United Nations Peacekeeping Capability Readiness System
Rapid Deployment Level

VANGUARD BRIGADE

Generic Statement of Unit Requirements for Signal Company (145)

UCM Number: DPO-SUR-UNPCRS-Signal/Company/None/I-1

Department of Peace Operations
Office of Military Affairs

Approved by

General Birame Diop
Military Adviser to the
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Review Date: As required
Drafted by: Military Planning Service
This Statement of Unit Requirements (SUR) details a generic employment concept, capabilities, standards and tasks of the United Nations Signal Company for the Vanguard Brigade in accordance with the UN Peacekeeping Capability Readiness System (PCRS) guidelines. The SUR supplements the guidance provided in the United Nations Peacekeeping Missions Military Signals Unit Manual. It should be read in conjunction with the military concept of operations (CONOPS) and any future revisions which may detail additional or more specific requirements. However, as the deployment destination is unknown, this SUR remains generic in nature. Any future changes in operational requirements, Troop Contributing Country (TCC) Guidelines or the Contingent-Owned Equipment (COE) Manual that change the capabilities or standards required, will be reflected as either an update or addendum to the SUR and may require a review of the memorandum of understanding (MOU).

The SUR describes the personnel, major equipment and self-sustainment requirements of the unit to be pledged in the Peacekeeping Capability Readiness System (PCRS) and will form the basis for the MOU. Variations proposed by the TCC may be considered during MOU negotiations against the ability of the TCC to provide the defined operational capabilities to the standards detailed. Any agreed operationally acceptable variations from the requirements of the SUR will be recorded and filed with this document and the MOU. If any discrepancy or disagreement in the interpretation of this document arises among the concerned parties, the interpretation by the Office of Military Affairs of the Department of Peace Operations (and the Uniformed Capabilities Support Division of the Department of Operational Support for the logistics elements) will take precedence.

In order to enhance the operational efficiency of the Force and of this unit and to abide with accountability to peacekeepers, the TCC is requested to comply with the specific requirements indicated in this SUR. Noncompliance at any stage will attract administrative actions that could trigger replacement of the TCC, if needed.

References:
E. Medical Support Manual for UN Field Missions, 2015.
K. Uniformed Gender Parity Strategy 2018, Department of Peace Operations.
N. Operational Readiness Preparation for Troop Contributing Countries in Peacekeeping Missions, December 2018.

Overview

<table>
<thead>
<tr>
<th>Strength</th>
<th>Outline Unit Structure</th>
<th>Deployment</th>
<th>Remarks</th>
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<tr>
<td>145</td>
<td>- Company HQ (Command group) (08)</td>
<td>The unit will be deployed in proximity of the controlling HQs (Force/Sector) of the Vanguard Brigade as determined by the Force Commander (FC) and in response to operational requirements.</td>
<td>The Signal Coy shall be able to deploy, set-up and operate deployable and transportable command posts provided by UN, when available.</td>
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<td></td>
<td>- One (1) x Communications and Information Technology Support (CITS) Platoon (14)</td>
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<td>- One (1) x Strategic Link Support (SLS) Platoon (20)</td>
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<td>- One (1) x Communications Centre Support (CCS) Platoon (22)</td>
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<td>- One (1) x Administration and Support Platoon (50)</td>
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1. BACKGROUND

a. **Mandate.** In its 2015 report, the High-Level Independent Panel on Peace Operations recommended the creation of a Vanguard Brigade to allow the UN to quickly insert a military capability into a new mission area or reinforce an existing mission. This recommendation was endorsed by the Secretary General, who directed the development of a UN Vanguard Capability concept. The UN Vanguard Capability is a brigade-sized integrated military and police force comprised of infantry units, formed police units, attack helicopters, enablers, and other support units. The total strength of the Vanguard capability is approximately 4000 troops and an appropriate number of Formed Police Units (FPUs). The UN Vanguard Capability has a nucleus based upon a permanent core command element.

b. **Peacekeeping Capability Readiness System.** The United Nations Peacekeeping Readiness System (PCRS) is a Strategic Force Generation tool used to manage commitments by Member States to provide military, police and enabling capabilities to UN peacekeeping operations. The aim of the PCRS is to achieve a greater degree of readiness and predictability for new-deployed units through a more sustained, efficient, and collaborative approach between UNHQ and the Member States. The PCRS should be the sole mechanism for the selection of a military or police unit for deployment.

c. **Levels of PCRS.** There are four (4) distinct levels of the PCRS. The highest readiness level is the Rapid Deployment Level (RDL). Troop and Police Contributing Countries (T/PCCs) that pledge units to the RDL remains under political commitment to
be ready to deploy pledged capability under RDL within 60 days on request by the Secretary-General.

d. **Compensation for Maintaining Forces at RDL.** The UN General Assembly, based on the recommendation of the 2017 Contingent Owned Equipment (COE) Working Group, agree on financial compensation to cover a portion of the costs of maintaining standby forces at RDL, with those T/PCCs to be paid 25 percent of the maintenance component of set reimbursement rates for major equipment during the period these units are registered to the PCRS RDL\(^1\)\&\(^2\).

e. **Mission Concept.** The UN Vanguard Brigade will set up the conditions to support the implementation of the Mission mandate that justify its deployment with special attention to, but not limited to:

i. Creation of a safe a secure environment;

ii. Protection of civilians and maintenance of stability;

iii. Facilitation of humanitarian access; and

iv. Protection of UN personnel and assets.

f. **Concept of Operation (CONOPS).** The UN Vanguard Brigade will rapidly deploy into the area of operation as the first step to establishing the capabilities of combat and enabling units. The UN Vanguard Brigade, when deploying for new start-up mission, is required to deploy its initial elements within 10 days of Security Council approval. The follow-on forces will deploy in phases from 30 to 90 days of the approval. To meet the mandated tasks, it will conduct mobile and flexible operations to expand security influence and achieve a more persistent presence that can be achieved from static positions. The UN Vanguard Brigade will act as a deterrence force against threats, build confidence among the local population and secure freedom of movement (FOM) within the assigned area of operations (AO).

g. **Area of Operations.** The area of operations (AO) of the mission will be as defined by a Security Council Resolution. The primary location of the unit will be determined in the strategic military concept of operations (CONOPS) of the mission. The UN Vanguard Brigade Force Commander (FC) may require the unit to be employed or redeployed on a temporary or permanent basis anywhere within the mission AO.

h. **Environmental Factors.** The peculiarities of the environment that the unit will need to operate in, such as extremes of weather, distances or asymmetric threats will be characteristic to the AO.

i. **Threats.** Although it is not possible to define in advance, these are the most common threats the force could face in the AO:

i. Terrorist attacks;

ii. Criminal and illegal activities including by armed groups, if active in AO; and

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\(^1\) UN General Assembly, Letter dated 8 February 2017 from the Chair of the 2017 COE Working Group to the Chair of the Fifth Committee, UN Doc. A/C.5/71/20, February 28, 2017.

iii. Indiscriminate use of explosive ordnances and improvised explosive devices (IEDs).

2. EXECUTION

a. Unit Employment Concept.

i. The Signal Company will provide information technology (IT) and telecommunication support to the mission and Vanguard Guard Brigade HQ and its subordinate HQs with emphasis on mission critical elements, such as communication centres (CC), radio rooms (RR), joint operations centres (JOC), joint mission analysis centres (JMAC) and joint logistic operations centres (JLOC) in an integrated, multidimensional and multilingual mission environment. The unit shall be able to install\(^3\), operate and maintain common radio systems, micro-wave equipment, power generators and telephone systems, and be able to install IT-infrastructure, such as cabling, rigging and masts.

ii. The unit shall support any sub-deployments of elements of the HQs and be capable of providing a timely response with appropriate resources to challenging situations, such as restoring services and IT infrastructure after blackouts or damage.

iii. The unit is required to provide user support to military and police staff and to combine efforts with the local Communications and Information Technology Section in providing common IT services.

b. Capabilities. The Signal company will be composed of specialist platoons with capabilities as listed below:

i. HQ Platoon. The platoon shall be capable to be in charge of supporting installation, configuration and of operation internal communications and IT systems of the FHQ/SHQ with trained personnel as under:

   (1) Provide personnel to man radio rooms/ communication centres for continuous communications 24/7.

   (2) Configure, and maintain digital VHF and HF radios and antennas,

   (3) Install and maintain telephone systems.

   (4) Support installation, operate and maintain unit computers, printers, copy machines, VTC systems and projectors.

   (5) Support installation, configuration and maintenance of passive and active network components.

   (6) Support key military and police staff within the Service Desk structures of the HQ.

   (7) Support training of military and police personnel in application and use of communications equipment.

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\(^3\) The installation, programming, and configuration of systems, such as servers, telephone systems, routers, etc. are expected through UN civilian technicians. The unit shall be capable to support such efforts and to operate and maintain these systems once set-up.
ii. Communication and Information Technology (CITS) Platoon. In charge of installation, configuration and operation internal communications and IT systems with trained personnel as under:

1. Install, configure, and maintain digital VHF and HF radios and antennas and train radio operators of the units.
2. Install, configure, and maintain telephone systems.
3. Support installation, operate and maintain personal computers, printers, copy machines, VTC systems and projectors.
4. Support installation, configuration and maintenance of passive and active network components.
5. Support key military and police staff within the service desk structures of the headquarters.
6. Support training of military and police personnel in application and use of communications equipment.

iii. Strategic Links Support (SLS) Platoon. In charge of installation, configure and maintain strategic communication systems with trained personnel as under:

1. Install, configure, and maintain HF radios and antennas.
2. Install, configure, and maintain microwave systems and antennas.
3. Support installation and maintain satellite VSAT equipment.
4. Support configuration and maintenance of IED electronic counter measure systems (e.g., C-IED jammers) and support to train military personnel in this regard.
5. Deploy, set-up and operate deployable command post solutions for up to 30 days.

iv. Communication Center Support (CCS) Platoon. In charge of installation, configure and maintain strategic communication systems with trained personnel as under:

1. Configure, operate and trouble-shoot HF and digital VHF radio systems and to train military personnel in this regard.
2. Operate and use personal MS Windows-based computers and office software, telephones and satellite equipment and to train military personnel in this regard.
3. Apply mission SOP for reporting and communication over military radio networks, including military alphabet and spelling, frequency and encryption changes, application of call signs, conduct of communication checks and to train military personnel in this regard.
4. Train military personnel to summarize and submit written and verbal military messages and reports.
v. **Administration and Support Platoon.** in charge to support the installation and maintenance of basic infrastructure, power supply and internal logistical support with trained personnel as under:

(1) Install network and power cables and plugs inside and outside of buildings.
(2) Install the rigging and installation of masts and larger antennas.
(3) Install, operate and maintain power generators and solar systems.
(4) Plan and execute all internal logistic tasks, mobility requests, and asset management functions.
(5) Force protection and base defence of the permanent operating base.

vi. Provide support to up to two (2) temporary HQs in the AO.

vii. Provide Level 1 medical cover to all personnel of the company.

viii. Provide internal communication to all entities of the company.

c. **Tasks.** Tasks for the unit will include, but are not limited to, the following:

i. Install, operate and maintain encrypted HF and microwave-based communication networks links.

ii. Install, operate and maintain information technology systems, including computers, printers, network infrastructure, and support the operation of email and file servers.

iii. Install, operate and maintain VHF and digital VHF radio networks in support of operations and support CIT training.

iv. Support CITS in the installation, operation and maintenance in Situational Centre, CC, JOC, JLOC and JMAC.

v. In collaboration with mission CITS, provide service desk support for key military and police staff.

vi. Install, operate and maintain telephone systems.

vii. Deploy and operate deployable command posts (provided by the UN) to enable temporarily deployment of small command groups.

viii. Be prepared to provide support for the provision of the Mission communications services to offices of the civilian component in the locations considered at elevated risk.

ix. In addition to an extensive pre-deployment training, the technical personnel of the Signals Unit will be trained on the installation, operation and maintenance of United Nations Owned Equipment (UNOE) at the designated mission training centre where UN CIT equipment before they are deployed to their final destinations, followed by on-the-job training when deployed to their final locations.

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4 With equitable involvement and participation by deployed female personnel.
x. Deploy detachments to support temporary Force or Sector HQs within its resources for up to 30 days and beyond with provision from mission support.

xi. Force protection tasks including base defence of the unit.

d. **Unit Organization.** See Annex A.

a. **Major Equipment Requirements.** See Annex B.

b. **Self-Sustainment Requirements.** See Annex C.

c. **Training.** Individual and collective training will be conducted and assessed for all capabilities according to the United Nations Military Signal Unit Manual and Guidelines on the Force Protection for Military Components of United Nations Peacekeeping Missions. In-mission training is also to be conducted regularly and should focus on developing and maintaining a full understanding of the mission mandate, SOPs\(^5\) and Rules of Engagement (ROE), including of freedom of action, limitations and requirements. Regular in-mission unit training should include, but not be limited to, liaison and engagement, base alarm and actions (when applicable), conduct and discipline including misconduct such as harassment, sexual harassment, discrimination and abuse of authority, gender sensitisation, responsiveness and integration in daily work, prevention of SEA, first aid training (including casualty communication and reporting, casualty transport and evacuation), weapons training/ immediate action drills and live fire. Additionally, train to prepare units for their duties and against the threat of IEDs and explosive remnants of war (ERW), mine awareness training is to be included in all pre-deployment and induction training packages. Where practicable, live firing of individual and support weapons is to be included in the in-mission training planning.

d. **Evaluation.** The unit will be evaluated and assessed in accordance with the UN policies and guidelines on military performance evaluation, as per the schedule issued by the Force Commander.

e. **Environmental Considerations.** During everyday operations, minimise the burden on the environment by reducing the fossil footprint, harm to the environment and risk to the ecosystem. This should be based on an assessment of potential short and long-term consequences.

2. **ADMINISTRATIVE REQUIREMENTS**

a. **Administration and Discipline.** The UN will not tolerate any form of misconduct including but not limited to discrimination, mental, physical, verbal, or sexual harassment and/or abuse of authority. Administration and discipline are a national responsibility. To support this responsibility, all military personnel will undergo UN-required vetting; including certification by the Member State that the individual has been trained to be fully aware of what constitutes SEA, as well as other forms of misconduct such as harassment, including sexual harassment, discrimination and abuse of authority, and the importance of upholding the zero-tolerance policy against these forms of prohibited conduct. This certification must be made with the understanding that no individual with a past record of sexual exploitation and abuse or human rights violations will be allowed to serve the UN in any capacity. Member States are responsible for the repatriation, at their own expense,

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\(^5\) Training to enhance awareness on human rights (including UN HRDDP) and detention drill as per SOP.
of any person found to have not met the Member State-provided certification. Additionally, the unit is to comply with general administrative policies issued by the Mission.

b. **National Investigation Officers**\(^6\) (NIO). Member States are required to provide NIO to investigate alleged misconduct by contingent members. The number required for this unit is one (1) in accordance with Annex D. The details must be confirmed during MOU negotiations. Gender-balanced appointments are encouraged.

c. **Ammunition Technical Officer**\(^6\) (ATO). In field missions, regular ammunition management is the responsibility of the TCC. It requires the deployment of at least one (1) ATO or a technical expert with each contingent as part of the unit. The ATO/technical expert must be qualified through a National Ammunition Technical Officer’s Course according to the International Ammunition Technical Guidelines (IATG) 01.90.

d. **A Gender Focal Point**\(^6\) (GFP) is to be appointed in the unit. While all members of the unit are responsible to integrate a gender perspective into their respective area of work, the GFP serves as key point of contact for the Mission Military Gender Adviser and to guide members of the unit in gender analysis, the integration of a gender perspective in their work, as well as the creation of an enabling and inclusive work environment.

e. **A SEA Focal Point**\(^6\) (SFP) must be appointed in the unit. The SFP serves as a key point of contact for SEA cases. The SFP is responsible for supporting the Unit Commander in implementing the UN Policies and guidance on SEA.

f. **A Mental Health and Wellbeing Focal Point**\(^6\) is to be appointed in the unit. The appointed person serves as a key point of contact to guide members of the unit to the Mission’s suitably qualified professionals on issues of wellbeing, and to provide the unit Commander with advice regarding the morale, health and spiritual wellbeing of the unit.

g. **Language.** The language used within the mission is English. Operational radio communications above unit level will be in English. It is desirable to have personnel with additional language skills in local language of the AO as applicable.

h. **Verification and control.** Major equipment and self-sustainment standards are defined to ensure that deployed operational capabilities meet mandated task requirements. In line with General Assembly decisions, verification and control procedures have been established to ensure that the terms of the RDL agreement between the UN and the troop contributor are met by both parties at the outset and throughout the period the RDL agreement is in effect. These standards are addressed in greater detail in Chapter 3 of COE Manual. Equipment availability, serviceability and standards will be checked and verified by a UN team both prior to the unit’s elevation to the RDL and periodically during the time the unit stays at the RDL. The UN may choose to undertake a Mission specific pre-deployment visit prior to the unit’s deployment to the mission technical clearance for medical personnel will be conducted prior to the deployment according to the DHMOSH SOP for Technical Review of Medical Personnel deployed to the UN Missions and Field Duty Stations.

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\(^6\) Gender-balanced appointment/Focal Points are encouraged.
3. **LOGISTICS**

a. **Self-sustainment (see Annex C).** Arrangements for logistic support are found in the COE Manual. The unit must be adequately equipped and self-sustained, with integral support and maintenance elements, for operations at permanent and temporary locations. A full description of the requirements and standards for all self-sustainment categories are contained in Chapter 3, Annex B (principles of verification and performance standards for minor equipment and consumables provided under self-sustainment) and in Chapter 3, Annex C (principles of verification and performance standards for medical support) of the COE Manual. The sustainment and equipment requirements for the contingent will be checked and certified by a UN team prior to the contingent’s elevation to the RDL and periodically during the time that the unit stays on RDL. Considerations to potentially varying requirements for female and male personnel should be given in the planned provisions (temporary and permanent).

b. The unit will provide self-sustainment for all its permanent operating base (POB). The unit will be capable to deploy its detachment to simultaneously support up to two (2) x Temporary Force/ Sector HQs for up to 30 days. The Force HQ responsible for coordination with the mission support division (MSD) to ensure support to the temporary deployment throughout their lifespan.

c. **Additional Requirements.**

i. All equipment must be transportable either by MI-26 or C-130 aircraft.

ii. All containers, including, but not limited to, general storage, refrigeration, ammunition, medical and workshops are to be no larger than the International Organisation for Standardisation (ISO) standard twenty-foot (20ft) container, with a maximum loaded weight of 10 metric tonnes (and a valid container safety certificate).

iii. All minor equipment, spare parts and consumables are supplied by the TCC under wet lease arrangement.

iv. All vehicles, plants and equipment will be subject to inspection and payload confirmation testing by UN officials prior to deployment from home country locations to ensure mission compatibility and operability.

v. Diesel is the only type of ground fuel available in the mission area therefore, the unit must deploy only diesel fuelled vehicles, equipment, and machines, except for uncrewed aerial vehicles (UAVs).

vi. It is preferable that TCC deploys maximum support vehicles with 6 x 6 or similar capabilities. All support vehicles must be fitted with WINCHE and MUD Tires to allow mobility during rainy season.

vii. The TCC is required to provide electrical generation of 2.5 kilo-volt-ampere (kVA) per person through a mix of large generators to support the main camps and smaller generators to support small camp locations and temporary deployments. Generators must be deployed in pairs to ensure continuous availability and the overall requirement is 5 kVA per person. The TCC is to provide one synchronisation panel per base camp.
viii. Tentage and field ablution facilities (women and men) for short deployments (up to 30 days) are provided by the TCC. Details of tentage for short term deployments are found in Annex B. For new missions, tentage for initial six months is part of self-sustainment requirement at Annex C. The ratio of ablution facilities per person should be higher for women personnel.

ix. The UN will provide waste and sewage removal services through local contractors. However, due to the uncertainty and unreliability of such contractors, waste removal services can break down causing health and hygiene risks for the troops and local communities, with potentially long-term harm. Contingents may be asked during MOU negotiations to deploy one sewage truck per base camp with trained service personnel to operate the equipment.

x. **Ammunition.** Unit ammunition must meet the requirements set out in the Ammunition Management Manual. The level for RDL is set at **HIGH**. Prior to the RDL verification visit, the TCCs are to provide manufacturer certificates and the ammunition list with details including the batch number, quantity, date of manufacture and the shelf life as provided by the manufacturer. Ammunition being deployed must have at least 50% of its shelf life remaining on the expected date of deployment. For ammunition storage, the unit must deploy ammunition magazine as per standards prescribed in the latest COE Manual.

xi. **Environmentally friendly equipment.** The TCC is encouraged to deploy equipment which supports efforts to reduce the environmental footprint of its operations, including more energy efficient generators, renewable energy power generation and environmental enhancements to accommodate and conduct themselves in an environmentally conscious manner, as stated in the COE Manual. The Unit is expected to comply with mission site energy plans, the requirements of the DOS environmental strategy, and fuel management policies where these are in place. 

4. **COMMAND AND CONTROL**

a. UN military units and personnel are under the Operational Control (OPCON) of the Force Commander. The Force Commander will deploy units as operationally required and designate command and control status in accordance with United Nations Policy “Authority, Command and Control in UN Peacekeeping Operations” (Ref G).

b. The unit falls under the tasking authority of the Director of Mission Support (DMS)\(^8\). The unit tasking priorities are routinely determined by the Mission Support in cooperation with and working through the Force HQ the UN unit Commander. The unit Commander determines how best to execute the tasking within the requested time frame.

c. The tasking of mission enabling assets should be guided by an integrated approach to planning and resource allocation, informed by mandate priorities determined by the

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\(^7\) Manual on Policies and Procedures concerning the Reimbursement and Control of Contingent-Owned Equipment of Troop/Police Contributors Participating in Peacekeeping Missions, Chapter 8, annex A.

Head of Mission and mission-wide priorities informed by the mission resource allocation structure.

d. The contributing Member State retains administrative control (ADMINCON) over non-operational administrative issues for deployed uniformed contingent personnel and units. ADMINCON over uniformed contingents and units is exercised by a senior national officer of a TCC deployed within a mission area. This authority is limited to administrative matters such as personnel management, supply and services and must not adversely influence the management and conduct of United Nations operations within the mission area.

e. Military personnel assigned to serve under UN OPCON shall not act on national caveats, direction or instructions that result in actions contrary to UN policies, non-compliance with any orders or instructions, or adversely affect implementation of the mission's mandate.

Annexes:
A. Unit organization.
B. Major equipment requirements.
C. Self-sustainment requirements.
D. Guidance on NIO.
UNIT ORGANISATION

Strength of the unit - 145
## MAJOR EQUIPMENT REQUIREMENTS

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<th>Subcategory</th>
<th>Description</th>
<th>Qty</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>ACCOMMODATION EQUIPMENT</td>
<td>ACCOMMODATION EQUIPMENT</td>
<td>TENTS FOR DEPLOYABLE SQUAD (UP TO 10 PERSONS)</td>
<td>5</td>
<td>For short term deployments. As per standards in COE Manual.</td>
</tr>
<tr>
<td>ACCOMMODATION EQUIPMENT</td>
<td>ACCOMMODATION EQUIPMENT</td>
<td>PORTABLE FIELD TOILET/SHOWER/WASHBASIN (SET OF 5 FOR UP TO 50 PEOPLE)</td>
<td>2</td>
<td>For short term deployments. Separate ablution facilities, appropriately fitted to be provided for men and women.</td>
</tr>
<tr>
<td>ACCOMMODATION EQUIPMENT</td>
<td>ACCOMMODATION EQUIPMENT</td>
<td>ABLUTION FACILITIES (UP TO 50 PERSONS)</td>
<td>5</td>
<td>Separate ablution facilities appropriately fitted, to be provided for men and women.</td>
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<tr>
<td>ACCOMMODATION EQUIPMENT</td>
<td>CONTAINERS</td>
<td>AMMUNITION MAGAZINE (STORAGE)</td>
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<td>ACCOMMODATION EQUIPMENT</td>
<td>ACCOMMODATION EQUIPMENT</td>
<td>MAINTENANCE WORKSHOP</td>
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<tr>
<td>ACCOMMODATION EQUIPMENT</td>
<td>CONTAINERS</td>
<td>OTHER CONTAINERS</td>
<td>15</td>
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<tr>
<td>COMMUNICATIONS EQUIPMENT</td>
<td>VHF/UHF EQUIPMENT</td>
<td>REPEATERS</td>
<td>4</td>
<td>To be determined on confirmation of mission AO</td>
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<tr>
<td>COMMUNICATIONS EQUIPMENT</td>
<td>SATELLITE EQUIPMENT</td>
<td>INMARSAT TYPE C - PORTABLE EARTH STATION</td>
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<td>COMMUNICATIONS EQUIPMENT</td>
<td>SATELLITE EQUIPMENT</td>
<td>SATELLITE PHONE</td>
<td>4</td>
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<td>COMMUNICATIONS EQUIPMENT</td>
<td>MISCELLANEOUS COMMUNICATION EQUIPMENT</td>
<td>UPS 10KVA AND UP</td>
<td>5</td>
<td>For Power support to equipment</td>
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<tr>
<td>COMMUNICATIONS EQUIPMENT</td>
<td>MISCELLANEOUS COMMUNICATION EQUIPMENT</td>
<td>VIDEO CONFERENCING SYSTEM</td>
<td>2</td>
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<tr>
<td>VEHICLES</td>
<td>SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>TRUCK, UTILITY/CARGO (OVER 5 TONS AND UP TO 10 TONS)</td>
<td>4</td>
<td>Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar.</td>
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<td>VEHICLES</td>
<td>SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>AMBULANCE</td>
<td>1</td>
<td>Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar.</td>
</tr>
<tr>
<td>VEHICLES SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>JEEP (4X4) WITH MILITARY RADIO</td>
<td>10</td>
<td>Integrated radio for the internal and external communication. Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar.</td>
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<tr>
<td>VEHICLES SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>TRUCK MAINTENANCE MEDIUM</td>
<td>1</td>
<td>Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar.</td>
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<td>VEHICLES SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>TRUCK UTILITY/CARGO (1.5 TO 2.4 TON)</td>
<td>4</td>
<td>Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar. With integrated radio or cradle to radio to be used as TCVs.</td>
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<tr>
<td>VEHICLES SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>TRUCK UTILITY/CARGO (2.5 TO 5 TON)</td>
<td>4</td>
<td>Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar.</td>
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<tr>
<td>VEHICLES SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>TRUCK WATER (OVER 5,000 AND UP TO 10,000 LITRES)</td>
<td>2</td>
<td>All with pumps. Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar. Fitted with radios.</td>
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<tr>
<td>VEHICLES SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>TRUCK, TANKER (OVER 5,000 AND UP TO 10,000 LITRES)</td>
<td>1</td>
<td>All with pumps and flow meters. Minimum requirement 4x4. Preferred 6 x 6, 8 x 8, or similar.</td>
<td></td>
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<tr>
<td>VEHICLES TRAILERS</td>
<td>FUEL TRAILER (2,000 TO 7,000 LITRES)</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>VEHICLES TRAILERS</td>
<td>WATER TRAILER (2,000 TO 7,000 LITRES)</td>
<td>1</td>
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</tr>
<tr>
<td>VEHICLES SUPPORT VEHICLES (MILITARY PATTERN)</td>
<td>TRUCK, RECOVERY (GREATER THAN 5 TONS)</td>
<td>1</td>
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<tr>
<td>LOGISTICS EQUIPMENT LOGISTICS EQUIPMENT</td>
<td>FUEL STORAGE, 5,001 TO 10,000 LITRES</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>LOGISTICS EQUIPMENT</td>
<td>LOGISTICS EQUIPMENT</td>
<td>WATER STORAGE, 7,001 - 10,000 LTR</td>
<td>1</td>
<td>Collapsible, specially certified for water storage</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------------</td>
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<td>---------------------------------------------------</td>
</tr>
<tr>
<td>VEHICLES</td>
<td>MATERIAL HANDLING EQUIPMENT</td>
<td>FORKLIFT ROUGH TERRAIN (OVER 5 TONS)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ARMAMENTS</td>
<td>ARMAMENTS</td>
<td>CREW SERVED MACHINE GUNS (UP TO 10MM)</td>
<td>4</td>
<td>For base defence</td>
</tr>
<tr>
<td>OBSERVATION EQUIPMENT</td>
<td>UNMANNED AERIAL SYSTEMS</td>
<td>MICRO (MULTIROTOR)</td>
<td>1</td>
<td>For base defence</td>
</tr>
<tr>
<td>ENGINEERING EQUIPMENT</td>
<td>ENGINEERING EQUIPMENT</td>
<td>WATER TREATMENT PLANT, UP TO 2,000 LPH, STORAGE UP TO 5,000</td>
<td>1</td>
<td>Reverse osmosis water purification unit (ROWPU) or equivalent</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>ELECTRICAL - GENERATORS - STATIONARY AND MOBILE</td>
<td>GENERATOR STATIONARY AND MOBILE 201-500 KVA</td>
<td>2</td>
<td>Capacity to generate 582.5 KVA in any combination. Main generators should have capacity of generating 2.5 Kilo Volt Ampere per person. Main generators should be employed in pairs to work 12 hour shifts with auto-switching and synchronization panels. Generators below 20 KVA are self-sustainment generators. The TCC is encouraged to deploy generators of the ISO 8528 standard; also, some renewable - solar power sources.</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>ELECTRICAL - GENERATORS - STATIONARY AND MOBILE</td>
<td>GENERATOR STATIONARY AND MOBILE 101-150 KVA</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MEDICAL AND DENTAL</td>
<td>MEDICAL AND DENTAL EQUIPMENT</td>
<td>LEVEL 1 HOSPITAL</td>
<td>1</td>
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</tr>
</tbody>
</table>
Annex C

SELF-SUSTAINMENT REQUIREMENTS

1. The following provides specific guidance regarding the unit’s self-sustainment. Detailed information is contained in the latest version of COE Manual.

### Apportionment of Responsibilities

<table>
<thead>
<tr>
<th>Category</th>
<th>Sub-Category</th>
<th>Services By</th>
<th>Applicable Strength</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATERING</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 2</td>
</tr>
<tr>
<td>COMMUNICATION</td>
<td>HF</td>
<td>CC</td>
<td>109</td>
<td>See Annex C, 3b. HF will be determined on case-to-case basis and is set at 70-75% of unit strength.</td>
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<tr>
<td>COMMUNICATION</td>
<td>TELEPHONE</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 3a. For internal communication within POB and to connect stationary sub-units.</td>
</tr>
<tr>
<td>COMMUNICATION</td>
<td>VHF/UHF - FM</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 3c and d.</td>
</tr>
<tr>
<td>OFFICE</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 4.</td>
</tr>
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<td>ELECTRICAL</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 5.</td>
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<tr>
<td>MINOR ENGINEERING</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 6.</td>
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<tr>
<td>EXPLOSIVE ORDNANCE DISPOSAL</td>
<td>GENERAL</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 7.</td>
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<td>LAUNDRY</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 8.</td>
</tr>
<tr>
<td>CLEANING</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 9.</td>
</tr>
<tr>
<td>TENTAGE</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 10.</td>
</tr>
<tr>
<td>ACCOMMODATION</td>
<td>GENERAL</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 11.</td>
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<tr>
<td>FIREFIGHTING</td>
<td>BASIC FIREFIGHTING</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 12.</td>
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<tr>
<td>MEDICAL</td>
<td>COMMUNAL FIRST AID</td>
<td>CC</td>
<td>145</td>
<td>Mandatory from 1 July 2022</td>
</tr>
<tr>
<td>MEDICAL</td>
<td>LEVEL 1</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 19.</td>
</tr>
<tr>
<td>MEDICAL</td>
<td>LEVEL 2 (INCL. DENTAL AND LAB)</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 20.</td>
</tr>
<tr>
<td>MEDICAL</td>
<td>LEVEL 3 (INCL. DENTAL AND LAB)</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 20.</td>
</tr>
<tr>
<td>MEDICAL</td>
<td>LEVEL 2 &amp; 3 COMBINED (INCL. DENTAL &amp; LAB)</td>
<td>N/A</td>
<td>0</td>
<td>See Annex C, 20.</td>
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<tr>
<td>Category</td>
<td>Description</td>
<td>Required</td>
<td>Qty</td>
<td>Appendix</td>
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<td>--------------------------------------------------</td>
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<td>-----</td>
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<tr>
<td>MEDICAL</td>
<td>HIGH-RISK AREAS (EPIDEMIOLOGICAL)</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 20.</td>
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<tr>
<td>MEDICAL</td>
<td>BLOOD AND BLOOD PRODUCTS</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 20.</td>
</tr>
<tr>
<td>MEDICAL</td>
<td>DENTAL ONLY</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 20.</td>
</tr>
<tr>
<td>MEDICAL</td>
<td>GYNECOLOGY</td>
<td>UN</td>
<td>15</td>
<td>See Annex C, 20.</td>
</tr>
<tr>
<td>MEDICAL</td>
<td>LABORATORY ONLY</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 20.</td>
</tr>
<tr>
<td>OBSERVATION</td>
<td>GENERAL</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 14a.</td>
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<tr>
<td>OBSERVATION</td>
<td>NIGHT OBSERVATION</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 14b.</td>
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<tr>
<td>OBSERVATION</td>
<td>POSITIONING</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 14c.</td>
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<tr>
<td>IDENTIFICATION</td>
<td>GENERAL</td>
<td>N/A</td>
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<td>See Annex C, 15.</td>
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<tr>
<td>NBC PROTECTION</td>
<td>GENERAL</td>
<td>N/A</td>
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<td>See Annex C, 16.</td>
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<tr>
<td>FIELD DEFENCE STORES</td>
<td>GENERAL</td>
<td>UN</td>
<td>145</td>
<td>See Annex C, 17.</td>
</tr>
<tr>
<td>MISCELLANEOUS STORES</td>
<td>BEDDING</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 18.</td>
</tr>
<tr>
<td>MISCELLANEOUS STORES</td>
<td>FURNITURE</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 18.</td>
</tr>
<tr>
<td>MISCELLANEOUS STORES</td>
<td>WELFARE</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 18.</td>
</tr>
<tr>
<td>MISCELLANEOUS STORES</td>
<td>INTERNET ACCESS</td>
<td>CC</td>
<td>145</td>
<td>See Annex C, 18.</td>
</tr>
<tr>
<td>UNIQUE EQUIPMENT / SERVICE</td>
<td>GENERAL</td>
<td>N/A</td>
<td>0</td>
<td>See Annex C, 18.</td>
</tr>
</tbody>
</table>
2. **Catering (11-13)**. The mission may be unable to initially provide cooking space. Therefore, the unit is to deploy with appropriate temporary cooking accommodation. The unit should deploy with a fully mobile kitchen (e.g. kitchen trailers) for initial deployment and for short term deployments from base camps. The Unit should bring environment friendly, electrically operated cooking hot plates.

3. **Communications (14)**. Equipment for communication with higher headquarters and other units will be provided by the UN. The unit is to provide mobile integral communications down to the section level and be able to communicate with the FHQ to perform its duties.

   a. **Telephone**. The unit is to provide, install and operate switchboard and telephone networks down to the sections within its AOR.

   b. **High Frequency (HF)**. HF communications are mandatory and must have a range of at least 250 kilometres. The unit HQ must install an HF base station and antennae with at least two sets of HF radios (primary and backup) operated by its own qualified personnel. The unit must provide the minimum HF radio communications to battalion and company commanders, deputy commanders, senior officers in HQ, platoon commanders and deputy platoon commanders. The unit must maintain its own operators, always capable of equipment operation.

   c. **VHF/UHF-FM**. This is the primary means of radio communication with sub-units in a tactical or mobile environment. VHF communication is mandatory and must have a range of up to 25-30 km. The unit must provide the minimum VHF/UHF-FM radio communications to company commander, deputy commander, senior officers in HQ, platoon commanders, deputy platoon and squad and team leaders. VHF air-band (air to ground) communications is required for casualty evacuation (CASEVAC).

   d. **Satellite Communication (SATCOM) and Integrated Communication (ICOM)**. The mission will provide the required SATCOM and ICOM to enable strategic communication with the Mission/Force/Sector HQ, as required.

4. **Office (15-18)**. The mission may be unable to initially provide office working space. Therefore, the unit is to deploy with appropriate temporary office accommodation. The unit is to deploy with all necessary office furniture, equipment and supplies including electronic data processing (computers) and reproduction (printers and photocopiers) capabilities.

5. **Electrical (19-22)**. Electrical self-sustainment includes decentralised electrical power from generators to ensure a stable power supply for small sub-units, a redundant emergency back up and the necessary electric harnesses, wiring, circuitry, and lighting sets.

6. **Minor Engineering (23-24)**. At a minimum, the unit must be self-sustained and able to accomplish the following non-exhaustive list of tasks:

   a. Non-Field defence construction;

   b. Limited construction of light structures;

   c. Minor electrical repairs and replacements;

   d. Minor repair to plumbing and water systems;

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The applicable paragraph number of the COE Manual, Chapter 3, Annex B is in brackets following the category title.
e. Maintenance of all necessary tools, supplies, and workshop equipment.

7. **Explosive Ordnance Disposal (EOD) Capability (25-30).** The responsibility of the EOD shall be provided by UN.

8. **Laundry (31).** The unit will provide sufficient laundry facilities for all military and personal clothing, including dry-cleaning of operationally required specialist clothing and a cleaning unit. Privacy considerations for drying of washed clothes must be taken into consideration in the facilities, by providing a dedicated drying space for women and men.

9. **Cleaning (32).** The unit is to provide cleaning of facilities.

10. **Tentage (33-38).** For new missions, the unit is to deploy with sufficient tentage, per the standards listed in the COE Manual, for all personnel, storage, offices, ablutions, cooking, dining and workshop for an initial six-month period. Any accommodation provided by the TCC for short or long deployment must be suitable for male and female personnel. This includes separate accommodation, and separated ablution facilities for women and men.

11. **Accommodation (39-43).**
   a. The mission will prepare green field sites under austere conditions at the deployment location. The unit is to deploy with sufficient tentage or temporary structures for all accommodation, storage, offices, ablutions, and workshops for an initial six-month period in new missions. Accommodation and ablution facilities are gender responsive and consider differing needs of women and men. If possible, the ratio of ablution facilities per person should be higher for female personnel.
   b. For new missions, the UN will provide UN standard field accommodation after an initial six-month period, until which time the unit is to use COE tentage.

12. **Basic Firefighting (44).** The unit must have the capability to undertake basic firefighting in accordance with the International Fire Code in its own accommodations and working areas.

13. **Fire Detection and Alarm (45).** The contingent must have automatic fire detection and alarm systems (e.g., smoke detectors and fire alarm systems) in accordance with the International Fire Code in all its accommodations, ablutions, office space, workshops, supply, catering and any other working areas.

14. **Observation (46-47).** The contingent must be able to carry out observation throughout its AO.
   a. **General Observation.** The unit must have the capability to conduct observation tasks twenty-four hours a day and seven days per week with section-level handheld binoculars. At least one set of binoculars per 10 operationally deployed personnel.
   b. **Night Observation.** Night vision goggles and/or equipment must be capable of passive and/or active infrared (IR), thermal or image night-time line of sight observation. Night vision goggles and/or equipment must be capable of detecting human-size objects within a range of 300 m. The minimum is at least one night vision device per 10 personnel and NVGs for all combatants/field-deployed personnel.
   c. **Positioning.** The contingent must be able to determine the exact geographical location of a position or item within the AO through the combined use of global positioning system (GPS) equipment and laser range finders. Two (2) GPS per platoons are required for the operational self-sustainment of the TCCs.
15. **Identification (48).** The unit does not require to be self/sustained under Identification.

16. **NBC Protection (49).** There is no requirement for the unit to provide nuclear, biological, and chemical (NBC) protection equipment.

17. **Field Defence Stores (50-51).** For new missions, the TCC may be required to provide the field defence capability for initial six months. The mission will provide field defence stores thereafter.

18. **Miscellaneous General Stores (52-53).** The unit must be self-sustained in terms of bedding, furniture, welfare equipment and amenity requirements, including internet. Provisions for female sanitary products should also be made.

19. **Medical (20).**
   a. Contingent personnel must be trained in basic immediate first aid (buddy aid). The unit must deploy with sufficient number of communal first aid kits to be able to place in vehicles and high-risk areas inside the camp which are susceptible to accidents (example kitchen, workshop, etc.).
   b. The unit must deploy with and maintain one (1) x Level 1 hospital. The Level 1 hospital must have the ability to provide a total of two (2) x forward medical teams (FMTs) in order to provide appropriate medical support\(^\text{11}\) for both women and men for operations across all unit locations. All medical personnel are to be qualified and certified.
   c. Level 2, 3 and 4 hospital locations will be specified when the Mission country is determined. CASEVAC will normally be provided by UN ground ambulance through UNOE or COE resources or support from the ambulance services of local hospitals, as available. When required, contracted or military aircraft may be used to support CASEVAC where available and suitable. While the ownership of the CASEVAC system is invested in a senior Mission leader – normally the DMS/CMS – authority to launch CASEVAC operations will be devolved to the lowest practical level without the need to seek permission from the ‘ownership level’.
   d. Medical capabilities for high-risk areas (epidemiological) by the TCC and gynaecology services are to be provided by the UN.
   e. Buddy first aid: one complete kit must be carried by each contingent member to provide basic immediate first aid to a casualty for him- or herself or by the nearest person on site, at the point of injury. The UN requirement for the buddy first aid kit is set out in Chapter 3, annex C, appendix 1.

20. **Initial Provisioning**
   a. **Water.** The unit must deploy with bottled water for a duration of up to 7 days. Within the first seven days the contingent is required to install its own water treatment plant (WTP) to produce bulk water from an UN-provided water source to meet its own drinking and bulk water needs. The minimum daily production and storage requirements

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\(^{10}\) The applicable paragraph number of the COE manual, Chapter 3, Annex C is in brackets following the category of title.

\(^{11}\) Preferred to have minimum 50% paramedics among the medic/nursing staff in each FMT to provide emergency medical cover to all operational activities i.e., patrolling, ADPs and LRP as per 10-1-2 rule.
are 80 liters per person per day. The unit should bring sufficient portable Jerricans to store and transport water for operations.

b. **Rations.** The contingent must deploy with rations for a duration of 14 days. The mission will provide rations thereafter. The contingent must have the capacity of establishing storage (reefer containers, freezer containers, etc.) for 14 days of frozen and seven (7) days of fresh rations and three (3) days’ worth of combat ration packs (CRP).

c. **Supply.** The unit is required to deploy with fully self-sufficient stocks of supply items and spare parts for maintenance of its major and minor equipment. The unit is to initially deploy with a minimum six (6) month stock level of spare parts, supplies and consumables. Resupply of consumables and spare parts is a national responsibility.

d. Inhospitable terrain, limited communication networks and unavailability of local market add to the problem of supporting and maintenance of the troops. It is advised that the unit deploy adequate spares and other self-sustainment materials to support and maintain troops upon deployment. Furthermore, the unit must be ready to support and maintain the troops with robust maintenance mechanism.

e. **Petroleum, Oil and Lubricants (POL).** The unit must deploy all vehicles with fuel-tanks half full; the mission will provide fuel after deployment. The unit must have the capacity to establish bulk storage (e.g., fuel trucks, bladders, storage tanks, and trailers equipped with fuel pumps and flow meters) for seven (7) days of diesel supply. The unit should also have the capacity to distribute diesel to vehicles and generators. Oil and lubricants will be provided by the mission.
GUIDANCE on National Investigation Officers (NIOs)

1. The following guidelines are provided:
   a. For units smaller than 150 personnel, the TCC is encouraged to:
      (1) Include one NIO from its contingent, or;
      (2) Share NIO services with another unit (of the same TCC) within the Mission, or;
      (3) Share NIO services with another contingent (of the same TCC) within the region, or;
      (4) Share NIO services from the National Support Element (NSE) of this TCC.

2. Where a person under investigation is a staff officer (status of contingent), the TCC is to decide if an NIO already within the mission can undertake the investigation (especially if the staff officer is of senior rank) or if an NIO is required to be deployed from the home location. Where it has been agreed during MOU negotiations that the NIO may be provided from the home location to the contingent, the NIO must be able to deploy to the mission to commence an investigation no later than seven days after notification of requirement.

3. It is recommended that NIOs be “dual-hatted” as personnel or legal officers\(^\text{12}\) to ensure that the deployment of NIOs is not at the expense of other required personnel capabilities within the contingent.

\(^{12}\) This is a national decision, but the mandated inclusion of an NIO will not be justification to seek an increase to the personnel cap of a contingent.