UN Military Engineer Unit - Functions UN Military Engineer Unit Function 1: PERSONNEL/ADMINSTRATION

Description: The Personnel Staff Section includes an administration and personnel officer and a military police officer. This section is responsible for personnel administration, welfare, morale, motivation, and maintaining conduct and discipline in the unit. The section ensures adherence of the UN code of conduct and supports the commander to maintain and manage Conduct & Discipline related issues.

Ref: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual, Chapter 3.2.1; UNIBAM Chapter 2 and UNMIM Chapter 8 and para. 2.17.

Sub-Task	: Function 1: PERSONNEL/ADMINST Standard Standards		Indicators	
Jub-Task	Number	Standards		Scor
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1.1				
ersonnel/Administration	F 1.1.1	Darsannal	Ctondovd Blot	
	L 1.1.1	Personnel	Standard Met	
		administration of the	1. Engineering Unit's SOPs are written in the mother	
		unit is guided by	tongue and in English.	
		Mission SOPs.	2. Personnel reporting procedures are covered in	
			Engineering Unit SOPs.	
			3. Conduct and discipline procedures are covered in	
			Engineering Unit SOPs.	
			4. Contingent leave policy is covered in Engineering	
			Unit SOPs.	
			5. Welfare measures are covered in Engineering Units	
			SOPs.	
			6. The SOP is updated and signed by Contingent	
			Commander and not older than unit arrival date.	
			7. Job descriptions are available for all functions in	
			·	
			the unit. (Comment: Are the Job Descriptions in	
			English language, put into the UN template, using the	
			current naming conventions and containing the	
			necessary pre-deployment skills? Has every single	
			member of the Unit/Sector signed a personal copy of	
			their job description?)	
	F 1.1.2	The engineering Unit	Standard Met	
		maintains, reports, and	1. Daily/Weekly unit strength reports are provided to	
		records the operational	Sector/ Force HQs.	
		strength status of the	2. The personnel section maintains the clear status of	
		unit.	all unit personnel including the deployed locations.	
			3. Subordinated units report the daily strength status	
			of all soldiers.	
			4. Personnel section reports critical shortfalls	
			·	
			regarding personnel to Unit Commander.	
			5. The Unit's authorized strength is in line with the	
			MOU.	
			6. The unit's operational strength (actual strength)	
			(MML, i.e. 75%) in line with the specific field missions	
			SOP is maintained at all locations of the Engineering	
			Unit.	
			7. Repatriations/rotations of personnel before the	
			end or at the end of the normal tour of duty are	
			correctly recorded and documented.	
	F 1.1.3	The Unit meets UN	Standard Met	
			1. 7% of all deployed contingent. pers. are females	
		requirements.	(8% in 2021, 9% in 2022, 10% in 2023).	
		requirements.	2. Female soldiers are employed and operating in the	₩

	1	- Trimitary Engine	
			unit as per their assigned function. (Comment:
			Question female soldiers.)
			3. Female soldiers have been assigned mentors in the
			contingent. (Comment: Question female soldiers.)
			4. The Unit has a trained Gender Focal Point /Adviser.
			5. The Engineering unit has an Engagement Staff
			Section including an engagement/public information
			officer and interpreters and these are projected in the
			unit's SOP. Ref.: UNMEU/CET Manual 3.2.1
			6. Commanders are aware of the FC's Gender
			responsive document and conforming to its intent.
			7. Unit leadership ensures gender training and
			awareness is being conducted in regular intervals.
			(Comment: Question gender advisor/Focal point.)
	F 1.1.4	Physical requirements	Standard Met
		are in place according	1. Separate accommodation, showers and toilets are
		to UN gender strategy.	available for female personnel.
			2. Women's ablution and washrooms are in close
			distance to their accommodation.
			3. Safety lighting is installed around all camps to
			ensure safe movement of personnel at night.
			4. Suitable accommodation for women to allow full
			access, able to travel and operate in all areas in the
			mission is available.
			5. Women have access to female sanitary products
			and there are disposal points for sanitary products in
			the ablutions.
	F 1.1.5	Contingent personnel	Standard Met
		meet UN specific	1. The contingent has no personnel under 18 years of
		requirements. Ref.:	age.
		COE Manual Chapter 9	2. The contingent has no personnel older than 55
		Annex A	years of age (excluding ranks above Lt Col/Senior
			Warrant Officer).
			3. Key personnel of the unit is capable to
			communicate in English with higher levels of
			Command.
			4. Personnel on the platoon level can communicate in
			the Mission language (e.g. English, French).
			5. Personnel in specialized functions is trained.
			(Comment: Check with S1 for duty record/training
			records of maintenance, medical, kitchen, operators
			of engineer equipment, specialists and interview 1 of
			each group to verify.)
F 1.2	1		
Conduct & Discipline and			
SEA prevention	F 1.2.1	Understanding of SEA	Standard Met
		prevention and UN	1. All unit members questioned can explain the UN
		standards of Conduct.	standards of conduct.
		(Comment: A minimum	2. All unit members questioned can explain the
		requirement 5% of the	prohibitions against SEA and sexual relationships with
		overall contingent	members of the local population.
		strength must be	3. All unit members questioned demonstrate
		questioned.)	awareness of the possible consequences of SEA for
			troops, victims, the TCC and mission/UN.
			4. All unit officers and senior NCOs (Staff sergeants
			and above), and all other unit members questioned,

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		know and can explain the
		process/procedure/appropriate reporting channels for
		reporting suspected misconduct.
		5. All unit personnel carry the "No Excuses" card and
		the "Ten Rules: Code of Conduct for Blue Helmets"
		translated into the unit's mother tongue.
		6. There are visible awareness-raising messages (e.g.
		posters, regular townhalls) regarding SEA prevention
		and UN Code of Conduct present in the Unit.
F 1.2.2	The Unit includes	Standard Met
	deployed personnel	1. The NIO is formally authorized to obtain DNA
		samples of contingent members who are alleged to
	to serve as National	have committed SEA for criminal, military judicial, or
	Investigation Officers	administrative action. (Comment: Authorization
	(NIOs). (Comment:	needs to be documented.)
	Only applicable if unit	2. The NIO is formally authorized to obtain DNA
	has deployed NIOs.)	-
	rias deployed Mos.,	samples of contingent members against whom there is a claim for paternity and/or child support.
		(Comment: Authorization needs to be documented.)
		3. The NIO is formally authorized to obtain DNA
		samples of mothers and children as relevant to their
		investigations. (Comment: Authorization needs to be
		documented.)
		4. There is a written document that the NIO has
		received training on UN code of conduct, including
		SEA.
		5. Units of over 300 authorized strength are required
		to deploy 2 NIOs, for units below 300 authorized
		strength 1 NIO. (Comment: Check against authorized
		strength in the MOU.)
F 1.2.3	The Unit has a plan on	Standard Met
	the prevention of UN	1. The unit commander has a written plan in place for
	standards violations on	preventing misconduct.
	conduct, including the	2. The unit has identified areas vulnerable for SEA
	zero-tolerance policy	cases and the preventive measures.
	on SEA.	3. The plan is aligned with FHQ and approved by the
		Force Commander.
		4. The plan is coordinated with the Conduct and
		Discipline team.
		5. The plan identifies priority misconduct risks, and
	T. Control of the Con	of the plan factiones priority infocultate risks, and
		measures to mitigate these risks
F 1.2 4	The unit commander	measures to mitigate these risks. Standard Met
F 1.2.4	The unit commander	Standard Met
F 1.2.4	has control measures	Standard Met 1. The unit commander and all sub-unit commanders
F 1.2.4	has control measures to prevent misconduct	Standard Met 1. The unit commander and all sub-unit commanders maintain a record showing they communicate on
F 1.2.4	has control measures to prevent misconduct (violations of UN	Standard Met 1. The unit commander and all sub-unit commanders maintain a record showing they communicate on conduct and discipline to those under their command
F 1.2.4	has control measures to prevent misconduct (violations of UN standards of conduct,	Standard Met 1. The unit commander and all sub-unit commanders maintain a record showing they communicate on conduct and discipline to those under their command on a regular basis (at least monthly), including on the
F 1.2.4	has control measures to prevent misconduct (violations of UN standards of conduct, including the zero-	Standard Met 1. The unit commander and all sub-unit commanders maintain a record showing they communicate on conduct and discipline to those under their command on a regular basis (at least monthly), including on the standards related to SEA.
F 1.2.4	has control measures to prevent misconduct (violations of UN standards of conduct, including the zero- tolerance policy on	Standard Met 1. The unit commander and all sub-unit commanders maintain a record showing they communicate on conduct and discipline to those under their command on a regular basis (at least monthly), including on the standards related to SEA. 2. Where personnel are deployed to Temporary
F 1.2.4	has control measures to prevent misconduct (violations of UN standards of conduct, including the zero-	Standard Met 1. The unit commander and all sub-unit commanders maintain a record showing they communicate on conduct and discipline to those under their command on a regular basis (at least monthly), including on the standards related to SEA. 2. Where personnel are deployed to Temporary Operating Bases or other remote locations, the unit
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F 1.2.4	has control measures to prevent misconduct (violations of UN standards of conduct, including the zero- tolerance policy on	Standard Met 1. The unit commander and all sub-unit commanders maintain a record showing they communicate on conduct and discipline to those under their command on a regular basis (at least monthly), including on the standards related to SEA. 2. Where personnel are deployed to Temporary Operating Bases or other remote locations, the unit commander conducts regular (monthly) visits to ensure adherence to UN standards of conduct. 3. The unit and sub-unit commanders demonstrate that they are actively monitoring the plan and

			5. Unit commander and sub-unit commanders have a	
			clear understanding of the procedure to deal	
			with/administer the violation of conduct and	
			discipline and SEA cases.	
			6. Appropriate action has been taken to address the	
			violation of conduct and discipline and SEA cases.	
			(Comment: N/A if no case)	
	F 1.2.5	Linit norsennel edherre	i i	
	F 1.2.5	Unit personnel adheres		
		to UN standards of	1. During the reporting timeframe, no contingent	
		conduct and discipline	member has been repatriated as a result of	
		incl. SEA.	disciplinary issues.	
			2. During the reporting timeframe, no violation of the	
			UN standards of conduct of a current contingent	
			member is documented.	
			3. During the reporting timeframe the Engineering	
			Unit Commander and personnel cooperated during	
			investigations. (Comment: N/A if no investigations)	
			4. The unit commander conducts own investigations	
			on cases of misconduct and penalizes contingent	
			members that are found guilty (in accordance with	
			authorization by national law). (Comment: Records to	
			be presented. N/A if no cases.)	
			5. All cases of misconduct allegations and	
			investigations are documented incl. the outcome	
			(sentence). (Comment: Records to be presented. (N/A	
			if no allegations or investigations))	
F 1.3				
Safe Driving				
	F 1.3.1	Unit personnel adheres		
	F 1.3.1		Standard Met 1. During the reporting timeframe no traffic violations	
	F 1.3.1			
	F 1.3.1	to UN standards of safe	1. During the reporting timeframe no traffic violations	
	F 1.3.1	to UN standards of safe driving. Ref.: UNMIM	During the reporting timeframe no traffic violations (with contingent members at fault) have been	
	F 1.3.1	to UN standards of safe driving. Ref.: UNMIM	1. During the reporting timeframe no traffic violations (with contingent members at fault) have been recorded by FPM/MP. (Comment: Obtain information from FPM/MP, Sector HQs Operations	
	F 1.3.1	to UN standards of safe driving. Ref.: UNMIM	During the reporting timeframe no traffic violations (with contingent members at fault) have been recorded by FPM/MP. (Comment: Obtain information from FPM/MP, Sector HQs Operations Centre.)	
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	Ort mintary Engine	- Tanccions
		coordinate and control vehicle tasking and movement
		in accordance with mission procedures?)
		6. The unit traces traffic violation cases, conducts
		investigations (also in cooperation with local
		authorities and MP) and takes disciplinary measures if
		required (e.g. gross negligence). (Comment: Check
		unit records. If no existing cases - N/A.)
F 1.3.2	The unit has	Standard Met
F 1.3.2		
	implemented a Road	1. The unit has clearly documented safety regulations
	Safety Program. Ref.:	and Standard Operating Procedures (SOPs) which are
	UNMIM 2.17.6	understood by drivers and vehicle occupants. These
		measures must be strictly enforced (e.g., speed limits,
		use of seat belts, alcohol control, vehicle breakdown
		drill). (Comment: Does the Transport Section utilize
		the UN Drivers Handbook and ensure their drivers are
		familiar with its contents?)
		2. Training, testing and certification of drivers to
		operate vehicles in all weather conditions, during
		night and low-visibility and over rough terrain
		replicating conditions in the AOR. (Comment: Initial
		training conducted prior to deployment and repeated
		as refresher training during deployment- check
		records.)
		,
		3. The unit uses assistant drivers in vehicles where
		applicable.
		4. Drivers know how to respond to accidents, perform
		self-extraction, operator-level emergency repairs,
		report on accidents, break-downs and faults, provide
		first-aid and attend to injuries en-route. (Comment:
		Question vehicle operators for an assessment.)
		5. Vehicle operators of the unit are performing daily
		Preventive Maintenance Checks and Services (PMCS)
		prior to the operation of any vehicle, recording checks
		and services in logbooks assigned to the vehicle.
		(Comment: Conduct spot check with vehicle
		operators-PMCS as a minimum shall include a quick
		visual inspection and walk-around of the vehicle to
		ensure that the tires are properly inflated and that
		brake, signal lights, headlights are working properly,
		and no obstructions or personnel are obstructing
		vehicle movement; petroleum, oil and lubrication
		levels are at the full level.)
		6. All vehicles are equipped with emergency repair
		and towing equipment, fire extinguishers, emergency
		triangles and first aid equipment.
F 1.4		
Welfare F 1.4.1	The unit has the	Standard Met
F 1.4.1		
	required equipment,	1. No shortfalls regarding the Self Sustainment
	infrastructure and	category of Catering (as per DOS KPI SS categories) are
	processes to provide	identified in the last COE verification inspection.
		2. No shortfalls regarding the Self Sustainment
		category of Welfare (as per DOS KPI SS categories such
	Chapter 8	as sports facilities, phone facilities etc.) are identified
		in the last COE verification inspection.
		3. No shortfalls regarding the Self Sustainment
I I		

		category of Internet Access (as per DOS KPI SS
		categories) are identified in the last COE verification
		inspection.
		4. Recreational space/ facility is available.
		5. Entertainment facility, TV, religious facilities,
		library, indoor/outdoor sports areas are available.
		(Comment: How does the unit account for Welfare
		items? Carry out a 10 item check of items on the
		Welfare account.)
F 1.4.2	The unit has	Standard Met
	implemented	1. The unit has documented leave plans as per UN
	procedures to ensure	regulations for the contingent. (Comment: Does the
	the welfare of its	unit have a system for registering and planning
	members. Ref.: UNMIN	lannual/compassionate/recreational leave?)
	Chapter 8	Temporary deployments at remote locations are
		not exceeding 30 days (unit members are rotated at
		these locations).
		3. All Unit and sub-unit commanders have
		implemented and documented a duty system allowing
		for rest and recuperation.
		4. The unit has a documented welfare plan and
		program for unit members (e.g. game nights, sport
		competitions, movie nights).
		5. The unit has a system in place to inform all
		personnel (e.g. current situation, incidents, upcoming
		events) to avoid speculation, rumours and frustration.
		6. The unit has established a designated counsellor
		for contingent members to raise problems and
		concerns.
IN Military Engineer Unit Fun	ction 1: PERSONNEL	/ADMINSTRATION (Overall Assessment):
		,
bservation & Recommendat	ions	

UN Military Engineer Unit - Functions UN Military Engineer Unit Function 2: The Engineer Unit Situation Awareness.

Description: The Engineer Units should be capable of pro-actively acquiring, processing, analysing (including the use of early warning indicators) and communicating tactical information at the unit level; and maintaining 24/7 situation awareness with dedicated staff and multiple resources for planning and executing Engineer tasks and force protection. The situation awareness section is to coordinate tactical information acquisition, collation, corroboration and dissemination for effective situation awareness throughout the unit.

Ref: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual, Chapter 3.2.1

Sub-Task		nction 2: The Engineer Unit Situa Standards	Indicators	Score
Jub-Task	Number	Standards	indicators	Jeon
F 2.1	INGILIDE	l .		
Awareness and	I	I		
Understanding of	F 2.1.1	The Engineer Unit Situation	Standard Met	
the Area of		Awareness staff section	1. All routes throughout the unit Area of	
Operation (AO)		demonstrates awareness of the	Operation, including roads, tracks and likely transit	
operation (AO)		physical terrain in its Area of	routes used by UN forces and other actors are	
		Operation and its potential	identified and classified based on capabilities and	
		impact on unit operations to	conditions such as vehicle type, general road	
		achieve the mandate. Ref.:	conditions are depicted in an Overlay. Ref.: MPKI	
		UNMPKI HB 9.4.5	handbook 9.4.5 (Comment: This overlay is known	
			as the Mobility Corridor Overlay.)	
			2. The terrain has been labelled UNRESTRICTED	
			(Terrain over which movements of UN forces or	
			other actors is not affected by the ground,	
			vegetation, natural and man-made obstacles),	
			RESTRICTED (Terrain over which movements of UN	
			forces or other actors is only possible at reduced	
			speed, is canalised, or will be possible only with the	2
			assistance of additional non-organic assets like	
			improvised bridges or obstacle crossing task is	
			required, e.g., steep ground, swamps / river beds	
			etc), SEVERELY RESTRICTED (Terrain over which	
			movements of UN forces or actor groups being	
			assessed as impractical e.g., rivers that cannot be	
			crossed/forded, known minefields) and is depicted	
			in an Overlay. Ref.: MPKI handbook 9.4.5	
			3. Pertinent Infrastructure in the Area of Operation	า
			of the Engineering Unit is depicted in an Overlay.	
			E.g.: Sanitation (including sewerage, Water supply	
			(including wells, water purification or de-	
			salinization plants); Power supply; Refugee camps	
			or key NGO facilitation areas; major airports,	
			helipads, and their conditions.	
			4. The Engineer Unit Situation Awareness staff	
			section has identified terrain/ ground that provides	;
			an advantage to either UN-opposing or UN forces	
			towards the completion of a mission (but is not	
			critical to mission success) and depicted these	
			areas in an overlay (Key Terrain (KT)). (Comment:	
			Depending on the type of the mission these could	
			be high grounds, areas with good observation	
			points and fields of fire, key infrastructure (such as	1

UN Military Engineer Unit - Functions hridges, river crossing points, intersections,

			bridges, river crossing points, intersections,	
			industrial complexes) and their conditions.)	
			5. The Engineering Unit Situation Awareness staff	
			section has identified and maintains separate	
			overlays on the impact of weather/seasonal	
			conditions on routes, river courses, areas of cover	
			(such as vegetation growth).	
	F 2.1.2	The Engineering Unit Situation	Standard Met	
		Awareness staff section	1. The Engineering Unit Situation Awareness staff	
		demonstrates awareness of the	section has depicted in overlays all ethnic, religious	
		human terrain in its Area of	(incl. religious sites), political and tribal group	
		Operation in relation to the	locations and identified vulnerabilities of each	
		mandate. Ref.: UNMPKI HB 9.5.2	group within its Area of Operation.	
			2. The Engineering Unit Situation Awareness staff	
			section has identified all armed groups, terrorists,	
			and organized crime groups in its Area of Operation	
			and depicted (in separate overlays) known	
			locations (along with their capability, structure, and	
			intent, their attitude to the UN, their links with	
			other groups, and their key leaders).	
			3. The unit has identified and depicted in an	
			overlay all locations of Host Nation Security Forces	
			and institutions (including structure, capabilities	
			and contact details of key personnel).	
			4. The Engineering Unit has identified locations	
			(depicted in an overlay) and strength of refugees	
			and IDP (internally displaced persons) and actors	
			providing humanitarian assistance such as NGOs in	
			their Area of Operation.	
			5. The Engineer Unit has identified political	
			organisations and key leaders in their Area of	
			Operation.	
			6. The Engineer Unit has identified in list	
			individuals, equipment and infrastructure which	
			are assessed as being significant to both (threat)	
			actors and UN forces for the completion of their	
			respective Engineer task(s)/ intent (Items of High	
			Importance List (IHI List)). Ref.: MPKI handbook	
			9.5.11	
			7. The unit assesses if the armed elements use of	
			mine, EOD, IED, and existence of the Explosive	
			Remnant of War (ERW) in the AOR.	
F 2.2				
Direction &	F 2 2 4	The Engineer Unit City of the	Cton doud 84ot	
Acquisition	F 2.2.1	The Engineer Unit Situation	Standard Met	
		Awareness staff section manages	1. Incoming information related to Engineer Units	
		Information acquisition	tasks is also visually depicted on maps, charts, and	
			overlays. (Comment: Check Situation and Incident	
			Maps.)	
			2. The Engineering Unit Commander receives	
			INTREPs and INTSUMs (daily, weekly, and monthly)	
			from higher headquarters and updates the unit's	
			security information.	
1			3. The Engineer Unit receives information or	

Observation & R	mmandations		
UN Military Engi	r Unit Function 2: The Engineer Unit S	tuation Awareness. (Overall Assessmer	nt):
	relat	d to UXO, AXO in the AOR etc.	
	pote	tial use of explosive ordnance, and situation	
	types	of explosives during the confrontation, the	
	4. Th	e unit analysis if Armed Groups used any	
	road	and infrastructures.	
	asses	sments on the accessibility of the main supply	

UN Military Engineer Unit - Functions UN Military Engineer Unit Function 3: OPERATIONS AND ENGINEER PLANNING

Description: The unit's operations staff section is responsible for planning, organizing, staffing, directing, controlling and sustaining all operations and administrative responsibilities of the unit in accordance with unit and Force standard operating procedures. The section coordinates all operational activities and movements within the area of responsibility, carries out liaison, maintains the Engineer Unit's 24/7 Operations Center (ideally with tracking and video teleconferencing capability to the next higher headquarters for real time monitoring, control and coordination of operations). They coordinate employment of Quick Reaction Teams in accordance with the operational situation. It is their responsibility to ensure the overall safety and security of personnel, material and information in the unit. The section establishes and maintains liaison with neighbouring contingents and the immediate higher headquarters and/or engineer section/Chief, Service Delivery for coordination and control of activities.

Ref: UNIBAM Chapter 2; and UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual, Annex E, UN Engineer Unit's Task 1

Sub-Task		tion 3: OPERATIONS AND ENGINEE Standards	Indicators	Scor
Jub Tusk	Number	Standards	marcators	500
3.1				
Planning and				
Mandate	F 3.1.1	The UN Engineer Unit has created	Standard Met	
mplementation		an understanding on how the	1. The Engineer Unit has analysed the mandate,	,
		mission/ mandate is to be	it's given missions in combination with the	
		implemented based on the	Force and Sector Commanders Intent.	
		guidance received from Higher	2. The Engineer Unit has identified all specified	
		HQs. Ref.: UNIBAM 2.3.3.2	tasks and implied tasks and determined all	
			Mission Essential Tasks (Comment: Implied	
			Task: Something that is not specified by higher	
			HQ in the original order that needs to be carried	ł
			out to achieve the mission/implement the	
			mandate. Mission Essential Task: A task that if	
			not included in the plan could cause the unit to	
			fail in its mission/ implement the mandate).	
			3. The unit has determined the assets available	
			to execute the Engineering tasks.	
			4. The unit has identified all limitations	
			(constraints/restraints) or shortfalls to execute	
			Engineer tasks.	
			5. The unit coordinates for necessary supports	
			such as Force Protection, and Transportation	
			support etc with higher headquarters.	
			6. The unit commander has outlined in writing	
			on how he is intending to implement the	
			engineering tasks (Commanders Intent).	
	F 3.1.2	The UN Engineer Unit Commander		
		has developed a plan to effectively	1. The plan has a clear purpose and addresses	
		implement the mission/mandate.	all aspects of the mission/ mandate, higher HQs	
		Ref.: UNIBAM 2.3.3.3	guidance, limitations, and tasks.	
			(Completeness).	
			2. The plan outlines how the Engineer Unit will	
			implement the mission/ mandate in the concept	t
			of operations.	
			3. The plan describes the Combat Engineering	
			Tasks that the Engineer Unit will execute.	

		, , ,		$\overline{}$
			4. The plan describes the Construction	
			Engineering Tasks that the Engineer Unit will	
			execute.	
			5. The plan describes critical timings (when	
			certain actions will be carried out).	
			6. The plan defines crucial decisive	
			geographical locations (where it matters most)	
			where military effects will be achieved based on	
			the understanding of the operations area.	
			7. The plan describes the availability of local	
			engineering resources (feasibility).	
	F 3.1.3		Standard Met	
			The unit commander prioritizes the	
		mitigate unit's shortfalls.	Engineering tasks based on the mission.	
		initigate unit 3 shortians.	The unit commander liaises and coordinates	
			with Force Engineer and Mission Engineers in	
			order to fill the unit's shortfalls for executing	
			given Engineering Tasks.	
			3. Coordinate and plan with entities for	
			detailed activities to fulfill engineering tasks.	
			4. The Unit Commander maintains the	
			information of the database and presents the	
			same to mission leadership.	
F 3.2				
Command & Control				
	F 3.2.1	The Military Engineer Commander	Standard Met	
	. 5.2.1			
	3.2.1	exercises effective command and	1. The unit commander exercises sound and	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer	The unit commander exercises sound and timely decision-making.	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat	The unit commander exercises sound and timely decision-making. Guidance and orders are clear, simple,	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual;	The unit commander exercises sound and timely decision-making. Guidance and orders are clear, simple, concise, and based on developed plans and/or	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual;	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development.	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual;	The unit commander exercises sound and timely decision-making. Guidance and orders are clear, simple, concise, and based on developed plans and/or	
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	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual;	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual;	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual;	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual;	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative.	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative.	
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	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and	
	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and accomplished (conducts briefing, debriefing,	
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	3.2.1	exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and accomplished (conducts briefing, debriefing, and operational rehearsals). 7. The unit commander ensures that the subordinate units/elements have the required	
		exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and accomplished (conducts briefing, debriefing, and operational rehearsals). 7. The unit commander ensures that the subordinate units/elements have the required capabilities to implement that assigned tasks.	
		exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and accomplished (conducts briefing, debriefing, and operational rehearsals). 7. The unit commander ensures that the subordinate units/elements have the required capabilities to implement that assigned tasks. Standard Met	
		exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and accomplished (conducts briefing, debriefing, and operational rehearsals). 7. The unit commander ensures that the subordinate units/elements have the required capabilities to implement that assigned tasks. Standard Met 1. Orders are based on guidance received from	
		exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3 All operations are conducted in accordance with documented orders and are continuously	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and accomplished (conducts briefing, debriefing, and operational rehearsals). 7. The unit commander ensures that the subordinate units/elements have the required capabilities to implement that assigned tasks. Standard Met 1. Orders are based on guidance received from higher HQs (SHQs/FHQs) or situation	
		exercises effective command and control. Ref.: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; UNIBAM 1.3 All operations are conducted in accordance with documented orders and are continuously	1. The unit commander exercises sound and timely decision-making. 2. Guidance and orders are clear, simple, concise, and based on developed plans and/or situation development. 3. The unit commander ensures that all operations of the unit are coordinated and integrated with other UN and Host Nation actors whenever advantageous for a mission/mandate implementation. 4. The unit commander seeks responsibility and is willing to take the initiative. 5. The unit commander ensures unity of command by establishing clear responsibilities and tasks for subordinate units. 6. The unit commander ensures that assigned tasks are understood, supervised, and accomplished (conducts briefing, debriefing, and operational rehearsals). 7. The unit commander ensures that the subordinate units/elements have the required capabilities to implement that assigned tasks. Standard Met 1. Orders are based on guidance received from	

		2. Correct sets of orders (OPORD, FRAGO etc)
		are used, and orders are coordinated with other
		staff functions.
		3. The unit's operations room is set up to
		monitor the unit's daily operational activities
		24/7.
		4. Mobile operation or sub-units operation out
		of the main camp of the unit (e.g. road
		construction) are tracked (waypoints/reporting
		lines/locations) on the Situation Map.
		5. All incoming/outgoing orders are
		documented and filed. (Comment: Conduct a
		spot check.)
		6. The commanding officer and his staff
		continuously monitor and assess the unit's
		operational situation and progress made,
		adjusting the scheme of maneuver, as required.
F 3.2.3	The unit collects, analyses and	Standard Met
	disseminates reports.	Engineer Unit provides comprehensive
	·	reports to higher HQ after completion of each
		task. It should include the latest information
		and an assessment of the incident with
		pictures/sketches in accordance with mission
		SOPs.
		2. The operations (S3) section collects, analyses
		and disseminates operational reports timely to
		higher HQs as per mission-specific SOPs.
		(Location, tasks performed, details of work,
		progress etc).
		3. Reports from subordinated units are
		·
		recorded and transferred to the Operations
		map.
		4. All reporting (including procurement report if
		applicable) must be completed on time.
		5. The EOD team fills out the IED/UXO report
		when applicable. Ref.: UN Peacekeeping
		Missions Military EOD Unit Manual, 1.11 EOD
		Post task procedures, and Annex E.
		6. CET Search Team fills out a comprehensive
		Search Report with correct Grids, Areas, Search
		Methods, Sketches and Findings. This report
		shall be transmitted to CET Search Coordination
		Cell.
F 3.2.4	The unit has established a process	Standard Met
	to continuously improve its	1. The Engineer Unit conducts After-Action
	effectiveness.	Review (AAR) with team members after
		completion of each task and identifies Lessons
		Learned (What worked, what didn't work,
		recommended training, equipment, or supplies
		required).
		2. Sub-unit commanders deliver a debrief to
		the Engineer Unit commander on the result of
		the task execution.
1		tas chedatom

			3. Findings of after-action reviews and
			debriefings are recorded and used to identify
			best practices and make necessary adjustments
			(e.g. revised tactics, techniques and procedures)
			4. Best Practices and Lessons Learned are
			shared with higher HQs for distribution to other
			units.
			5. Performance improvement plans and
			measures taken are recorded and reported to
			higher HQs.
F 3.3			Higher HQs.
Use of force and	F 3.3.1	The unit has implemented	Standard Met
oomphanoo mu	г э.э.1	'	
international human		measures to ensure compliance	1. There is a unit ROE SOP, drawn from the
rights and		-	Force SOP, and this SOP is disseminated to all
humanitarian law.		Mission ROEs	sub-unit commanders.
			2. All unit personnel have been issued with
			mission-specific ROE pocket cards and every
			personnel carries it with him/her. (Comment:
			Spot Check)
			3. Application of ROEs based on the specific
			task and the likely threat scenarios are always
			part of order briefings on all levels.
			4. ROE cards are translated into the mother
			tongue of all personnel.
			5. All applications of the Use of Force (6 points)
			are reported and recorded in the Operations
			Log.
	F 3.3.2	•	Standard Met
		clear understanding of basic ROE	1. Soldiers can explain the principle of Self-
		principles. (Comment: Conduct	Defence.
		Interviews with personnel of all	2. Soldiers can explain the principle of Use of
		ranks.)	Force other than in Self-Defence;
			3. Soldiers can explain the principle of Duty to
			Identify Target(s)-Observe Fire.
			4. Soldiers can explain the principle of Duty to
			Challenge and Warn.
			5. Soldiers can explain the principle of Duty to
			Use Minimum and Proportional Force.
			6. Soldiers can explain the principle of
			Avoidance of Collateral Damage.
			7. Soldiers can explain the principle of Rules
			and instructions to deal with detainees.
	F 3.3.3	The unit has implemented frequent	
		ROE training for all unit personnel.	1. Scenario-based training is conducted based
			on likely mission-specific incidents.
			2. Training is conducted monthly and
			documented (incl. participants).
1			Training is conducted separately for unit key
			leaders/ subordinated commanders and
	E 2 2 A		leaders/ subordinated commanders and soldiers.
	F 3.3.4	The unit upholds human rights and the principles of international law	leaders/ subordinated commanders and soldiers.

		including the Laws of Armed	international law including the Laws of Armed	
		Conflict during the planning and	Conflict into the planning of operations.	
		conduct of operations. Ref.:	2. The unit conducts regular training on Laws of	
		Integrating Human Rights in United	Armed Conflicts, Human rights, and	
		Nations Military Components	international humanitarian laws. (Comment:	
		Guidelines, Chapter 5.	Check with training records (schedule and	
			attendance).)	
			3. The unit personnel exercise individual self-	
			defense in response to a hostile act or	
			demonstrated hostile intent. (Comment: Check	
			against ROE reporting of the unit.)	
			4. If time and circumstances permit, unit	
			personnel attempts to de-escalate the situation,	
			but de-escalation is not required. (Comment:	
			Check against ROE reporting of the unit.)	
			5. There is no record of human rights violations	
			of the unit.	
			6. When unit personnel responds to a hostile	
			act or demonstration of hostile intent, the force	
			used in self-defense is proportional. (Comment:	
			Check against ROE reporting of the unit)	
F 3.4				
Caveats				
F		, , ,	Standard Met	
			1. The Engineer unit commander has never	
		higher HQs.	refused a task or the timely execution of it,	
			which was in line with the SURs (e.g. because of	
			national regulations/ policies.)	
			2. The unit has never imposed limitations or	
			restrictions when conducting or planning for an	
			assigned task (within SUR). 3. The unit has never refused to conduct a task	
			(within SUR)	
			4. The unit or TCC has never requested/	
			informed UNHQs or the Mission that the unit	
			cannot perform a task which was in line with	
			the SUR or the application of UN regulations, procedures and Mission SOPs.	
			5. The unit never acted on national direction or	
			instruction. Ref.: AC2 policy para 53	
			instruction. Ref.: Acz policy para 33	
			6. When receiving instructions from national	
			6. When receiving instructions from national	
			authorities, the unit immediately informed their	
			authorities, the unit immediately informed their United Nations chain of command. Ref.: AC2	
UN Military Engine	er Unit	Function 3: OPERATIONS AND	authorities, the unit immediately informed their United Nations chain of command. Ref.: AC2 policy para 53	nt)·
UN Military Engine	er Unit	Function 3: OPERATIONS AND	authorities, the unit immediately informed their United Nations chain of command. Ref.: AC2	nt):
UN Military Engine	er Unit	Function 3: OPERATIONS AND	authorities, the unit immediately informed their United Nations chain of command. Ref.: AC2 policy para 53	nt):
UN Military Engine Observation & Rec			authorities, the unit immediately informed their United Nations chain of command. Ref.: AC2 policy para 53	nt):

UN Military Engineer Unit Function 4: SUSTAINMENT

Description: The Logistics Staff Section includes a Logistics Officer, logistics staff and a contingent-owned equipment (COE)/finance officer. The section coordinates logistics support for the unit in accordance with MOU arrangements to plan, provision, stock and turnover inventory; replenish supplies and stores; and repair, replace and manage equipment. The section ensures timely maintenance, serviceability and inspection of both contingent-owned and UN equipment in the unit's care. It also manages the unit's financial and accounting transactions. The Logistics Officer is in charge of the Engineer Unit's movement control for in-Mission movement as well as unit rotations and acts as the environmental focal point.

Ref: UUN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual, Chapter 3.2.1; UNIBAM Chapter 4 and the UNMIM Chapter 9 and para 2.14 (Environmental Management)

Sub-Task		it Function 4: SUSTAINMENT Indicators		
Jub Tusk	Number		marcators	Score
F 4.1	itanibei			
Equipment				
readiness and	F 4.1.1	Weapons, ammunition and Personal	Standard Met	
readiness and serviceability		Protective equipment are available and serviceable.	1. All soldiers are equipped with personal weapons, combat helmet (with blue cover) and basic flak jacket. (Comment: Conduct spot checks.)	
			2. Based on the last COE verification inspection 90% or more of ARMAMENTS (as per DOS KPI ME categories) are available and serviceable. Ref.: COE Manual 2020, Chapter 8. (Comment: 10 (>90%); 5 (70-89%); 0	i
			(<69%); and NA (not in MOU).) 3. Armaments are enough to perform ALL assigned tasks without limitation. (Comment: Written comments according evaluator assessment are required.)	
	F 4.1.2	The UN Engineer Unit's vehicles are	Standard Met	
		available and serviceable.	1. The last COE verification inspection has identified that 90% or more of ENGINEERING VEHICLE category (as per DOS KPI ME categories) are available and serviceable.	ì
			 The last COE verification inspection has identified that 90% or more of MATERIAL HANDLING EQUIPMENT category (as per DOS KPI ME categories) are available and serviceable. 	
			3. The last COE verification inspection has identified that 90% or more of TRAILER category (as per DOS KPI ME categories) are available and serviceable.	
			4. The last COE verification inspection has identified that 90% or more of the SUPPORT VEHICLES category (as per DOS KPI ME categories) are available and serviceable.	
			 Vehicles are enough to perform ALL assigned tasks without limitation. (Comment: Written comments according 	

		evaluator assessment are required.)
F 4.1.3	The UN Engineer Unit's	Standard Met
	communication/intelligence related	1. The last COE verification inspection has
	equipment is available and serviceable.	identified that 90% or more of
		COMMUNICATIONS/INTEL category (as per
		DOS KPI ME categories) are available and
		serviceable.
		2. The last COE verification inspection has
		identified the Self Sustainment category of
		VHF/UHF-FM (as per DOS KPI categories)
		available and serviceable.
		3. The last COE verification inspection has
		identified the Self Sustainment category of
		HF (as per DOS KPI categories) are available
		and serviceable.
		4. The last COE verification inspection has
		identified the Self Sustainment category of
		TELEPHONE (as per DOS KPI categories) are
		available and serviceable.
		5. The last COE verification inspection has
		identified the Self Sustainment category of
		IDENTIFICATION (as per DOS KPI categories)
		are available and serviceable.
		6. The last COE verification inspection has
		identified the Self Sustainment category of
		OBSERVATION (as per DOS KPI categories) is
		available and serviceable.
		7. The last COE verification inspection has
		identified the Self Sustainment category of
		NIGHT OBSERVATION (as per DOS KPI
		categories) is available and serviceable.
		8. The last COE verification inspection has
		identified the Self Sustainment category of
		POSITIONING (as per DOS KPI categories) is
		available and serviceable.
		9. Communication/intelligence related
		equipment is enough to perform ALL
		assigned tasks without limitation.
		(Comment: Written comments according
		evaluator assessment are required.)
F 4.1.4	The UN Engineer Unit's Equipment	Standard Met
	supporting assigned task is available and	1. The last COE verification inspection has
	serviceable.	identified that 90% or more of the
		ENGINEERING EQUIPMENT category (as per
		DOS KPI ME categories) are available/
		serviceable.
		2. The last COE verification inspection has
		identified the Self Sustainment category of
		MINOR ENGINEERING (as per DOS KPI
		categories) is available and serviceable.
		3. The last COE verification inspection has
		identified that 90% or more of the
		GENERATOR category (as per DOS KPI ME

		categories) are available/ serviceable.
		4. The last COE verification inspection has
		identified that 90% or more of the
		DEMINING/ EOD category (as per DOS KPI
		categories) are available/ serviceable.
		5. The last COE verification inspection has
		identified the Self Sustainment category of
		EOD (as per DOS KPI categories) is available
		and serviceable.
		6. The last COE verification inspection has
		identified that 90% or more of the WATER
		TREATMENT category (as per DOS KPI ME
		categories) are available/ serviceable.
		7. Equipment for supporting assigned tasks
		is enough to perform ALL assigned tasks
		without limitation. (Comment: Written
		comments according evaluator assessment
		are required.)
F 4.1.5	Unit Equipment for Accommodation and	Standard Met
	Storage is available and serviceable.	1. The last COE verification inspection has
		identified that 90% or more of
		ACCOMMODATION category/ ablution
		facilities (as per DOS KPI ME categories) are
		available and serviceable.
		2. The last COE verification inspection has
		identified the Self Sustainment category of
		ACCOMMODATION (as per DOS KPI
		categories) is available and serviceable.
		3. The last COE verification inspection has
		identified that 90% or more of the STORAGE
		category (as per DOS KPI ME categories) are
		available/ serviceable.
		4. The last COE verification inspection has
		identified that 90% (or more) of TENTAGE
		category (as per DOS KPI ME categories) are
		available and serviceable.
		5. The last COE verification inspection has
		identified the Self Sustainment category of
		ELECTRICAL category (as per DOS KPI
		categories) are available and serviceable.
		6. Accommodation and Storage equipment
		are enough to perform ALL assigned tasks
		without limitation. (Comment: Written
		comments according evaluator assessment
		are required.)
F 4.1.6	The unit has the necessary equipment	Standard Met
	available and serviceable to provide	1. The last COE verification inspection has
	effective camp support.	identified the Self Sustainment category of
		CATERING (as per DOS KPI categories) are
		available and serviceable.
1		2. The last COE verification inspection has
1		identified the Self Sustainment category of
 1		BEDDING category (as per DOS KPI
*		

			categories) are available and serviceable.
			3. The last COE verification inspection has
			identified the Self Sustainment category of
			OFFICE category (as per DOS KPI categories)
			are available and serviceable.
			4. Camp Support equipment are enough to
			perform ALL assigned tasks without
			limitation. (Comment: Written comments
			according evaluator assessment are
			required.)
			5. The last COE verification inspection has
			identified the Self Sustainment category of
			LAUNDRY (as per DOS KPI categories) are
			available and serviceable.
			6. The last COE verification inspection has
			identified the Self Sustainment category of
			CLEANING (as per DOS KPI categories) are
			available and serviceable.
			7. The last COE verification inspection has
			identified the Self Sustainment category of
			FURNITURE (as per DOS KPI categories) are
			available and serviceable.
			8. The last COE verification inspection has
			identified the Self Sustainment category of
			DEFENCE STORES (as per DOS KPI categories)
			are available and serviceable.
			9. The last COE verification inspection has
			identified the Self Sustainment category of
			BASIC FIRE FIGHTING category (as per DOS
			KPI categories) are available and serviceable.
			10. The last COE verification inspection has
			identified the Self Sustainment category of
			FIRE FIGHTING – FIRE DETECTION AND
			ALARM category (as per DOS KPI categories)
			are available and serviceable.
			11. The last COE verification inspection has
			identified the Self Sustainment category of
			WELFARE category (as per DOS KPI
			categories) are available and serviceable.
			12. The last COE verification inspection has
			identified the Self Sustainment category of
			INTERNET ACCESS category (as per DOS KPI
			categories) are available and serviceable.
F 4.2			
Logistic	F 4.2.1	The unit has developed a locistic plants of	Standard Met
Support to		The unit has developed a logistic plan and	
Operations		butlines the logistic support requirements in the order.	1. The logistic support plan of the company is aligned with the Mission support plan (key
		une order.	requirements of UN and national
			responsibility are considered in the own
			plan).
			2. Tasks and responsibilities for the
			provision of logistic support elements are

			identified and outlined in the order.
			(Comment: Logistic Support, Environmental
			Protection and Medical.)
			3. The requirement to maintain adequate
			stock levels is outlined in the order.
			(Comment: POL, water, rations, ammunition,
			Recovery & Maintenance, Material and
			Equipment, Transportation, Medical
			Support.)
			4. The logistic component maintains an
			overview on storage levels of entire unit
			(esp. if temporarily deployed) and identifies
			logistic support requirements.
			5. Supply points and routes are outlined in
			the order.
			6. Logistic report requirements are outlined
	5 4 3 3	-	in the order.
	F 4.2.2	The logistic situation awareness is properly	Standard Met
		established, updated and maintained.	1. A logistic situational report system is
			established.
			2. All logistical situational reports from
			subordinated units are collected and
			analyzed to create logistic situational
			awareness (common logistic picture) of the
			Company.
			3. The support component regularly
			updates the unit commander on the logistic
			situation of the unit.
			4. The support component provides
			recommendations on improvement of the
			logistic situation to the unit commander.
	F 4.2.3	The unit maintains the operational readines	Standard Met
		of its Engineering equipment.	1. The unit conducts pre-operational
			equipment inspections, function tests and
			takes corrective measures to all its
			Engineering (Combat and Construction)
			equipment. (Comment: Check the log
			books for pre-operational inspection.)
			The unit conducts post-task equipment
			maintenance of the special equipment after
			completion of each task. (Comment:)
			(Comment: Check the log books for post-
			task inspection.)
			3. The unit conducts post-task consumable
			replenishment after the completion of each
			task.
			4. The unit's special equipment is always
			ready to be deployed on short notice.
F 4.3			reday to be deployed on short notice.
F 4.3 Sustainment			
Sustannilent	F 4.3.1	Food and water are properly stored and	Standard Met
		maintained.	1. The Company orders the supply of fresh,
		The state of the s	frozen, chilled and dry rations based on the
	1		

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		mission-specific cycle (e.g: 30/60 days) and
		provides them to subordinate units. Ref.:
		UNMIM 9.9.7
		2. Storage for deep freeze (when required),
		cold (7days) and dry food is available at each
		contingent location and food storage
		facilities include appropriate temperature
		monitoring and control devices. Ref.:
		UNMIM 9.9.7
		3. The rations are stored in date order to
		allow for stock rotation.
		4. Food items are separated and segregated
		appropriately in store.
		5. The unit keeps temperature logs and they
		are up to date.
		6. Separate static water storage for drinking
		and bulk water is provided for a minimum of
		three days water per person.
		7. Each person of the Engineer unit receives
		a minimum of 4.5 l of drinking water per day
		and has access to treated bulk water for
		cleaning, shower, ablutions and other uses
		(80 I/ 3 days). Ref.: UNMIM 9.4.3 (Comment:
		Check mission specific standards in the
		Mission Support plan.)
F 4.3.2	The Catering precedures are maintained	Standard Met
F 4.3.2	The Catering procedures are maintained	
	properly.	1. Stock book is kept, and contents are
		accurate.
		2. Catering Officer understands the rations
		demands process and the Ceiling Man-day
		Rate (CMR) allocation of rations.
		3. The Unit conducts Composite Ration
		Packs (CRP) and Bottled water stock checks
		regularly.
		4. The Unit reports stocks replenishment
		requirements in a timely manner.
F 4.3.3	Weapons & ammunition are well	Standard Met
	maintained and stored in proper way.	1. The last COE verification inspection has
		identified that Ammunition is stored in
		accordance with UN standards. Ref.: UN
		Ammunition Manual 1.15.2.1 and Annex C/
		part B (Comment: As identified by the Senior
		Ammunition Technical Officer (SATO).)
		2. Condition and shelf-life of ammunition
		are in accordance with UN standards. Ref.:
		UN Ammunition Manual 1.15.2.1 and Annex
		C/ part C & D. (Comment: Based on ATO
		report as identified by the Senior
		Ammunition Technical Officer (SATO).)
		3. A registry for all ammunition in the
		national language with copies available in
		the mission language is maintained. Ref.: SOP Loss of weapons & ammunition 2019,
		IL CALL Lace at Lucanana V. anamalinitian 7010

		para 13 &14 (Comment: The registry must	\neg
		contain the following categories: Associated	
		ammunition category, Type, Caliber, LOT and	
		batch number, Number of each type,	
		Location, Purpose of Issuing Ammunition,	
		Date and time of Issue.)	4
		4. Monthly reports on the status of their	
		weapons, weapons-related equipment and	
		ammunition IAW the SOP Loss of weapons &	
		ammunition para 19 are issued to the	
		HOMC.	
		5. Any Loss of weapons and ammunition are	
		reported immediately through the chain of	
		command in accordance with mission-	
		specific guidance.	
		6. The unit maintains a registry for each	1
		weapon and weapon related equipment in	
		the national language with copies available	
		in the mission language. Ref.: SOP Loss of	
		weapons & ammunition 2019, para 13 &14.	
		(Comment: The registry must contain the	
		following categories for each weapon of the	
		Battalion: type; make; caliber; serial	
		number; total number of each type; weapon	
		location; user name; reason for issuing; date	
		and time when issued.)	
F 4.3.4	The Eng unit maintains its facilities clean and	Standard Met	
	healthy. (Comment: COE Manual 2020	1. Waste disposal bins are placed at	
	Chapter 3, Annex B.)	appropriate places and adequate in number.	
		2. The Unit has the required Manuals and	
		Guidelines on Hygiene.	
		3. All facilities have hygienic equipment to	1
		keep a clean and healthy environment.	
		4. No open drains in the operating base.	ㅓ
		5. Accommodation, ablution, laundry	4
		-	
		facilities, kitchen& dining hall are clean.	4
		6. The Unit has an assigned hygiene officer	
		who conducts regular hygiene inspections of	
		all facilities (Kitchen, dining hall, office	
		spaces, accommodation, food storage,	
		laundry, ablution) of the Eng Unit and sub-	
		ordinate units. (Comment: Evaluation based	
		on provided records of the inspections by	
		the unit.)	
F 4.3.5	Firefighting measures are well prepared and	Standard Met	
	put in place.	1. All areas (accommodations, stores,	
		workshops, offices, kitchens etc.) meet with	
		and are used in accordance with require Fire	
1			
		·	
		Safety Management regulations and policies.	\dashv
		Safety Management regulations and policies. 2. All personnel received the appropriate	
		Safety Management regulations and policies. 2. All personnel received the appropriate Fire Safety, Prevention, and Fighting Training	
		Safety Management regulations and policies. 2. All personnel received the appropriate	

			conducted and recorded.	
			3. All Fire safety and fighting related	
			equipment, posters/signs, and Personnel	
			Protection Equipment (PPE) in place with	
			evidence of regular checks, tests, and	
			maintenance along with related reports and	
			records.	
			4. All Fire Safety and Prevention measures	
			related to different types of fires in place	
			and recorded.	
			5. There are valid Fire Safety related	
			documentations (Fire Safety, Prevention and	
			Fighting SOP) including Fire Safety Plan, Fire	
			Emergency Evacuation Plan and Immediate	
			Fire Emergency Response Plan.	
			6. Fire Risk Assessments and Fire Safety	
			Inspections for all buildings /locations/ Ops	
			are conducted and documented?	
	F 4.3.6	POL is properly stored and maintained.	Standard Met	
			1. POL storage is provided as per Mission	
			standards and containment basins with	
			enough capacity are placed under all fuel	
			tanks and fuel collection points. Ref.:	
			UNMIM 2.14.5	
			2. Eng Unit maintains records of	
			(daily/weekly/monthly) generator fuel use	
			(in L), ideally via the use of meters, as	
			requested as Mission Support.	
			3. Engineer Unit has sufficient stock levels	
			of spare parts and lubricants for Contingent	
			Owned Equipment and a national support	
			plan is in place to obtain these parts from	
			their nation when required. (Comment:	
			Check if un- serviceable equipment could be	
			linked to lack of spare parts.)	
			4. POL storage and internal distribution	
			within sub-units are defined complies with	
			UN regulations for environmental	
			protection. Ref.: UNMIM 9.4.4 (Comment:	
			Containment basins must be placed under	
			-	
			all fuel tanks, generators, and fuel collection	
F 4.4			points)	
Medical				
	F 4.4.1	The unit has the required levels of	Standard Met	
support	1	equipment and supplies to ensure medical	1. The last COE verification inspection has	
		support Ref.: COE manual Chapter 3 Annex		
		C Sapport New Col mandar chapter 3 Annex	HOSPITAL (level 1) category (as per DOS KPI	
			ME categories) are available and serviceable.	
			2. 60 days of medical supplies and	
			consumables are available. (Comment:	
1			Noods to be sheeked by Madical	
			Needs to be checked by Medical	
			Needs to be checked by Medical professional of the Sector/ Force) 3. Proper stores for consumables and for	

UN Military Engineer Unit - Functions medical equipment are available.

		medical equipment are available.
		(Comment: Is there an AC unit and
		registration for the temperature of drug
		store?)
		4. Medical equipment for assigned task is
		enough to perform ALL assigned tasks
		without limitation. (Comment: Written
		comments according evaluator assessment
		are required.)
		5. The last COE verification inspection has
		identified that 90% or more of MEDICAL
		AMBULANCE category (as per DOS KPI ME
		categories) are available and serviceable.
		6. The last COE verification inspection has
		identified that 90% or more of MEDICAL
		EQUIPMENT category (as per DOS KPI ME
		categories) are available and serviceable.
		7. The last COE verification inspection has
		identified the Self Sustainment category of
		MEDICAL LEVEL 1 category (as per DOS KPI
		categories) are available and serviceable.
		8. The last COE verification inspection has
		identified the Self Sustainment category of
		COMMUNAL FIRST AID category (as per DOS
		KPI categories) are available and serviceable.
		9. The last COE verification inspection has
		identified the Self Sustainment category of
		BUDDY FIRST AID (BFA) category (as per DOS
		KPI categories) are available and serviceable.
		10. The last COE verification inspection has
		identified the Self Sustainment category of
		HIGH-RISK AREAS (EPIDEMIOLOGICAL)
		category (as per DOS KPI categories) are
		available and serviceable.
		11. 100% of unit personnel deployed with a
		first aid kit. (Comment: Conduct spot
		checks)
		12. 100% of tourniquets available in all first
5 4 4 2	Land Action of the control of	aid kits. (Comment: Conduct spot checks)
F 4.4.2	Level 1 of the unit can provide standard	Standard Met
	medical services at a static location. Ref.:	1. Level 1 has a treatment capacity of 20
	COE manual Chapter 3 Annex C.	ambulatory patients per day and a holding
		capacity of 5 patients for up to 2 days.
		2. Level 1 has two medical officers and six
		paramedics/ nurses.
		3. Level 1 maintains records of treated
		personnel and provides referrals (recorded)
		for treatment of personnel at Level 2/3.
		4. Level 1 personnel can name the
		determined higher-level treatment facilities
		identified for the Battalion by the Force
		Medical Officer.
		5. The level 1 conducts routine sick calls and
	L	5. The level 1 conducts routine SICK calls and

		the manages minor sicknesses and injuries
		among personnel for immediate return to
		duty.
		6. The Level 1 provides advice to the
		contingent personnel on disease prevention.
		7. The level 1 provides medical risk
		assessments and contributes to determine
		force protection measures within the area of operation (AOR) of the Company.
		8. The Level 1 has a designated isolation possibility for infectious patients.
		(Comment: Isolation facilities can be in the
5 4 4 3	Land and the same land and street Ath	level 1 or in the camp.)
F 4.4.3	Level 1 provides regular Buddy First Aid	Standard Met
	refresher training to unit personnel.	1. Training is provided at least every 3
		months to all unit personnel and is
		documented (incl. participants). (Comment:
		Training should be conducted during pre-
		deployment training and be recorded.)
		2. Training includes application of
		Tourniquets for Extremity Hemorrhage .
		3. Training includes Wound Packing for Limb
		Injuries not Amenable to Tourniquet
		Application including Application of
		Emergency Pressure Bandages.
		4. Training includes Airway Management
		procedures and techniques.
		5. Training includes areas like Fracture
		Immobilization, Burns, Bites and stings.
		6. Casualty Movement Techniques,
		CASEVAC procedures and request are
		included in the training.
		7. Training on healthcare policies and
		procedures is included.
F 4.4.4	Level 1 is organized, trained and equipped	Standard Met
1	to provide emergency medical services for	1. Level 1 is able to split into two forward
	the unit Ref.: COE manual Chapter 3 Annex	medical teams (1 medical officer and 3
	C	paramedics/nurses in each).
		2. Level 1 emergency resuscitation
		equipment and drugs are prepared, portable
		and transportable by helicopter.
		3. Level 1 equipment includes Fluids, Splints
		and bandages, Surgical sets for minor
		surgical procedures, Field dispensary,
		Stretchers
		4. The level 1 provides (is equipped and
		trained for) casualty collection from the
		point of injury/wounding.
		5. The level 1 provides limited triage and
		stabilization of casualties.
		6. The level 1 prepares casualties for
		evacuation to the next level of medical
		capability or the appropriate level of medical
1	ı	, , , , , , , , , , , , , , , , , , , ,

			facility depending on the type and gravity of
			the injuries.
F 4.5	T		
Environmental	F 4 F 1	The military whit has incolors outed offertive	Chandayd Blat
Management	F 4.5.1	The military unit has implemented effective environmental measures related to Water	1. The unit maintains records of
		and Wastewater management in the	(daily/weekly/monthly) water consumption
		Permanent Operating Base. Ref.: DPKO/DFS Environmental Policy for UN Field Missions,	(in L), ideally via the use of meters. (Comment: Please also note if water meters
		2009.6; DPKO /DFS Environmental	are in place or not.)
		Guidelines for UN Field Missions (2007);	2. The unit maintains records of data on
		DPKO /DFS Waste Management Policy for	(daily/weekly/monthly) water abstraction (in
		UN Field Missions (2015.6).	L), if applicable (e.g. boreholes), ideally via
		014 11clu 14113310113 (2013.0).	the use of meters. (Comment: Please add
			the frequency of records in the Comment
			field e.g. quarterly.)
			3. The unit reports data on water
			consumption and/or abstraction (in L) to
			Mission Support, as per the requested
			frequency.
			4. The unit demonstrates the
			implementation of water conservation
			measures (harvest water, use treated
			wastewater), as per Mission Support
			Directive. (Comment: List examples of best
			practices implemented.)
	F 4.5.2	The military unit has implemented effective	Standard Met
		environmental measures related to solid	1. The unit maintains records
		and hazardous waste management in the	(daily/weekly/monthly) of the amount of
		Permanent Operating Base. Ref.: DPKO/DFS	general waste produced (in Kg), as
		Environmental Policy for UN Field Missions,	requested by Mission Support.
		2009.6; DPKO/DFS Environmental	2. The unit reports data on the generation
		Guidelines for UN Field Missions (2007);	of general solid waste (in kg) to Mission
		DPKO/DFS Waste Management Policy for	Support, as per the requested frequency.
		UN Field Missions (2015.6).	3. The unit demonstrates proper
			segregation of general waste in color-coded
			bins (e.g. composting, paper, plastic, metals,
			etc).
			4. The unit demonstrates proper hazardous
			waste management practices (eg: hazardous
			waste inventory, proper handling, and
			storage in place), as per Mission Support
			Directive.
			5. The unit demonstrates proper
			management of medical waste at Level 1
			hospitals (incl. medical waste segregation
			and incineration process inappropriate
			medical incinerator), as per the Mission
			Support Directive.
			6. The unit demonstrates efforts to take
			action on waste management of non-
			functional COE and expired materials by
			actively communicating with the concerned
	<u> </u>	<u> </u>	Mission units (COE, PDU, Environment, FMU,

repatriation of non -functional COE.	
F 4.5.3 The military unit has implemented effective Standard Met	
environmental measures related to energy 1. The unit maintains records of	
management in the Permanent Operating (daily/weekly/monthly) electricity dema	nd
Base. Ref.: DPKO/DFS Environmental Policy (in Kwh), ideally with the use of meters,	as
for UN Field Missions, 2009.6; DPKO /DFS requested by Mission Support.	
Environmental Guidelines for UN Field 2. The unit maintains records of	
Missions (2007). (daily/weekly/monthly) generator fuel u	se
(in L), ideally via the use of meters, as	
requested as Mission Support.	
3. The unit reports data on electricity	
demand (in Kwh) and generator fuel use	(in
L) to Mission Support, as per the reques	-
frequency.	
4. The unit demonstrates containment	
basins with berms are positioned under	fuel
storage, generator sets, and used POL	
storage to prevent soil contamination, o	il
separators are provided to the basins ar	d to
concrete floors beneath the generators.	
5. Emergency containment measures at	e
immediately undertaken, using spill kits	
appropriate, to reduce as much as	
practicable discharges to the environme	nt,
and any such incidents are immediately	
reported to Mission Support/Environme	nt
Unit.	
6. The unit demonstrates best practices	to
reduce fuel and electricity consumption	and
realize energy efficiencies (eg: generato	
synchronization, reduced vehicle idling,	
turning off ACs, Replacement of	
conventional bulbs with LED). (Commer	t:
List the examples of actions.)	
F 4.5.4 The military unit has implemented effective Standard Met	
environmental measures related to overall 1. A focal point is appointed and condu	ts
environmental management in the site inspections regularly.	
Permanent Operating Base. Ref.: 2. The unit implements the	
DPKO/DFS Environmental Policy for UN Field recommendations from the environmen	tal
Missions, 2009.6; Draft DPKO/DFS inspection report in due time.	
Environmental Guidelines for UN Field 3. The unit complies with the duties of	
Missions (2007); DPKO /DFS Waste peacekeepers as stated in the UNMIM	
Management Policy for UN Field Missions (United Nations Military Unit Manual).	
(2015.6). (Comment: UN Military units duties are:	1.
Bring empty (plastic) water bottles used	
during patrols back to camps for proper	
disposal (Do not throw away bottles/wr	ips
directly into nature). 2. Avoid bringing to	the
area of operations plastic cutlery as wel	as
using it 3. Undertake energy conservation	n
measures: switch off all appliances, light	s,
and air conditioning when not in use. 4.	
Avoid vehicle idle time as much as possi	ole.

	5. Undertake water conservation measures,
	especially in water-scarce areas. 6. Do not
	bring any plant/seeds from the country of
	origin which is not endemic to the country of
	deployment, and vice versa. 6. Do not
	acquire wild plants and animals, alive or
	dead. Avoid using charcoal. 7. Know where
	the cultural, religious and historical sites are,
	and behave according to local sensitivities.)
	4. The unit demonstrates the use of the
	STOP tool (Stop, Think, Observe, Plan) when
	undertaking a new task to assess and
	mitigate risks to the environment.
	(Comment: Explanation: *Stop before you
	start a new task/operation. Think, does the
	task involve issues (e.g. fuels, water, waste)
	that could affect the environment? Observe,
	the environment around you (e.g. drains,
	streams, trees). Plan, the task to avoid any
	damage to the environment.)
	5. In case of a site closure, the unit
	undertakes the necessary clean-up activities,
	with Mission Support advice, to leave the
	premises and physical environment in the
	conditions it was provided to them" as per
	COE Manual language. (Comment: If this
	cannot be evaluated score as Non
	Applicable.)
	6. The unit conducts regular environment
	awareness briefings (every 3 months).
UN Military Engir	neer Unit Function 4: SUSTAINMENT (Overall Assessment):
Observation & Re	ecommendations

UN Military Engineer Unit Function 6: COMMUNICATION

Description: Engineer Unit's Headquarters Support Platoon operates under the Logistics Staff Section and it includes a Signal Section. Signal section provides suitable equipment for internal Signal, telephone Signal from the UN mission to the respective countries and access to Email, Internet for personal, office or welfare purposes is available in the Engineer Unit.

-		nction 6: COMMUNICATION	Indicators	Seen
Sub-Task	Standard Number	Standards	Indicators	Scor
	Number			
6.1		T		
Planning &	F 6.1.1	The unit has established a	Standard Met	
Communications architecture	0.1.1	communications architecture including enabling infrastructure for internal communications with subordinate and supporting units.	1. The Communications component is trained and organized to support the communication infrastructure besides being proficient in basic military tasks. Ref.: Subjective assessment of evaluators. 2. The communication architecture is aligned with	
		units.	the tactical deployment and is designed to cater for all operational tasks and contingencies. (Comment: This means that for all possible operational scenarios, the communication plan ensures effective communication with primary, alternate, contingency and emergency networks clearly defined.)	
			3. The communications architecture is coordinated with higher HQs and describes the integration of the unit's communication equipment with higher, lower and support elements as well as other Mission components.	
			4. The communication architecture supports command and control of the entire unit, situational awareness, secure communications with Higher HQs, and coordination with neighboring units and internally.	,
			5. The internal communication system incorporates telephonic and data communication between static elements.	
			6. Radio communications is used for Command & Control of mobile operations based on identified Primary, Alternate, Contingency, and Emergency Networks.	
			7. The communications architecture ensures availability of enabling infrastructure such as repair facilities and battery charging devices.	
	F 6.1.2		Standard Met 1. Signal Instructions are issued clearly to include details of code words, radio net diagrams and frequency management issues during operations and static duties.	j
			2. All command relationships of units conducting the operation are defined in the order.3. Available communications networks to conduct the operation are defined.	

			4. Primary, alternative (including SATPHONE),	
			command and emergency means of communication	
			during each phase of an operation and for static	
			duties are defines in the order.	
			5. Mitigation measures for communication	
			disruptions are outlined in the order.	
			6. The communication plan describes all available	
			existing communication means.	
			7. Frequencies & Call signs have been established	
			for radio communications of all units.	
	F 6.1.3	Signal component supports	Standard Met	
	F 0.1.3	planning and conduct of all unit	The Signal component monitors radio traffic	
		r –		
		operations. (Comment: Can	during the operations and maintain log to that effect	
		only be valuated if a planning	using existing radio sets.	
		process is conducted during the	2. The Signal component develops communications'	
		evaluation.)	estimate of the own unit that includes details of	
			equipment (spares and reserves) that are available.	
			3. The Signal component evaluates the	
			supportability and feasibility of the signal plan for	
			each proposed course of action.	
			4. The Signal component develops a signal support	
			plan for the approved operations plan.	
			5. The Signal component consults with higher,	
			lower, and support elements and other mission	
			components to ensure effective communications	
			during operations.	
			6. The Signal component manages tactical radio and	
			telephone networks.	
F 6.2			·	
Support to				
Operations	F 6.2.1	The Engineer unit has	Standard Met	
•		established an effective	1. The unit operates telephonic communications to	
		telephone communications	all other static locations of unit. It includes unit's	
		network. Ref.: UN COE manual	HQs, stationary elements (such as offices,	
		Chapter 3, Annex B.	workspaces, observation posts and guard posts) and	
		,	sub-units located at the main base camp.	
			2. The unit operates and maintains a switchboard.	
			3. All telephone lines of the unit are operational	
			24/7.	
	F 6.2.2	The Engineer unit has	Standard Met	
	1 0.2.2	established and maintains	1. The unit operates & maintains a VHF/UHF	
		effective radio communications	command and control net, down to the sub-unit	
			command and control net, down to the sub-unit	
			/continue/council lovel	
		networks. Ref.: UN COE manual	(section/ squad) level.	
			2. The unit operates & maintains one VHF/UHF/HF	
		networks. Ref.: UN COE manual	2. The unit operates & maintains one VHF/UHF/HF administrative net.	
		networks. Ref.: UN COE manual	The unit operates & maintains one VHF/UHF/HF administrative net. During tactical and mobile operations the unit	
		networks. Ref.: UN COE manual	The unit operates & maintains one VHF/UHF/HF administrative net. During tactical and mobile operations the unit commander can communicate with sub-units and	
		networks. Ref.: UN COE manual	2. The unit operates & maintains one VHF/UHF/HF administrative net. 3. During tactical and mobile operations the unit commander can communicate with sub-units and sub elements which are unable to communicate via	
		networks. Ref.: UN COE manual	The unit operates & maintains one VHF/UHF/HF administrative net. During tactical and mobile operations the unit commander can communicate with sub-units and sub elements which are unable to communicate via telephone and beyond the range of VHF/UHF- FM	
		networks. Ref.: UN COE manual	2. The unit operates & maintains one VHF/UHF/HF administrative net. 3. During tactical and mobile operations the unit commander can communicate with sub-units and sub elements which are unable to communicate via	
		networks. Ref.: UN COE manual	The unit operates & maintains one VHF/UHF/HF administrative net. During tactical and mobile operations the unit commander can communicate with sub-units and sub elements which are unable to communicate via telephone and beyond the range of VHF/UHF- FM	
		networks. Ref.: UN COE manual	2. The unit operates & maintains one VHF/UHF/HF administrative net. 3. During tactical and mobile operations the unit commander can communicate with sub-units and sub elements which are unable to communicate via telephone and beyond the range of VHF/UHF- FM base station communications.	
		networks. Ref.: UN COE manual	2. The unit operates & maintains one VHF/UHF/HF administrative net. 3. During tactical and mobile operations the unit commander can communicate with sub-units and sub elements which are unable to communicate via telephone and beyond the range of VHF/UHF- FM base station communications. 4. Radio operators are able to site, establish and	

		5. Unit provides a command and control net using	
		non-vehicular mounted HF communications	
		equipment.	
		6. Communication channels are operational at all	
		times (24/7) within the unit.	
		7. Rear linked communications between the	
		contingent and the home country is established and	
		includes telephonic communications.	
F 6.2.3 Per	rsonnel of the Engineer unit	Standard Met	
con	nducts effective radio	1. Radio communication procedures are outlined in	
con	nmunications	a unit SOP and aligned with UN procedures.	
		(Comment: The SOP includes guidelines for	
		transmitting phonetic alphabet and numbering and	
		procedure words.)	
		2. Radio communications with higher HQs is	
		conducted in English based on UN procedures.	
		3. Messages transmitted over radio use defined	
		procedure words.	
		4. Radio operators transmit messages that are clear	
		and brief.	
		5. Radio checks are conducted before conduct of	
		each task with all stations involved in the task.	
		6. Orders to conduct tasks (verbal or written)	
		include always Primary, alternative, command and	
		emergency frequencies ((including SATPHONE).	
		7. Officers and radio operators are able to use basic	
		radio equipment in service in their unit and to	
		operate them according to the internationally	
		recognized procedure.	
UN Military Engineer Unit Fu	unction 6: COMMUNICAT	ΓΙΟΝ (Overall Assessment):	
Observation & Recommenda	ations		

UN Military Engineer Unit Function 7: TRAINING

Description: Training for military units is broadly separated in the United Nations into Pre-Deployment Training (PDT) and In-Mission Training. During PDT TCCs must train their personnel to operate as a UN Engineer Unit in the specific UN operating environment to which they will deploy and to UN standards. This means that TCCs must re-orientate the operational capabilities of a company, within the parameters set by the UN, so that it can operate in a peacekeeping environment. The focus of In-Mission Training is on Mission -specific induction training and the maintenance of capabilities and skills. The current function is focused on the training to be conducted during the deployment to a UN PKO.

Ref: UNIBAM Chapter 5 and Operational Readiness Preparation (ORP) Guidelines 2018.

Sub-Task	Ť	t Function 7: TRAINING Standards	Indicators	Scor
Jub Tusk	Number			500.
7.1	rtainibei			
raining plans				
nd	F 7.1.1	The unit has facilities, resources, and	Standard Met	
locuments		training related documents to conduct	1. The unit has the infrastructure to facilitate	
		regular training and rehearsals in the	contingent training (classrooms and	
		mission area. Ref.: UNIBAM Annex H	appropriate IT infrastructure).	
			2. The unit maintains a current record of all	
			training policies, SOPs, guidelines applicable to	
			the contingent, including UN Training Policy	
			and Guidelines, FC's Training Directive,	
			FHQ/SHQ training documents, and instructions.	
			Ref.: 2010 Policy: Training for all UN	
			Peacekeeping Personnel; 2019 Guidelines:	
			Design, Delivery and Evaluation of Training	
			(Training Cycle); 2015 Policy: Operational	
			readiness Assurance and Performance	
			Improvement; 2018 Guidelines: Operational	
			Readiness Preparation for Troop Contributing	
			Countries in Peacekeeping Missions.	
			3. The unit has a written training program in	
			line with guidance/FC Training Directives.	
			4. The unit is aware of UN websites/resource	
			hub for PKO training manuals and can access to)
			the same and developed a training plan based	
			on referenced documents.	
			5. Resources are planned and assigned to the	
			unit to conduct training and rehearsals and	
			there is a reporting mechanism in place and	
			used.	
	F 7.1.2	The unit has developed training plans to	Standard Met	
		improve on identified performance	1. The UN unit is keeping records of After	
		shortfalls. Ref.: 2019 Guidelines: Design,	Action Reviews, in-mission evaluations,	
		Delivery and Evaluation of Training	Performance Improvement Plans and	
		(Training Cycle); 2015 Policy: Operational	Instructions from SHQ/FHQ.	
		readiness Assurance and Performance	2. Training plans are aligned with Mission	
		Improvement) 2019 Guidelines:	specific guidance (SOPs, FC's Training directive	
		Combined Military and Police	and FHQ/SHQ instructions).	
		Coordination Mechanisms in Peace	3. Previous observations/ recommendations of	f
		Operations	Pre-deployment visits and in-mission	

			T
			evaluations are incorporated into training
			plans to improve on identified shortfalls.
			(Comment: Note that for units that have
			received a Pre-Deployment Visit before their
			deployment/ rotation the contingent
			commander should also have knowledge on
			provided improvement recommendations (not
			mandatory).)
			4. Training plans consider training
			recommendations of the unit's performance
			improvement plan.
			5. Training plans are based also on inputs from
			all staff functions of the company to
			synchronize training with operational activities.
			6. Training plans have been coordinated with
			Force/ Sector HQ to ensure that temporary
			capability reduction during scheduled training
			does not degrade mission performance and
			have been approved by the Sector HQ.
F 7 2			liave been approved by the sector rig.
F 7.2 Conduct			
Conduct,	F 7.2.1	The unit has effectively conducted	Standard Met
	r /.Z.1	· ·	
and Reporting		Awareness Training.	1. A plan has been developed to ensure that
of training			100% of unit members completed the
activities.			induction in the form of awareness generation.
			(Comment: Awareness generation sessions are
			to be held periodically as refreshers or to
			emphasize some issues of importance to
			missions.)
			2. Attendance of unit personnel at mission-
			specific induction training has been recorded
			by name and 90% of unit personnel have
			attended mission-specific induction in the form
			of awareness generation. (Comment:
			Awareness generation sessions are to be held
			periodically as refreshers or to emphasise
			some issues of importance to missions.)
			3. There is a training plan in place to meet
			documented induction training shortfalls.
			4. A plan has been developed to periodically
			train and inform the personnel on the changing
			threat scenarios. Ref.: UN Force Protection
			Guidelines
	F 7.2.2	The unit conducts regular refresher for all	Standard Met
	. ,	unit members. Ref.: 2019 Guidelines:	1. 90% of unit personnel have received
			I -
		Design, Delivery and Evaluation of Training	refresher training (and passed the associated
			refresher training (and passed the associated test of objectives) at least once per 6 months.
		(Training Cycle); 2015 Policy: Operational	test of objectives) at least once per 6 months.
		(Training Cycle); 2015 Policy: Operational readiness Assurance and Performance	test of objectives) at least once per 6 months. (Comment: Needs to be documented. Check
		(Training Cycle); 2015 Policy: Operational	test of objectives) at least once per 6 months. (Comment: Needs to be documented. Check training plan and training log book.)
		(Training Cycle); 2015 Policy: Operational readiness Assurance and Performance	test of objectives) at least once per 6 months. (Comment: Needs to be documented. Check training plan and training log book.) 2. 1 or 2 Buddy First Aid, CASEVAC, and Heli
		(Training Cycle); 2015 Policy: Operational readiness Assurance and Performance	test of objectives) at least once per 6 months. (Comment: Needs to be documented. Check training plan and training log book.) 2. 1 or 2 Buddy First Aid, CASEVAC, and Heli Evacuation procedures courses every six
		(Training Cycle); 2015 Policy: Operational readiness Assurance and Performance Improvement.	test of objectives) at least once per 6 months. (Comment: Needs to be documented. Check training plan and training log book.) 2. 1 or 2 Buddy First Aid, CASEVAC, and Heli Evacuation procedures courses every six months. Ref.: 2020 Policy: Casualty Evacuation
		(Training Cycle); 2015 Policy: Operational readiness Assurance and Performance Improvement.	test of objectives) at least once per 6 months. (Comment: Needs to be documented. Check training plan and training log book.) 2. 1 or 2 Buddy First Aid, CASEVAC, and Heli Evacuation procedures courses every six

UN Military Engineer Unit - Tasks

UN Military Engineer Unit Task 2: Obstacle Crossing (Combat Engineering Task)

Description: The unit is tasked to construct standard / improvised crossing over obstacles using expedients in a given time. It is basically to evaluate if the unit is capable to construct a crossing using the available resources like the earth moving equipment. Bailey bridge construction may be evaluated only if the unit has the bailey bridge capability. In this case, the unit is considered for establishing an entry and exit approach for men and vehicles across a water obstacle.

Ref: UNMUM Engineering Unit and CET Search and Detect Manual 2.2 and Appendix 2 to Annex E

Sub-Task	Standard	Standards	Indicators	Scor
	Number			
Γ 2.1				
Planning and				
Preparation	T 2.1.1	Commander performs enginee	r Standard Met	
•		appreciation for the task.	1. Conduct of quick assessment on the obstacle: (kind	
			of obstacle, location, access the terrain, soil, time limit	
			for crossing obstacle etc)	
			2. Assess the time and resources required for the task.	
			3. Analyze the own capability to execute the task	
			4. Request the additional support (DMS, Force Engineer	-
			etc)	
			5. Assess the mobilization and deployment	
			requirements.	
			6. Tactical movement plan to the obstacle.	
			7. Asses the crossing for temporary or permanent.	
			(standard or improvised)	
	T 2.1.2	Obstacle crossing task plan is	Standard Met	
	. 2.1.2	prepared.	1. An obstacle crossing plan is prepared (with a sketch,	
		prepared.	map, all calculations of the required equipment etc).	
			2. Ensures the planning is in line with task order issued	
			by higher HQ.	
			3. Planning is clearly outlined the specific period for the	
			different stages of the crossing.	
			4. Planning of the special requirements, support	
			arrangement, and liaison instruction is included.	
			5. Logistic supply plan (supply of construction materials	'
			fuel, spare parts for the equipment, also include food	
			and water supply for the troops).	
			6. Security plan and MED/CASEVAC plan.	
			7. Planning of procurement of the necessary materials	
			by the unit if applicable.	
	T 2.1.3	Grouping (assign sub-units to	Standard Met	
		fulfill the task) is organized	1. All types of safety instructions must be issued to	
		based on the envisaged task.	every individual and they are ensured during the entire	
			execution of the task.	
			2. Grouping of the sub-units with their appropriate	
			equipment (site preparation, site survey, earth work,	
			bridge construction etc)	
			3. Mobilization – able to mobilize heavy equipment to	
			the site.	
			4. Store management and proper procurement process	
			if applicable and required.	
			5. Assign/coordinate the Force Protection party.	

UN Military Engineer Unit - Tasks

		Oit itilitally Ell	gineer onit - rasks
			6. Logistics support and support arrangement coordination.
			7. Commanders of the sub-units conduct spot checks
			for all the equipment before conducting task execution.
	T 2.1.4	The unit commander issues the	
	1 2.1.4	order for the construction of	1. Order describes a clear and concise statement of
		obstacle crossing.	what the unit must accomplish.
		obstacle crossing.	2. The order describes the specific activity with a
			specific timeframe to be accomplished by each sub-unit.
			3. The order includes the requirement of resources
			(store & manpower with locations) including transport
			requirement.
			4. Support arrangements are coordinated with higher
			HQs.
			5. The order describes Command and control measures
			including reporting instructions and communication
			methods.
			6. Logistical concerns/resupply of the materials and
			other supply considerations are instructed.
T 2.2			
Conduct of Task	T 2.2.1	Commander exersices effective	Standard Met
Task	1 2.2.1	command and control.	1. Commanders react quickly to situation developments
		continuand and control.	and report the progress to a higher HQ.
			2. Safety procedures must be ensured at all times.
			3. Proper procedures of the procurement must be
			followed as instructed.
			4. Commander ensures all coordination for special
			requirements, support arrangements for execution of
			the task.
			5. Force protection is maintained at all times during the
			execution of the task.
	T 2.2.2	Obstacle crossing operation is	Standard Met
	1 2.2.2	conducted as planned.	1. A topographic survey for ground leveling at the
		conducted as planned.	crossing site is carried out and GPS is used to mark maps
			and layout sketches.
			2. A site survey is conducted, and the survey team
			estimated earthwork requirements for obstacle
			crossing.
			3. Ensure the proper earthmoving task execution
			including earth moving plants, entry and exit
			approaches with appropriate equipment (dozer,
			loaders, excavators etc).
			4. Construction of the crossing (bridging, or river
			crossing etc) is executed timely.
			5. The Unit is sufficiently self-sustained to undertake
			tasks and has the ability to construct crossing using
	T 2 2 2	The obstacle execcine is	appropriate stores and expedients.
	T 2.2.3	The obstacle crossing is	Standard Met 1. The obstacle crossing task is completed as planned.
		accomplished effectively.	1. The obstacle crossing task is completed as planned.
			2. Force protection measures provided / to be ensured
			while on move and execution of tasks.
			3. Spot check on all equipment is conducted and proper

UN Military Engineer Unit - Tasks

		Ort William & Engineer Office Tasks
		reporting must be ensured.
		4. Movements are conducted through obstacle crossing
		safely.
		5. Proper handover to the authorities is conducted.
UN Military E	ingineer Ur	nit Task 2: Obstacle Crossing (Combat Engineering Task) (Overall Assessment
Observation	& Recomm	endations

UN Military Engineer Unit Task 3-1: CONDUCT REACTIVE SEARCH TASKS IN SUPPORT OF EOD UNITS (Improvised Explosive Device Disposal, IEDD)

Description: In order to return a scene of EOD action to an explosively safe state, CET Search units are able to clear a safe path for IED Operator(s) to gain access to a known or suspected IED. This task is generally performed where the area of unproven terrain to be traversed exceeds the capability of on-scene IEDD Unit(s).

Ref: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual, Annex B and Annex E; IMAS 10.20, Safety & occupational health - Demining worksite safety, Chapter 5.1; IMAS 08.40 Making mine and ERW hazards.

Sub-Task	Standard Number	Standards	Indicators	Score
T3-1.1				
Planning and				
Preparation	T 3-1.1.1	Unit commander plans and	Standard Met	
		prepares for the task. Ref.: UN	1. Commander obtains all available information (from	
		Military Engineer Unit and Counter	CET Cell or Units C2 element) related to the task	
		Explosive Threat (CET) Search and	including the nature of known, or suspected threat.	
		Detect Manual, Annex B.	2. Commander plans and prepares for the execution	
			of the task. (What effects the Search Team is expected	
			to achieve, appropriate search capability to counter	
			assessed threats, minimize the disruption and	
			damage, and proper TTP.)	
			3. Calculates time and resources requirements	
			(equipment and manpower).	
			4. Defines search capabilities and systematic	
			procedures and techniques. (All arms or Specialist	
			Search). Ref.: Annex B.6.1-3	
			5. Complete all preoperational equipment inspections, state of equipment, function tests, and	
			take necessary corrective actions.	
			6. Commander coordinates with other agencies and	
			works in close coordination with the Search Advisor.	
			7. Analyze the own capability to execute the task and	
			request additional support if needed. Commander	
			verifies required supporting elements (EOD, Military	
			working dogs, Counter Radio-controlled electronic	
			warfare, IRS, MP, Force Protection etc).	
	T 3-1 1 2	Unit commander gives orders to	Standard Met	
	1 3 1.1.2	conduct reactive search tasks in	1. The order describes a clear and concise statement	
		support of the EOD Unit.	of what the unit must accomplish.	
		Support of the Lob office	The order describes the specific activity with a	
			specific timeframe to be accomplished by each sub-	
			unit.	
			3. Requirement of resources (store & manpower with	
			locations) including transport requirement.	
			4. Command, control, and communications to be	
			employed including coordination with supporting	
			elements (FP, EOD etc.)	
			5. Security plan and MED/CASEVAC plan.	
			6. Logistical concerns/resupply of the materials and	

Т 3-1.:	TTPs and SOPs to be reviewed and rehearsed.	other supply considerations are instructed. Standard Met 1. Vulnerable point check drills. 2. Methods of marking searched areas. 3. Contact/Ambush Drills. 4. Procedures for collecting forensic evidence. 5. Procedures for treating casualties and CASEVAC. 6. Location and route to RV with the outer Cordon/FP
		Methods of marking searched areas. Contact/Ambush Drills. Procedures for collecting forensic evidence. Procedures for treating casualties and CASEVAC. Location and route to RV with the outer Cordon/FP
		Methods of marking searched areas. Contact/Ambush Drills. Procedures for collecting forensic evidence. Procedures for treating casualties and CASEVAC. Location and route to RV with the outer Cordon/FP
		 Contact/Ambush Drills. Procedures for collecting forensic evidence. Procedures for treating casualties and CASEVAC. Location and route to RV with the outer Cordon/FP
		4. Procedures for collecting forensic evidence. 5. Procedures for treating casualties and CASEVAC. 6. Location and route to RV with the outer Cordon/FP
		5. Procedures for treating casualties and CASEVAC.6. Location and route to RV with the outer Cordon/FP
		6. Location and route to RV with the outer Cordon/FP
		,
		commander.
		7. Disposition and means of requesting support from
		QRF, CASEVAC or other mission enablers.
T3-1.2		QRF, CASEVAC OF OTHER MISSION ENABLERS.
Conduct of		
Task in 3-1.2.:	The search team executes	Standard Met
support of	necessary coordination. Ref.: UN	1. Team Commander issues confirmatory orders to
EOD units	1	the Search Team at the scene if necessary.
	Explosive Threat (CET) Search and	2. Execute the search task using a four-stage
	Detect Manual, Annex B.	framework (Secure ICP, isolate and dominate; execute
	,	the search; and secure and hand over.). Ref.: Annex
		B.5.1-4
		3. Adhering to all relevant TTPs and SOPs consistent
		with known threat levels, FP measures and ROE.
		4. The team commander liaises with the Incident
		Commander and EOD Team Leader to gather further
		relevant information related to the task.
		5. Provide Incident Commander, EOD Team Leader
		with situational awareness regarding task progress
		and the estimated time of completion of the task.
		6. The unit is sufficiently self-sustained to provide
		maintenance, supply, and other services during the
		assigned task.
		7. Force protection is maintained at all times during
		the execution of the task.
3-1.2.2	2 Establishment of a Secure the	Standard Met
	Incident Control Point (ICP) Ref.:	1. The Search team Commander is able to identify,
	IMAS 10.20, Safety & occupational	determine and establish ICP where has been
	health - Demining worksite safety,	previously secured and searched.
	Chapter 5.1	2. Provide a clearly visible separation of hazardous
		areas (including demolition danger areas), cleared
		areas, and useable areas. Ref.: IMAS 10.20, Safety &
		occupational health - Demining worksite safety,
		Chapter 5.1
		3. Control the movement of search worksite staff and
		visitors (including members of the public) at the
		worksite. Ref.: IMAS 10.20, Safety & occupational
		health - Demining worksite safety, Chapter 5.1
		4. Safety measures are being applied and all findings
		are documented accordingly.
3-1.2.3	Isolate and Dominate the Target	Standard Met
	(Area/Point/Building) and Execute	1. The target area must be isolated from outside
	the Search	influences by dominating the surrounding terrain.
		2. Safe and hazardous areas within the worksite shall
		be separated by providing clear and consistent

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	marking. Ref.: "IMAS 08.40 Making mine and ERW
	hazards" for details of hazard marking.
	3. Search member team should be directed to a
	segregated area, be searched away from others and
	from outside interference and nobody gets in or out
	when the search takes place.
	4. The effects of an explosion should be considered in
	isolating the target area.
	5. TCC uses its own Search TTPs. Search capabilities
	must be: - Effective, efficient, and safe leading to the
	detection and location of threats; - In line with the
	mission mandate; and In line with search principles
	(systematic, flexible, focused, and safe). Ref.: Annex B.
	6. Search team Commander handed over to EOD
	team Commander for further activities. (Comment: A
	searched person is allowed to enter a controlled area
	and must remain supervised to be considered
	"searched". A searched building must have its access
	points controlled to be deemed "searched and
	secure". A searched route must be under continuous
	surveillance to be deemed "searched and secure". If a
	target has been searched, and after that is no longer
	under control it must be considered "unsearched and
	unsecured".)
	7. The search Team remains on scene to provide
	continued Search support or returns to base as the
	tactical situation and direction with CET Coordination
	Cell dictate.
	8. CET Search Team fills out a comprehensive Search
	Report with correct Grids, Areas, Search Methods,
	Sketches, and Findings. This report shall be
	transmitted to CET Search Coordination Cell.
N Military Engineer Unit Task 3-1: 0	CONDUCT REACTIVE SEARCH TASKS IN SUPPORT OF EOD UNITS
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Observation & Recommendations	
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UN Military Engineer Unit Task 3-2: CONDUCT PREVENTIVE SEARCH TASKS IN SUPPORT OF FREEDOM OF MOVEMENT (FoM)

Description: Search Units can be deployed to conduct preventive, planned searches along routes, on vulnerable points (VP) and vulnerable areas (VA) as well as within buildings and other infrastructure. The Search Task can be executed with or without the support of other specialist assets (EOD, MWD, MP, etc.), although it is recommended to have at least an EOD unit on standby.

Ref: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual, Annex B and Appendix 2 to Annex B; IMAS 10.20, Safety & occupational health - Demining worksite safety, Chapter 5.1; IMAS 08.40 Making mine and ERW hazards.

UN Military E (FoM)	ngineer U	nit Task 3-2: CONDUCT PREVEN	TIVE SEARCH TASKS IN SUPPORT OF FREEDOM OF MOVEMI	ENT
Sub-Task	Standard Number	Standards	Indicators	Score
T3-2.1				
Planning and				
	T3-2.1.1	prepares for the task. Ref.: UN Military Engineer Unit and	Standard Met 1. Commander obtains all relevant information (from CET Cell or Units C2 element) to the known or suspected threat including possible hotspots, danger area (DA), and adversary TTPs. 2. Terrain and Route analysis of routes along which explosives (IED. ERW, etc) have been or may be deployed to identify VPs and VAs.)
			3. Commander plans and prepares for the execution of the task. (What effects the Search Team is expected to achieve, appropriate search capability to counter assessed threats, minimize the disruption and damage, and proper TTP.)	
			4. Calculates time (critical timing to be met) and resources requirements (equipment including the use of heavy Engineering assets and manpower; and consideration of assigning temporary composite Route Clearance Packages (RCP) or Dedicated RCP Units as per high commanders directives). Ref.: Appendix 2 to Annex B.3.	
			5. Defines search capabilities and systematic procedures and techniques. (All arms or Specialist Search). (Comment: Annex B.6.1-3)	
			6. Complete all preoperational equipment inspections, state of equipment, function tests, and take necessary corrective actions.	
			7. Commander coordinates with other agencies and works in close coordination with the Search Advisor.	
			8. Analyze the own capability to execute the task and request additional support if needed. Commander verifies required supporting elements (EOD, IEDD, Military working dogs, Counter Radio-controlled electronic warfare, IRS, MP, Force Protection etc)	
	T3-2.1.2	to conduct preventive search	Standard Met 1. The order describes a clear and concise statement of what the unit must accomplish.	
			2. The order includes terrain and route analysis and identified potential VPs and VAs.	

			3. The order describes the specific activity (Patrol search,
			intermediate, or advanced route search) with a specific
			timeframe to be accomplished by each sub-unit.
			4. Requirement of resources (Search equipment, use of
			heavy Engineering assets & manpower with locations)
			including transport requirement.
			5. Command, control, and communications to be
			employed including coordination with supporting elements
			(FP, EOD etc.)
			6. Security plan and MED/CASEVAC plan.
			7. Logistical concerns/resupply of the materials and other
			supply considerations are instructed.
	T3-2.1.3	TTPs and SOPs to be reviewed	Standard Met
	1.0 2.2.0	and rehearsed.	Vulnerable point check drills.
		and remediated.	Contact/Ambush Drills.
			Methods of marking searched areas.
			Procedures for collecting forensic evidence.
			5. Procedures for treating casualties and CASEVAC.
			6. Location and route to RV with the outer Cordon/FP
			·
			commander.
			7. Disposition and means of requesting support from QRF,
			CASEVAC, or other mission enablers.
T3-2.2	1		
Conduct of	T2 2 2 4	Th	Character of Adam
Task	T3-2.2.1		Standard Met
		necessary coordination. Ref.:	1. Team Commander issues confirmatory orders to the
			Search Team at the scene if necessary.
		Counter Explosive Threat (CET)	2. Execute the search task using a four-stage framework
		Search and Detect Manual,	(Secure ICP, isolate and dominate; execute the search; and
		Annex B.	secure and hand over.). Ref.: Annex B.5.1-4
			3. Adhering to all relevant TTPs and SOPs consistent with
			known threat levels, FP measures, and ROE.
			4. The team commander liaises with the Incident
			Commander and EOD Team Leader to gather further
			relevant information related to the task.
			5. Provide Incident Commander, EOD Team Leader with
			situational awareness regarding task progress and the
			estimated time of completion of the task.
			6. The unit is sufficiently self-sustained to provide
			maintenance, supply, and other services during the
			assigned task.
			7. Force protection is maintained at all times during the
			execution of the task.
	T3-2.2.2	Establishment of a Secure the	Standard Met
		Incident Control Point (ICP)	1. The Search team Commander able to identify,
		Ref.: IMAS 10.20, Safety &	determine and establish ICP where has been previously
		occupational health - Demining	
		worksite safety, Chapter 5.1	2. Provide a clearly visible separation of hazardous areas
			(including demolition danger areas), cleared areas, and
			useable areas. Ref.: IMAS 10.20, Safety & occupational
			health - Demining worksite safety, Chapter 5.1
			3. Control the movement of search worksite staff and
			visitors (including members of the public) at the worksite.
1	1		risitors (merading members of the public) at the worksite.

	UN Military	Engineer Unit - Tasks
		Ref.: IMAS 10.20, Safety & occupational health - Demining
		worksite safety, Chapter 5.1
		4. Safety measures are being applied and all findings are
		documented.
T3-2.2.3	Conduct all required post-task	Standard Met
	administrative requirements.	1. Target (VP or VA, or buildings and other infrastructure)
		area must be isolated from outside influences by
		dominating the surrounding terrain.
		2. Safe and hazardous areas within the worksite shall be
		separated by providing clear and consistent marking. Ref.:
		"IMAS 08.40 Making mine and ERW hazards" for details of
		hazard marking.
		3. The search team member (s) should be directed to a
		segregated area, be searched away from others and from
		outside interference and nobody gets in or out when the
		search takes place.
		4. The effects of an explosion should be considered in
		isolating the target area.
		5. TCC uses its own Search TTPs. Search capabilities must
		be: - Effective, efficient, and safe leading to the detection
		and location of threats; - In line with the mission mandate;
		and In line with search principles (systematic, flexible,
		focused, and safe). Ref.: Annex B.
		6. Search team Commander handed over to EOD team
		Commander for further activities. (Comment: A searched
		person is allowed to enter a controlled area and must
		remain supervised to be considered "searched". A searched
		building must have its access points controlled to be deemed "searched and secure". A searched route must be
		under continuous surveillance to be deemed "searched and
		secure". If a target has been searched, and after that is no
		longer under control it must be considered "unsearched
		and unsecured".)
		7. The Search Team remains on scene to provide continued
		Search support or returns to base as the tactical situation
		and direction with CET Coordination Cell dictate.
		8. CET Search Team fills out a comprehensive Search
		Report with correct Grids, Areas, Search Methods,
		Sketches, and Findings. This report shall be transmitted to
		CET Search Coordination Cell.
N Military Engine	er Unit Task 3-2: CONDUCT	PREVENTIVE SEARCH TASKS IN SUPPORT OF FREEDOM
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bservation & Reco	ommendations	

UN Military Engineer Unit Task 4: Explosive Ordnance Disposal, EOD (Combat Engineer Task)

Description: If other assets are not available, such as all-arms or specialist search teams, EOD can be tasked to conduct an all-arms search as directed by the Force Commander. Such tasks can be executed by day or night, be ordered on short notice, and can take place within a semi-permissive environment. Possible targets to search may include: • Regular and/or contingency Helicopter Landing Sites (HLS); • Temporary operating bases; • Vulnerable points and areas.

Ref: UN Military Engineer Unit and Counter Explosive Threat (CET) Search and Detect Manual; United Nations Peacekeeping Military EOD Unit Manual; and United Nations Improvised Explosive Device Disposal Standards, Chapter 6.

UN Military E	ngineer U	nit Task 4: Explosive Ordna	nce Disposal, EOD (Combat Engineer Task)	
Sub-Task	Standard	Standards	Indicators	Score
	Number			
T 4.1				
Planning and				
Preparation	T 4.1.1	EOD Team leader analysis	Standard Met	
		potential threat and	1. The EOD Team Leader receives and understands orders from	
		ensures the team's	the EOD Coordination Cell or Higher HQ (Engineer Unit) and	
		readiness for the search	obtains all available information related to the task.	
		and detect task.	2. The EOD Team leader ensures the capability to deploy	
			personnel and equipment on short notice.	
			3. The Engineer unit commander/team leader ensures the EOD	
			Team has appropriate capabilities and equipment to conduct a	
			search and detect task.	
			4. The EOD Team leader ensures the team members' training	
			on search and detect tasks including their knowledge for the	
			conventional munitions in the AO and management of detecting	5
			and disposing of various explosives (according to the CMD Level	
			1, 2 or 3, Specialist CMD). Eg for Specialist- knowledge on the	
			Liquid Propellent disposal, Maritime EO). (Comment: Each	
			member knows their specific roles and is capable to handle the	
			equipment. Evaluators interview with members.)	
			5. The EOD Team leader analyzes the own capability to execute	
			the task and request and coordinate for additional support if	
			needed.	
	T 4.1.2	EOD Team Leader	Standard Met	
		prepares for the task and	1. All information is relevant to the task including the known or	
		delivers his orders.	suspected threat.	
			2. The order describes each team members' tasks are assigned	
			with their equipment including effects of the EOD/ Search Team	
			are expected to achieve and critical timings to be met.	
			3. The order describes the location and route to ICP, and	
			location and route to the meeting point (RV) with the	
			Cordon/Force FP Commander (if available).	
			4. Coordination with the cordon team and Force Protection	
			team (UN forces, and local forces) is included.	
			5. The order describes Command and control measures	
			including reporting instructions and communication methods.	
			6. The order describes the security plan and MED/CASEVAC	
			plan including from the IED to Control Point and Control Point to	P
			Hospital.	
			7. The order describes disposition and means of requesting	
			support from QRF, CASEVAC, or other mission enablers.	
			8. The EOD/ Search Team conducts movements to the meeting	

			noint (P)/ location): Adhering to all relevant TTDs and SODs
			point (RV location): Adhering to all relevant TTPs and SOPs
T 4 2			consistent with known threat levels, FP measures, and ROE.
T 4.2	ı		
Conduct of	T 4.2.1	The EOD team conducts	Standard Met
Task	1 4.2.1		1. The EOD Team liaises with the Incident Commander to
		•	
		EO site.	gather further relevant information related to the task.
			2. The EOD team conducts an initial assessment of the
			explosive threat and assesses the requirement for mitigation
			measures such as cordon and evacuation. (Comment: Ensure
			the cordon is set to the appropriate distance. Depending on the
			size of the threat, cordon should be expanded and anyone
			within the new cordon must be evacuated before any work is
			done to mitigate the threat.)
			3. The EOD Team establishes a secured Incident Control Point
			(ICP).
			4. The EOD Team identifies specific hazards in EO areas and
			determines if the detected arms or explosives are to be
			neutralized on site, transported, or in some combination.
			5. Team leader issues confirmatory orders to the EOD/ Search
			Team.
			6. The EOD Team identifies a safe location for the storage and
			destruction site of the collected ammunition/explosives.
			7. Communication to higher HQ and both inner and outer
			security cordons throughout the task is established, until
			complete.
	T 4.2.2	The team disposes or	Standard Met
		removes the	Team members implement the protective measures during
		EO/ammunition and	entire operations.
		always renders safety.	2. Appropriate safety measures are taken. (Public safety,
			Cordon Safety, and IEDD Team safety). Ref.: United Nations
			Improvised Explosive Device Disposal Standards, Chapter 6.
			3. Appropriate disposal (disposal on spot) or removal methods
			(disarm and take the explosives/ammunition to the safe zone to
			dispose of) are used.
			4. Threat assessment and a safe waiting period (soak time) are
			considered. (Primary soak time-70 min; Secondary soak time-
			10-15 min).
			5. The Military Engineer Unit is sufficiently self-sustained during
			the assigned EOD task.
			6. The unit takes proper safety measures during the
			transportation of the ammunition/explosives and ensures the
			international standard of transporting, handling, and storage of
			explosives. Ref.: IMAS 10.50-Storage, transport and handling of
			explosives.
			7. The unit provides the Incident Commander and any other
			Elements with situational awareness regarding task progress
			and the estimated time of completion of the task.
	T 4.2.3	The team adopts correct	Standard Met
		procedures for collecting	The team ensures proper pictures are taken documenting
		forensic evidence and	scene and device/ordnance (In CMD context) after
		ensures the area is safe.	neutralization.
		2	2. In addition to IED, or EO parts collected, if possible, the team
	<u> </u>	1	addition to 125, or 25 parts concerca, it possible, the team

	collects a sample of the explosives for analysis.	
	3. A proper secondary device search is conducted to ensure the	
	EOD team is not directly targeted and the scene is 100% clear of	
	all hazards before the team departs.	
	4. The final briefing is conducted at the scene and the team	
	ensures post-clearance safety measures in the area.	
	5. The team fills out the IED/UXO report if applicable. Ref.: UN	
	Peacekeeping Missions Military EOD Unit Manual, Annex E.	
	6. Military EOD Unit provides comprehensive reports to higher	
	HQ (UN Military Engineer Unit) and EOD Coordination Cell. It	
	should include the latest information and an assessment of the	
	incident with pictures/sketches in accordance with mission	
	SOPs.	
UN Military Engineer Unit Task 4: Explo	sive Ordnance Disposal, EOD (Combat Engineer Task) (Overa	Ш
Assessment):		
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Observation & Recommendations		

UN Military Engineer Unit Task 5: Establishment of field defences / Improvement of existing defences. (Combat and Construction Engineering Task)

Description: The establishment of field defence of own base/camp is the responsibility of each military unit. Yet some field defence tasks like defence barriers, chain link fence, earth embankment, dug-in position/ shelter might be considered as a mission priority. Considering the resource limitations of other units those tasks can be given to Engineer units for implementation. The unit is tasked to prepare field defenses / improve existing field defenses for the hardening of key points in a given time.

Sub-Task	Standard Number	Standards	Indicators	Score
T5.1				
Planning and				
Preparation	T5.1.1	-	Standard Met 1. Commanders and staff assess the Force protection plan and	
		and engineer appreciation for the task.	the field defense improvement plan (defence barriers, chain link (razor wire) fence, earth embankment, dug in position/ shelter) and coordinate with the base commander for the execution of the task.	
			2. Estimates the requirements of expedients, earthwork, and earthmoving plant requirements.	
			3. Calculates time and resources requirements (equipment and manpower).	
			4. Ensures earmark trade proficient personnel for construction/maintenance.	
			5. Calculate the mobilization and deployment requirements.	
			6. Analyze the own capability to execute the task and request additional support if needed.	
	T5.1.2	Planning for the	Standard Met	
		construction, or improvement of field	1. Plans for construction of field defense or improvement of the defense (with a sketch, map, model, etc).	
		defense task.	2. The unit is organized based on the envisaged tasks and may include the following elements: Mobilization, Task execution to include earthwork tasks as required, Store management, Protection party (if required), and Logistics support.	
			3. Ensures the planning is in line with task orders issued by higher HQ.	
			4. Special instructions, including the security plan, coordination and support mechanism other units, contingency plan, and MED/CASEVAC plan are included.	
			5. Logistic supply plan (supply of construction materials, fuel, spare parts for the equipment, also include food and water supply for the troops).	
			6. Planning of procurement of the necessary materials by the unit if applicable.	
	T5.1.3	Unit commander issues the order for construction or	Standard Met 1. The order describes a clear and concise statement of what the unit must accomplish (details of expected tasks).	
		improvement of field defense.	The order describes the specific activity with a specific timeframe to be accomplished by each sub-unit and earmarking.	

	1	UN WIIII	tary Engineer Unit - Tasks
			correct trade personnel for the task.
			3. The order is clearly outlined the specific period for the
			different stages of the activity to be accomplished by each sub-
			unit and earmarking correct trade personnel for the task.
			4. Requirement of resources (store & manpower with locations)
			including transportation requirement.
			5. The order describes Command and control measures including
			reporting instructions and communication methods.
			6. Special instructions, including the security plan, coordination
			and support mechanism other units, and MED/CASEVAC plan are included.
			7. Force protection measures provided / to be adopted while on
			move and execution of tasks.
			8. Logistical concerns/resupply of the materials and other supply
			considerations are instructed.
Г5.2			ostilonia di Ciristi deledi
Conduct of			
Гask	T5.2.1	Unit is sufficiently self-	Standard Met
		sustained and executes	1. The unit has topographic survey equipment and trained
		the task as planned.	personnel. Survey personnel/party of the unit is setting outfield
			defence work. A survey of ground levels is carried out and GPS is
			used to mark maps and layout sketches.
			2. The unit has proficient trade personnel for construction works
			including masonry, woodwork, metal works, etc.
			3. The unit is able to level the ground, fill up the defence
			barriers, creat earthwork for embankment or dug in position/
			shelter by using earth moving plants to include excavator loaders,
			dumpers, dozers etc. (use of available equipment)
			4. Construction of field defences and necessary protection of
			structures like drainage, revetment, overhead cover/ protection
			etc. is prepared.
			5. Safety procedures must be ensured at all times.
			6. Force protection is maintained at all times during the
			execution of the task.
			7. The Unit Commander exercises appropriate C2 during move
			and execution of the task (e.g. undertake resource management
			and caters for contingencies)
			8. The Unit Commander reports the progress of the task to the
			higher HQ.
IN Military	Fnginger	r I Init Task 5: Establic	hment of field defences / Improvement of existing
	_		neering Task) (Overall Assessment):
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Observation & Recommendations

UN Military Engineer Unit Task 6: Construction or repair of helipads. (Combat and Construction Engineering Task)

Description: UN Engineers mobilization task includes construction and repair of Helipad which for some remote deployments constitute the main supply route and only viable option for medical evacuation. Basing on mission priority, Helipad construction, and repair tasks will be implemented by Construction/ Combat Engineer companies. Construction or repair of Helipad is a time-sensitive task.

Sub-Task	Standard Number	Standards	Indicators	Score
T6.1				
Planning and				
Preparation	T6.1.1	Unit Commander undertakes	Standard Met	
		an initial survey of the task.	1. Commander performs engineer appreciation for the task.	
			2. Calculates the time and resources required.3. Estimates the requirements of expedients, earth work,	
			and earth moving plant requirements.	
			4. Calculates store requirements for helipad marking.	
			5. Calculates the mobilization and deployment	
			requirements.	
	T6.1.2	Planning for the construction	Standard Met	
	10.1.2	or repair of helipads.	1. Plan for construction or repair of the helipad is	
		or repair or neitpads.	prepared (with sketch, map, all calculation of the required	
			equipment, etc).	
			2. Ensures the planning is in line with task orders issued by	,
			higher HQ.	
			3. Planning is clearly outlined the specific period for the	
			different stages of the construction or repair of the	
			helipad.	
			4. The unit is organized based on the envisaged tasks and	
			may include the following elements: Mobilization, Task	
			execution to include earthwork tasks as required, Store	
			management, Protection party (if required), and Logistics	
			support.	
			5. Special instructions, including the security plan,	
			coordination and support mechanism other units,	
			contingency plan, and MED/CASEVAC plan are included.	
			6. Logistic supply plan (supply of construction materials,	
			fuel, spare part for the equipment, also include food and	
			water supply for the troops).	
			7. Planning of procurement of the necessary materials by	
			the unit if applicable.	
	T6.1.3	Unit Commander issues the	Standard Met	
		order for construction or	1. The order describes a clear and concise statement of	
		repair of the helipad.	what the unit must accomplish (details of expected tasks).	
			2. The order describes the specific activity with a specific	
			timeframe to be accomplished by each sub-unit and	
			earmarking correct trade personnel for the task.	
			3. Requirement of resources (store & manpower with	
			locations) including transport requirement and earth	

		-	moving plant requirement.
			4. Support arrangements are coordinated with higher HQs
			for the requirements for the helipad.
			The order describes Command and control measures
			including reporting instructions and communication
			methods.
			6. Force protection measures provided / to be adopted
			while on move and execution of tasks.
			7. Logistical concerns/resupply of the materials and other
6.2			supply considerations are instructed.
onduct of			
	T6.2.1	Unit is sufficiently self-	Standard Met
usik		sustained to undertake the	1. The unit has topographic survey equipment and trained
		task.	personnel. Survey party/personnel set out the Helipad site
			and conducting an estimation of earthwork requirements
			for the repair of the Helipad.
			A Survey of ground levels is carried out and GPS is used
			to mark maps and layout sketches.
			3. The Unit is sufficiently self-sustained to undertake tasks
			with earthmovers including vibrating rollers, concrete
			mixer machine, and portable generator with a floodlight
			with proficient personnel as earthmoving plant operators
			and mason.
			4. The unit is leveling the ground, filling up the defense
			barriers, moving earthwork for embankment or dug in
			position/ shelter by using earth moving plants to include
			excavator loaders, dumpers, dozers, etc.
			5. Unit uses concrete casting of pavement or rapidly
			deployable landing mat.
			6. Helipad marking and setting up clear zone, markers,
			illuminations is performed by the unit.
	T6.2.2	Construction or repair of	Standard Met
		·	1. Unit Commander exercises appropriate C2 during the
		commander provided	move and execution of task (e.g. undertake resource
		effective command and	management and caters for contingencies).
		control.	2. Unit Commander is aware about the reporting
			procedures and reports progress of task to higher HQ.
			3. Safety procedures must be ensured at all times.
			4. Force protection is maintained at all times during the
			execution of the task.
			5. Logistical concerns/resupply of the materials are
			coordinated.
	1		7-7

Observation & Recommendations

UN Military Engineer Unit Task 7: Construction/Maintenance of Tracks. (Combat and Construction Engineering Task)

Description: A UN Military Engineers' mobilization task includes construction and repair of tracks which, for some remote deployments, constitute the supply routes or an option for medical evacuation. This task can be suitably implemented by the construction platoon of the Engineer unit. The unit is tasked to undertake construction or repair of macadam or gravel track in a given time.

Condition: Additional Note: While constructing and rehabilitating the roads and tracks, engineering equipment are transported from the base however with the pace of progress in construction sites, it takes a long time to reach and return, Similarly, haulage between quarry site and the construction site also consumes time this affects the working hours, efficiency/output of the troops and causes economic burden to the UN. Considering haulage, security factors, and the availability of force, it may be better to establish a TOB as a support base for engineers working on the site..

Sub-Task	Standard Number	Standards	Indicators	Score
T7.1	•			
Planning and				
Preparation	T7.1.1	Unit Commander	Standard Met	
		undertakes an initial	1. The Commander performs an engineer appreciation for the	
		survey of the task.	task.	
			2. Calculates time and resources required.	
			3. Estimates requirements of survey, earth work, and earth moving plant requirements.	
			4. Calculates store requirements for resuscitation.	
			5. Calculates mobilization and deployment requirements.	
			6. Assess the required plants for preparation of construction	
			materials. (stone crusher, excavators, and asphalt plants, etc.)	
			7. Assess the requirements of constructing other road	
			infrastructures (drainpipes, culverts, bridges, etc).	
	T7.1.2	Unit plans for the task.	Standard Met	
			1. The Unit commander estimates details of construction	
			material requirement.	
			2. The Unit is organized based on envisaged tasks and may	
			include: Mobilization, Preparation of construction material,	
			Transportation of construction material to the road segment,	
			Earthwork, leveling and compaction of earthen road, Store	
			management, Protection party (if required), Logistics support.	
			3. Planning is clearly outlined the specific period for the	
			different stages of the construction and repair of tracks.	
			4. Special requirements, including the security plan,	
			coordination and support with other units, and MED/CASEVAC	
			plan are coordinated with higher HQs.	
			5. Logistic supply plan (supply of construction materials, fuel,	
			spare parts for the equipment, also include food and water	
			supply for the troops).	
			6. Planning of procurement of the necessary materials by the	
			unit if applicable.	
	T7.1.3	The Unit Commander	Standard Met	
		issues an order for the	1. The order describes a clear and concise statement of what	
	1	construction of the track.	the unit must accomplish (details of expected tasks).	

			The state of the s
			2. The order describes the specific activity with a specific
			timeframe to be accomplished by each sub-unit.
			3. The order includes requirement of resources (store &
			manpower) to include transport requirement and earth moving
			plant requirements
			4. Special instructions, including the security plan, coordination
			and support mechanism other units, contingency plan, and
			MED/CASEVAC plan are included.
			5. The order describes Command and control measures
			including reporting instructions and communication methods.
			6. Force protection measures provided / to be adopted while
			on move and execution of tasks
			7. Logistical concerns/resupply of the materials and other
			supply considerations are instructed.
7.2			
Conduct of			
ask	T7.2.1	Unit is sufficiently self-	Standard Met
		sustained to undertake	1. The unit has plants for the preparation of construction
		the task.	material (Stone crusher, excavators) and is able to prepare
			materials required for the construction of tracks (e.g. stone
			crushers).
			2. The unit has transportation of construction material and
			earthmovers (Loaders, dumpers).
			3. Plants for track leveling and compacting (dozer, motor
			graders, rollers) and an earthen track are constructed by using
			dozers, motor graders, and rollers.
			4. The Unit has proficient operators for using earth moving
			plants/excavators and/or stone crushers etc.
			5. The unit has topographic survey equipment and trained
			personnel.
			6. Surveyors are conducting a survey to identify the best
			location of the track. (To be tested: Level survey work of 500 M
			of track segment). Survey of ground levels is carried out and
			GPS used to mark maps and layout sketches.
	T7.2.2	The unit executes the tas	
	17.2.2	as planned and the	1. The unit commander creates the workflow plan with earth
		commander provided	movers.
		effective command and	2. Unit Commander exercises appropriate C2 during the move
		control.	and execution of task (e.g. undertake resource management
		control.	and caters for contingencies).
			3. Unit Commander is aware of the reporting procedures and
			reports progress of task to higher HQ.
			4. Safety procedures must be ensured at all times.
			5. Force protection is maintained at all times during the
			execution of the task.
			6. Logistical concerns/resupply of the materials are
			coordinated.

Engineering Task) (Overall Assessment):

Observation & Recommendations

UN Military Engineer Unit Task 8: Construction / dismantling of Rigid/Semi-rigid/ Prefabricated structures (Construction Engineering Task)

Description: UN Engineers survivability tasks include construction of accommodation in camps. UN Military Construction Engineer Units are often tasked for the construction of UN provided rigid/semi-rigid/pre-fabricated structures in campsites in the initial phase of the mission. The unit is tasked to undertake the construction of rigid/semi-rigid/pre-fabricated structures including siting of base camps.

	Number	Standards	Indicators	Score
T8.1				
Planning and				
	T8.1.1	Unit Commander	Standard Met	
		undertake initial survey	1. Commander performs engineer appreciation for the task.	
		of the task.	2. Calculates the time and resources required.	
			3. Estimates the requirements of survey, earth work, and earth	
			moving plant requirements.	
			4. Assess for the construction materials, the location of the	
			storage, and transportation requirements.	
			5. Assess water supply, power supply, plumbing, drainage of the	
			site of the structures.	
			6. Calculates the mobilization and deployment requirements.	
			7. Calculates store requirements for construction /maintenance	
	T8.1.2	Unit plans for the task.	Standard Met	
			1. The Unit commander estimates details of construction	
			material requirements.	
			2. The Unit is organized based on envisaged tasks and may	
			include: Mobilization, Task execution to include earthwork tasks	
			as required, Store management, Protection party (if required),	
			Logistics support.	
			3. Planning is clearly outlined the specific period for the different	:
			stages of the construction or dismantling of the structures.	
			4. Special requirements, including the security plan, coordination	1
			and support with other units, and MED/CASEVAC plan are	
			coordinated with higher HQs.	
			5. Logistic supply plan (supply of construction materials, fuel,	
			spare parts for the equipment, also include food and water	
			supply for the troops).	
			6. Planning of procurement of the necessary materials by the	
			unit if applicable.	
	T8.1.3	The Unit Commander	Standard Met	
		issues orders for the	1. The order describes a clear and concise statement of what the	
		construction of	unit must accomplish (details of expected tasks).	
		structures.	2. The order describes the specific activity with a specific	
			timeframe to be accomplished by each sub-unit.	
			3. The order includes requirement of resources (store &	
			manpower) to include transport requirement and earth moving	
			plant requirements.	-
	1		4. Special instructions, including the security plan, coordination	

			MED/CASEVAC plan are included.
			5. The order describes Command and control measures including
			reporting instructions and communication methods.
			6. Force protection measures provided / to be adopted while on
			move and execution of tasks .
			7. Logistical concerns/resupply of the materials and other supply
			considerations are instructed.
8.2			
onduct of	T8.2.1	Unit is sufficiently self-	Standard Met
ask	10.2.1	sustained to undertake	The unit is sufficient construction equipment such as
		the task.	generators, welding machines, water pumps, water trucks,
		the task.	concrete mixers, carpentry shops, and earth moving equipment.
			2. 2. The unit has enough trained personnel as generator
			operators, earthmoving plant operators, masonry workers,
			metalsmiths, plumbers, electricians, carpenters, and other
			specialists (air conditioning, heating, boiler room, etc).
			(Comment: Air-conditioning is a specialist's task and will not be
			available at the basic engineer formation level.)
			3. The unit has the capability of transportation of construction
			material and earthmovers (loaders, dumpers) to the road
			segment.
			4. Earthwork including leveling with dozer, excavator, loader,
			dumper, motor grader, roller etc. is performed by the unit.
			5. The unit is performing masonry works to include concrete
			casting, brickwork & foundations.
			6. Safe electric connections, plumbing & metalsmith works are
			performed by the unit.
			7. Air conditioning & heating/boiler room connection is
			completed by the unit.
	T8.2.2	The unit executes the	Standard Met
		task as planned and the	1. Setting up of the campsite work is done by survey personnel.
		commander provided	A Survey of ground levels is carried out and GPS is used to mark
		effective command and	maps and layout sketches.
		control.	2. The drainage of the campsite is adequately addressed.
			3. Safety procedures for the construction or dismantling of
			structures must be ensured at all times.
			4. Unit Commander exercises appropriate C2 during the move
			and execution of task (e.g. undertake resource management and
			caters for contingencies).
			5. Unit Commander is aware of the reporting procedures and
			reports the progress of task to higher HQ.
			6. Force protection is maintained at all times during the
			execution of the task.

Observation & Recommendations

UN Military Engineer Unit Task 9: Construction of drainage works. (Construction Engineering Task)

Description: To prevent any type of disputes between the local population and the UN staff, managing surface water and waste water is an important function. Managing such water is also important in terms of hygiene and sanitation. Establishing effective drainage for managing surface and waste water or constructing a ditch is one of the solutions to harmonious living between the locals and the UN. The unit is tasked to undertake the construction of drainage works in a given time.

T9.1 Planning and Preparation T9.1.1 Unit Commander undertake initial survey of the task. T9.1.1 Unit Commander undertake initial survey of the task. T9.1.1 Unit Commander undertake initial survey of the task. E. Calculates the time and resources required. Estimates the requirements of survey, earthwork, and earthmoving plant requirement of the task. E. Calculates the time and resources required. Estimates the requirements of survey, earthwork, and earthmoving plant requirement. A. Assess the required construction materials, i location of the storage, and transportation requirements. Estimates the mobilization and transportation requirements. Estimates the mobilization and deployment requirements. To calculates the mobilization and deployment requirements. To calculates the mobilization and deployment requirements. The order describes a clear and concise statement of what the unit must accomplish (Details of expected task). The order describes the specific activity with specific timeframe to be accomplished by each unit. Requirements. The order provides details of the survey and water flow patterns. The order provides details of the survey and water flow patterns. The order provides details of the survey and water flow patterns. The order provides details of the survey and water flow patterns. The order provides details of the survey and water flow patterns.	
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adopted while on move and execution of tasks	
6. The order describes Command and control	
measures including reporting instructions and	
communication methods.	
7. Special instructions, including the security pl	n.
coordination and support mechanism other uni	l l
contingency plan, and MED/CASEVAC plan are	,
included.	
8. Logistical concerns/resupply of the materials	
and other supply considerations are instructed.	

9.2		Ort William y Engine	
onduct of			
ask	9.2.1	The unit is sufficiently self-sustained	Standard Met
		to undertake a task.	1. The unit has sufficient construction equipment
			such as generators, welding machines, water
			pumps, water trucks, concrete mixers, carpentry
			shop, and earth moving equipment.
			2. The unit has enough trained personnel as
			generator operators, earthmoving plant operators,
			masonry specialists, metalsmiths, plumbers,
			electricians, carpenters, and other specialists.
			3. A Survey of ground levels is carried out and GPS
			is used to mark maps and layout sketches.
			4. Earthwork including leveling with Dozer,
			excavator, loader, dumper, motor grader, roller,
			etc. are performed by the unit.
			5. Concrete casting and masonry works are
			performed by the unit (if required).
			6. The Unit Commander exercises appropriate C2
			during the move and execution of task (e.g.
			undertake resource management and caters for
			contingencies).
			7. The Unit Commander is aware of the reporting
			procedures and reports the progress of task to
			higher HQ
			8. Safety procedures for road construction or
			maintenance must be ensured at all times and
			force protection is maintained at all times during
			the execution of the task.
N Military	/ Engine	er Unit Task 9: Construction of dra	ninage works. (Construction Engineering Task)
Overall As			
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bservatio	n & Reco	mmendations	

UN Military Engineer Unit Task 10: Airfield maintenance. (Construction Engineering Task)

Description: A UN Military Engineers mobilization task includes maintenance of an Airfield. Airfield maintenance must adequately address the ICAO technical specifications or specifications set by the UN Aviation safety authorities. Certification of the maintenance works are of utmost importance. This task is a specialist tasking however support could be provided by the Construction Engineering Unit to assist with the air field maintenance.

Sub-Task		Standards	Indicators	Score
	Number			
T10.1				
Planning,				
Preparation, and	dT10.1.1	Unit Commander	Standard Met	
Coordination		undertake initial survey of the task.	1. Commander coordinates with UN Aviation safety authorities to identify technical specifications or ICAO specifications for the airfield maintenance.	
			2. Commander performs engineering appreciation for the task and calculates the time and resources required.	
			3. Coordinates with specialists to receive the specifications for the airfield maintenance task that is given to the unit.	
			4. Estimates the requirements of survey, earthwork, and earthmoving plant requirements if necessary to assist the airfield maintenance.	
			Assess the construction materials, the location of the storage, and transportation requirements.	
			6. Assess water supply, power supply, plumbing, drainage of the site of the structures.	
			7. Calculate the mobilization and deployment requirements.	
	T10.1.2	The unit provides necessary support to assist with airfield maintenance.	1. The unit commander creates the workflow plan for assisting the airfield maintenance. (with a sketch, map, all calculations of the required equipment etc). 2. Planning is clearly outlined the specific period for the different stages of supporting the maintenance of the airfield. 3. The order provides the special requirements and liaison instruction with the airfield maintenance authority. 4. Requirement of resources (store & manpower with locations) including transport requirement. 5. The order describes Command and control measures including reporting instructions and communication methods. 6. Force protection measures provided / to be adopted while on move and execution of tasks. 7. Logistical concerns/resupply of the materials and other supply considerations are instructed.	
T10.2	. 1			
Conduct of Task	T10.2.1	The unit commander plans and issues the order to provide support to airfield maintenance.	Standard Met 1. Airfield maintenance task is executed with close coordination with airfield maintenance authority. 2. The Unit is sufficiently self-sustained to undertake tasks and has the ability to provide all necessary support to maintain the	

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levelling the ground, concrete casting of pavement or landing
mat, marking and setting up clear zone, markers, illuminations
etc as per required specifications.)
3. Safety procedures must be ensured at all times.
4. Unit Commander exercises appropriate C2 during the move
and execution of the task (e.g. undertake resource
management and caters for contingencies).
5. Unit Commander is aware of the reporting procedures and
reports the progress of task to higher HQ.
6. Force protection is maintained at all times during the
execution of the task.
field maintenance. (Construction Engineering Task) (Overall

UN Military Engineer Unit Task 11: Well drilling

Description: UN Military Engineers' survivability tasks include the provision of water for the UN personnel. Well-drilling is a viable solution for provisioning water in severe drought conditions of several missions. The unit is tasked to conduct well drilling and maintain several boreholes.

Condition: Well drilling and maintenance of boreholes is a specialist tasking and a specialist construction unit with the necessary well drilling equipment would be required depending on the MOU.

Sub-Task	Standard	Standards	Indicators	Score
	Number			
T11.1	<u>'</u>			
Planning and	I			
Preparation	T11.1.1	Unit Commander	Standard Met	
		undertake initial	1. Commander performs engineer appreciation for the task.	
		survey of the task.	2. Calculates the time and resources required. Also, calculates store	
			requirements for well drilling	
			3. Utilizes the available geological survey estimates and selects the	
			most suitable site administratively and security-wise.	
			4. Estimates the requirements consumables basing on the geological	
			survey result and maintain liaison with the Mission Support for planning	
			continuous supply of consumables.	
			5. Ensure coordination with other services, such as medical for testing	
			and the Engineering section for the supply of consumables.	
			6. Calculates store requirements for well drilling.	
			7. Calculates the mobilization and deployment requirements.	
			8. The Unit is organized based on envisaged task and may include:	
			Mobilization, Task execution to include earthmover operators, well	
			drilling rig operators, welders, plumbers, electricians etc, Store	
			management (consumables), Operation and maintenance of Well,	
			Protection party (if required), Logistics support.	
	T11.1.2	The Unit	Standard Met	
		Commander	1. The order describes a clear and concise statement of what the unit	
		issues order for	must accomplish (details of expected task).	
		well Drilling.	2. The order describes the specific activity with a specific timeframe to	
			be accomplished by each sub-unit.	
			3. The order includes the requirement of resources (store &	
			manpower) to include transport requirement and earthmoving plant	
			requirements.	
			4. Special instructions, including the security plan, coordination and	
			support mechanism other units, contingency plan and MED/CASEVAC	
			plan are included.	
			5. The order describes Command and control measures including	
			reporting instructions and communication methods.	
			6. Force protection measures provided / to be adopted while on move	
			and execution of tasks.	
			7. Logistical concerns/resupply of the materials and other supply	
			considerations are instructed.	
			8. Coordination with other services to ensure testing and movement	
			control.	
T11.2				

self-sustained to undertake the task. 1. The unit is sufficient well drilling and construction equipment such as generators, well drilling rigs, welding machine, water pumps, water trucks, concrete mixers, carpentry shops, earth moving equipment, and consumables. 2. The unit is prepared for task execution to include earthmover operators, well drilling rig operators, water testing facility operators, welders, plumbers, electricians etc 3. The unit sets up the well drilling rig with standard equipment. 4. The unit estimates and calculates the required consumables and maintaining a store list. 5. Plumbers/Welders/generator Operators can operate their machine/equipment and other accessories proficiently in coordination with rig operators. 6. The Unit Commander exercises appropriate C2 during the move and execution of task (e.g. undertake resource management and caters for contingencies). 7. The Unit Commander is aware of the reporting procedures and reports the progress of the task to higher HQ. 8. Safety procedures must be ensured at all times and force protection is maintained at all times during the execution of the task.	onduct of			
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