<sup>c</sup></b>       | Analog/digital surveillance of United Nations camps, full set <sup>c</sup>   | 150 527                   |                                | 863              | 1 458                  | 2 322                  | 0.1                                   |                                |               |                 |
|  | Automated thermal image processing and monitoring system (with recording capacity) <sup>c</sup>                            | 91 997                    | 10                             | 508              | 774                    | 1 282                  | 0.1                                   |                                |               |                 |
|  | Day and night cameras (set of 5) <sup>c</sup>  | 22 980                    | 5                              | 137              | 385                    | 522                    | 0.1                                   |                                |               |                 |
|  | Inside base surveillance dome camera (360° + thermal view) <sup>c</sup>  | 15 236                    | 10                             | 117              | 128                    | 245                    | 0.1                                   |                                |               |                 |
|  | Microwave circuit <sup>c</sup>   | 20 314                    | 10                             | 102              | 171                    | 273                    | 0.1                                   |                                |               |                 |
|  | Ground surveillance radar for quick reaction forces <sup>c</sup>   | 463 159                   | 5                              | 91               | 7 797                  | 7 888                  | 0.2                                   |                                |               |                 |
|  |  | <b>Set total</b>          | <b>843</b>                     | <b>5</b>         | <b>11</b>              | <b>21</b>              | <b>32</b>                             | <b>0.5</b>                     |               |                 |
| Helicopter landing site kit (without ground communication) (set) | Coloured smoke grenades (set of 6 in two different colours)/coloured smoke device (capable of producing 2 or more colours) | 183                       | 2                              | 0                | 8                      | 8                      | 0.5                                   |                                |               |                 |
|  | White strobe lights (set of 6)   | 366                       | 5                              | 6                | 6                      | 12                     | 0.5                                   |                                |               |                 |
|  | Fluorescent marker panels with stakes (set of 3)   | 152                       | 3                              | 0                | 4                      | 4                      | 0.5                                   |                                |               |                 |
|  | Marshalling wands (set of 2)   | 81                        | 3                              | 0                | 2                      | 2                      | 0.5                                   |                                |               |                 |
|  | Machete (set of 2)   | 61                        | 10                             | 5                | 1                      | 6                      | 0.5                                   |                                |               |                 |
|  | <b>Set total</b>   | <b>843</b>                | <b>5</b>                       | <b>11</b>        | <b>21</b>              | <b>32</b>              | <b>0.5</b>                            |                                |               |                 |
| Helicopter landing site kit (with ground communication) (set)    | Helicopter landing site kit (without ground communication) (set)   | 843                       | 5                              | 11               | 21                     | 32                     | 0.5                                   |                                |               |                 |
|  | Handheld radios for air and ground communication (VHF/AM)  | 305                       | 5                              | 10               | 5                      | 15                     | 0.5                                   |                                |               |                 |
|  | <b>Set total</b>   | <b>1 148</b>              | <b>5</b>                       | <b>21</b>        | <b>26</b>              | <b>48</b>              | <b>0.5</b>                            |                                |               |                 |
| <b>Logistical equipment</b>                                      | Fuel farm (2 pumps, tanks and/or bladders, pipelines, filters), 152,000 litres   | 53 240                    | 10                             | 88               | 466                    | 554                    | 0.5                                   | 36                             |               |                 |
|  | Fuel farm (2 pumps, tanks and/or bladders, pipelines, filters), 76,000 litres  | 36 255                    | 10                             | 79               | 317                    | 396                    | 0.5                                   | 36                             |               |                 |
|  | Fuel storage, less than 500 litres   | 2 341                     | 12                             | 11               | 17                     | 28                     | 0.5                                   |                                |               |                 |
|  | Fuel storage, 501–5,000 litres   | 3 080                     | 12                             | 15               | 23                     | 38                     | 0.5                                   |                                |               |                 |
|  | Fuel storage, 5,001–10,000 litres  | 3 702                     | 12                             | 17               | 27                     | 45                     | 0.5                                   |                                |               |                 |
|  | Fuel storage, more than 10,000 litres  | 5 393                     | 12                             | 19               | 40                     | 59                     | 0.5                                   |                                |               |                 |
|  | Water storage, 5,000–7,000 litres  | 1 180                     | 7                              | 11               | 14                     | 25                     | 0.1                                   |                                |               |                 |
|  | Water storage, 7,001–10,000 litres   | 1 657                     | 7                              | 16               | 20                     | 36                     | 0.1                                   |                                |               |                 |

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| Category of equipment                             | Type of equipment                                       | Generic fair market value                                       | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |  |
|---|---|---|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|--|
| <b>Material handling equipment</b>                | Water storage, 10,001–12,000 litres                     | <b>1 817</b>  | 7                              | 18               | 22                     | <b>40</b>              | 0.1                                   |                                |               |                 |  |
|   | Water storage, 12,001–20,000 litres                     | <b>5 232</b>  | 7                              | 52               | 63                     | <b>115</b>             | 0.1                                   |                                |               |                 |  |
|   | Water storage, more than 20,000 litres                  | <b>5 930</b>  | 7                              | 58               | 71                     | <b>129</b>             | 0.1                                   |                                |               |                 |  |
|   | Container, lifter – self-propelled <sup>b</sup>         | <b>124 387</b>  | 12                             | 462              | 874                    | <b>1 337</b>           | 0.1                                   | 3                              | <b>811</b>    | <b>1 029</b>    |  |
|   | Forklift, container                                     | <b>368 411</b>  | 12                             | 390              | 2 589                  | <b>2 979</b>           | 0.1                                   | 68                             | <b>1 514</b>  | <b>1 716</b>    |  |
|   | Forklift, light (up to 1.5 tons)                        | <b>31 460</b>   | 10                             | 424              | 265                    | <b>689</b>             | 0.1                                   | 90                             | <b>811</b>    | <b>1 029</b>    |  |
|   | Forklift, medium (up to 5 tons)                         | <b>59 616</b>   | 12                             | 720              | 419                    | <b>1 139</b>           | 0.1                                   | 96                             | <b>811</b>    | <b>1 029</b>    |  |
|   | Forklift, heavy (more than 5 tons)                      | <b>108 367</b>  | 12                             | 955              | 762                    | <b>1 717</b>           | 0.1                                   | 108                            | <b>811</b>    | <b>1 029</b>    |  |
|   | Forklift, rough terrain (up to 1.5 tons) <sup>b</sup>   | <b>89 241</b>   | 10                             | 452              | 751                    | <b>1 204</b>           | 0.1                                   | 78                             | <b>811</b>    | <b>1 029</b>    |  |
|   | Forklift, rough terrain (up to 5 tons) <sup>b</sup>     | <b>130 998</b>  | 12                             | 665              | 921                    | <b>1 586</b>           | 0.1                                   | 91                             | <b>811</b>    | <b>1 029</b>    |  |
| <b>Medical and dental equipment<sup>t,j</sup></b> | Forklift, rough terrain (more than 5 tons) <sup>b</sup> | <b>185 323</b>  | 12                             | 784              | 1 302                  | <b>2 087</b>           | 0.1                                   | 360                            | <b>811</b>    | <b>1 029</b>    |  |
|   | Field medical assistance kit                            | <b>2 271</b>  | 5                              | 11               | 38                     | <b>49</b>              | 0.1                                   |                                |               |                 |  |
|   | Level 1 hospital  | <b>96 874</b>   | 5                              | 484              | 1 623                  | <b>2 107</b>           | 0.1                                   |                                |               |                 |  |
|   | Level 2 hospital  | <b>955 571</b>  | 5                              | 4 778            | 16 006                 | <b>20 784</b>          | 0.1                                   |                                |               |                 |  |
|   | Level 3 hospital  | <b>1 616 604</b>  | 5                              | 8 083            | 27 078                 | <b>35 161</b>          | 0.1                                   |                                |               |                 |  |
|   | Light mobile surgical module                            | <b>610 648</b>  | 5                              | 3 053            | 10 228                 | <b>13 282</b>          | 0.1                                   |                                |               |                 |  |
|   | Aeromedical evacuation module                           | <b>97 554</b>   | 5                              | 488              | 1 634                  | <b>2 122</b>           | 0.1                                   |                                |               |                 |  |
|   | Dental equipment (set)                                  | <b>164 100</b>  | 5                              | 821              | 2 749                  | <b>3 569</b>           | 0.1                                   |                                |               |                 |  |
|   | Forward surgery module                                  | <b>165 641</b>  | 5                              | 828              | 2 774                  | <b>3 603</b>           | 0.1                                   |                                |               |                 |  |
|   | Gynaecology module                                      | <b>11 104</b>   | 5                              | 56               | 186                    | <b>242</b>             | 0.1                                   |                                |               |                 |  |
| <b>Naval vessels<sup>a</sup></b>                  | Laboratory only   | <b>31 589</b>   | 5                              | 158              | 529                    | <b>687</b>             | 0.1                                   |                                |               |                 |  |
|   | Orthopaedic module                                      | <b>49 107</b>   | 5                              | 246              | 823                    | <b>1 068</b>           | 0.1                                   |                                |               |                 |  |
|   | Physiotherapy module <sup>c</sup>                       | <b>13 509</b>   | 5                              | 68               | 226                    | <b>294</b>             | 0.1                                   |                                |               |                 |  |
|   | All naval vessels                                       | Letter of assist  |                                |                  |                        |                        |                                       |                                |               |                 |  |
|   | <b>Observation equipment, area</b>                      | Artillery locating equipment                                    | Special case                   |                  |                        |                        |                                       |                                |               |                 |  |
|   |   | Ground surveillance radar/system                                | Special case                   |                  |                        |                        |                                       |                                |               |                 |  |
|   |   | Thermal imaging systems, aerial version                         | <b>136 642</b>                 | 8                | 501                    | 1 446                  | <b>1 947</b>                          | 0.2                            |               |                 |  |
|   | Thermal imaging systems, ground version                 | <b>112 890</b>  | 8                              | 501              | 1 195                  | <b>1 696</b>           | 0.2                                   |                                |               |                 |  |
|   | Observation equipment, personal                         | Binoculars, tripod-mounted                                      | <b>9 135</b>                   | 10               | 11                     | 80                     | <b>91</b>                             | 0.5                            |               |                 |  |
|   |   | Enhanced electronic GPS tracking system (set of 5) <sup>c</sup> | <b>1 016</b>                   | 10               | 10                     | 9                      | <b>19</b>                             | 0.2                            |               |                 |  |
| Night observation devices, tripod-mounted         |   | <b>14 061</b>   | 8                              | 22               | 152                    | <b>174</b>             | 0.5                                   |                                |               |                 |  |

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| Category of equipment         | Type of equipment  | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|-------------------------------|--|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
| <b>Police vehicles</b>        | Police armoured protected vehicle <sup>k</sup>   | <b>303 794</b>            | 24                             | 1 654            | 1 308                  | <b>2 962</b>           | 1.0                                   | 450                            | <b>1 825</b>  | <b>2 253</b>    |
|                               | Police crowd-control vehicle (2x4) <sup>k</sup>  | <b>140 857</b>            | 20                             | 289              | 681                    | <b>970</b>             | 0.8                                   | 80                             | <b>894</b>    | <b>961</b>      |
|                               | Police crowd-control vehicle (4x4) <sup>k</sup>  | <b>158 385</b>            | 20                             | 325              | 766                    | <b>1 090</b>           | 0.8                                   | 80                             | <b>894</b>    | <b>961</b>      |
|                               | Truck water cannon, armoured <sup>l</sup>  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                               | Truck water cannon, soft skin, 2,500 to 5,000 litres <sup>l</sup>                                    | <b>123 339</b>            | 20                             | 1 170            | 524                    | <b>1 694</b>           | 0.1                                   | 336                            | <b>1 195</b>  | <b>1 443</b>    |
|                               | Truck water cannon, soft skin, 5,000 to 10,000 litres  | <b>174 324</b>            | 20                             | 1 186            | 741                    | <b>1 927</b>           | 0.1                                   | 336                            | <b>1 195</b>  | <b>1 443</b>    |
|                               | Truck water cannon, soft skin, more than 10,000 litres   | <b>194 750</b>            | 20                             | 1 230            | 828                    | <b>2 058</b>           | 0.1                                   | 336                            | <b>1 195</b>  | <b>1 443</b>    |
| <b>Police equipment</b>       | Military police/police traffic kit (set)   |                           |                                |                  |                        |                        |                                       |                                |               |                 |
|                               | Alcohol detector   | <b>770</b>                | 5                              | 5                | 13                     | <b>18</b>              | 0.5                                   |                                |               |                 |
|                               | Laser speed gun  | <b>1 564</b>              | 5                              | 17               | 27                     | <b>44</b>              | 0.5                                   |                                |               |                 |
|                               | <b>Set total</b>   | <b>2 334</b>              | 5                              | 23               | 40                     | <b>62</b>              | 0.5                                   |                                |               |                 |
|                               | Investigation laboratory kit <sup>c</sup>  | <b>9 222</b>              | 10                             | 401              | 81                     | <b>482</b>             | 0.5                                   |                                |               |                 |
|                               | Mobile crash barriers <sup>c</sup>   | <b>8 126</b>              | 10                             | 41               | 71                     | <b>112</b>             | 0.5                                   |                                |               |                 |
|                               | Outdoor inspection mirrors (set of 3) <sup>c</sup>   | <b>1 066</b>              | 5                              | 5                | 18                     | <b>23</b>              | 0.5                                   |                                |               |                 |
|                               | Road spike belt <sup>c</sup>   | <b>1 112</b>              | 5                              | 5                | 19                     | <b>24</b>              | 0.5                                   |                                |               |                 |
|                               | Traffic cones (set of 30) <sup>c</sup>   | <b>1 524</b>              | 5                              | 7                | 26                     | <b>33</b>              | 0.5                                   |                                |               |                 |
|                               | Undercarriage inspection mirrors (set of 10) <sup>c</sup>  | <b>1 219</b>              | 5                              | 1                | 21                     | <b>22</b>              | 0.5                                   |                                |               |                 |
| <b>Riot control equipment</b> | Personnel equipment (applicable only to military contingents with riot control tasks) <sup>m,p</sup> |                           |                                |                  |                        |                        |                                       |                                |               |                 |
|                               | Full kit set (without gas mask) (set of 10) – total  | <b>15 657</b>             | 2                              | 81               | 659                    | <b>740</b>             | 0.5                                   |                                |               |                 |
|                               | Full kit set (with gas mask) (set of 10)   |                           |                                |                  |                        |                        |                                       |                                |               |                 |
|                               | Elbow, knee and shoulder protection (set of 10)  | <b>4 760</b>              | 2                              | 24               | 200                    | <b>224</b>             | 0.5                                   |                                |               |                 |
|                               | Helmet with visor (set of 10)  | <b>3 125</b>              | 2                              | 17               | 132                    | <b>148</b>             | 0.5                                   |                                |               |                 |
|                               | Shield (plastic, transparent) (set of 10)  | <b>4 746</b>              | 2                              | 25               | 200                    | <b>225</b>             | 0.5                                   |                                |               |                 |
|                               | Baton (set of 10)  | <b>3 026</b>              | 2                              | 16               | 127                    | <b>143</b>             | 0.5                                   |                                |               |                 |
|                               | Gas mask (set of 10)   | <b>9 697</b>              | 2                              | 51               | 408                    | <b>459</b>             | 0.5                                   |                                |               |                 |
| <b>Set total</b>              | <b>25 354</b>  | 2                         | 132                            | 1 067            | <b>1 199</b>           | 0.5                    |                                       |                                |               |                 |
| Platoon equipment             | Riot control platoon equipment (set)   |                           |                                |                  |                        |                        |                                       |                                |               |                 |
|                               | Teargas launchers (set of 4)   | <b>5 078</b>              | 10                             | 24               | 44                     | <b>69</b>              | 0.5                                   |                                |               |                 |
|                               | Loudspeakers (set of 3)  | <b>389</b>                | 10                             | 8                | 3                      | <b>12</b>              | 0.5                                   |                                |               |                 |
|                               | Signal pistols (set of 3)  | <b>588</b>                | 10                             | 1                | 5                      | <b>6</b>               | 0.5                                   |                                |               |                 |
|                               | Handheld searchlights (set of 6)   | <b>538</b>                | 5                              | 3                | 9                      | <b>12</b>              | 0.5                                   |                                |               |                 |

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| Category of equipment   | Type of equipment   | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|---|---|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
|   | Handheld metal detectors (set of 6)   | 594                       | 5                              | 3                | 10                     | 13                     | 0.5                                   |                                |               |                 |
|   | Taser (advanced pistol) (set of 1)  | 650                       | 5                              | 3                | 11                     | 14                     | 0.5                                   |                                |               |                 |
|   | Stun batons (electric) (set of 5) <sup>c</sup>                                  | 2 031                     | 5                              | 10               | 35                     | 45                     | 0.5                                   |                                |               |                 |
|   | <b>Set total</b>  | <b>9 867</b>              | 5                              | 53               | 118                    | 171                    | 0.5                                   |                                |               |                 |
| Other riot control equipment  | Automatic (TG) grenade launcher (set of 3)                                      | 6 536                     | 10                             | 32               | 57                     | 89                     | 0.5                                   |                                |               |                 |
|   | Ballistic shield, NIJ 0108 level IV (static) <sup>c</sup>                       | 1 117                     | 15                             | 5                | 7                      | 12                     | 0.5                                   |                                |               |                 |
|   | Ballistic shield, NIJ level IIIA (portable, full-body protection) <sup>c</sup>  | 3 250                     | 10                             | 16               | 28                     | 45                     | 0.5                                   |                                |               |                 |
|   | Ballistic shield, NIJ level IIIA (portable, upper-body protection) <sup>c</sup> | 2 539                     | 10                             | 12               | 22                     | 34                     | 0.5                                   |                                |               |                 |
|   | Breaching tools set (for one unit) <sup>c</sup>                                 | 2 539                     | 5                              | 12               | 43                     | 56                     | 0.5                                   |                                |               |                 |
|   | Bulletproof shield, portable (set of 3) <sup>c</sup>                            | 1 325                     | 8                              | 7                | 14                     | 21                     | 0.5                                   |                                |               |                 |
|   | Personal mounted cameras (set of 2) <sup>c</sup>                                | 1 422                     | 7                              | 5                | 18                     | 23                     | 0.5                                   |                                |               |                 |
|   | Public address system (set)   | 1 267                     | 10                             | 24               | 11                     | 36                     | 0.5                                   |                                |               |                 |
|   | Rappelling gear set (for one unit) <sup>c</sup>                                 | 1 972                     | 5                              | 10               | 34                     | 43                     | 0.5                                   |                                |               |                 |
|   | Searchlights and generators (set)   | 3 709                     | 10                             | 18               | 32                     | 51                     | 0.5                                   |                                |               |                 |
|   | Vehicle-mounted cameras (set of 2) <sup>c</sup>                                 | 4 062                     | 7                              | 15               | 50                     | 65                     | 0.5                                   |                                |               |                 |
| <b>Specialized military/police team equipment for forensic laboratory</b> | Forensic kit <sup>c</sup>   |                           |                                | Special case     |                        |                        |                                       |                                |               |                 |
|   | Forensic laboratory <sup>c</sup>  |                           |                                | Special case     |                        |                        |                                       |                                |               |                 |
|   | High thermal image system (stationary) <sup>c</sup>                             |                           |                                | Special case     |                        |                        |                                       |                                |               |                 |
|   | High thermal image system (mobile) <sup>c</sup>                                 |                           |                                | Special case     |                        |                        |                                       |                                |               |                 |
| <b>Support vehicles (commercial pattern)</b>                              | All-terrain vehicle (light)   | 7 011                     | 5                              | 5                | 122                    | 127                    | 0.8                                   | 1                              | 227           | 305             |
|   | All-terrain vehicle (heavy)   |                           |                                | Special case     |                        |                        |                                       |                                |               |                 |
|   | Ambulance, armoured/rescue  | 163 764                   | 10                             | 228              | 1 474                  | 1 702                  | 0.8                                   | 96                             | 873           | 970             |
|   | Ambulance, truck  | 62 398                    | 9                              | 337              | 619                    | 957                    | 0.8                                   | 80                             | 891           | 1 012           |
|   | Ambulance (4x4)   | 78 906                    | 8                              | 582              | 875                    | 1 457                  | 0.8                                   | 80                             | 873           | 970             |
|   | Automobile (4x4)  | 16 236                    | 8                              | 396              | 180                    | 576                    | 0.8                                   | 300                            | 873           | 970             |
|   | Automobile, sedan/station wagon   | 11 169                    | 5                              | 122              | 194                    | 315                    | 0.8                                   | 120                            | 873           | 970             |
|   | Buses (12 or fewer passengers)  | 29 207                    | 6                              | 513              | 425                    | 938                    | 0.8                                   | 300                            | 894           | 961             |
|   | Buses (13–24 passengers)  | 40 742                    | 8                              | 756              | 452                    | 1 208                  | 0.8                                   | 240                            | 1 185         | 1 314           |
|   | Buses (more than 24 passengers)   | 139 473                   | 12                             | 871              | 1 062                  | 1 932                  | 0.8                                   | 200                            | 2 033         | 2 262           |
|   | Motorcycles   | 3 550                     | 4                              | 20               | 76                     | 96                     | 0.8                                   | 6                              | 227           | 305             |
|   | Snowmobile  | 6 806                     | 6                              | 5                | 99                     | 104                    | 0.8                                   | 1                              | 227           | 305             |
|   | Truck, crane (up to 10 tons)  | 147 266                   | 20                             | 177              | 712                    | 889                    | 0.8                                   | 100                            | 1 427         | 1 792           |

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| Category of equipment                      | Type of equipment  | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|--|--|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
|  | Truck, crane heavy lift (10–25 tons)   | <b>208 309</b>            | 20                             | 272              | 1 007                  | <b>1 278</b>           | 0.8                                   | 100                            | <b>1 427</b>  | <b>1 792</b>    |
|  | Truck, maintenance – light   | <b>50 354</b>             | 5                              | 148              | 873                    | <b>1 021</b>           | 0.8                                   | 240                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, maintenance – medium  | <b>86 867</b>             | 8                              | 258              | 963                    | <b>1 221</b>           | 0.8                                   | 150                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, maintenance – heavy   | <b>250 156</b>            | 12                             | 276              | 1 904                  | <b>2 180</b>           | 0.8                                   | 140                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, pallet-loading <sup>b</sup>   | <b>62 270</b>             | 12                             | 1 065            | 474                    | <b>1 538</b>           | 0.8                                   | 480                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, recovery (up to 5 tons)   | <b>146 609</b>            | 10                             | 599              | 1 319                  | <b>1 918</b>           | 0.8                                   | 270                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, refrigerator (less than 20 feet)                                      | <b>59 239</b>             | 10                             | 63               | 533                    | <b>597</b>             | 0.8                                   | 34                             | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, refrigerator (20 or more feet)  | <b>64 283</b>             | 10                             | 65               | 579                    | <b>643</b>             | 0.8                                   | 34                             | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, tanker (up to 5,000 litres)   | <b>104 777</b>            | 13                             | 1 662            | 741                    | <b>2 403</b>           | 0.8                                   | 1 440                          | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, tanker (5,000–10,000 litres)  | <b>105 020</b>            | 13                             | 1 677            | 743                    | <b>2 420</b>           | 0.8                                   | 1 440                          | <b>1 427</b>  | <b>1 792</b>    |
|  | Truck, tanker (more than 10,000 litres)                                      | <b>173 050</b>            | 16                             | 1 915            | 1 017                  | <b>2 932</b>           | 0.8                                   | 1 520                          | <b>1 427</b>  | <b>1 792</b>    |
|  | Truck, tractor (up to 50 tons)   | <b>103 342</b>            | 12                             | 1 044            | 787                    | <b>1 831</b>           | 0.8                                   | 540                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, tractor – heavy (more than 50 tons)                                   | <b>183 806</b>            | 15                             | 706              | 1 144                  | <b>1 850</b>           | 0.8                                   | 1 950                          | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, utility/cargo (less than 1.5 tons), armoured/bulletproof <sup>c</sup> | <b>120 868</b>            | 10                             | 1 270            | 1 088                  | <b>2 357</b>           | 0.8                                   | 350                            | <b>891</b>    | <b>1 012</b>    |
|  | Truck, utility/cargo (less than 1.5 tons)                                    | <b>21 336</b>             | 5                              | 248              | 370                    | <b>618</b>             | 0.8                                   | 240                            | <b>891</b>    | <b>1 012</b>    |
|  | Truck, utility/cargo (1.5–2.4 tons)  | <b>27 894</b>             | 7                              | 294              | 351                    | <b>645</b>             | 0.8                                   | 300                            | <b>891</b>    | <b>1 012</b>    |
|  | Truck, utility/cargo (2.5–5 tons)  | <b>46 473</b>             | 9                              | 340              | 461                    | <b>802</b>             | 0.8                                   | 360                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, utility/cargo (more than 5 tons and up to 10 tons) <sup>b</sup>       | <b>84 520</b>             | 10                             | 564              | 761                    | <b>1 325</b>           | 0.8                                   | 400                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, utility/cargo (more than 10 tons)                                     | <b>131 545</b>            | 12                             | 803              | 1 001                  | <b>1 804</b>           | 0.8                                   | 400                            | <b>1 427</b>  | <b>1 792</b>    |
|  | Truck, water (up to 5,000 litres)  | <b>90 750</b>             | 12                             | 666              | 691                    | <b>1 357</b>           | 0.8                                   | 504                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, water (5,000–10,000 litres)   | <b>94 044</b>             | 12                             | 665              | 716                    | <b>1 380</b>           | 0.8                                   | 504                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, water (more than 10,000 litres)                                       | <b>97 266</b>             | 12                             | 688              | 740                    | <b>1 428</b>           | 0.8                                   | 504                            | <b>1 195</b>  | <b>1 443</b>    |
| <b>Support vehicles (military pattern)</b> | Ambulance  | <b>95 556</b>             | 10                             | 371              | 860                    | <b>1 231</b>           | 0.8                                   | 140                            | <b>873</b>    | <b>970</b>      |
|  | High-mobility light tactical vehicles <sup>c</sup>                           | <b>457 065</b>            | 25                             | 1 524            | 1 828                  | <b>3 352</b>           | 0.8                                   | 300                            | <b>891</b>    | <b>1 012</b>    |
|  | Jeep (4x4), armoured/bulletproof <sup>c</sup>                                | <b>126 963</b>            | 10                             | 1 016            | 1 143                  | <b>2 158</b>           | 0.8                                   | 250                            | <b>891</b>    | <b>1 012</b>    |
|  | Jeep (4x4) with military radio   | <b>41 918</b>             | 10                             | 961              | 377                    | <b>1 338</b>           | 0.8                                   | 300                            | <b>873</b>    | <b>970</b>      |
|  | Motorcycles  | <b>9 224</b>              | 8                              | 103              | 102                    | <b>205</b>             | 0.8                                   | 48                             | <b>227</b>    | <b>305</b>      |
|  | Truck, crane (up to 10 tons)   | <b>148 846</b>            | 18                             | 217              | 788                    | <b>1 005</b>           | 0.8                                   | 70                             | <b>1 427</b>  | <b>1 792</b>    |
|  | Truck, crane (10–24 tons)  | <b>224 651</b>            | 20                             | 350              | 1 086                  | <b>1 436</b>           | 0.8                                   | 100                            | <b>1 427</b>  | <b>1 792</b>    |
|  | Truck, crane (more than 24 tons)   | Special case              |                                |                  |                        |                        |                                       |                                | <b>1 427</b>  | <b>1 792</b>    |
|  | Truck, maintenance – light   | <b>92 387</b>             | 11                             | 537              | 761                    | <b>1 299</b>           | 0.8                                   | 360                            | <b>1 195</b>  | <b>1 443</b>    |
|  | Truck, maintenance – medium  | <b>119 159</b>            | 14                             | 732              | 789                    | <b>1 521</b>           | 0.8                                   | 200                            | <b>1 195</b>  | <b>1 443</b>    |

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| Category of equipment | Type of equipment  | Generic fair market value | Estimated useful life in years | Maintenance rate | Monthly dry lease rate | Monthly wet lease rate | No-fault incident factor (percentage) | Monthly non-United Nations POL | Painting rate | Repainting rate |
|-----------------------|--|---------------------------|--------------------------------|------------------|------------------------|------------------------|---------------------------------------|--------------------------------|---------------|-----------------|
|                       | Truck, maintenance – medium, armoured                                  | 161 921                   | 14                             | 732              | 1 072                  | 1 804                  | 0.8                                   | 300                            | 1195          | 1443            |
|                       | Truck, maintenance – heavy   | 283 726                   | 17                             | 935              | 1 580                  | 2 515                  | 0.8                                   | 151                            | 1 195         | 1 443           |
|                       | Truck, recovery (up to 5 tons)   | 151 170                   | 18                             | 1 565            | 801                    | 2 365                  | 0.8                                   | 420                            | 1 195         | 1 443           |
|                       | Truck, recovery (more than 5 tons)                                     | 392 838                   | 18                             | 1 860            | 2 081                  | 3 940                  | 0.8                                   | 300                            | 1 427         | 1 792           |
|                       | Truck, refrigerator (less than 20 feet)                                | 106 016                   | 15                             | 155              | 660                    | 814                    | 0.8                                   | 70                             | 1 195         | 1 443           |
|                       | Truck, refrigerator (20 or more feet)                                  | 124 171                   | 15                             | 152              | 773                    | 925                    | 0.8                                   | 70                             | 1 195         | 1 443           |
|                       | Truck, tanker (up to 5,000 litres)                                     | 124 691                   | 18                             | 1 000            | 660                    | 1 660                  | 0.8                                   | 320                            | 1 427         | 1 792           |
|                       | Truck, tanker (5,000–10,000 litres)                                    | 214 164                   | 18                             | 757              | 1 134                  | 1 891                  | 0.8                                   | 320                            | 1 427         | 1 792           |
|                       | Truck, tanker (5,000–10,000 litres), armoured                          | 400 434                   | 18                             | 757              | 2 121                  | 2 878                  | 0.8                                   | 350                            | 1427          | 1792            |
|                       | Truck, tanker (more than 10,000 litres)                                | 224 311                   | 18                             | 786              | 1 188                  | 1 974                  | 0.8                                   | 320                            | 1 427         | 1 792           |
|                       | Truck, tractor (up to 40 tons tow)                                     | 143 097                   | 16                             | 815              | 841                    | 1 655                  | 0.8                                   | 490                            | 1 427         | 1 792           |
|                       | Truck, tractor (41–60 tons tow)  | 164 394                   | 18                             | 1 494            | 871                    | 2 365                  | 0.8                                   | 330                            | 1 427         | 1 792           |
|                       | Truck, tractor (more than 60 tons tow)                                 | Special case              |                                |                  |                        |                        |                                       |                                | 1 427         | 1 792           |
|                       | Truck, utility/cargo (less than 1.5 tons)                              | 33 509                    | 10                             | 868              | 302                    | 1 170                  | 0.8                                   | 300                            | 891           | 1 012           |
|                       | Truck, utility/cargo (1.5–2.4 tons)                                    | 47 634                    | 10                             | 928              | 429                    | 1 357                  | 0.8                                   | 300                            | 891           | 1 012           |
|                       | Truck, utility/cargo (2.5 to 5 tons) <sup>b</sup>                      | 82 927                    | 11                             | 952              | 684                    | 1 635                  | 0.8                                   | 360                            | 1 195         | 1 443           |
|                       | Truck, utility/cargo (more than 5 tons and up to 10 tons) <sup>b</sup> | 139 321                   | 14                             | 1 121            | 922                    | 2 044                  | 0.8                                   | 480                            | 1 195         | 1 443           |
|                       | Truck, utility/cargo (more than 10 tons) <sup>b</sup>                  | 183 004                   | 17                             | 1 249            | 1 019                  | 2 269                  | 0.8                                   | 344                            | 1 427         | 1 792           |
|                       | Truck, water (up to 5,000 litres)                                      | 178 808                   | 20                             | 1 015            | 864                    | 1 879                  | 0.8                                   | 336                            | 1 195         | 1 443           |
|                       | Truck, water (5,000–10,000 litres)                                     | 182 885                   | 20                             | 1 033            | 884                    | 1 917                  | 0.8                                   | 336                            | 1 195         | 1 443           |
|                       | Truck, water (more than 10,000 litres)                                 | 181 716                   | 20                             | 1 079            | 878                    | 1 957                  | 0.8                                   | 336                            | 1 195         | 1 443           |
| <b>Trailers</b>       | Light cargo, single axle   | 5 567                     | 10                             | 51               | 50                     | 102                    | 0.8                                   | 6                              | 540           | 630             |
|                       | Medium cargo, single axle  | 12 353                    | 12                             | 64               | 94                     | 158                    | 0.8                                   | 6                              | 540           | 630             |
|                       | Light cargo, multi-axle  | 17 437                    | 12                             | 269              | 133                    | 401                    | 0.8                                   | 6                              | 905           | 967             |
|                       | Medium cargo, multi-axle   | 21 818                    | 15                             | 281              | 136                    | 417                    | 0.8                                   | 6                              | 905           | 967             |
|                       | Heavy cargo, multi-axle  | 32 272                    | 18                             | 342              | 171                    | 513                    | 0.8                                   | 8                              | 1 294         | 1 537           |
|                       | Heavy cargo (20 tons)  | 65 699                    | 18                             | 351              | 348                    | 698                    | 0.8                                   | 8                              | 1 294         | 1 537           |
|                       | Bridging system  | Special case              |                                |                  |                        |                        |                                       |                                |               |                 |
|                       | Compressor trailer   | 54 718                    | 12                             | 237              | 416                    | 654                    | 0.8                                   | 8                              | 540           | 630             |
|                       | Flatbed (up to 20 tons) <sup>b</sup>                                   | 27 223                    | 18                             | 322              | 144                    | 466                    | 0.8                                   | 10                             | 905           | 1 537           |
|                       | Flatbed (more than 20 tons)  | 36 587                    | 20                             | 372              | 177                    | 548                    | 0.8                                   | 5                              | 1 294         | 1 537           |
|                       | Fuel trailer (up to 2,000 litres) <sup>b</sup>                         | 22 029                    | 12                             | 499              | 168                    | 667                    | 0.8                                   | 12                             | 1 294         | 1 537           |

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| <i>Category of equipment</i>    | <i>Type of equipment</i>  | <i>Generic fair market value</i> | <i>Estimated useful life in years</i> | <i>Maintenance rate</i> | <i>Monthly dry lease rate</i> | <i>Monthly wet lease rate</i> | <i>No-fault incident factor (percentage)</i> | <i>Monthly non-United Nations POL</i> | <i>Painting rate</i> | <i>Repainting rate</i> |
|---------------------------------|---|----------------------------------|---------------------------------------|-------------------------|-------------------------------|-------------------------------|--|---------------------------------------|----------------------|------------------------|
|                                 | Fuel trailer (2,000–7,000 litres)   | <b>38 740</b>                    | 15                                    | 456                     | 241                           | <b>697</b>                    | 0.8  | 8                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Fuel trailer (more than 7,000 litres) <sup>b</sup>                            | <b>69 054</b>                    | 15                                    | 445                     | 430                           | <b>874</b>                    | 0.8  | 5                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Heavy equipment/tank transporter  | <b>305 615</b>                   | 30                                    | 165                     | 1 053                         | <b>1 217</b>                  | 0.8  | 1                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Lowbed (up to 20 tons)  | <b>65 463</b>                    | 20                                    | 547                     | 316                           | <b>864</b>                    | 0.8  | 5                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Lowbed (20–40 tons)   | <b>49 534</b>                    | 18                                    | 555                     | 262                           | <b>818</b>                    | 0.8  | 10                                    | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Mine-clearance system trailer, mounted  |                                  |                                       |                         |                               |                               |  |                                       |                      |                        |
|                                 | Pallet-loading system <sup>b</sup>  | <b>5 470</b>                     | 15                                    | 242                     | 34                            | <b>276</b>                    | 0.8  | 12                                    | <b>905</b>           | <b>967</b>             |
|                                 | Semi-trailer refrigerator (less than 30 feet)                                 | <b>52 584</b>                    | 20                                    | 345                     | 254                           | <b>599</b>                    | 0.8  | 6                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Semi-trailer refrigerator (30 or more feet)                                   | <b>57 660</b>                    | 20                                    | 343                     | 279                           | <b>622</b>                    | 0.8  | 6                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Semi-trailer, refuelling <sup>b</sup>   | <b>54 677</b>                    | 20                                    | 598                     | 264                           | <b>862</b>                    | 0.8  | 6                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Semi-trailer, van <sup>b</sup>  | <b>33 030</b>                    | 20                                    | 228                     | 160                           | <b>387</b>                    | 0.8  | 6                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Semi-trailer, water   | <b>49 771</b>                    | 20                                    | 348                     | 241                           | <b>589</b>                    | 0.8  | 6                                     | <b>540</b>           | <b>630</b>             |
|                                 | Servicing trailer <sup>b</sup>  | <b>14 837</b>                    | 12                                    | 236                     | 113                           | <b>349</b>                    | 0.8  | 12                                    | <b>905</b>           | <b>1 537</b>           |
|                                 | Trackway-surfacing outfit   | <b>63 440</b>                    | 18                                    | 38                      | 336                           | <b>374</b>                    | 0.8  | 1                                     | <b>905</b>           | <b>967</b>             |
|                                 | Trailer, floodlight set, with generators (4 lights, 9 m pole, 7 kW generator) | <b>23 934</b>                    | 10                                    | 179                     | 209                           | <b>388</b>                    | 0.5  | 15                                    | <b>540</b>           | <b>630</b>             |
|                                 | Water trailer (up to 2,000 litres)  | <b>15 614</b>                    | 12                                    | 204                     | 119                           | <b>323</b>                    | 0.8  | 12                                    | <b>905</b>           | <b>967</b>             |
|                                 | Water trailer (2,000–7,000 litres)  | <b>20 250</b>                    | 15                                    | 267                     | 126                           | <b>393</b>                    | 0.8  | 8                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Water trailer (more than 7,000 litres)  | <b>22 755</b>                    | 15                                    | 327                     | 142                           | <b>468</b>                    | 0.8  | 5                                     | <b>1 294</b>         | <b>1 537</b>           |
|                                 | Welding trailer <sup>k</sup>  | <b>50 187</b>                    | 10                                    | 103                     | 452                           | <b>555</b>                    | 0.8  | 6                                     | <b>540</b>           | <b>630</b>             |
| <b>Unmanned aircraft system</b> | Micro (multirotor)  | <b>4 063</b>                     | 5                                     | 235                     | 68                            | <b>303</b>                    | 0.1  |                                       |                      |                        |
|                                 | Mini (hand-launched)  | <b>157 434</b>                   | 7                                     | 704                     | 1 887                         | <b>2 591</b>                  | 0.1  |                                       |                      |                        |

(Footnotes on following page)

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## (Footnotes to annex A)

*Notes:* With the exception of wet lease rates for certain types of electrical equipment, the formulas for calculating the dry and wet lease rates are as follows: monthly dry lease rate: (generic fair market value/useful life/12) + (generic fair market value x no-fault incident factor/12) and monthly wet lease rate: (generic fair market value/useful life/12) + (generic fair market value x no-fault incident factor/12) + monthly maintenance rate (A/C.5/49/70, annex, notes to appendix II.B). The monthly wet lease rates of reimbursement are calculated by adding the approved dry lease rate and the estimated monthly maintenance cost. Corrections have been made to account for arithmetic accuracy. All rates are effective as at 1 July 2020.

Reimbursement for painting will be calculated using the list of major equipment in annex B to the memorandum of understanding multiplied by the applicable reimbursement rates upon confirmation by the mission through verification reports (arrival or periodic) or other means that the major equipment items were painted. Reimbursement for repainting will be based on major equipment departing the mission in accordance with the departure verification reports. Reimbursement of the cost of painting and repainting for generic major equipment for which a standard rate was not determined and for "special case major equipment" should be agreed at the time of negotiation of the memorandum of understanding. Alternatively, a claim should be submitted after the painting or repainting has occurred for review and calculation of an appropriate reimbursement. Reimbursement for painting and repainting for major equipment not identified separately in annex B to the memorandum of understanding but used in the performance of self-sustainment capabilities, such as containers and communication vehicles, should be submitted through a separate claim showing the applicable category of self-sustainment, and the type and quantity of equipment. These claims will be reviewed to assess that the type and quantity of major equipment used for self-sustainment are required and reasonable and to establish, where possible, a logical link with existing major equipment items for which standard rates were determined. If no logical link to existing major equipment exists, the claim will be reviewed and negotiated on a case-by-case basis. The painting and repainting rates are as in A/C.5/55/39 and A/C.5/55/39/Corr.1, annex I.C. These rates are effective 1 July 2001. Generic fair market value rates are in accordance with A/C.5/65/16.

<sup>a</sup> In chapter 3, annex A, paras. 30 and 33, it is stated that, owing to the special nature of aircraft and naval vessels, type, quantity and performance criteria will be stipulated separately in letters of assist.

<sup>b</sup> Generic major equipment items for which the painting and repainting rates were derived from the standard painting and repainting rates for other similar or logically linked major equipment.

<sup>c</sup> New major equipment approved as a result of the 2017 Working Group on Contingent-Owned Equipment.

<sup>d</sup> The sniper weapons system kit should consist of rifle, scope, night scope, weather meter and carrying case/bag.

<sup>e</sup> The rates for the categories of armoured personnel carriers and tanks are to be regarded as interim until the next generic fair market value review. To determine in which class a carrier or tanks are to be placed, the generic fair market value of the class of carrier or tank closest to the actual value of the carrier or tank from the troop/police contributor will be used (A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 40).

<sup>f</sup> Demining and equipment for the disposal of explosive ordnance/improvised explosive devices should perform in compliance with the International Mine Action Standards.

<sup>g</sup> Allowable power penetration range (photovoltaic peak power kW to generator 100 per cent load rating kW) of 25–35 per cent.

<sup>h</sup> Allowable power penetration range (photovoltaic peak power kW to generator 100 per cent load rating kW) of more than 35 per cent.

<sup>i</sup> The maintenance rate for all medical modules is calculated at 0.5 per cent of the generic fair market value (A/C.5/55/39 and A/C.5/55/39/Corr.1, para. 118 (c)).

<sup>j</sup> The generic fair market value for medical equipment was adjusted to set the same value of identical equipment across the various levels of medical facilities and modules, using level 2 as the anchor value (A/C.5/65/16, paras. 138, 144, 148 and 150).

<sup>k</sup> Rates for new items are in accordance with A/C.5/65/16, annexes 1.1 and 1.2.

<sup>l</sup> Rates for new items in accordance with A/C.5/68/22, para. 104 (b).

<sup>m</sup> Applicable only to military contingents with riot control tasks in accordance with A/C.5/68/22, para. 105.

<sup>n</sup> Renewable energy storage systems are to be used in conjunction with a solar photovoltaic system in low- or medium-penetration hybrid configurations.

<sup>o</sup> Includes recurring utilization costs.

<sup>p</sup> Taking into consideration the physiological differences between men and women personnel, including size.

<sup>q</sup> Solar photovoltaic system integrated with diesel generator(s) where the solar photovoltaic system can provide between 25 and 35 per cent of the generator 100 per cent load rating as expressed in kW (kW=kVA\*0.8). The dry and wet lease rates listed pertain to the reimbursement of the solar photovoltaic system only. Generators are to be reimbursed based on the applicable rates for the generators, stationary and mobile, and generators ISO 8528 prime power standards and role generator, categories as listed in chap. 8, annex A.

<sup>r</sup> Ablution facilities include toilets, showers and washbasins. These facilities will generally be connected to or supported through the United Nations wastewater management plan.

<sup>s</sup> The portable field latrine set includes a portable prefabricated superstructure, squatting plate and seat, if required. Portable dry toilet (e.g. composting): portable prefabricated zero liquid effluent individual toilet unit. Portable chemical toilet: portable prefabricated individual toilet equipped with a compartment in which waste is treated with chemicals for temporary storage.

<sup>t</sup> Includes recurring utilization costs.

<sup>u</sup> A remotely operated vehicle is a remote-controlled robot that forms part of the explosive ordnance disposal/improvised explosive device disposal team equipment. It is not a vehicle in the common sense and, as such, does not incur costs related to insurance, plates, painting, etc.

<sup>v</sup> Renewable energy storage systems are to be used in conjunction with a solar photovoltaic system in low- or medium-penetration hybrid configurations.

## Chapter 8, annex B

## Annex B

Reimbursement rates for self-sustainment<sup>a</sup>

(United States dollars)

**Requirements**

For the period starting: \_\_\_\_\_

| <i>Factors: extreme environmental conditions, logistics and road conditions, hostile action or forced abandonment</i> | <i>Monthly rate (excluding factors)</i> | <i>Monthly rate (including factors)</i> | <i>Personnel strength ceiling</i> | <i>Monthly reimbursement (including factors)</i> |
|---|---|---|-----------------------------------|--|
| Catering  | 28.99                                   |   |                                   |  |
| Communications:   |   |   |                                   |  |
| High frequency  | 18.26                                   |   |                                   |  |
| Telephone   | 15.73                                   |   |                                   |  |
| VHF/UHF-FM  | 48.17                                   |   |                                   |  |
| Office  | 23.22                                   |   |                                   |  |
| Electrical  | 27.94                                   |   |                                   |  |
| Minor engineering   | 18.13                                   |   |                                   |  |
| Explosive ordnance disposal   | 8.64                                    |   |                                   |  |
| Laundry and cleaning:   |   |   |                                   |  |
| Laundry   | 9.61                                    |   |                                   |  |
| Cleaning  | 14.32                                   |   |                                   |  |
| Tentage   | 27.04                                   |   |                                   |  |
| Accommodation   | 42.10                                   |   |                                   |  |
| Basic firefighting  | 0.23                                    |   |                                   |  |
| Fire detection and alarm  | 0.16                                    |   |                                   |  |
| Medical:  |   |   |                                   |  |
| Buddy first aid   | 3.27                                    |   |                                   |  |
| Communal first aid  | 2.21                                    |   |                                   |  |
| Level 1   | 16.36                                   |   |                                   |  |
| Level 2 (including dental and lab)  | 21.87                                   |   |                                   |  |
| Level 3 (including dental and lab)  | 26.08                                   |   |                                   |  |
| Level 2 and 3 combined (including dental and lab)   | 36.54                                   |   |                                   |  |
| High-risk areas (epidemiological)   | 9.26                                    |   |                                   |  |
| Blood and blood products  | 2.33                                    |   |                                   |  |
| Dental only   | 2.82                                    |   |                                   |  |
| Gynaecology <sup>b</sup>  | 2.16                                    |   |                                   |  |
| Laboratory only   | 4.66                                    |   |                                   |  |
| Light mobile surgical module  | 4.93                                    |   |                                   |  |
| Aeromedical evacuation module   | 0.22                                    |   |                                   |  |
| Orthopaedic module  | 0.08                                    |   |                                   |  |
| Physiotherapy module  | 0.11                                    |   |                                   |  |
| Internal medicine module  | 1.61                                    |   |                                   |  |

## Chapter 8, annex A

| <i>Factors: extreme environmental conditions, logistics and road conditions, hostile action or forced abandonment</i> | <i>Monthly rate (excluding factors)</i> | <i>Monthly rate (including factors)</i> | <i>Personnel strength ceiling</i> | <i>Monthly reimbursement (including factors)</i> |
|---|---|---|-----------------------------------|--|
| Observation:  |   |   |                                   |  |
| General   | 1.47                                    |   |                                   |  |
| Night observation   | 24.78                                   |   |                                   |  |
| Positioning   | 5.84                                    |   |                                   |  |
| Identification  | 1.23                                    |   |                                   |  |
| Nuclear, biological and chemical protection   | 27.35                                   |   |                                   |  |
| Field defence stores  | 34.86                                   |   |                                   |  |
| Miscellaneous general stores:   |   |   |                                   |  |
| Bedding   | 18.08                                   |   |                                   |  |
| Furniture   | 23.56                                   |   |                                   |  |
| Welfare   | 6.84                                    |   |                                   |  |
| Internet access <sup>c</sup>  | 6.00                                    |   |                                   |  |
| Unique equipment  |   | Special case                            |                                   |  |

<sup>a</sup> These rates are effective as at 1 July 2017.

<sup>b</sup> [A/C.5/68/22](#), para. 131 (a); for female personnel only.

<sup>c</sup> The rate for Internet access is effective as at 1 July 2020.

## Chapter 9

### Model memorandum of understanding

In its resolution [59/300](#) of 22 June 2005, the General Assembly, by endorsing the recommendations of the Special Committee on Peacekeeping Operations, requested the Secretary-General to submit a revised draft model memorandum of understanding, taking into account the recommendations of the Special Committee contained in paragraph 39 of its report ([A/59/19/Add.1](#)), the report on a comprehensive strategy to eliminate future sexual exploitation and abuse in United Nations peacekeeping operations ([A/59/710](#)) and Assembly resolution [59/287](#) of 13 April 2005. By its resolution [61/267 A](#) of 16 May 2007, the Assembly endorsed the recommendation, contained in the report ([A/61/19 \(Part I\)](#)) of the Special Committee on its second resumed session of 2006, regarding the draft text of the memorandum of understanding, which was subsequently proposed by the Special Committee in its report on its 2007 resumed session ([A/61/19 \(Part III\)](#)), dated 12 June 2007.

## Generic model for military contingents

### Memorandum of understanding between the United Nations and the Government of [...] contributing resources to [United Nations peacekeeping operation]

*Whereas*, [the United Nations peacekeeping operation] was established pursuant to Security Council resolution \_\_\_\_\_.

*Whereas*, at the request of the United Nations, the Government of \_\_\_\_\_ (hereinafter referred to as the Government) has agreed to contribute personnel, equipment and services for a [type of contingent or unit] to assist [United Nations peacekeeping operation] to carry out its mandate,

*Whereas*, the United Nations and the Government wish to establish the terms and conditions of the contribution,

*Now, therefore*, the United Nations and the Government (hereinafter collectively referred to as the Parties) agree as follows:

#### Article 1 Definitions

1. For the purpose of this memorandum of understanding, the definitions listed in annex H shall apply.

#### Article 2 Documents constituting the memorandum of understanding

2.1 This document, including all of its annexes, constitutes the entire memorandum of understanding between the Parties for the provision of personnel, equipment and services in support of [United Nations peacekeeping operation].

2.2 Annexes:

A. Personnel

1. Requirements
2. Reimbursement
3. General conditions for personnel

Appendix. Soldier's kit: mission-specific recommended requirement

B. Major equipment

1. Requirements
2. General conditions for major equipment
3. Verification and control procedures
4. Transportation
5. Mission factors
6. Loss and damage
7. Loss and damage in transit

8. Special case equipment
9. Liability for damage to major equipment owned by one troop contributor and used by another troop contributor

Appendix 1. Special case equipment

Appendix 2. List of third-party-owned equipment

C. Self-sustainment

1. Requirements
2. General conditions for self-sustainment
3. Verification and control procedures
4. Transportation
5. Mission factors
6. Loss or damage

Appendix 1. Self-sustainment services: distribution of responsibilities

Appendix 2. List of items provided by troop contributor under the self-sustainment subcategories of “welfare” and “Internet access”

- D. Principles of verification and performance standards for major equipment provided under a wet lease or dry lease arrangement
- E. Principles of verification and performance standards for minor equipment and consumables provided under self-sustainment
- F. Principles of verification and performance standards for medical support
- G. Statement of unit requirements
- H. Definitions
- I. Guidelines (aide-mémoire) for troop-contributing countries<sup>1</sup>
- J. We are United Nations peacekeeping personnel
- K. Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions<sup>2</sup>

### **Article 3 Purpose**

3. The purpose of the present memorandum of understanding is to establish the administrative, logistical and financial terms and conditions governing the contribution of personnel, equipment and services provided by the Government in support of [United Nations peacekeeping operation] and to specify United Nations standards of conduct for personnel provided by the Government.

<sup>1</sup> Annex I is mission-specific and is not included in the present document. It is distributed separately in advance of deployment.

<sup>2</sup> Annex K is not included in the present document. It is distributed separately.

#### **Article 4 Application**

4. The present memorandum of understanding shall be applied in conjunction with the guidelines for troop-contributing countries.

#### **Article 5 Contribution of the Government**

5.1 The Government shall contribute to [United Nations peacekeeping operation] the personnel listed in annex A. Any personnel above the level indicated in this memorandum of understanding shall be a national responsibility and thus not subject to reimbursement or other kind of support by the United Nations.

5.2 The Government shall contribute to [United Nations peacekeeping operation] the major equipment listed in annex B. The Government shall ensure that the major equipment and related minor equipment meet the performance standards set out in annexes D and F for the duration of the deployment of such equipment to [United Nations peacekeeping operation]. Any equipment above the level indicated in this memorandum of understanding shall be a national responsibility and thus not subject to reimbursement or other kind of support by the United Nations.

5.3 The Government shall contribute to [United Nations peacekeeping operation] the minor equipment and consumables related to self-sustainment as listed in annex C. The Government shall ensure that the minor equipment and consumables meet the performance standards set out in annexes E and F for the duration of the deployment of such equipment to [United Nations peacekeeping operation]. Any equipment above the level indicated in this memorandum of understanding shall be a national responsibility and thus not subject to reimbursement or other kind of support by the United Nations.

#### **Article 6 Reimbursement and support from the United Nations**

6.1 The United Nations shall reimburse the Government in respect of the personnel provided under this memorandum of understanding at the rates stated in article 2 of annex A.

6.2 The United Nations shall reimburse the Government for the major equipment provided as listed in annex B. The reimbursement for the major equipment shall be reduced in the event that such equipment does not meet the required performance standards set out in annexes D and F or in the event that the equipment listing is reduced.

6.3 The United Nations shall reimburse the Government for the provision of self-sustainment goods and services at the rates and levels stated in annex C. The reimbursement for self-sustainment shall be reduced in the event that the contingent does not meet the required performance standards set out in annexes E and F, or in the event that the level of self-sustainment is reduced.

6.4 Reimbursement for contingent personnel will continue at full rates until the departure of the personnel.

6.5 Reimbursement for major equipment will be in effect at full rates until the date of cessation of operations by a troop contributor or termination of the mission. Thereafter, reimbursement will be reduced to 50 per cent of the rates agreed in the memorandum of understanding and will cease once equipment departs the mission area or 90 days after the date of cessation of operations or the termination of the

mission (whichever happens earlier), except in those instances deemed to be outside the control of the troop/police contributor, as determined by the United Nations.

6.6 Reimbursement for self-sustainment will be in effect at full rates until the date of cessation of operations by a troop contributor or termination of the mission. Thereafter, the following categories will be reimbursed at 100 per cent and calculated upon the remaining actual deployed troop strengths until all contingent personnel have departed the mission area:

- General/catering
- Communications/telephone
- General/laundry
- General/accommodation
- Medical/high-risk (epidemiological)
- Miscellaneous general stores/bedding
- Miscellaneous general stores/furniture

After the cessation of operations, reimbursement for other categories will be reduced to 50 per cent of the rates agreed in this memorandum of understanding calculated upon the remaining actual deployed troop strengths until all troop personnel have departed the mission area.

6.7 When the United Nations negotiates a contract for the repatriation of equipment and the carrier exceeds a 14-day grace period after the expected arrival date, the troop contributor will be reimbursed by the United Nations at the dry lease rate from the expected arrival date until the actual arrival date.

#### **Article 7 General conditions**

7.1 The parties agree that the contribution of the Government, as well as the support provided by the United Nations, shall be governed by the general conditions set out in the relevant annexes.

#### **Article 7 bis United Nations standards of conduct**

7.2 The Government shall ensure that all members of the Government's national contingent are required to comply with the United Nations standards of conduct set out in annex J to the present memorandum of understanding.

7.3 The Government shall ensure that all members of its national contingent are made familiar with and fully understand the United Nations standards of conduct. To this end, the Government shall, inter alia, ensure that all members of its national contingent receive adequate and effective predeployment training in those standards.

7.4 The United Nations shall continue to provide to national contingents mission-specific training material on United Nations standards of conduct, mission-specific rules and regulations, and relevant local laws and regulations. Further, the United Nations shall conduct adequate and effective induction training and training during mission assignment to complement predeployment training.

### **Article 7 ter Discipline**

7.5 The Government acknowledges that the Commander of its national contingent is responsible for the discipline and good order of all members of the contingent while assigned to [United Nations peacekeeping operation]. The Government accordingly undertakes to ensure that the Commander of its national contingent is vested with the necessary authority and takes all reasonable measures to maintain discipline and good order among all members of the national contingent and to ensure compliance with United Nations standards of conduct, mission-specific rules and regulations and obligations under national and local laws and regulations in accordance with the status-of-forces agreement.

7.6 The Government undertakes to ensure, subject to any applicable national laws, that the Commander of its national contingent regularly informs the Force Commander of any serious matters involving the discipline and good order of members of its national contingent, including any disciplinary action taken for violations of the United Nations standards of conduct or mission-specific rules and regulations or for failure to respect local laws and regulations.

7.7 The Government shall ensure that the Commander of its national contingent receives adequate and effective predeployment training in the proper discharge of his or her responsibility for maintaining discipline and good order among all members of the contingent.

7.8 The United Nations shall assist the Government in fulfilling its requirements under paragraph 7.3 above by organizing training sessions for commanders upon their arrival in the mission on the United Nations standards of conduct, mission-specific rules and regulations and the local laws and regulations.

7.9 The Government shall use its welfare payments to provide adequate welfare and recreational facilities to its contingent members in the mission.

### **Article 7 quater Investigations**

7.10 It is understood that the Government has the primary responsibility for investigating any acts of misconduct or serious misconduct committed by a member of its national contingent.

7.11 In the event that the Government has prima facie grounds indicating that any member of its national contingent has committed an act of serious misconduct, it shall without delay inform the United Nations and forward the case to its appropriate national authorities for the purposes of investigation.

7.12 In the event that the United Nations has prima facie grounds indicating that any member of the Government's national contingent has committed an act of misconduct or serious misconduct, the United Nations shall without delay inform the Government. If necessary to preserve evidence and where the Government does not conduct fact-finding proceedings, the United Nations may, in cases of serious misconduct, as appropriate, where the United Nations has informed the Government of the allegation, initiate a preliminary fact-finding inquiry into the matter, until the Government starts its own investigation. It is understood in this connection that any such preliminary fact-finding inquiry will be conducted by the appropriate United Nations investigative office, including the Office of Internal Oversight Services, in accordance with the rules of the Organization. Any such preliminary fact-finding

inquiry shall include as part of the investigation team a representative of the Government. The United Nations shall provide a complete report of its preliminary fact-finding inquiry to the Government at its request without delay.

7.13 In the event that the Government does not notify the United Nations as soon as possible, but no later than 10 working days from the time of notification by the United Nations, that it will start its own investigation of the alleged serious misconduct, the Government is considered to be unwilling or unable to conduct such an investigation and the United Nations may, as appropriate, initiate an administrative investigation of the alleged serious misconduct without delay. The administrative investigation conducted by the United Nations in regard to any member of the national contingent shall respect those legal rights of due process which are provided to him or her by national and international law. Any such administrative investigation will include as part of the investigation team a representative of the Government if the Government provides one. In the event that the Government nevertheless decides to start its own investigation, the United Nations will provide all available materials of the case to the Government without delay. In cases where a United Nations administrative investigation is completed, the United Nations shall provide the Government with the findings of the investigation and the evidence gathered in the course of said investigation.

7.14 In the event of a United Nations administrative investigation into possible serious misconduct by any member of the national contingent, the Government agrees to instruct the Commander of its national contingent to cooperate and to share documentation and information, subject to applicable national laws, including military laws. The Government also undertakes, through the Commander of its national contingent, to instruct the members of its national contingent to cooperate with such a United Nations investigation, subject to applicable national laws, including military laws.

7.15 When the Government decides to start its own investigation and to identify or send one or more officials to investigate the matter, it shall immediately inform the United Nations of that decision, including the identity of the official or officials concerned (hereinafter “National Investigation Officers”).

7.16 The United Nations agrees to cooperate fully and to share documentation and information with appropriate authorities of the Government, including any National Investigation Officers, who are investigating possible misconduct or serious misconduct by any member of the national contingent of the Government.

7.17 Upon the request of the Government, the United Nations shall cooperate with the competent authorities of the Government, including any National Investigation Officers, that are investigating possible misconduct or serious misconduct by any members of its national contingent, by liaising with other Governments that are contributing personnel that support [United Nations peacekeeping operation], as well as with the competent authorities in the mission area, with a view to facilitating the conduct of those investigations. To this end, the United Nations shall take all possible measures to obtain consent from the host authorities. The competent authorities of the Government shall ensure that prior authorization for access to any victim or witness who is not a member of the national contingent, as well as for the collection or securing of evidence not under the ownership and control of the national contingent, is obtained from the competent authorities of the host nation.

7.18 In cases where National Investigation Officers are dispatched to the mission area, they will lead the investigation. The role of the United Nations investigators in such cases will be to assist the National Investigation Officers, if necessary, in the

**Chapter 9**

Memorandum of understanding for military contingents  
DOS-MOU-[mission]-[country]-[serial #]-[version number]

conduct of their investigations in terms of identification and interviewing of witnesses, recording witness statements, collecting documentary and forensic evidence and providing administrative, as well as logistical, assistance.

7.19 Subject to its national laws and regulations, the Government shall provide the United Nations with the findings of investigations conducted by its competent authorities, including any National Investigation Officers, into possible misconduct or serious misconduct by any member of its national contingent.

7.20 When National Investigation Officers are deployed in the mission area, they will enjoy the same legal status as if they were members of their respective contingent while they are in the mission area or host country.

7.21 Upon the request of the Government, the United Nations shall provide administrative and logistical support to the National Investigation Officers while they are in the mission area or host country. The Secretary-General will provide, in accordance with his or her authority, financial support as appropriate for the deployment of National Investigation Officers in situations where their presence is requested by the United Nations, normally the Department of Operational Support, and where financial support is requested by the Government. The United Nations will request the Government to deploy National Investigation Officers in high-risk, complex matters and in cases of serious misconduct. The present paragraph is without prejudice to the sovereign right of the Government to investigate any misconduct of its contingent members.

**Article 7 quinquies**  
**Exercise of jurisdiction by the Government**

7.22 Military members and any civilian members subject to national laws of the national contingent provided by the Government are subject to the Government's exclusive jurisdiction in respect of any crimes or offences that might be committed by them while they are assigned to the military component of [United Nations peacekeeping operation]. The Government assures the United Nations that it shall exercise such jurisdiction with respect to such crimes or offences.

7.23 The Government further assures the United Nations that it shall exercise such disciplinary jurisdiction as might be necessary with respect to all other acts of misconduct committed by any members of the Government's national contingent while they are assigned to the military component of [United Nations peacekeeping operation] that do not amount to crimes or offences.

**Article 7 sexiens**  
**Accountability**

7.24 If either a United Nations investigation or an investigation conducted by the competent authorities of the Government concludes that suspicions of misconduct by any member of the Government's national contingent are well founded, the Government shall ensure that the case is forwarded to its appropriate authorities for due action. The Government agrees that those authorities shall take their decision in the same manner as they would in respect of any other offence or disciplinary infraction of a similar nature under its laws or relevant disciplinary code. The Government agrees to notify the Secretary-General of progress on a regular basis, including the outcome of the case.

7.25 If a United Nations investigation, in accordance with appropriate procedures, or the Government's investigation concludes that there are suspicions of failure by the contingent Commander to fulfil one or more of the following aspects, the Government shall ensure that the case is forwarded to its appropriate authorities for due action:

(a) To cooperate with a United Nations investigation in accordance with article 7 quater, paragraph 7.14, it being understood that the Commander will not have failed to cooperate merely by complying with his or her national laws and regulations, or the Government's investigation;

(b) To exercise effective command and control;

(c) To immediately report to appropriate authorities or take action in respect of allegations of misconduct that are reported to him to be well founded.

The fulfilment of these aspects shall be evaluated in the contingent Commander's performance appraisal.

7.26 The Government understands the importance of settling matters relating to paternity claims involving a member of its contingent. The Government will, to the extent of its national laws, seek to facilitate such claims provided to it by the United Nations to be forwarded to the appropriate national authorities. In the event that the Government's national law does not recognize the legal capacity of the United Nations to provide such claims, these shall be provided to the Government by the appropriate authorities of the host country, in accordance with applicable procedures. The United Nations must ensure that such claims are accompanied by the necessary conclusive evidence, such as a DNA sample from the child when prescribed by the Government's national law.

7.27 Bearing in mind the contingent Commander's obligation to maintain the discipline and good order of the contingent, the United Nations, through the Force Commander, shall ensure that the contingent is deployed in the mission in accordance with the agreement between the United Nations and the Government. Any repatriation outside the agreement will be made with the consent of the Government or contingent Commander, in accordance with applicable national procedures.

#### **Article 7 septies**

##### **Environmental compliance and waste management**

7.28 Troop-contributing countries will ensure that all members of the national contingent conduct themselves in an environmentally conscious manner. They shall observe established United Nations rules and regulations applicable to the functioning of peacekeeping operations, endeavouring to achieve full compliance with United Nations environmental and waste management policies and procedures for field missions, as set out in annex K to the present memorandum of understanding. National contingents will appoint, where requested by the Force Commander, officials to serve as environmental focal points. National contingents undertake that they will "do no harm" to the local environment (including wild plants and animals) and, upon departure, will leave the premises and physical environment in the condition in which it was provided to them. The only exceptions to this requirement to remediate will be in exceptional cases of operational imperative where the Mission has been informed. They will observe a policy of no littering around the bases or on patrols, and a policy of no discharge of untreated wastewater outside the permanent bases. The untreated wastewater should be discharged only inside permanent bases or in the United Nations-designated wastewater discharge areas. They will reduce their

environmental footprint by taking concrete steps to conserve water, energy and other natural resources, reduce and segregate waste, and properly manage hazardous waste and wastewater for which they are responsible. Where possible, the use of renewable energy will be prioritized.

7.29 The United Nations will provide assistance to national contingents to enable them to comply with United Nations environmental and waste management policies and procedures. Such assistance shall include providing national contingents with the agreed infrastructure and services that enable them to operate in an environmentally conscious manner.<sup>3</sup> The United Nations will provide mission-specific briefings, induction and continuing training on field mission policies and procedures regarding environmental and waste management, comprising practical actions that can be taken by uniformed personnel to ensure a responsible presence in accordance with the relevant United Nations environmental policies, such as the Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions, and mission-specific guidelines, standard operating procedures and directives.

### Article 8 Specific conditions

8.1 Extreme environmental conditions factor: \_\_\_\_\_

8.2 Logistics and road conditions factor: \_\_\_\_\_

8.3 Hostile action or forced abandonment factor: \_\_\_\_\_

8.4 Incremental transportation factor: The distance between the port of embarkation in the home country and the port of entry in the mission area is estimated at \_\_\_ miles (\_\_\_ kilometres). The factor is set at \_\_\_\_\_ per cent of the reimbursement rates.

8.5 The following locations are the agreed originating locations and ports of entry and exit for the purpose of transportation arrangements for the movement of troops and equipment:

Troops:

Airport/port of entry and exit: \_\_\_\_\_  
(in the troop-contributing country)

Airport/port of entry and exit: \_\_\_\_\_  
(in the area of operations)

*Note:* The troops may be returned to another location nominated by the troop contributor; however, the maximum cost to the United Nations will be the cost to the agreed originating location. Where a rotation uplifts troops from a different port of exit, this port shall become the agreed port of entry for these troops.

Equipment:

Originating location: \_\_\_\_\_

Port of embarkation/disembarkation: \_\_\_\_\_  
(in the contributing country)

<sup>3</sup> “Generic guidelines for troop-contributing countries deploying military units to the United Nations peacekeeping missions”, chap. 1.8.2, in particular chaps. 1.8.2.6, para. 89, and 1.8.2.7; and United Nations Environment Programme, *Compendium of Technologies for Treatment/Destruction of Healthcare Waste*.

or

Border crossing at embarkation/disembarkation: \_\_\_\_\_  
(in the contributing country if landlocked or moving equipment by road/rail)

Port of embarkation/disembarkation: \_\_\_\_\_  
(in the mission area)

### **Article 9**

#### **Claims by third parties**

9. The United Nations will be responsible for dealing with any claims by third parties where the loss of or damage to their property, or death or personal injury, was caused by the personnel or equipment provided by the Government in the performance of services or any other activity or operation under this memorandum of understanding. However, if the loss, damage, death or injury arose from gross negligence or wilful misconduct of the personnel provided by the Government, the Government will be liable for such claims.

### **Article 10**

#### **Recovery**

10. The Government will reimburse the United Nations for loss of or damage to United Nations-owned equipment and property caused by the personnel or equipment provided by the Government if such loss or damage (a) occurred outside the performance of services or any other activity or operation under this memorandum of understanding, or (b) arose or resulted from gross negligence or wilful misconduct of the personnel provided by the Government.

### **Article 11**

#### **Supplementary arrangements**

11. The parties may conclude written supplementary arrangements to the present memorandum of understanding.

### **Article 12**

#### **Amendments**

12. Either of the Parties may initiate a review of the level of contribution subject to reimbursement by the United Nations or of the level of national support to ensure compatibility with the operational requirements of the mission and of the Government. The present memorandum of understanding may be amended only by written agreement of the Government and the United Nations.

### **Article 13**

#### **Settlement of disputes**

13.1 [United Nations peacekeeping operation] shall establish a mechanism within the mission to discuss and resolve, amicably by negotiation in a spirit of cooperation, differences arising from the application of this memorandum of understanding. This mechanism shall be comprised of two levels of dispute resolution:

(a) First level: The Director/Chief of Mission Support, in consultation with the Force Commander and the Contingent Commander, will attempt to reach a negotiated settlement of the dispute;

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(b) Second level: Should negotiations at the first level not resolve the dispute, a representative of the Permanent Mission of the Member State and the Under-Secretary-General for Operational Support, or his or her representative, shall, at the request of either Party, attempt to reach a negotiated settlement of the dispute.

13.2 Disputes that have not been resolved as provided in paragraph 13.1 above may be submitted to a mutually agreed conciliator or mediator appointed by the President of the International Court of Justice, failing which the dispute may be submitted to arbitration at the request of either Party. Each Party shall appoint one arbitrator, and the two arbitrators so appointed shall appoint a third, who shall be the Chair. If, within 30 days of the request for arbitration, either Party has not appointed an arbitrator or if, within 30 days of the appointment of two arbitrators, the third arbitrator has not been appointed, either Party may request the President of the International Court of Justice to appoint an arbitrator. The procedures for the arbitration shall be fixed by the arbitrators, and each Party shall bear its own expenses. The arbitral award shall contain a statement of the reasons on which it is based and shall be accepted by the Parties as the final adjudication of the dispute. The arbitrators shall have no authority to award interest or punitive damages.

#### Article 14 Entry into force

14. The present memorandum of understanding shall become effective on [date]. The financial obligations of the United Nations with respect to reimbursement of personnel, major equipment and self-sustainment rates start from the date of arrival of personnel or equipment in the mission area, and will remain in effect until the date that personnel and serviceable equipment depart the mission area, as per the agreed withdrawal plan, or the date of effective departure where the delay is attributable to the United Nations.

#### Article 15 Termination

15. The modalities for termination shall be as agreed to by the Parties following consultations between the Parties.

IN WITNESS WHEREOF, the United Nations and the Government of \_\_\_\_\_ have signed this memorandum of understanding.

Signed in New York, on \_\_\_\_\_, in two originals in the English language.

For the United Nations

For the Government of [troop contributor]

\_\_\_\_\_  
Under-Secretary-General for  
Operational Support

\_\_\_\_\_  
Permanent Representative of [troop contributor]  
Permanent Mission of [troop contributor]

**Annex A****Personnel****I. Requirements**

1. The Government agrees to provide the following personnel:

For the period starting: \_\_\_\_\_

| <i>Unit/sub-unit type</i> | <i>Number of personnel</i> | <i>Remarks</i> |
|---------------------------|----------------------------|----------------|
|                           |                            |                |
| <b>Total</b>              |                            |                |

*Note:* The Government may provide additional personnel as a national command element or national support element at its own expense. There will be no payment for reimbursement, rotation or self-sustainment of contingent personnel and no other financial liability for the United Nations for national support element personnel.

**II. Reimbursement**

2. The Government will be reimbursed for contingent personnel at the single rate of reimbursement of \$1,448 per person per month for those common and essential additional costs incurred owing to the deployment of these contingent personnel to United Nations field missions. The Government will also be further temporarily reimbursed through 30 June 2026 at the single rate of reimbursement of \$4.90 per person per month for those common and essential additional costs incurred owing to mandatory predeployment COVID-19 testing, subject to the continued requirement of such testing by the Secretary-General. Pursuant to General Assembly resolution [76/276](#), these reimbursement rates for contingent personnel will take effect 1 July 2022.

3. Deduction may be made to reimbursement for contingent personnel in respect of absent or non-functional major equipment listed in this memorandum of understanding, in accordance with General Assembly resolution [67/261](#), paragraph 11.

4. Contingent personnel will receive directly from the field mission a daily allowance of \$1.28 plus a recreational leave allowance of \$11.50 per day for up to 15 days of leave taken during each six-month period.

**III. General conditions for personnel**

5. The Government shall ensure that the personnel it provides meet the standards established by the United Nations for service with [United Nations peacekeeping operation], inter alia, with respect to rank, experience, physical fitness, specialization and knowledge of languages. The personnel shall be trained on the equipment with which the contingent is provided and shall comply with whatever policies and procedures may be laid down by the United Nations regarding medical or other clearances, vaccinations, travel, shipping, leave or other entitlements.

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6. During the period of their assignment to [United Nations peacekeeping operation], the Government shall be responsible for payment of whatever emoluments, allowances and benefits may be due to its personnel under national arrangements.
7. The United Nations shall convey to the Government all pertinent information relating to the provision of the personnel, including matters of liability for loss of or damage to United Nations property and compensation claims in respect of death, injury or illness attributable to United Nations service and/or loss of personal property. Claims for death and disability incidents will be handled pursuant to General Assembly resolutions [51/218 E](#) of 17 June 1997 and [52/177](#) of 18 December 1997. Administrative and payment arrangements and procedures for submitting claims arising from death and disability incidents are set out in [A/52/369](#) of 17 September 1997 authorized by resolution [52/177](#) of 18 December 1997. General Assembly resolution [72/285](#) of 5 July 2018 established the current compensation rate for death and disability at \$77,000.
8. Any personnel above the strength authorized in this memorandum of understanding are a national responsibility, and not subject to reimbursement or support by the United Nations. Such personnel may be deployed to [United Nations peacekeeping operation], with the prior approval of the United Nations, if the troop contributor and the United Nations assess that such personnel are needed for national purposes, for example to operate the communications equipment for a national rear link. These personnel shall be part of the contingent and as such enjoy the legal status of members of [United Nations peacekeeping operation]. The troop contributor will not, however, receive any reimbursement in respect of such personnel and the United Nations will not accept any financial obligation or responsibility in connection with such personnel. Any support or services will be reclaimed from reimbursement due the troop contributor.
9. Personnel deployed at the request of the United Nations for specific tasks of limited duration may be covered by supplementary arrangements to this memorandum of understanding, as appropriate.
10. National civilian personnel provided by the Government who are serving as part of a formed body of troops shall be assimilated with unit members of formed bodies of troops for the purpose of this memorandum of understanding.
11. The general administrative and financial arrangements applicable to the provision of military and other personnel shall be those set forth in the guidelines for troop-contributing countries in annex I.

## Appendix

### Soldier's kit: mission-specific recommended requirement

#### Soldier's kit

In order to meet the minimum operational requirements, the following is a list of recommended items, taking into consideration the physiological differences between men and women personnel, including size. The actual mission-specific requirements will be discussed and agreed upon during negotiations of the memorandum of understanding.

#### Example of requirements for infantry contingent

| <i>Description</i>                     | <i>Quantity</i> |
|--|-----------------|
| Personal safety and security items     |                 |
| Personal weapon                        | 1               |
| Combat helmet                          | 1               |
| Basic flak jacket (fragmentation vest) | 1               |
| Uniform items                          |                 |
| Combat jacket, lightweight             | 2               |
| Shirt, long-sleeve                     | 2               |
| Undershirt                             | 4               |
| Combat trousers, lightweight           | 2               |
| Pocket handkerchief                    | 6               |
| Boots, desert combat                   | 1 pair          |
| Summer socks                           | 4 pairs         |
| Raincoat                               | 1               |
| Shorts                                 | 2               |
| Underwear                              | 4               |
| Suspenders                             | 1               |
| Hand towel                             | 2               |
| Equipment items                        |                 |
| Sleeping bag                           | 1               |
| Travelling bag                         | 1               |
| Toothbrush                             | 1               |
| Dining knife                           | 1               |
| Spoon                                  | 1               |
| Fork                                   | 1               |
| Mess tin                               | 1               |
| Drinking mug                           | 1               |
| Cleaning brush                         | 1               |
| Water canteen                          | 1               |
| Individual mosquito net                | 1               |
| Flashlight                             | 1               |
| Survival kit                           | 1               |
| Compass                                | 1               |
| Additional items                       |                 |
| As required and negotiated             | 1               |

**Annex B**

**Major equipment**

**Country: type of unit**

**I. Requirements**

**Method of reimbursement: wet lease or dry lease arrangement**

(United States dollars)

For the period: \_\_\_\_\_

| Factors: Extreme environmental conditions: _____<br><br>Logistics and road conditions: _____<br><br>Hostile action or forced abandonment (applied only to half of the maintenance rate): _____<br><br>Incremental transportation (applied only to the maintenance rate): _____ |                 |   |   |  |
|--|-----------------|---|---|--|
| <i>Equipment item</i>  | <i>Quantity</i> | <i>Monthly rate<br/>(excluding factors)</i> | <i>Monthly rate<br/>(including factors)</i> | <i>Total monthly reimbursement<br/>(including factors)</i> |
|  |                 |   |   |  |
|  |                 |   |   |  |
|  |                 |   |   |  |
|  |                 |   |   |  |
|  |                 |   |   |  |

**II. General conditions for major equipment**

1. The major equipment provided under this memorandum of understanding shall remain the property of the Government except where specified in the appendix to the present annex.
2. Major equipment deployed for short periods for specific tasks shall not form part of this memorandum of understanding, or it shall be negotiated and agreed upon separately in supplementary arrangements to this memorandum of understanding.
3. Reimbursement for major equipment will be in effect at full rates until the date of cessation of operations by the troop contributor or termination of the mission. Thereafter, reimbursement will be reduced to 50 per cent of the rates agreed in the memorandum of understanding and will cease once equipment departs the mission

area or 90 days after the date of cessation of operations or the termination of the mission (whichever happens earlier), except in those instances deemed to be outside the control of the troop/police contributor, as determined by the United Nations.

4. To meet serviceability standards, contingents have the option to maintain an overstock of up to 10 per cent of the agreed authorized quantities and have this overstock deployed and repatriated with the contingent. The United Nations will assume the cost of deployment and repatriation, and painting and repainting, of the overstock, but the troop contributor will not receive reimbursement under a wet lease or dry lease arrangement for any overstocks.

5. Costs associated with preparing authorized equipment to additional standards defined by the United Nations for deployment to a mission under a wet lease or dry lease arrangement (such as painting, United Nations marking or winterizing) are the responsibility of the United Nations. Similarly, costs for returning authorized equipment to national stocks at the conclusion of a mission (such as repainting to national colours) are also the responsibility of the United Nations. Costs will be assessed and reimbursed on presentation of a claim based on the authorized equipment list contained in this memorandum of understanding. Painting and repainting expenses will be reimbursed using the standard rates of painting and repainting for major equipment authorized in the memorandum of understanding. The cost of repairs is not reimbursable when the equipment is provided under a wet lease arrangement, as repairs are included in the maintenance portion of the wet lease rate.

### III. Verification and control procedures

6. The main purpose of verification and control procedures is to verify that the terms and conditions of the bilateral memorandum of understanding have been met, and to take corrective action when required. The United Nations is responsible, in coordination with the contingent or other delegated authority designated by the troop contributor, for ensuring that the equipment provided by the Government meets the requirements of [United Nations peacekeeping operation] and is provided in accordance with annex D to the memorandum of understanding.

7. The United Nations is therefore authorized to verify the status, condition and quantity of the equipment and services provided. The Government will designate a person, normally identified through his or her function, who is the responsible point of contact for verification and control matters.

8. A principle of reasonability is to govern the verification process. It is to be assessed whether the Government and the United Nations have taken all reasonable measures to meet the spirit of the memorandum of understanding, if not the full substance, and also taken into account the importance of the subject and length of period when the memorandum of understanding has not been fulfilled. The guiding principle in determining reasonability is whether the material to be provided by the Government as well as by the United Nations will meet its military/police function at no additional cost to the United Nations or the Government, other than as provided for in the memorandum of understanding.

9. The results of the control process are to be used as a basis for consultative discussion at the lowest level possible in order to correct the discrepancies or decide corrective action, including adjustment of the agreed eligibility for reimbursement. Alternatively, the parties, given the degree of non-fulfilment of the memorandum of understanding, may seek to renegotiate the scope of the contribution.

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10. The verification process for major equipment consists of the following types of inspections:

(a) **Arrival inspection:**

(i) The inspection of major equipment will take place immediately upon arrival in the mission area and must be completed within one month. The United Nations, in consultation with the troop contributor, will decide the time and place. Where equipment and personnel are already in the mission area when the memorandum of understanding is concluded, the first inspection will be carried out on a date to be jointly determined by the mission and contingent authorities and is to be completed within one month of that date;

(ii) The Government may request a United Nations team to advise or consult on matters pertaining to major equipment and/or self-sustainment. The United Nations will normally request a predeployment visit to the troop-contributing country;

(b) **Quarterly inspection:**

(i) Inspections are conducted on a quarterly basis to assess the status of the major equipment and self-sustainment categories. An inspection report, i.e. a quarterly verification report, is prepared by the United Nations inspection team after each inspection of a unit. The report describes the result of the inspection. The report is examined together with the unit and signed by the contingent representative. If a unit has to fully or partially redeploy within a mission area, the next quarterly inspection in the new location will be carried out on a date to be jointly determined by the mission and the unit authorities. The quarterly verification reports are the basis for processing reimbursement for major equipment and self-sustainment to the Member States;

(ii) The mission will share the results of the verification inspections and verification reports with the contingent commanders in a timely manner;

(c) **Operational inspection:**

(i) Operational inspections, carried out by duly designated representatives of the United Nations, must be conducted at least once every six months. Major equipment will be inspected to ensure that categories and groups, as well as the number delivered, still correspond with those in this memorandum of understanding and the equipment is used appropriately;

(ii) The inspection will also determine if the operational serviceability is in accordance with the specifications mentioned under performance standards listed in annex E;

(d) **Repatriation inspection:**

The repatriation inspection is carried out by duly designated representatives of the United Nations when the contingent or a component thereof leaves the mission to ensure that all major equipment provided by the Government, and only such equipment, is repatriated, and to verify the condition of equipment provided under the dry lease concept;

(e) **Other inspections and reporting:**

- Additional verifications or inspections deemed necessary by the Force Commander/Police Commissioner, Director/Chief of Mission Support or United

Nations Headquarters, such as those required to support standard operational reporting, may be implemented.

- The United Nations may request a predeployment visit to the troop-contributing country to assist the troop contributor to prepare for deployment and to verify the suitability of the major equipment and self-sustainment capabilities proposed for deployment.

#### **IV. Transportation**

11. The United Nations, in consultation with the Government, will make arrangements for, and meet the costs related to, deployment and repatriation of contingent-owned equipment, from and to an agreed port of embarkation/disembarkation and the mission area, either directly or, if transport is to be provided by the Government, under a letter of assist. For landlocked countries or countries where equipment is moved by road or rail to and from the mission area, the port of embarkation/disembarkation will be an agreed border crossing point.

12. Troop contributors are responsible for transportation of the resupply of spare parts and minor equipment related to major equipment, and for rotating equipment to meet national requirements. The monthly estimated maintenance rates of the wet lease rates already include a generic 2 per cent premium for such transportation. In addition, a distance-related increment is applied to the maintenance rates. The distance-related increment is 0.25 per cent of the estimated maintenance rate for each complete 500 miles (800 kilometres) beyond the first 500 miles (800 kilometres) of distance along the consignment route between the port of embarkation in the troop-contributing country and the port of entry in the mission area. For landlocked countries or countries where equipment is moved by road or rail to and from the mission area, the port of entry will be an agreed border crossing point.

13. No separate reimbursement for transportation of spare parts is provided for beyond that covered under the wet lease procedures.

14. Costs related to the rotation of equipment to meet national operational or maintenance requirements will remain ineligible for reimbursement by the United Nations. Certain categories of major equipment under prolonged deployment to peace operations that are non-operable, or for which continued maintenance is not economical in the mission area, can be considered for rotation by the United Nations or under the letter of assist, at United Nations expense, at the discretion of a mission contingent-owned equipment/memorandum of understanding management review board, in consultation with the applicable contingent commander, on the basis of operational requirements within the mission. These categories are as follows: aircraft/airfield support equipment, all types of vehicles, material handling equipment, logistical equipment, electrical equipment, communications equipment and engineering equipment.

15. To be eligible for consideration, equipment must have been continuously deployed in peacekeeping operations for at least seven years or 50 per cent of its estimated useful life, whichever comes earlier. Equipment to be rotated at United Nations expense shall be treated by the United Nations as if it were contingent-owned equipment being repatriated at the end of the contingent's deployment to a mission area. Replacement equipment shall be treated as if it were equipment being deployed under the contingent's initial deployment to a mission area. In exceptional circumstances, such as higher-risk missions, the seven years requirement could be

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reduced to five years for equipment that is unserviceable due to operational tempo, environmental conditions, extreme climate, location, mileage, hours of usage, trafficability or non-negotiable terrain, to be determined and recommended by the mission leadership and decided by the Secretariat. The rotation at United Nations expense will not include equipment which are not serviceable due to lack of maintenance.

16. The United Nations is responsible for the costs of inland transportation of major equipment between an agreed originating location and the port of embarkation/disembarkation. The United Nations may make transport arrangements to and from the originating base; however, the Government will be responsible for costs for anything other than major equipment. Reimbursement of the costs of inland transportation made by the troop contributor for major equipment will be made upon presentation of a claim prepared in accordance with a letter of assist, which will be negotiated in advance of the transportation.

17. The United Nations will be responsible only for paying the inland transportation costs, on initial deployment and subsequent repatriation of the equipment, including inland transportation costs incurred by the troop/police contributor for the movement of contingent-owned equipment by air, from the location of the unit(s) within the home country to the airport of embarkation (owing to urgent operational requirements in the mission area) for the major equipment levels stipulated in the memorandum of understanding, plus the backup vehicles to a maximum of 10 per cent of such authorized levels. The extra costs will be borne by the troop contributor.

18. When the United Nations negotiates a contract for the repatriation of equipment and the carrier exceeds a 14-day grace period after the expected arrival date, the troop contributor will be reimbursed by the United Nations at the dry lease rate from the expected arrival date until the actual arrival date.

**V. Mission factors**

19. Mission factors as described in annex H, if applicable, will be applied to the reimbursement rates for major equipment.

**VI. Loss and damage**

20. When deciding reimbursement for loss and damage, a distinction between no-fault incidents and hostile action or forced abandonment must be made:

(a) **No-fault incidents.** The wet lease/dry lease rates include a no-fault factor to cover loss of or damage to equipment in a no-fault incident. There is no additional reimbursement and no other claims are receivable in the event of equipment loss or damage in such incidents;

(b) **Hostile action or forced abandonment:**

(i) In cases of loss or damage resulting from a single hostile action or forced abandonment, the Government will assume liability for each item of major equipment whose individual generic fair market value is below the threshold value of \$80,000;

(ii) In cases of loss or damage resulting from hostile actions or forced abandonment, the Government will assume liability for equipment when the

collective generic fair market value of losses within one United Nations budget year for the mission is below the threshold value of \$250,000;

(iii) For major equipment lost or damaged as a result of a single hostile action or forced abandonment, the United Nations will assume liability for each item of major equipment whose individual generic fair market value equals or exceeds \$80,000 or for the major equipment lost or damaged when the collective generic fair market value of such equipment equals or exceeds \$250,000 for a series of hostile actions within one United Nations budget year. The value of the loss or damage is determined using the generic fair market value. The reimbursement is made at the generic fair market value less the equipment use charge, i.e. the cumulative dry lease rate and any payments associated with the environmental and logistics and road conditions mission factors made by the United Nations for that equipment;

(iv) In cases of hostile actions during transit as part of the initial deployment organized by the United Nations, the reimbursement for the loss or damage will cover both the major equipment and self-sustainment items. Claims on the self-sustainment items will be made based on the cargo documentation and invoices provided to the United Nations by the troop- and police-contributing countries for the transportation;

(v) The generic fair market value of the equipment reimbursed for a single hostile action or forced abandonment will count towards the generic fair market value of the collective annual budget year threshold of \$250,000;

(vi) The reimbursement will be processed only after the Government undertakes to replace or repair the equipment.

21. Where equipment is provided under wet lease, the method of calculation for damage is the reasonable cost of repair. Equipment that has suffered damage is to be considered a total loss when the cost of repair exceeds 75 per cent of the generic fair market value.

22. The United Nations has no responsibility for reimbursement when loss and damage is due to wilful misconduct or gross negligence by members of the troop contributor as determined by a board of inquiry convened by a duly authorized official of the United Nations, the report of which has been approved by the responsible United Nations official.

## **VII. Loss and damage in transit**

23. Liability for loss or damage during transportation will be assumed by the party making the arrangements. Liability for damage only applies to significant damage. Significant damage means damage where the repairs amount to 10 per cent or more of the generic fair market value of the item of equipment.

## **VIII. Special case equipment**

24. Unless otherwise specifically provided in the memorandum of understanding, loss of or damage to special case equipment shall be treated in the same manner as for other major equipment.

**IX. Liability for damage to major equipment owned by one troop/  
police contributor and used by another troop/police contributor**

25. Major equipment can be provided to the United Nations by one troop/police contributor to be used, at the request of the United Nations, by another troop/police contributor. In these cases, the following principles will apply:

(a) Adequate training is necessary to ensure that a user is qualified to operate unique major equipment such as armoured personnel carriers. The United Nations will be responsible for ensuring that this training is conducted and for providing funding for the training. The arrangements to provide and conduct this training are to be negotiated between the United Nations, the troop/police contributor providing the major equipment and the troop contributor using the major equipment. The results of the negotiation are to be reflected in the respective memorandums of understanding;

(b) Major equipment provided to a United Nations field mission by a troop/police contributor and used by another troop/police contributor shall be treated with due diligence. The user troop/police contributor shall be responsible for reimbursing the providing troop/police contributor, through the United Nations, for any damage that may occur, whether as a result of wilful misconduct, gross negligence or negligence by personnel of the user troop/police contributor;

(c) Any incident involving damage shall be investigated and processed according to the application of United Nations rules and regulations.

## **Appendix 1**

### **Special case equipment**

If applicable, the list of special case equipment should be appended here.

## Appendix 2

### List of third-party-owned equipment

If applicable, the list of third-party-owned equipment for which the troop-contributing country will receive reimbursement only for the maintenance rate and a no-fault incident factor should be appended here.

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## Annex C

## Self-sustainment

## I. Requirements

(United States dollars)

For the period starting: \_\_\_\_\_

| <i>Factors: Extreme environmental conditions:<br/>Logistics and road conditions:<br/>Hostile action or forced abandonment: _____</i> | <i>Monthly rate<br/>(excluding factors)</i> | <i>Monthly rate<br/>(including factors)</i> | <i>Personnel strength<br/>ceiling</i> | <i>Monthly<br/>reimbursement<br/>(including factors)</i> |
|--|---|---|---------------------------------------|--|
| Catering   | 28.54                                       |   |                                       |  |
| Communication  |   |   |                                       |  |
| High frequency   | 17.98                                       |   |                                       |  |
| Telephone  | 15.49                                       |   |                                       |  |
| VHF/UHF-FM   | 47.43                                       |   |                                       |  |
| Office   | 22.86                                       |   |                                       |  |
| Electrical   | 27.51                                       |   |                                       |  |
| Minor engineering  | 17.85                                       |   |                                       |  |
| Explosive ordnance disposal  | 8.51  |   |                                       |  |
| Laundry and cleaning   |   |   |                                       |  |
| Laundry  | 9.46  |   |                                       |  |
| Cleaning   | 14.10                                       |   |                                       |  |
| Tentage  | 26.62                                       |   |                                       |  |
| Accommodation  | 41.45                                       |   |                                       |  |
| Basic firefighting   | 0.23  |   |                                       |  |
| Fire detection and alarm   | 0.16  |   |                                       |  |
| Medical  |   |   |                                       |  |
| Buddy first aid  | 2.69  |   |                                       |  |
| Communal first aid   | 2.18  |   |                                       |  |
| Level 1  | 16.11                                       |   |                                       |  |
| Level 2 (including dental and lab)   | 21.53                                       |   |                                       |  |
| Level 3 (including dental and lab)   | 25.68                                       |   |                                       |  |
| Level 2 and 3 combined (including dental and lab)  | 35.98                                       |   |                                       |  |
| High-risk areas (epidemiological)  | 9.12  |   |                                       |  |
| Blood and blood products   | 2.29  |   |                                       |  |
| Dental only  | 2.78  |   |                                       |  |
| Gynaecology  | 2.13  |   |                                       |  |
| Laboratory only  | 4.59  |   |                                       |  |
| Light mobile surgical module   | 4.93  |   |                                       |  |
| Aeromedical evacuation module  | 0.22  |   |                                       |  |
| Orthopaedic module   | 0.08  |   |                                       |  |
| Physiotherapy module   | 0.11  |   |                                       |  |
| Internal medicine module   | 1.61  |   |                                       |  |

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| <i>Factors: Extreme environmental conditions:<br/>Logistics and road conditions:<br/>Hostile action or forced abandonment: _____</i> | <i>Monthly rate<br/>(excluding factors)</i> | <i>Monthly rate<br/>(including factors)</i> | <i>Personnel strength<br/>ceiling</i> | <i>Monthly<br/>reimbursement<br/>(including factors)</i> |
|--|---|---|---------------------------------------|--|
| Observation  |   |   |                                       |  |
| General  | 1.45  |   |                                       |  |
| Night observation  | 24.40                                       |   |                                       |  |
| Positioning  | 5.75  |   |                                       |  |
| Identification   | 1.21  |   |                                       |  |
| Nuclear, biological and chemical protection  | 26.93                                       |   |                                       |  |
| Field defence stores   | 34.32                                       |   |                                       |  |
| Miscellaneous general stores   |   |   |                                       |  |
| Bedding  | 17.80                                       |   |                                       |  |
| Furniture  | 23.20                                       |   |                                       |  |
| Welfare  | 6.73  |   |                                       |  |
| Internet access  | 4.00  |   |                                       |  |
| Unique equipment   | Special case                                |   |                                       |  |

## II. General conditions for self-sustainment

1. The minor equipment and consumables provided under this memorandum of understanding shall remain the property of the Government.
2. Reimbursement for self-sustainment will be in effect at full rates until the date of cessation of operations by a troop contributor or termination of the mission. Thereafter, the following categories will be reimbursed at 100 per cent and calculated upon the remaining actual deployed troop strengths until all contingent personnel have departed the mission area:

- General/catering
- Communications/telephone
- General/laundry
- General/accommodation
- Medical/high-risk (epidemiological)
- Miscellaneous general stores/bedding
- Miscellaneous general stores/furniture

After the cessation of operations, reimbursement for other categories will be reduced to 50 per cent of the rates agreed in this memorandum of understanding calculated upon the remaining actual deployed troop or formed police strength until all contingent personnel have departed the mission area.

## III. Verification and control procedures

3. The United Nations is responsible, in coordination with the contingent or other delegated authority designated by the troop contributor, for ensuring that the equipment provided by the Government meets the requirements of [United Nations

peacekeeping operation] and is provided in accordance with annex C to the memorandum of understanding.

4. Thus, the United Nations is authorized to verify the status, condition and quantity of the equipment and services provided. The Government will designate a person, normally identified through his or her function, who is the responsible point of contact for verification and control matters.

5. A principle of reasonability is to govern the verification process. It is to be assessed whether the Government and the United Nations have taken all reasonable measures to meet the spirit of the memorandum of understanding, if not the full substance. The guiding principle in determining reasonability is whether the material to be provided by the Government, as well as by the United Nations, will meet its (military/police) function at no additional cost to the United Nations or the Government, other than that provided for in this memorandum of understanding.

6. The result of the verification process is to be used as a basis for a consultative discussion at the lowest level possible in order to correct discrepancies or decide corrective action, including adjustment of the agreed eligibility for reimbursement. Alternatively, the parties, depending on the degree of non-fulfilment of the memorandum of understanding, may seek to renegotiate the scope of the contribution. Neither the Government nor the United Nations should be penalized when non-performance results from the operational situation in the mission area.

7. The verification process for personnel-related minor equipment and consumables comprises three types of inspections:

(a) **Arrival inspection:** The first inspection will take place immediately upon arrival in the mission area and must be completed within one month. A person authorized by the Government must explain and demonstrate the agreed self-sustainment capability. In the same way, the United Nations must give an account of the services provided by the United Nations as stipulated in this memorandum of understanding. Where self-sustainment services are already in the mission area when the memorandum of understanding is concluded, the first inspection will be carried out on a date to be jointly determined by the mission and contingent authorities and is to be completed within one month of that date;

(b) **Quarterly inspection:** Inspections are conducted on a quarterly basis to assess the status of the major equipment and self-sustainment categories. An inspection report, i.e. a quarterly verification report, is prepared by the United Nations inspection team after each inspection of a unit. The report describes the result of the inspection. The report is examined together with the unit and signed by the contingent representative. If a unit has to fully or partially redeploy within a mission area, the next quarterly inspection in the new location will be carried out on a date to be jointly determined by the mission and the unit authorities. The quarterly verification reports are the basis for processing reimbursement for major equipment and self-sustainment to the Member States. The mission will share the results of the verification inspections and verification reports with the contingent commanders in a timely manner;

(c) **Operational inspection:** The operational inspection will be implemented according to operational requirements during the stay of units in the mission area. Categories of self-sustainment for which the unit is responsible will be subject to inspection with a view to assessing whether the self-sustainment capability is sufficient and satisfactory;

(d) **Other inspections and reporting:** Additional verifications or inspections deemed necessary by the Force Commander/Police Commissioner, the Director or Chief of Mission Support, or United Nations Headquarters, such as standard operational reporting, may be implemented. When a unit has to fully or partially redeploy within a mission area, the next periodic inspection in the new location will be carried out on a date to be jointly determined by the mission and the unit authorities.

#### **IV. Transportation**

8. Costs related to the transportation of minor equipment and consumables provided under the self-sustainment system are reimbursed by a 2 per cent transportation premium, included in the rates listed in annex C. No other transportation cost is eligible for reimbursement for transportation of self-sustainment items.

#### **V. Mission factors**

9. Mission factors as described in annex H, if applicable, will be applied to the reimbursement rates for self-sustainment.

#### **VI. Loss or damage**

10. Loss of or damage to self-sustainment items is not reimbursable by the United Nations. These incidents are covered by the no-fault incident factor and by the mission-approved hostile action or forced abandonment factor (where a mission factor has been deemed necessary), which are applied to the spare parts component of the wet lease, as well as the self-sustainment rates.

**Appendix 1****Self-sustainment services: distribution of responsibilities**

| <i>Country:<br/>Unit:</i>                         | <i>[Country]<br/>[Type of unit]</i> | <i>Remarks</i>                           |
|---|-------------------------------------|--|
| <i>Total number of contingent personnel:</i>      | TBD                                 |  |
| <i>– Staff officers:</i>                          | TBD                                 | [indicate who provides self-sustainment] |
| <b>Category</b>                                   |                                     |  |
| Catering  | TBD                                 |  |
| Communication                                     |                                     |  |
| VHF/UHF-FM  | TBD                                 |  |
| HF  | TBD                                 |  |
| Telephone   | TBD                                 |  |
| Office  | TBD                                 |  |
| Electrical  | TBD                                 |  |
| Minor engineering                                 | TBD                                 |  |
| Explosive ordnance disposal                       | TBD                                 |  |
| Laundry   | TBD                                 |  |
| Cleaning  | TBD                                 |  |
| Tentage   | TBD                                 |  |
| Accommodation                                     | TBD                                 |  |
| Basic firefighting                                | TBD                                 |  |
| Fire detection and alarm                          | TBD                                 |  |
| Medical   |                                     |  |
| Buddy first aid                                   | TBD                                 |  |
| Communal first aid                                | TBD                                 |  |
| Level 1   | TBD                                 |  |
| Level 2 (including dental and lab)                | TBD                                 |  |
| Level 3 (including dental and lab)                | TBD                                 |  |
| Level 2 and 3 combined (including dental and lab) | TBD                                 |  |
| High-risk areas (epidemiological)                 | TBD                                 |  |

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|   | Country:<br>Unit: | [Country]<br>[Type of unit] Remarks |
|---|-------------------|-------------------------------------|
| Blood and blood products                    | TBD               |                                     |
| Dental only                                 | TBD               |                                     |
| Gynaecology                                 | TBD               |                                     |
| Laboratory only                             | TBD               |                                     |
| Light mobile surgical module                | TBD               |                                     |
| Aeromedical evacuation module               | TBD               |                                     |
| Orthopaedic module                          | TBD               |                                     |
| Physiotherapy module                        | TBD               |                                     |
| Internal medicine module                    | TBD               |                                     |
| Observation                                 |                   |                                     |
| General                                     | TBD               |                                     |
| Night observation                           | TBD               |                                     |
| Positioning                                 | TBD               |                                     |
| Identification                              | TBD               |                                     |
| Nuclear, biological and chemical protection | TBD               |                                     |
| Field defence stores                        | TBD               |                                     |
| Miscellaneous general stores                | TBD               |                                     |
| Bedding                                     | TBD               |                                     |
| Furniture                                   | TBD               |                                     |
| Welfare                                     | TBD               |                                     |
| Internet access                             | TBD               |                                     |
| Unique equipment                            | TBD               |                                     |

*Abbreviation:* TBD, to be determined.

**Appendix 2****List of items provided by the troop contributor under the self sustainment subcategories of “welfare” and “Internet access”**

Country: \_\_\_\_\_

**I. Welfare**

Welfare stores should be available to all contingent personnel, in headquarters and in detached units/sub-units.

Welfare stores should include, but are not limited to, the items listed below.

| <i>Equipment</i>                                    | <i>Item</i>                 | <i>Quantity</i> | <i>Remarks</i> |
|---|-----------------------------|-----------------|----------------|
| Audiovisual entertainment equipment                 | DVD                         |                 |                |
|   | VCR                         |                 |                |
|   | Television                  |                 |                |
|   | Computer and computer games |                 |                |
| Fitness equipment                                   | Free weights                |                 |                |
|   | Exercise machines           |                 |                |
| Team sports equipment                               | Soccer                      |                 |                |
|   | Football                    |                 |                |
|   | Basketball                  |                 |                |
| Individual sports equipment                         | Tennis                      |                 |                |
|   | Table tennis                |                 |                |
|   | Badminton                   |                 |                |
|   | Handball                    |                 |                |
| Library   | Books                       |                 |                |
|   | Periodicals                 |                 |                |
|   | Board games                 |                 |                |
| Other equipment (pertinent to contingent's culture) |                             |                 |                |

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**II. Internet access**

|   | <i>Item</i>       | <i>Quantity</i> | <i>Remarks</i> |
|---|-------------------|-----------------|----------------|
| Internet access equipment   |                   |                 |                |
| Computers   |                   |                 |                |
| Peripherals   | Webcams           |                 |                |
|   | Microphones       |                 |                |
|   | Scanners/printers |                 |                |
| Appropriate levels of maintenance (spare parts and bandwidth for the equipment mentioned above) |                   |                 |                |

*Note:* Contingent-owned equipment verification teams will follow the principles of reasonability and flexibility in assessing troop/police contributor's compliance with the standards for the "welfare" and "Internet access" subcategories.

## **Annex D**

### **Principles of verification and performance standards for major equipment provided under a wet lease or dry lease arrangement**

The principles of verification and performance standards for major equipment provided under a wet lease or dry lease arrangement, as described in chapter 3, annex A, should be included as annex D to the memorandum of understanding.

**Annex E****Principles of verification and performance standards for minor equipment and consumables provided under self-sustainment**

The principles of verification and performance standards for minor equipment and consumables provided under self-sustainment, as described in chapter 3, annex B, should be included as annex E to the memorandum of understanding.

## **Annex F**

### **Principles of verification and performance standards for medical support**

The principles of verification and performance standards for medical support, as described in chapter 3, annex C, are applicable to the present chapter and should be included as annex F to the memorandum of understanding.

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**Annex G**

**Statement of unit requirements**

The statement of unit requirements should be included as annex G to the memorandum of understanding.

## **Annex H**

### **Definitions**

The definitions given in chapter 2, annex A, are applicable to the present chapter and should be included as annex H to the memorandum of understanding.

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**Chapter 9**

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**Annex I****Guidelines (aide-mémoire) for troop-contributing countries**

Annex I is mission-specific; therefore, the text is not included in the present document. It is distributed in advance of deployment.

## Annex J

### We are United Nations peacekeeping personnel

The United Nations Organization embodies the aspirations of all the people of the world for peace.

In this context, the Charter of the United Nations requires that all personnel must maintain the highest standards of integrity and conduct.

We will comply with the Guidelines on International Humanitarian Law for Forces Undertaking United Nations Peacekeeping Operations and the applicable portions of the Universal Declaration of Human Rights as the fundamental basis of our standards.

We, as peacekeeping personnel, represent the United Nations and are present in the country to help it recover from the trauma of a conflict. As a result, we must consciously be prepared to accept special constraints in our public and private lives in order to do the work and pursue the ideals of the United Nations Organization.

We will be accorded certain privileges and immunities arranged through agreements negotiated between the United Nations and the host country solely for the purpose of discharging our peacekeeping duties. Expectations of the international community and the local population will be high, and our actions, behaviour and speech will be closely monitored.

We will always:

- Conduct ourselves in a professional and disciplined manner, at all times
- Dedicate ourselves to achieving the goals of the United Nations
- Understand the mandate and mission and comply with their provisions
- Respect the environment of the host country and endeavour to comply with United Nations environmental and waste management policies and procedures
- Endeavour never to litter or improperly dispose of any material or equipment
- Respect local laws, customs and practices and be aware of and respect culture, religion, traditions and gender issues
- Treat the inhabitants of the host country with respect, courtesy and consideration
- Act with impartiality, integrity and tact
- Support and aid the infirm, sick and weak
- Obey our United Nations superiors/supervisors and respect the chain of command
- Respect all other peacekeeping members of the mission regardless of status, rank, ethnic or national origin, race, gender or creed
- Support and encourage proper conduct among our fellow peacekeeping personnel
- Report all acts involving sexual exploitation and abuse
- Maintain proper dress and personal deportment at all times

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- Properly account for all money and property assigned to us as members of the mission

- Care for all United Nations equipment placed in our charge

We will never:

- Bring discredit upon the United Nations or our nations through improper personal conduct, failure to perform our duties or abuse of our positions as peacekeeping personnel
- Take any action that might jeopardize the mission
- Abuse alcohol, or use or traffic in drugs
- Make unauthorized communications to external agencies, including unauthorized press statements
- Improperly disclose or use information gained through our employment
- Use unnecessary violence or threaten anyone in custody
- Commit any act that could result in physical, sexual or psychological harm to or the suffering of members of the local population, especially women and children, or United Nations personnel
- Commit any act involving sexual exploitation and abuse, sexual activity with children under 18, or the exchange of money, employment, goods or services for sex
- Become involved in sexual liaisons that could affect our impartiality or the well-being of others
- Be abusive or uncivil to any member of the public or United Nations personnel
- Wilfully damage or misuse any United Nations property or equipment
- Use a vehicle improperly or without authorization
- Collect unauthorized souvenirs
- Participate in any illegal activities, or corrupt or improper practices
- Attempt to use our positions for personal advantage, make false claims or accept benefits to which we are not entitled
- Litter or improperly dispose of any materials or equipment.

We realize that the consequences of failure to act within these guidelines may:

- Erode confidence and trust in the United Nations
- Jeopardize the achievement of the mission
- Jeopardize our status and security as peacekeeping personnel
- Result in administrative, disciplinary or criminal action

## **Annex K**

### **Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions**

Annex K is not included in the present document. It is distributed separately.

## Generic model for formed police units

### Memorandum of understanding between the United Nations and the Government of [...] contributing resources to [United Nations peacekeeping operation]

*Whereas*, [United Nations peacekeeping operation] was established pursuant to Security Council resolution \_\_\_\_\_,

*Whereas*, at the request of the United Nations, the Government of \_\_\_\_\_ (hereinafter referred to as the Government) has agreed to contribute personnel, equipment and services for a formed police unit to assist [United Nations peacekeeping operation] to carry out its mandate,

*Whereas*, the United Nations and the Government wish to establish the terms and conditions of the contribution,

*Now therefore*, the United Nations and the Government (hereinafter collectively referred to as the Parties) agree as follows:

#### Article 1 Definitions

1. For the purpose of this memorandum of understanding, the definitions listed in annex H shall apply. Any references to the term contingent in the definition section or in any annexes shall be deemed to mean the formed police unit. Similarly, any references to troops shall be deemed to mean the members of the unit.

#### Article 2 Documents constituting the memorandum of understanding

2.1 This document, including all of its annexes, constitutes the entire memorandum of understanding between the Parties for the provision of personnel, equipment and services in support of [United Nations peacekeeping operation].

2.2 Annexes:

##### A. Personnel

1. Requirements
2. Reimbursement
3. General conditions for personnel

Appendix. Individual kit for members of formed police unit: mission-specific requirement

##### B. Major equipment

1. Requirements
2. General conditions for major equipment
3. Verification and control procedures
4. Transportation
5. Mission factors
6. Loss and damage

7. Loss and damage in transit
8. Special case equipment
9. Liability for damage to major equipment owned by one police contributor and used by another police contributor

Appendix 1. Special case equipment

Appendix 2. List of third-party-owned equipment

C. Self-sustainment

1. Requirements
2. General conditions for self-sustainment
3. Verification and control procedures
4. Transportation
5. Mission usage factors
6. Loss or damage

Appendix 1. Self-sustainment services: distribution of responsibilities

Appendix 2. List of items provided by troop contributor under the self-sustainment subcategories of “welfare” and “Internet access”

- D. Principles of verification and performance standards for major equipment provided under a wet lease or dry lease arrangement
- E. Principles of verification and performance standards for minor equipment and consumables provided under self-sustainment
- F. Principles of verification and performance standards for medical support
- G. Statement of unit requirements
- H. Definitions
- I. Bulletin on observance by United Nations forces of international humanitarian law
- J. Regulations Governing the Status, Basic Rights and Duties of Officials other than Secretariat Officials, and Experts on Mission
- K. Guidelines for formed police units on assignment with peace operations<sup>1</sup>
- L. Directives for disciplinary matters involving civilian police officers and military observers
- M. We are United Nations peacekeeping personnel
- N. Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions.<sup>2</sup>

<sup>1</sup> Annex K is distributed separately.

<sup>2</sup> Annex N is not included in the present document. It is distributed separately.

### **Article 3 Purpose**

3. The purpose of the present memorandum of understanding is to establish the administrative, logistical and financial terms and conditions governing the contribution of personnel, equipment and services provided by the Government in support of [United Nations peacekeeping operation] and to specify United Nations standards of conduct for personnel provided by the Government.

### **Article 4 Application**

4. The present memorandum of understanding shall be applied in conjunction with the guidelines for formed police units on assignment with peace operations.

### **Article 5 Contribution of the Government**

5.1 The Government shall contribute to [United Nations peacekeeping operation] the personnel listed in annex A. Any personnel above the level indicated in this memorandum of understanding shall be a national responsibility and thus not subject to reimbursement or other kind of support by the United Nations.

5.2 The Government shall contribute to [United Nations peacekeeping operation] the major equipment listed in annex B. The Government shall ensure that the major equipment and related minor equipment meet the performance standards set out in annexes D and F for the duration of the deployment of such equipment to [United Nations peacekeeping operation]. Any equipment above the level indicated in this memorandum of understanding shall be a national responsibility and thus not subject to reimbursement or other kind of support by the United Nations.

5.3 The Government shall contribute to [United Nations peacekeeping operation] the minor equipment and consumables related to self-sustainment as listed in annex C. The Government shall ensure that the minor equipment and consumables meet the performance standards set out in annexes E and F for the duration of the deployment of such equipment to [United Nations peacekeeping operation]. Any equipment above the level indicated in this memorandum of understanding shall be a national responsibility and thus not subject to reimbursement or other kind of support by the United Nations.

### **Article 6 Reimbursement and support from the United Nations**

6.1 The United Nations shall reimburse the Government in respect of the personnel provided under this memorandum of understanding at the rates stated in article 2 of annex A.

6.2 The United Nations shall reimburse the Government for the major equipment provided as listed in annex B. The reimbursement for the major equipment shall be reduced in the event that such equipment does not meet the required performance standards set out in annexes D and F or in the event that the equipment listing is reduced.

6.3 The United Nations shall reimburse the Government for the provision of self-sustainment goods and services at the rates and levels stated in annex C. The reimbursement for self-sustainment shall be reduced in the event that the contingent

does not meet the required performance standards set out in annexes E and F, or in the event that the level of self-sustainment is reduced.

6.4 Reimbursement for police personnel will continue at full rates until the departure of the personnel.

6.5 Reimbursement for major equipment will be in effect at full rates until the date of cessation of operations by a troop contributor or the termination of the mission. Thereafter, reimbursement will be reduced to 50 per cent of the rates agreed in the memorandum of understanding and will cease once equipment departs the mission area or 90 days after the date of cessation of operations or the termination of the mission (whichever happens earlier), except in those instances deemed to be outside the control of the troop/police contributor, as determined by the United Nations.

6.6 Reimbursement for self-sustainment will be in effect at full rates until the date of cessation of operations by a police contributor or termination of the mission. Thereafter, the following categories will be reimbursed at 100 per cent and calculated upon the remaining actual deployed troop strengths until all contingent personnel have departed the mission area:

- General/catering
- Communications/telephone
- General/laundry
- General/accommodation
- Medical/high-risk (epidemiological)
- Miscellaneous general stores/bedding
- Miscellaneous general stores/furniture

After the cessation of operations, reimbursement for other categories will be reduced to 50 per cent of the rates agreed in this memorandum of understanding calculated upon the remaining actual deployed police strengths until all police personnel have departed the mission area.

6.7 When the United Nations negotiates a contract for the repatriation of equipment and the carrier exceeds a 14-day grace period after the expected arrival date, the police contributor will be reimbursed by the United Nations at the dry-lease rate from the expected arrival date until the actual arrival date.

#### **Article 7** **General conditions**

7.1 The parties agree that the contribution of the Government, as well as the support provided by the United Nations, shall be governed by the general conditions set out in the relevant annexes.

7.2 The Government certifies that none of the personnel provided by it pursuant to this memorandum of understanding have ever been convicted of, or are currently under investigation or being prosecuted for, any criminal or disciplinary offence, or act that may amount to a human rights violation, with the exception of minor traffic violations. (Driving while intoxicated or dangerous or careless driving are not considered minor traffic violations for this purpose.) The Government also certifies that it is not aware of any allegations against any of its personnel that they have committed or been

involved, by act or omission, in the commission of any act that amounts to a violation of international human rights law or international humanitarian law.

7.3 The Government shall use its welfare payments to provide adequate welfare and recreational facilities to personnel of the formed police unit in the mission.

**Article 7 bis**  
**United Nations standards of conduct**

7.4 The Government shall ensure that all the personnel of the formed police unit provided by it pursuant to this memorandum of understanding are made familiar with annexes I to M thereto and are provided with adequate and effective predeployment training in the United Nations standards of conduct, as set forth in those annexes.

7.5 The Government shall ensure that all the personnel of the formed police unit provided by it pursuant to this memorandum of understanding are required to comply with the United Nations standards of conduct, as set forth in annex I (Secretary-General's bulletin on observance by United Nations forces of international humanitarian law (ST/SGB/1999/13)); annex J (Secretary-General's bulletin on Regulations Governing the Status, Basic Rights and Duties of Officials other than Secretariat Officials, and Experts on Mission (ST/SGB/2002/9)); annex K (Guidelines for formed police units on assignment with peace operations); annex L (Directives for disciplinary matters involving United Nations police officers and military observers); and annex M (We are United Nations peacekeeping personnel), as well as mission-specific rules and regulations and obligations under national and local laws and regulations in accordance with the agreement between the United Nations and the Government of [host State] on the [status-of-forces agreement/status-of-mission agreement].

7.6 The United Nations shall continue to provide to personnel of the formed police unit mission-specific training material on United Nations standards of conduct, mission-specific rules and regulations, and relevant local laws and regulations. The United Nations shall conduct adequate and effective induction training and training during mission assignment to complement predeployment training.

7.7 On commencement of assignment with the United Nations, each individual member of the formed police unit shall sign an individual letter of undertaking for members of units entitled "Undertaking and declaration by experts on mission", referring to the United Nations standards of conduct as referred to in paragraph 37 of annex K hereto, including the provisions contained in the Secretary-General's bulletin on special measures for protection from sexual exploitation and sexual abuse (ST/SGB/2003/13), as made applicable to individuals assigned with the United Nations as experts on mission. Each individual member of the unit shall also sign a self-attestation that he or she has not committed, been convicted of or been prosecuted for any criminal offence and has not been involved, by act or omission, in the commission of any violation of international human rights law or international humanitarian law, or state the reasons why he or she is not in a position to make such an attestation.

**Article 7 ter**  
**Discipline**

7.8 The Government acknowledges that the Commander of the formed police unit is responsible for the discipline and good order of all members of the unit while assigned to [United Nations peacekeeping operation]. The Government accordingly undertakes to ensure that the Commander of the unit is vested with the necessary authority and takes all reasonable measures to maintain discipline and good order

among all members of the unit and to ensure compliance with United Nations standards of conduct, mission-specific rules and regulations and obligations under national and local laws and regulations in accordance with the [status-of-forces agreement/status-of-mission agreement].

7.9 The Government undertakes to ensure, subject to any applicable national laws, that the Commander of the formed police unit regularly informs the Police Commissioner/Head of Police Component of [United Nations peacekeeping operation] of any serious matters involving the discipline and good order of members of the unit, including any disciplinary action taken for violations of the United Nations standards of conduct or mission-specific rules and regulations or for failure to respect local laws and regulations.

7.10 The Government shall ensure that the Commander of the formed police unit receives adequate and effective predeployment training in the proper discharge of his or her responsibility for maintaining discipline and good order among all members of the unit.

7.11 Without prejudice to the Government's disciplinary authority under its national laws, the personnel of the formed police units shall be subject to the United Nations procedures for breaches of conduct as set forth in annexes K and L to this memorandum of understanding.

#### **Article 7 quater Investigations**

7.12 The United Nations will inform the Government, without delay, of all serious allegations of misconduct involving any personnel of the formed police unit.

7.13 In the event that the Government receives an allegation of misconduct involving any personnel of the formed police unit, it shall without delay inform the United Nations.

7.14 The United Nations shall have the right to investigate any forms of misconduct committed by personnel of the formed police unit. Any such investigations shall be conducted by the appropriate United Nations investigative office, including the Office of Internal Oversight Services, in accordance with the rules of the Organization. The Government undertakes to ensure that no individual against whom there are allegations of any form of misconduct is repatriated before the investigation by the United Nations is concluded and a determination is made regarding the appropriate action to be taken in the matter.

7.15 The right of the United Nations to investigate any form of misconduct committed by personnel of the formed police unit is without prejudice to the right of the Government to separately investigate any form of misconduct by its personnel or the right of the host State to investigate crimes, under its domestic criminal laws, in accordance with the procedures established under the [status-of-forces agreement/status-of-mission agreement].

7.16 The Government undertakes to cooperate with the United Nations in the exchange of information and in the facilitation of the conducting of investigations.

### **Article 7 quinquies**

#### **Exercise of jurisdiction**

7.17 Members of formed police units are civilian police as referred to in the [United Nations peacekeeping operation] [status-of-forces agreement/status-of-mission agreement]. Accordingly, they have the status of experts on mission for the United Nations. While they enjoy immunity in respect of their official acts in accordance with article VI of the Convention on the Privileges and Immunities of the United Nations, such immunity may be waived by the Secretary-General in appropriate cases in accordance with that Convention. In the event of such a waiver, they may be subject to legal proceedings instituted by the relevant authorities of the host State in accordance with the procedures established under the [United Nations peacekeeping operation] [status-of-forces agreement/status-of-mission agreement].

7.18 In the event that legal proceedings are instituted by authorities of the host State against a member of the formed police unit in connection with an alleged criminal offence, and the Secretary-General certifies that the individual does not enjoy immunity in respect of such prosecution or decides to waive any applicable immunity, the Government undertakes to cooperate with the relevant authorities of the host State in connection with such legal proceedings.

7.19 If for any reason the prosecution of a member of the formed police unit accused of a crime of a serious nature does not take place in the host State, the Government shall take the necessary action to prosecute the concerned individual in accordance with its national laws. For that purpose, in accordance with General Assembly resolution 66/93, entitled “Criminal accountability of United Nations officials and experts on mission”, the Government is requested to establish, to the extent that it has not yet done so, jurisdiction over crimes, particularly those of a serious nature, as known in its existing domestic criminal laws, committed by members of its formed police units while serving in United Nations peacekeeping operations, at least where the conduct as defined in the law of the Government also constitutes a crime under the law of the host State.

7.20 The Government further assures the United Nations that it shall exercise such disciplinary jurisdiction as might be necessary with respect to all other acts of misconduct committed by any members of the unit while they are assigned to [United Nations peacekeeping operation] that do not amount to crimes or offences.

### **Article 7 sexiens**

#### **Accountability**

7.21 The United Nations shall notify the Government if a United Nations investigation concludes that suspicions of misconduct by any member of the formed police unit are well founded. The United Nations shall also notify the Government of any administrative measures taken and shall provide a complete report of the findings of the investigation and the evidence gathered in the course of the investigation.

7.22 Without prejudice to the jurisdiction of the host State, the Government shall ensure that a case involving any form of misconduct is forwarded to its appropriate authorities for due action. The Government shall take all appropriate measures to ensure that the person responsible is held accountable. The Government agrees to inform the Secretary-General on a regular basis about progress in dealing with all cases involving any form of misconduct by its personnel, including the final outcome of such cases.

7.23 If a United Nations investigation, in accordance with appropriate procedures, concludes that the Commander of the formed police unit has failed to fulfil one or

more of the following aspects, the Government shall ensure that the case is forwarded to its appropriate authorities for due action:

(a) To cooperate with a United Nations investigation in accordance with article 7 quater, paragraph 7.14, it being understood that the Commander will not have failed to cooperate merely by complying with his or her national laws and regulations;

(b) To exercise effective command and control;

(c) To immediately report to appropriate authorities, including the Police Commissioner/Head of Police Component of the mission, or take action in respect of allegations of misconduct that are reported to him to be well founded.

- The fulfilment of these aspects shall be evaluated in the Commander's performance appraisal.

7.24 The Government understands the importance of settling matters relating to paternity claims involving a member of its formed police unit. The Government will, to the extent of its national laws, seek to facilitate such claims provided to it by the United Nations to be forwarded to the appropriate national authorities. In the event that the Government's national law does not recognize the legal capacity of the United Nations to provide such claims, these shall be provided to the Government by the appropriate authorities of the host country, in accordance with applicable procedures. The United Nations must ensure that such claims are accompanied by the necessary conclusive evidence, such as a DNA sample from the child when prescribed by the Government's national law.

#### **Article 7 septies**

##### **Environmental compliance and waste management**

7.25 Police-contributing countries will ensure that all members of the national contingent conduct themselves in an environmentally conscious manner. They shall observe established United Nations rules and regulations applicable to the functioning of peacekeeping operations, endeavouring to achieve full compliance with United Nations environmental and waste management policies and procedures, as set out in annex N to the present memorandum of understanding. National contingents will appoint, where requested by the Police Commissioner, officials to serve as environmental focal points. National contingents undertake that they will "do no harm" to the local environment (including wild plants and animals) and, upon departure, will leave the premises and physical environment in the condition in which it was provided to them. The only exceptions to this requirement to remediate will be in exceptional cases of operational imperative where the Mission has been informed. They will observe a policy of no littering around the bases or on patrols, and a policy of no discharge of untreated wastewater outside the permanent bases. The untreated wastewater should be discharged only inside permanent bases or in the United Nations-designated wastewater discharge areas. They will reduce their environmental footprint by taking concrete steps to conserve water, energy and other natural resources, reduce and segregate waste, and properly manage hazardous waste and wastewater for which they are responsible. Where possible, the use of renewable energy will be prioritized.

7.26 The United Nations will provide assistance to national contingents to enable them to comply with United Nations environmental and waste management policies and procedures. Such assistance shall include providing national contingents with the agreed infrastructure and services that enable them to operate in an environmentally

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conscious manner. The United Nations will provide mission-specific briefings, induction and continuing training on field mission policies and procedures regarding environmental and waste management, comprising practical actions that can be taken by uniformed personnel to ensure a responsible presence in accordance with the relevant United Nations environmental policies, such as the Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions, and mission-specific guidelines, standard operating procedures and directives.

**Article 8**  
**Specific conditions**

- 8.1 Extreme environmental conditions factor: \_\_\_\_\_
- 8.2 Logistics and road conditions factor: \_\_\_\_\_
- 8.3 Hostile action or forced abandonment factor: \_\_\_\_\_
- 8.4 Incremental transportation factor: The distance between the port of embarkation in the home country and the port of entry in the mission area is estimated at \_\_\_ miles (\_\_\_ kilometres). The factor is set at \_\_\_\_\_ per cent of the reimbursement rates.
- 8.5 The following locations are the agreed originating locations and ports of entry and exit for the purpose of transportation arrangements for the movement of police and equipment:

Police:

Airport/port of entry and exit: \_\_\_\_\_

Airport/port of entry and exit (in the area of operations): \_\_\_\_\_

*Note:* The police may be returned to another location nominated by the police contributor; however, the maximum cost to the United Nations will be the cost to the agreed originating location. Where a rotation uplifts police from a different port of exit, this port shall become the agreed port of entry for these police.

Equipment:

Originating location: \_\_\_\_\_

Port of embarkation/disembarkation: \_\_\_\_\_

Port of embarkation/disembarkation (in the mission area): \_\_\_\_\_

**Article 9**  
**Claims by third parties**

9. The United Nations will be responsible for dealing with any claims by third parties where the loss of or damage to their property, or death or personal injury, was caused by the personnel or equipment provided by the Government in the performance of services or any other activity or operation under this memorandum of understanding. However, if the loss, damage, death or injury arose from gross negligence or wilful misconduct of the personnel provided by the Government, the Government will be liable for such claims.

### **Article 10 Recovery**

10. The Government will reimburse the United Nations for loss of or damage to United Nations-owned equipment and property caused by the personnel or equipment provided by the Government if such loss or damage (a) occurred outside the performance of services or any other activity or operation under this memorandum of understanding, or (b) arose or resulted from gross negligence or wilful misconduct of the personnel provided by the Government.

### **Article 11 Supplementary arrangements**

11. The parties may conclude written supplementary arrangements to the present memorandum of understanding.

### **Article 12 Amendments**

12. Either of the Parties may initiate a review of the level of contribution subject to reimbursement by the United Nations or to the level of national support to ensure compatibility with the operational requirements of the mission and of the Government. The present memorandum of understanding may be amended only by written agreement of the Government and the United Nations.

### **Article 13 Settlement of disputes**

13.1 [United Nations peacekeeping operation] shall establish a mechanism within the mission to discuss and resolve, amicably by negotiation in a spirit of cooperation, differences arising from the application of this memorandum of understanding. This mechanism shall be comprised of two levels of dispute resolution:

(a) First level: The Director/Chief of Mission Support, in consultation with the Police Commissioner and the Commander of the formed police unit, will attempt to reach a negotiated settlement of the dispute;

(b) Second level: Should negotiations at the first level not resolve the dispute, a representative of the Permanent Mission of the Member State and the Under-Secretary-General for Operational Support, or his or her representative, shall, at the request of either Party, attempt to reach a negotiated settlement of the dispute.

13.2 Disputes that have not been resolved as provided in paragraph 13.1 above may be submitted to a mutually agreed conciliator or mediator appointed by the President of the International Court of Justice, failing which the dispute may be submitted to arbitration at the request of either Party. Each Party shall appoint one arbitrator, and the two arbitrators so appointed shall appoint a third, who shall be the Chair. If within 30 days of the request for arbitration, either Party has not appointed an arbitrator or if, within 30 days of the appointment of two arbitrators, the third arbitrator has not been appointed, either Party may request the President of the International Court of Justice to appoint an arbitrator. The procedures for the arbitration shall be fixed by the arbitrators, and each Party shall bear its own expenses. The arbitral award shall contain a statement of the reasons on which it is based and shall be accepted by the Parties as the final adjudication of the dispute. The arbitrators shall have no authority to award interest or punitive damages.

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**Article 14**  
**Entry into force**

14. The present memorandum of understanding shall become effective on [date]. The financial obligations of the United Nations with respect to reimbursement of personnel, major equipment and self-sustainment rates start from the date of arrival of personnel or equipment in the mission area and will remain in effect until the date that personnel and serviceable equipment depart the mission area as per the agreed withdrawal plan or the date of effective departure where the delay is attributable to the United Nations.

**Article 15**  
**Termination**

15. The modalities for termination shall be as agreed to by the Parties following consultations between the Parties.

IN WITNESS WHEREOF, the United Nations and the Government of \_\_\_\_\_ have signed this memorandum of understanding.

For the United Nations

For the Government of [police contributor]

\_\_\_\_\_  
Under-Secretary-General for  
Operational Support

\_\_\_\_\_  
Permanent Representative of [police contributor]  
Permanent Mission of [police contributor]

## Annex A

### Personnel

#### I. Requirements

- The Government agrees to provide the following personnel:

For the period starting: \_\_\_\_\_

| <i>Unit/sub-unit type</i> | <i>Number of personnel</i> | <i>Remarks</i> |
|---------------------------|----------------------------|----------------|
| Formed police unit        |                            |                |
| <b>Total</b>              |                            |                |

*Note:* The Government may provide additional personnel as a national support element at its own expense. There will be no payment for reimbursement, rotation or self-sustainment of contingent personnel and no other financial liability for the United Nations for national support element personnel.

#### II. Reimbursement

- The Government will be reimbursed for contingent personnel at the single rate of reimbursement of \$1,448 per person per month for those common and essential additional costs incurred owing to the deployment of these contingent personnel to United Nations field missions. The Government will also be further temporarily reimbursed through 30 June 2026 at the single rate of reimbursement of \$4.90 per person per month for those common and essential additional costs incurred owing to mandatory predeployment COVID-19 testing, subject to the continued requirement of such testing by the Secretary-General. Pursuant to General Assembly resolution [76/276](#), these reimbursement rates for contingent personnel will take effect from 1 July 2022.
- Deduction may be made to police personnel reimbursement in respect of absent or non-functional major equipment listed in this memorandum of understanding, in accordance with General Assembly resolution [67/261](#), paragraph 11.
- Police personnel will receive directly from the field mission a daily allowance of \$1.28 plus a recreational leave allowance of \$11.50 per day for up to 15 days of leave taken during each six-month period.

#### III. General conditions for personnel

- The Government shall ensure that the personnel it provides meet the standards established by the United Nations for service with [United Nations peacekeeping operation], inter alia, with respect to rank, experience, physical fitness, specialization and knowledge of languages. The personnel shall be trained on the equipment with which the contingent is provided and shall comply with whatever policies and procedures may be laid down by the United Nations regarding medical or other clearances, vaccinations, travel, shipping, leave or other entitlements.

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6. During the period of their assignment to [United Nations peacekeeping operation], the Government shall be responsible for payment of whatever emoluments, allowances and benefits may be due to its personnel under national arrangements.
7. The United Nations shall convey to the Government all pertinent information relating to the provision of the personnel, including matters of liability for loss of or damage to United Nations property and compensation claims in respect of death, injury or illness attributable to United Nations service and/or loss of personal property. Claims for death and disability incidents will be handled pursuant to General Assembly resolutions [51/218 E](#) of 17 June 1997 and [52/177](#) of 18 December 1997. Administrative and payment arrangements and procedures for submitting claims arising from death and disability incidents are set out in [A/52/369](#) of 17 September 1997 authorized by resolution [52/177](#) of 18 December 1997. General Assembly resolution [72/285](#) of 5 July 2018 established the current compensation rate for death and disability at \$77,000.
8. Any personnel above the strength authorized in this memorandum of understanding are a national responsibility, and not subject to reimbursement or support by the United Nations. Such personnel may be deployed to [United Nations peacekeeping operation], with the prior approval of the United Nations if they are assessed by the police contributor and the United Nations to be needed for national purposes, for example to operate the communications equipment for a national rear link. These personnel shall be part of the contingent and as such enjoy the legal status of members of [United Nations peacekeeping operation]. The police contributor will not, however, receive any reimbursement in respect of such personnel and the United Nations will not accept any financial obligation or responsibility in connection with such personnel. Any support or services will be reclaimed from reimbursement due the police contributor.
9. Personnel deployed at the request of the United Nations for specific tasks of limited duration may be covered by supplementary arrangements to this memorandum of understanding as appropriate.
10. National civilian personnel provided by the Government who are serving as part of a formed body of troops/police shall be assimilated with unit members of formed bodies of troops/police for the purpose of this memorandum of understanding.
11. The general administrative and financial arrangements applicable to the provision of military and other personnel shall be those set forth in the guidelines for formed police units on assignment with peace operations in annex K.

## Appendix

### Individual kit for members of formed police units: mission-specific requirement

In order to meet the minimum operational requirements, the following is a list of items to be included in the individual kit, taking into consideration the physiological differences between men and women personnel, including size.

| <i>Description of items</i>        | <i>Quantity</i> |
|------------------------------------|-----------------|
| Personal safety and security items |                 |
| Personal weapon                    | 1               |
| Bulletproof helmet (level IIIA)    | 1               |
| Bulletproof vest (level IV)        | 1               |
| Uniform                            |                 |
| Police jacket, lightweight         | 2               |
| Police trousers, lightweight       | 2               |
| Suspenders                         | 2               |
| Boots, desert or jungle            | 1 pair          |
| Summer socks                       | 4 pairs         |
| Shirt, long-sleeve                 | 2               |
| Undershirts                        | 2               |
| Underwear                          | 4               |
| Shorts                             | 2               |
| Pocket handkerchief                | 6               |
| Raincoat                           | 1               |
| Hand towel                         | 2               |
| Personal equipment                 |                 |
| Sleeping bag                       | 1               |
| Individual mosquito net            | 1               |
| Travelling bag                     | 1               |
| Backpack (80 litres)               | 1               |
| Toothbrush                         | 1               |
| Dining knife                       | 1               |
| Spoon                              | 1               |
| Fork                               | 1               |
| Mess tin                           | 1               |
| Drinking mug                       | 1               |
| Water canteen                      | 1               |
| Cleaning brush                     | 1               |
| Flashlight                         | 1               |
| Compass                            | 1               |
| Hearing protection                 | 1               |

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| <i>Description of items</i>   | <i>Quantity</i> |
|-------------------------------|-----------------|
| Whistle                       | 1               |
| Headscarf                     | 1               |
| Handcuffs (metallic)          | 1               |
| Reflector jacket              | 1               |
| Goggles                       | 1               |
| Baton                         | 1               |
| Survival kit                  | 1               |
| Personal riot items           |                 |
| Riot control gloves           | 1 pair          |
| Helmet with visor             | 1               |
| Shield (plastic, transparent) | 1               |
| Gas mask (2 filters included) | 1               |
| Legs/arms/shoulder protection | 1 set           |
| Additional items              |                 |
| As required and negotiated    |                 |

## **Annex B**

### **Major equipment**

Please refer to annex B to the memorandum of understanding for military contingents.

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**Annex C**

**Self-sustainment**

Please refer to annex C to the memorandum of understanding for military contingents.

## **Annex D**

### **Principles of verification and performance standards for major equipment provided under a wet lease or dry lease arrangement**

Please refer to annex D to the memorandum of understanding for military contingents.

## **Annex E**

### **Principles of verification and performance standards for minor equipment and consumables provided under self-sustainment**

Please refer to annex E to the memorandum of understanding for military contingents.

## **Annex F**

### **Principles of verification and performance standards for medical support**

Please refer to annex F to the memorandum of understanding for military contingents.

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**Annex G**

**Statement of unit requirements**

The statement of unit requirements will be included as annex G to the memorandum of understanding.

## **Annex H**

### **Definitions**

The definitions given in chapter 2, annex A, should be included as annex H to the memorandum of understanding.

## **Annex I**

### **Bulletin on observance by United Nations forces of international humanitarian law**

The Secretary-General, in his bulletin on the observance by United Nations forces of international humanitarian law ([ST/SGB/1999/13](#)), which entered into force on 12 August 1999, set out fundamental principles and rules of international humanitarian law applicable to United Nations forces conducting operations under United Nations command and control.

## **Annex J**

### **Regulations Governing the Status, Basic Rights and Duties of Officials other than Secretariat Officials, and Experts on Mission**

By its resolution [56/280](#) of 27 March 2002, the General Assembly adopted the Regulations Governing the Status, Basic Rights and Duties of Officials other than Secretariat Officials, and Experts on Mission, set out in the bulletin of the Secretary-General dated 18 June 2002 ([ST/SGB/2002/9](#)). The Regulations entered into force on 1 July 2002.

## **Annex K**

### **Guidelines for formed police units on assignment with peace operations**

Annex K is mission-specific and is not included in the present document. It is distributed separately in advance of deployment.

## **Annex L**

### **Directives for disciplinary matters involving civilian police officers and military observers**

The purpose of the directives is to establish United Nations procedures to be followed for alleged breaches of conduct by civilian police officers and military observers in the mission areas of peacekeeping and in other field operations.

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**Annex M**

**We are United Nations peacekeeping personnel**

Please refer to annex J to the memorandum of understanding for military contingents.

## **Annex N**

### **Environmental Policy for Peacekeeping Operations and Field-based Special Political Missions**

Annex N is not included in the present document. It is distributed separately.

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**Chapter 10****Responsibilities under the contingent-owned equipment system of reimbursement**

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## **I. Headquarters responsibilities**

### **A. Under-Secretary-General for Peace Operations**

1. The Under-Secretary-General for Peace Operations approves the concept of operations prepared by the Military/Police Adviser in consultation with the Under-Secretary-General for Operational Support, and, utilizing an integrated approach, periodically reviews the capabilities of contingents, their major and minor equipment holdings and their self-sustainment capabilities needed to meet the operational requirements of the mission.

### **B. Under-Secretary-General for Operational Support**

2. The Under-Secretary-General for Operational Support reviews the concept of operations prepared by the Military/Police Adviser and, utilizing an integrated approach, and in consultation with the Under-Secretary-General for Peace Operations, periodically reviews the capabilities of contingents, their major and minor equipment holdings and their self-sustainment capabilities needed to meet the operational requirements of the mission.

3. The Under-Secretary-General co-approves, with the Military/Police Adviser, the mission factors developed by the technical survey team and reviews and co-approves any subsequent amendments.

4. He or she also signs the memorandum of understanding with troop/police contributors on behalf of the United Nations. He or she may delegate this authority to an Assistant Secretary-General, as required. The Under-Secretary-General approves the peacekeeping reimbursements of Member States based on the rates and peacekeeping budgets approved by the General Assembly.

### **C. Military Planning Service of the Office of Military Affairs and the Strategic Policy and Development Section of the Police Division**

5. The Military Planning Service of the Office of Military Affairs and the Strategic Policy and Development Section of the Police Division prepare and periodically review the concept of operations and the force requirement statements and statements of unit requirements of a field mission, in terms of units/contingents, personnel, major equipment, self-sustainment and logistical support, in consultation with the Memorandum of Understanding and Reimbursement Policy Section of the Uniformed Capabilities Support Division, including the requirement for self-sustainment with regard to explosive ordnance disposal, in consultation with the United Nations Mine Action Service.

6. In consultation with other offices, as appropriate, they prepare the rules of engagement and the directive on the use of force for field missions.

7. They lead the technical survey team using the guidelines contained in the COE Manual and, in consultation with the Uniformed Capabilities Support Division, prepare a recommendation regarding the mission factors for a mission and any subsequent review of mission factors, for review and co-approval by the Military/Police Adviser and the Under-Secretary-General for Operational Support. They also assess requests for mission factor reviews received from field missions, contingent commanders or permanent missions to the United Nations and, in consultation with the Uniformed Capabilities Support Division and the United

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Nations Mine Action Service, as appropriate, make a recommendation to the Military/Police Adviser and the Director of the Uniformed Capabilities Support Division as to whether a review of mission factors should be undertaken. The Military/Police Adviser is to review and co-approve, with the Under-Secretary-General for Operational Support or the delegated authority, the mission factors developed by the technical survey team and review and co-approve any subsequent amendments. In all cases, mission factors must be reviewed every three years. The Military Planning Service and the Strategic Policy and Development Section initiate and lead, in consultation with the United Nations Mine Action Service, the review of the requirement for self-sustainment with regard to explosive ordnance disposal 18 months after the forces are deployed, and provide this determination to the Memorandum of Understanding and Reimbursement Policy Section for amendment to the memorandum of understanding as applicable.

**D. Force Generation Service of the Office of Military Affairs and the Selection and Recruitment Section of the Police Division**

8. The Force Generation Service of the Office of Military Affairs and the Selection and Recruitment Section of the Police Division generate the military and police components of field missions, including contingents and police units and individuals, ensuring that potential contingents and police units have the operational capabilities as specified in the concept of operations and force requirement statement. They also act as the primary point of contact with the permanent missions to the United Nations for all military/police contributions, and issue formal requests to troop/police contributors for the contributions of specific units/contingents. Once a troop/police contributor and the Force Generation Service or the Selection and Recruitment Section agree in principle to a contribution, the process of negotiating a memorandum of understanding is initiated by the Memorandum of Understanding and Reimbursement Policy Section in the Uniformed Capabilities Support Division.

9. Based on the approved concept of operations, force requirement statements, statements of unit requirements, rules of engagement and directive on the use of force, the Force Generation Service and the Selection and Recruitment Section identify the operational requirements of a field mission, in terms of units/contingents, personnel, major equipment and logistical support, and prepare, in consultation with the Uniformed Capabilities Support Division and other appropriate offices, draft positions for personnel, major equipment and self-sustainment responsibilities for consolidation by the Memorandum of Understanding and Reimbursement Policy Section and negotiation with troop/police contributors. They also provide input and comments to the Uniformed Capabilities Support Division and the United Nations Mine Action Service, as appropriate, on self-sustainment categories directly related to operations.

10. The Force Generation Service and the Selection and Recruitment Section also review the submissions of troop/police contributors for special case equipment, in consultation with the Uniformed Capabilities Support Division. In consultation with the Uniformed Capabilities Support Division, the United Nations Mine Action Service and other services, as applicable, they also make a recommendation as to whether the special case equipment meets the mission's operational requirements. The Chief of the Force Generation Service and/or the Chief of the Selection and Recruitment Section provide their approval of the special case for approval by the Director of the Uniformed Capabilities Support Division for negotiation with the troop/police contributors. The Force Generation Service and the Selection and Recruitment Section, in consultation with the Uniformed Capabilities Support Division, review and process applications for painting waivers for approval by the Military/Police Adviser.

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11. In consultation with the Uniformed Capabilities Support Division, they also identify shortfalls in contingent capabilities with regard to major equipment and self-sustainment, and take the lead in following up with troop/police contributors and field missions to ensure corrective actions are taken, if required.

12. They review the final draft of the memorandum of understanding and provide their approval to the Uniformed Capabilities Support Division.

13. In accordance with the policy and standard operating procedures of the Department of Operational Support, the Force Generation Service and the Selection and Recruitment Section also initiate, organize and lead the team for predeployment visits and assessment and advisory visits to Member States.

14. In consultation with the Uniformed Capabilities Support Division, they further identify the implications for operations that arise from changes in logistics support requirements within a field mission.

**E. Logistics Division and Office of Information and Communications Technology**

15. Led by the Uniformed Capabilities Support Division and in consultation with the Military Planning Service, the Selection and Recruitment Section of the Police Division and other offices, as appropriate, the Logistics Division and the Office of Information and Communications Technology support the identification of the requirements of a field mission for major equipment relating to the provision of logistics support, e.g. engineering, communications, medical, transport, aviation, supply and cartographic equipment, for inclusion in the draft memorandum of understanding for negotiation with the troop/police contributors. Parallel requirements for self-sustainment and allocation of responsibility are also identified.

16. In consultation with the Office of Military Affairs and the Police Division and other offices, as appropriate, they further support the Uniformed Capabilities Support Division in identifying the implications for logistics support requirements arising from changes in operational requirements within a mission area.

17. They further support the Uniformed Capabilities Support Division in the review of the special case submissions of troop/police contributors for major equipment. Led by the Uniformed Capabilities Support Division and in consultation with the Force Generation Service, the Selection and Recruitment Section of the Police Division and other offices, as appropriate, they make a recommendation as to whether the special case equipment meets the logistics support requirements of the mission, and as to the reasonability of the cost of the item, useful life and monthly maintenance cost submitted by the troop/police contributors.

**F. Reimbursement Claims Management and Performance Section of the Uniformed Capabilities Support Division**

18. The Reimbursement Claims Management and Performance Section prepares estimated costs for major equipment and self-sustainment for inclusion in mission budget proposals. It revises costs and budget proposals if changes are required as a result of negotiation with the troop/police contributors or as a result of position changes from the United Nations.

19. The Section calculates and processes the certification of the reimbursement for uniformed personnel in formed units, major equipment and self-sustainment to the troop/police contributors.

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20. The Section calculates shortfalls of absent or unserviceable equipment based on verification reports for application of proportional deductions to personnel reimbursement.
- The Section is mandated to put a higher emphasis on performance information and analysis to ensure both that operational performance gaps can be identified and that reimbursements are appropriately aligned with performance.

**G. Memorandum of Understanding and Reimbursement Policy  
Section of the Uniformed Capabilities Support Division**

21. The Memorandum of Understanding and Reimbursement Policy Section of the Uniformed Capabilities Support Division serves as the primary focal point for communications between permanent missions of troop- and police-contributing countries and the Secretariat on questions related to contingent-owned equipment and reimbursements, as well as memorandums of understanding and subsequent amendments. It analyses and assesses trends and issues related to reimbursement rates and payments, and their impact on troop/police contributors.
- It acts as the focal point for the clarification of General Assembly resolutions, in consultation with other experts, where required, with regard to the policies and procedures concerning reimbursement and control of the contingent-owned equipment of troop/police contributors participating in field missions.
22. The Section develops new policies, procedures and initiatives to give effect to General Assembly resolutions and other actions to improve reimbursement frameworks.
23. It acts as the Secretariat focal point for meetings of the Working Group on Contingent-Owned Equipment, preparing related reports to the legislative bodies and, in consultation with other offices as appropriate, updating the COE Manual.
- Based on the recommendations and comments provided by the Office of Military Affairs, the Police Division, the Logistics Division, the Office of Information and Communications Technology, the United Nations Mine Action Service and other services, as appropriate, the Section prepares draft memorandums of understanding for negotiation with the troop/police contributors.
  - The Section initiates and leads the memorandum of understanding negotiations with troop/police contributors for the deployment of troops and equipment in peacekeeping operations by coordinating the inputs from the Force Generation Service, the Police Division, the Logistics Division and other offices, as appropriate, for the drafting of the memorandum of understanding. In addition, it acts as a focal point for communications between the permanent missions of troop/police contributors and the Secretariat for any questions or clarifications regarding the memorandum of understanding and subsequent amendments, where applicable.
  - When the negotiation process leads to requests for changes in the text of the model memorandum of understanding and the changes requested appear substantial, the Section consults the Office of Legal Affairs to obtain a formal opinion to submit to the Under-Secretary-General for Operational Support.
24. In accordance with General Assembly resolution [67/261](#), the Section undertakes a quadrennial survey of the personnel costs of troop/police contributors and presents the results to the General Assembly for its consideration.
25. It coordinates and supports the meetings and other work of the Headquarters Contingent-Owned Equipment/Memorandum of Understanding Management Review Board.

## **H. Office of Legal Affairs**

26. The Office of Legal Affairs reviews the specific memorandum of understanding if changes and amendments requested are substantial and provides recommendations.

27. The Office reviews and provides recommendations for dispute resolution with the troop/police contributors, where required.

## **II. Field mission responsibilities**

### **A. Special Representative of the Secretary-General/Head of Mission**

28. In consultation with the Force Commander/Police Commissioner, the Director/Chief of Mission Support and contingent commanders, the Special Representative of the Secretary-General/Head of Mission periodically reviews the capabilities of contingents, their major and minor equipment holdings and their self-sustainment capabilities needed to meet the operational requirements of the mission.

### **B. Force Commander/Police Commissioner**

29. In consultation with the Director/Chief of Mission Support and contingent commanders, the Force Commander/Police Commissioner periodically reviews the capabilities of contingents, their major and minor equipment holdings and their self-sustainment capabilities needed to meet the operational requirements of the mission and make recommendations to the Secretariat in regard to corrective actions that may be required.

30. In consultation with the contingent commanders, the Force Commander/Police Commissioner assists the Director/Chief of Mission Support in establishing appropriate mechanisms and procedures to ensure the efficient and effective administration and management of memorandums of understanding/letters of assist between the United Nations and the troop/police contributors. He or she assists the Director/Chief of Mission Support in ensuring that verification inspections are conducted in accordance with the schedules and procedures established by the Secretariat. He or she also reviews and co-approves verification reporting with the Director/Chief of Mission Support and contingent commanders, including arrival, periodic, operational readiness and departure verification reporting.

31. In consultation with the Director/Chief of Mission Support, the Force Commander/Police Commissioner ensures that shortages, surpluses, unserviceability of major and minor equipment and discrepancies in self-sustainment capabilities identified during inspections are the subject of follow-up action with the contingent commanders and that corrective actions are taken, where possible, at the local level. In consultation with the Director/Chief of Mission Support, the Force Commander/Police Commissioner reports persistent shortfalls, surpluses, unserviceability and other discrepancies to the Secretariat (Office of Military Affairs, Police Division, Uniformed Capabilities Support Division, United Nations Mine Action Service and other offices, as appropriate) and recommends corrective action.

32. In consultation with the contingent commanders, the Force Commander/Police Commissioner assists the Director/Chief of Mission Support in ensuring that the field mission provides self-sustainment services as required in the memorandum of understanding and other support services to contingents. He or she advises the

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Director/Chief of Mission Support of changes in the level of support the military/police component of the mission is able to provide to a contingent.

33. In consultation with the contingent commanders, the Force Commander/Police Commissioner assists the Director/Chief of Mission Support in investigating and reporting to the Secretariat (Uniformed Capabilities Support Division) any loss of or damage to contingent-owned equipment that could be subject to reimbursement by the United Nations. He or she also assists the Head of the Mission or the Under-Secretary-General for Peace Operations<sup>1</sup> in conducting boards of inquiry and, if appropriate, local property survey boards on losses of or damage to contingent-owned equipment arising out of hostile action or forced abandonment.

34. The Force Commander/Police Commissioner authorizes the use of ammunition and explosives to meet training standards beyond accepted United Nations readiness standards and, in consultation with the Director/Chief of Mission Support and contingent commanders, verifies the use of ammunition and explosives expended for operational purposes. He or she prepares and co-signs operational ammunition expenditure certificates with the Director/Chief of Mission Support and contingent commanders.

35. In consultation with the Director/Chief of Mission Support and contingent commanders, the Force Commander/Police Commissioner attempts to have disputes resolved at the lowest possible level locally and, in consultation with the Director/Chief of Mission Support, reports to the Secretariat any dispute that cannot be resolved locally.

**C. Director/Chief of Mission Support**

36. In consultation with the Force Commander/Police Commissioner and contingent commanders, the Director/Chief of Mission Support establishes appropriate mechanisms and procedures to ensure the efficient and effective administration and management of the memorandum of understanding/letter of assist and to implement it in the field mission on behalf of the Secretariat.

37. In consultation with the Force Commander/Police Commissioner and contingent commanders, the Director/Chief of Mission Support ensures that the field mission provides self-sustainment services as required by the memorandum of understanding/letter of assist and other appropriate support. He or she advises the Secretariat of changes in the level of support the mission is able to provide to contingents.

38. In consultation with the Force Commander/Police Commissioner and contingent commanders, the Director/Chief of Mission Support reviews and co-approves verification reports, including arrival, periodic, operational readiness and departure verification, and ensures that verification reports are forwarded to the Uniformed Capabilities Support Division in accordance with the schedules and procedures established by the Secretariat.

39. In consultation with the Force Commander/Police Commissioner, the Director/Chief of Mission Support establishes a mission contingent-owned equipment/memorandum of understanding management review board in accordance with the guidelines for the field verification and control of contingent-owned equipment and management of memorandums of understanding to review, in accordance with the schedules and procedures established by the Secretariat, the capabilities of contingents, their major and minor equipment holdings and their self-sustainment capabilities needed to meet the operational requirements of the mission;

<sup>1</sup> [A/C.5/68/22](#), para. 116 (d).

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undertakes the mandatory review of self-sustainment with regard to explosive ordnance disposal 18 months after initial deployment and the review of mission factors, as required; and makes recommendations to the Secretariat in regard to corrective actions that may be required.

40. In consultation with the Force Commander/Police Commissioner, the Director/Chief of Mission Support also ensures that persistent shortages, surpluses, unserviceability of major equipment and discrepancies in self-sustainment capabilities identified during verification inspections or by the review board are the subject of follow-up action with the contingent commanders and that corrective action is taken, where possible, at the local level. In consultation with the Force Commander/Police Commissioner, the Director/Chief of Mission Support reports persistent shortfalls, surpluses, unserviceability and other discrepancies to the Secretariat (Office of Military Affairs, Police Division, Uniformed Capabilities Support Division, United Nations Mine Action Service and other offices, as appropriate) and recommends corrective action.

41. In consultation with the Force Commander/Police Commissioner and contingent commanders, the Director/Chief of Mission Support investigates and reports to the Secretariat any loss of or damage to contingent-owned equipment that could be subject to reimbursement by the United Nations. In consultation with the Head of Mission or the Under-Secretary-General for Peace Operations,<sup>2</sup> he or she conducts boards of inquiry and, if appropriate, local property survey boards on losses of or damage to contingent-owned equipment arising out of hostile action or forced abandonment.

42. In consultation with the Force Commander/Police Commissioner and contingent commanders, the Director/Chief of Mission Support verifies the use of ammunition and explosives expended for operational purposes or to meet training standards beyond accepted United Nations readiness standards that have been authorized and directed by the Force Commander/Police Commissioner. He or she co-signs an operational ammunition expenditure certificate with the Force Commander/Police Commissioner and the contingent commanders, and forwards the certificate to the Uniformed Capabilities Support Division.

43. In consultation with the Force Commander/Police Commissioner and contingent commanders, the Director/Chief of Mission Support attempts to have disputes resolved at the lowest possible level locally, and reports to the Secretariat any dispute that cannot be resolved locally.

**D. Contingent commander**

44. The contingent commander ensures that the contingent, within the resources provided to it by the troop/police contributors, meets its obligations under the memorandum of understanding/letter of assist.

45. In consultation with the Force Commander/Police Commissioner, the contingent commander assists the Director/Chief of Mission Support in establishing appropriate mechanisms and procedures to ensure the efficient and effective administration and management of memorandums of understanding and letters of assist.

46. He or she reviews and co-approves, with the Director/Chief of Mission Support and the Force Commander/Police Commissioner, verification reporting, including arrival, periodic, operational readiness and departure verification reporting, and assists the Director/Chief of Mission Support in ensuring that verification inspections

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<sup>2</sup> Ibid.

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are conducted in accordance with the schedules and procedures established by the Secretariat.

47. In consultation with the Force Commander/Police Commissioner and the Director/Chief of Mission Support, the contingent commander ensures that shortages, surpluses and unserviceability of major and minor equipment and discrepancies in self-sustainment capabilities identified during verification inspections or by the review board are the subject of follow-up with national authorities and that, where possible, corrective action is taken at the local level. In consultation with the Force Commander/Police Commissioner and the Director/Chief of Mission Support, the contingent commander attempts to have disputes resolved at the lowest possible level locally, and reports to national authorities any dispute that cannot be resolved locally.

48. In consultation with the Force Commander/Police Commissioner, the contingent commander assists the Director/Chief of Mission Support in ensuring that the field mission provides services as required in memorandum of understanding/letter of assist. He or she advises the Force Commander/Police Commissioner and the Director/Chief of Mission Support of changes in the capabilities the contingent is able to provide in terms of personnel, major and minor equipment and self-sustainment.

49. The contingent commander reports to the Force Commander/Police Commissioner and the Director/Chief of Mission Support any loss of or damage to contingent-owned equipment resulting from hostile action or forced abandonment. In consultation with the Force Commander/Police Commissioner, the contingent commander assists the Director/Chief of Mission Support in investigating and reporting to the Uniformed Capabilities Support Division any loss of or damage to contingent-owned equipment that could be subject to reimbursement by the United Nations. He or she also assists the Head of Mission or the Under-Secretary-General for Peace Operations<sup>3</sup> in conducting boards of inquiry and, if appropriate, local property survey boards on losses of or damage to contingent-owned equipment arising out of hostile action or forced abandonment.

50. In consultation with the Force Commander/Police Commissioner and the Director/Chief of Mission Support, the contingent commander periodically reviews the capabilities of the contingent, its major and minor equipment holdings and its self-sustainment capabilities needed to meet the operational requirements of the mission, and makes recommendations to the Force Commander/Police Commissioner and the Director/Chief of Mission Support in regard to corrective actions that may be required.

51. The contingent commander reports to the Force Commander/Police Commissioner and the Director/Chief of Mission Support the use of ammunition and explosives expended for operational purposes or to meet training standards beyond accepted United Nations readiness standards that have been authorized and directed by the Force Commander/Police Commissioner. He or she co-signs, with the Force Commander/Police Commissioner and the Director/Chief of Mission Support, an operational ammunition expenditure certificate detailing the use of ammunition and explosives expended for operational purposes or for training beyond accepted United Nations readiness standards.

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<sup>3</sup> Ibid.