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23 Bhadra 1432

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EVALUATION OF LOCAL WARNING RADAR (LWR)

Reference:

A. Army Headquarters, General Staff Branch, Adhoc Army AD Directorate letter number 23.01.901.066.01.192.09. 01.09.25 dated 02 September 2025 (Not to all).

1. In light of above reference, a technical specification of Local Warning Radar (LWR) is attached with this letter. Interested authorized vendors/firms/local agents and foreign principals are requested to forward their **"Expression of Interest"** with respect to this system and submit following documents in quadruplicate directly to Army Headquarters, General Staff Branch, Adhoc Army AD Directorate with intimation to this office by **30 September 2025** please:

- a. Offers of supplier as per technical specification.
- b. Manuals (Originally Printed by Manufacturer) and CD.
- c. Catalogue (Originally Printed by Manufacturer) and CD.
- d. Brochure (Originally Printed by Manufacturer) and CD.
- e. Valid Certificate from Original Equipment Manufacturer as authorized agent. Stocking Department, Maintenance Center or Authorised Dealer.
- f. In case of Original Equipment Manufacturer/Foreign agent, permission from own Ministry of Commerce to deal in such matter with BD Army.

2. All the documents are to be submitted on Manufacture's/Principal's official pad including official stamp with signed by appropriate authority.

3. Forwarded for your information and necessary action please.



SHEULY AKTER
Lieutenant Colonel
For Director General

Enclosure:

1. Technical Specification-17 (Seventeen) Pages.

Distribution:

External:

Information:

Army Headquarters, General Staff Branch (Coordination)

Army Headquarters

General Staff Branch, Weapons Equipment & Statistics Directorate

Army Headquarters, General Staff Branch, Adhoc Army AD Directorate

Action:

All Concerned Supplier/Firm

Internal:

IT Section (For uploading to website)

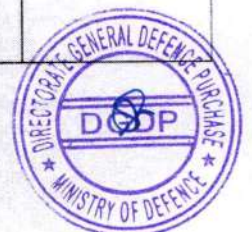
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TECH SPEC OF LWR

Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
1.	General.		
	a. Nomenclature	To be mentioned	
	b. Name	To be mentioned	
	c. Make and Type	Phased array, 3D, Fully Solid State and Fully Coherent	
	d. Country of Origin	To be mentioned (Gp A and B Country)	
	e. Country of Assembly and manufacture	To be mentioned (Gp A and B Country)	
	f. Year of Manufacture	Not before signing of the contract	
2.	Technical Capabilities.		
	a. Instrumental Range	Minimum 200 km (to be mentioned)	
	b. Detection Range	a. Minimum detection range 60 km [for 1m ² Radar Cross Section (RCS), at altitude of 300 m], b. Maximum detection range (for 1m ² RCS) to be mentioned.	
	c. Altitude coverage	To be mentioned	
	d. Azimuth coverage	0° – 360°	
	e. Operation Frequency/ Frequency Range	S Band to K band	
	f. Bandwidth	To be mentioned	
	g. PRF	To be mentioned	
	h. Pulse power (Peak Power)	To be mentioned	
	j. Measuring Accuracy (1) Range (2) Azimuth (3) Height	Maximum \pm 100 m or better Maximum \pm 0.3° or better Maximum \pm 300 m or better at a range of 200 km (To be mentioned)	
	k. Target Discrimination (1) Range (2) Bearing	250 m or less at its maximum detection range 3° or less at its maximum detection range	
	l. Max Target handling capability	To be mentioned	
	m. Target Tracking Capacity	To be mentioned	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	n. Track Record and Storage Facility	Each track shall have instant tracing facility since its initial pick up retained. Most essentially all track data should be recorded in the storage device retaining for minimum 500 hours.	
	p. TWS (Track While Scan)	To be mentioned	
	q. Power of Transmitter (Average Power)	To be mentioned	
	r. Electronic Counter Counter Measure (ECCM) Capability	<p>System should be immune to active and passive jamming. The following ECCM options are to be available:</p> <ul style="list-style-type: none"> a. Side Lobe Cancellation and Blanking. b. Very Wide Band Frequency Agility. c. Constant False Alarm Rate (CFAR) Processing Functions. d. Variable PRF: Fixed, Staggered and Burst. e. Automatic/ Advance Jamming Avoidance Circuit (AJAC) f. Emission Control/Sector Blanking/ Strobe Jamming. g. Narrow pencil beam. h. Wide frequency band. j. High dynamic range. k. Coherent processing. l. Low peak power. 	
	s. Built in Test Equipment (BITE)	Yes (to be confirmed), Should be available with the system for all sections and sub-sections	
	t. On line monitoring system	Yes (to be confirmed)	
	u. Moving Target Detection	MTD, DMTD (to be confirmed) Capability of distinguishing/ detecting Hovering Air Craft	
	v. Identification of Friend or Foe (IFF)	The Radar shall have IFF System (NATO Standard). The IFF system shall have both passive and active decoding facilities as for the later system would implement Selective Identification Features (SIF) in accordance with tactical requirement.	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
		The system shall be capable of displaying Mode 1, Mode 2, Mode 3/A and Mode C and/or Mode S with specific digital code and raw radar impression separately. There must be provision for interfacing Secret/Encrypted Mode provided by BD Army. There shall be option for displaying Emergency modes and codes (eg, 7600, 7700 etc) along with visual and audio alarm system. The supplier is to provide all relevant technical information of radar and IFF system, give assistance and keep necessary provisioning to facilitate/ accommodate integrating of secret/ encrypted mode equipment. In order to ensure interoperability with onboard IFF system from other origins, the supplier must provide detail information of the slots for installing crypto computer card.	
	w. Total Weight of the complete system	To be mentioned	
	x. Communication/ data Link with air defence command post/ centre/ other radars	VHF and HF Communication system, Fiber Optics and Ethernet interface compatible to BD Army standard with data transfer facility. (Model name, country of origin, manufacturer, output watts, frequency range, communication range and number of channels of the wireless sets) to be mentioned.	
	y. Integration with other air defence installation/ system	The system must have the facilities of transmitting digital target data to other air defence installations for integration with the automation system of Bangladesh air defence network. The supplier must interface the radar with the Bangladesh Air Defence network and provide the complete UDP/TCP packet structure of both plot and track data which should have the provision of transmitting over the Ethernet based network of the Air Defence Automation system and ASTERIX Cat 034 and Cat 048. There shall be provision to integrate with other Fire Control System.	
	z. System Orientation time (Preparation Time)	To be mentioned	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	aa. Sys Reaction Time/activation time	To be mentioned	
	bb. Emplacement/displacement time	To be mentioned	
	cc. Number of crews	To be mentioned	
	dd. Scope for up gradation	To be mentioned	
	ee. Provision for Power supply	Option for Commercial Power Supply with Automatic Voltage Regulator (AVR) and Inbuilt Power Generator. (See details in Serial 9)	
	ff. Power consumption	To be mentioned	
	gg. Number and Type of display	To be mentioned	
	hh. Range Measurement method	To be mentioned	
	jj. Portability	Vehicle Mounted	
3.	Antenna System.		
	a. Type of antenna	Active Electronically Scanned Array (AESA) Antenna capable of providing required beam width, multiple independent scanning pencil beam and lower antenna side lobes.	
	b. Dimension	To be mentioned	
	c. Feed system	To be mentioned	
	d. Antenna RPM	To be mentioned	
	e. Maximum height of Antenna from the ground (1) Normal Height : (2) Height in extended Condition:	To be mentioned	
	f. Antenna Mounting	Foldable or Fixed (To be mentioned)	
	g. Max elevation	To be mentioned	
	h. Main lobe width	To be mentioned	
	j. Side lobe width and level	To be mentioned	
4.	Radar Operation.		
	a. Built in Operator's Training Facility	To be provided Details to be mentioned	
	b. Continuous Operation Time	To be mentioned	
	c. Number of Crews	To be mentioned	
	d. Operational life of Radar Transmitter	Min --- Hrs (to be mentioned)	
	e. Cooling system	To be mentioned (Liquid/Air Cooled)	
	f. MTBF/MTBCF	> 500 hrs (to be mentioned)	
	g. MTTR	To be mentioned	
	h. Operation Timer/Timer indicator	Radar must have timer indicator for reading operation time.	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
5.	Environment.		
	a. Temperature Tolerance	-20°C to + 50°C	
	b. Humidity Tolerance	Up to 95% at 35°C	
	c. Wind Speed Tolerance	Survival: 120 knots in static condition Operational: 80 knots in antenna rotating	
	d. Sand and Dust particle	System should be dustproof.	
	e. Rain	System should be rainproof. Tropical intensity upto 4 inches/hour.	
	f. Salinity	All equipment shall have the capability to operate in salinity	
6.	Maneuverability.		
	a. Gross weight of the system	To be mentioned	
	b. Ground pressure	To be mentioned	
	c. Fording depth	To be mentioned	
	d. Ground clearance	To be mentioned	
7.	Dimension.		
	a. Length of the system in static condition	To be mentioned	
	b. Width of the system in static condition.	To be mentioned	
	c. Length of the system in traveling condition.	To be mentioned	
	d. Width of the system in traveling condition.	To be mentioned	
	e. Maximum height of the system with antenna is rotating	To be mentioned	
	f. Height of the system when antenna folded	To be mentioned	
8.	Miscellaneous.		
	a. Air conditioner	To be present both vehicle and radar Details to be mentioned.	
	b. Colour of Radar Cabin including vehicle	MB Green (non - shining), Matt Finish (Colour code B.S.381C reference no 223)	
	c. Radar operator/ user's manual	To be provided (To be confirmed)	
	d. Radar maintenance manual	To be provided (To be confirmed)	
	e. Radar field and base repair manual	To be provided (To be confirmed)	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	f. Armour Protection Level	Non-Armoured	
	g. Fire extinguishing and suppression system	To be present both the vehicle and radar cabin. Details to be mentioned.	
	h. Other items to be included with the radar:		
	(1) Tools box (fitted with radar cabin/main vehicle)	All essential and integral tools and accessories to be available and fitted and supplied in the tools box. (To be confirmed) List to be submitted	
	(2) Radar's operational/ first line spares, tools, accessories and kits (SPTA)	One (01) complete set per radar vehicle to be provided by the supplier and included in the SPTA of radar. (To be confirmed). List to be submitted	
	(3) Provision for SST, Special Testing Equipment, Performance Test, fault finding & rectification gauges for radar components.	To be provided (To be confirmed) List to be submitted	
	(4) List of special service materials (SSM) for radar system.	To be provided. (To be confirmed) List to be submitted	
	(5) Spares.	All required fast moving spares for initial 03 years after warranty period for functioning and maintenance should be proposed by Supplier. List to be submitted	
	(6) 100% master spare parts catalogue (parts catalogue) for radar system	To be provided (To be confirmed) List to be submitted	
	j. Warranty and Model Validity	Warranty period – 01 (One) year Model Validity – 15 years (for guaranteed service support with required spares)	
	k. Software Protection	To be confirmed (The software of the display consoles shall not have any sort of hardware binding/protection in the license, which will prevent the user from using field replaceable components procured from local sources. Software shall be of generic nature which can be installed on any commercially available hardware of similar type.)	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	l. Backup System of the Software	To be confirmed (The supplier is to provide backup of all system software in CD/DVD with the system, so that it can be installed again in the system in case of a software or hardware failure/ crash. The Supplier is to ensure the necessary training of installing software to the technicians/engineers of Bangladesh Army.)	
	m. Password	The hardware/software is not be password protected and the software must be hardware / platform independent. If so, the password must be delivered to BD Army and tested prior to the acceptance.	
	n. Full Scale Digital Mapping	To be confirmed (Digital map with terrain features is to be provided. The digital map shall be able to interface radar picture with real ground picture /scenario (as seen in satellite/ Google map to be used as backup). Under this condition electronic cursor/pointer pointing shall show latitude and longitude of the pointed place. Subsequently, The range and bearing option also shall be active.)	
	p. Dehumidifier	To be confirmed (System must have Dehumidification arrangements.)	
	q. Lightning Protection System	To be confirmed (Appropriate surge protector and appropriate lightening arrester along with proper grounding are to be provided.)	
	r. Earthing of the Equipment	To be confirmed (The resistance must be less than 01 ohm for all electronic equipment.)	
9.	a. Power Supply. Option for Commercial Power Supply and Inbuilt Power Generator should be available. It should have arrangements to use 220/440V, 50 Hz commercial power supply available in Bangladesh. Must have Uninterrupted Power Supply (UPS) arrangements (need separate specs) for the operation of whole system including IF transmission, Power Supply System shall have a built-in Automatic Voltage Regulator (AVR) and surge protector. Detail information must be provided in this regard whether the radar generator is in built within the original platform or a separately towed? If separately towed, the generator must be fitted on a trailer which should be robust having cross country mobility (Information to be provided separately for the generators/power supply system used in the system)		



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	<u>Specifications of Generator:</u>		
	(1) Nomenclature	To be mentioned.	
	(2) Type	To be mentioned.	
	(3) Country of Origin and Year of manufacture	To be mentioned. (Gp A Country)	
	(4) Rated Power output / Capacity.	To be mentioned.	
	(5) Output Voltage	220V/440V, 50 Hz. Details to be mentioned.	
	(6) Type of Circuit Breaker	To be mentioned.	
	(7) Overall dimension (Length x Width x Height in mm)	To be mentioned.	
	(8) Total Weight	To be mentioned.	
	(9) Maximum length of output Cable.	To be mentioned.	
	(10) Operating temperature	-20° to +50° C.	
	(11) Type of generator Panel	Digital Panel for KVA, KW, Voltage, Operation Hour, Temperature to be provided.	
	(12) Type of Engine	Diesel Engine.	
	(13) Fuel Consumption	To be mentioned.	
	(14) Total Weight of the engine	To be mentioned.	
	(15) Cooling System	To be mentioned.	
	(16) Arrangement for super sound attenuation	To be provided. Details to be mentioned.	
	(17) Type of Generator Mounting	To be mentioned	
	(18) Type of engine Panel	To be mentioned.	
	(19) Fuel Tank capacity	To be mentioned.	
	(20) Maximum Operation time (without interval)	To be mentioned.	
	(21) Operational Life of generator	To be mentioned	
	(22) MTBF	To be mentioned.	
	(23) MTTR	To be mentioned.	
	(24) Other items to be included with the Generator:		



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	(a) Tools box (fitted with generator cabin)	All essential and integral tools and accessories to be available and fitted and supplied in the tools box. (To be confirmed) List must be submitted with the offer	
	(b) Generator's operational/ first line spares, tools, accessories and kits (SPTA)	One (01) complete set per generator to be provided by the supplier and included in the SPTA of radar. (To be confirmed)	
	(c) Provision for SST, Special Testing Equipment, Performance Test, fault finding & rectification gauges for generator.	To be provided (To be confirmed)	
	(d) List of special service materials (SSM) for generator.	To be provided. (To be confirmed)	
	(e) Provision of fast and slow moving spare parts for 05 (five) years	To be provided (To be confirmed) List to be provided with Tech Spec	
	(f) 100% master spare parts catalogue (parts catalogue) generator	To be provided (To be confirmed)	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
10.	Radar Vehicle		
	a. Make and Model of the vehicle	To be mentioned	
	b. Drive	Must be Right Hand Drive	
	c. Type	Non armoured military version with cross country facility	
	b. Make and Model of the Chassis	To be mentioned	
	c. Country of Origin	To be mentioned	
	d. Country of Assembly (If different from country of origin)		
	e. Year of manufacture	Not before the contracted year	
	f. Dimension		
	(1) Length of the vehicle in static condition	To be mentioned	
	(2) Length of the vehicle in traveling condition	To be mentioned	
	(3) Width of the vehicle in static condition	To be mentioned	
	(4) Width of the vehicle in traveling Condition	To be mentioned	
	(5) Height of the vehicle with antenna mounted (if radar is cabin mounted on the vehicle chassis)	To be mentioned	
	(6) Height and width of driver's cabin	To be mentioned	
	(7) Tread front	To be mentioned	
	(8) Tread rear	To be mentioned	
	(9) Wheel base	To be mentioned	
	(10) Front over hang	To be mentioned	
	(11) Rear over hang	To be mentioned	
	g. Ground Clearance	To be mentioned	
	h. Fuel tank capacity and Mileage	To be mentioned	
	j. Fording capability	To be mentioned	
	k. Approach and Departure angle	To be mentioned	
	l. Grade ability	To be mentioned	
	m. Side slope	To be mentioned	



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Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	n. Turning Radius	To be mentioned	
	p. Vertical obstacle the vehicle can ascend	To be mentioned	
	q. Vertical obstacle the vehicle can descend	To be mentioned	
	r. Maximum speed on highway road	70 Km/hour or above. Exact speed to be mentioned.	
	s. Maximum speed at cross country	To be mentioned	
	t. Ground pressure	To be mentioned	
	u. Configuration	To be mentioned	
	w. Gross vehicle weight	To be mentioned	
	x. Curb weight	To be mentioned	
	y. Pay load of veh	To be mentioned	
	z. Power to weight ratio	To be mentioned	
	aa. Transmission	To be mentioned	
	(1) Make and model	To be mentioned	
	(2) Type of Gear/Gear shifting mechanism	To be mentioned	
	(3) Number of forward and reverse gear	To be mentioned	
	(4) Gear Ratios	To be mentioned	
	(5) Speed at various Gear	To be mentioned	
	(6) Transfer case (with ratio)	To be mentioned	
	(7) Differential lock	To be mentioned	
	(8) Clutch	To be mentioned with plate dia	
	bb. Suspension system: (1) Front (2) Rear	To be mentioned	
	cc. Axle.		
	(1) Front.		
	(a) Make & Model	To be mentioned	
	(b) Country of Origin	To be mentioned	
	(c) Capacity	To be mentioned	
	(2) Rear.		
	(a) Make & Model	To be mentioned	
	(b) Country of Origin	To be mentioned	
	(c) Capacity	To be mentioned	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	dd. Brake		
	(1) Service brake	To be mentioned	
	(2) Parking brake	To be mentioned	
	(3) Emergency brake	To be mentioned	
	(4) Auxiliary brake	To be mentioned	
	(5) Pneumatic brake	To be mentioned	
	ee. Seating capacity	Driver, Radar/System Operators and Technician should be accommodated.	
	ff. Lighting System		
	(1) Normal traffic lights	Details to be mentioned	
	(2) Other lights	02 x Front fog lights, 02 x Tail fog lights at rear 02 x Search light	
	(3) Blackout lights	01x Blackout head light at front (RH), 02 x Blackout side lights at front (RH & LH), 02 x Blackout side lights at rear (RH & LH)	
	gg. Air conditioning system for the driver's cabin	To be mentioned	
	hh. Steering system	Standard hydraulically assisted steering system	
	jj. Engine		
	(1) Make and model	To be mentioned	
	(2) Country of origin	To be mentioned	
	(3) Type	Diesel Turbo charging intercooler	
	(4) Year of manufacture	Not before the date of contract	
	(5) Horse power with rated RPM	To be mentioned	
	(6) No of cylinder	To be mentioned	
	(7) Piston displacement	To be mentioned	
	(8) Max Torque with RPM	To be mentioned	
	(9) Bore & Stroke	To be mentioned	
	(10) Compression ratio	To be mentioned	
	(11) Air cleaner	To be mentioned	
	(12) Cooling system	To be mentioned	
	(13) Fuel injection pump	To be mentioned	
	(14) Life expectancy of engine	Life expectancy of new engine up to 1 st overhauling mileage and hours to be mentioned. Certificate must be submitted by manufacturer/ supplier.	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	kk. Lubrication		
	(1) Total capacity of the lubricant in the system (L)	To be mentioned	
	(2) Operating pressure in lubrication system	To be mentioned	
	ll. APU (Auxiliary Power Unit).(If any)		
	(1) Model and type of APU	To be mentioned	
	(3) Country of Origin and manufacturer	To be mentioned	
	(3) Type of fuel used on APU	Diesel	
	(4) Fuel capacity of APU	To be mentioned	
	(5) Location of APU on the vehicle	To be mentioned	
	(6) Operation hours of APU with topped up fuel	To be mentioned	
	(7) Whether power generation by MPU/APU is sufficient to operate all appliances including radar system, navigation and positioning system, communication/ radio sets etc.	To be mentioned and Certificate to be provided if required.	
	mm. Tyre		
	(1) Tyre brand	Bridgestone/Dunlop/Good year/Yokohama Toyo/Uniroyal Continental/ Michelin/ Folda/ Firestone/ Armstrong/AMTEL/ Pirelli. (Supplier to specify)	
	(2) Tread Pattern	Non-directional, must have maximum traction and cross country drive capability specially over mud and bog (Pattern to be mentioned).	
	(3) Country of Origin	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore and Thailand.	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	(4) Tyre and rim size		
	(a) Tyre size	To be mentioned	
	(b) Rim size	To be mentioned	
	(5) Number of tyres (including the provision of spare tyre)	To be mentioned	
	(6) Central tyre pressure regulation system	To be mentioned	
	(7) Run flat inserts	To be mentioned	
	pp. Power Input		
	(1) Voltage (2) Battery Voltage, Amp Hour (AH) and Quantity	To be mentioned	
	qq. Alternator (Volt and Amp)	To be mentioned	
	rr. Starter (Volt and Kw)	To be mentioned	
	ss. Self recovery	Self Recovery winch with reeling cable must be fitted with the radar vehicle. Length, material, pulling force (in Tons), drive mechanism etc to be mentioned.	
	tt. Towing hook/attachment for emergency	Towing hook/attachment must be fitted at front and rear of the vehicle for emergency towing/ lifting/pulling	
	uu. Observatory hatch	One observatory hatch with cover on the left side of the driver's cabin.	
	vv. Color (vehicle and radar)	To be mentioned	
	ww. Vehicle's operator/user's manual	To be provided (To be confirmed)	
	xx. Vehicle's maintenance manual	To be provided (To be confirmed)	
	yy. Vehicle's repair manual	To be provided (To be confirmed)	
	zz. Armour Protection Level at driver's cabin	To be mentioned	
	aaa. Fire extinguishing and suppression system		
	(1) Fire extinguishing	Fire extinguisher ABC&E type, origin and capacity to be mentioned (complete with chemical & fixing bracket) for both the vehicle and RADAR cabin.	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
	(2) Suppression system	Details to be mentioned (If any).	
	bbb. Other items to be included with the vehicle:		
	(1) Tools box (fitted with radar cabin/ main vehicle)	All essential and integral tools and accessories to be available fitted and supplied in the tools box (List to be submitted).	
	(2) Main vehicles operational/ first line spare parts, tools, accessories and kits (SPTA)	One (01) complete set per radar vehicle to be provided by the supplier and included in the SPTA of radar (List to be submitted).	
	(3) Provision for SST, Special Testing Equipment, Performance Test, fault finding & rectification gauges for main vehicle and radar components.	To be provided (To be confirmed)	
	(4) List of special service materials (SSM)	To be provided (To be confirmed)	
	(5) Spares.	All required fast moving spares for initial 03 years after warranty period for functioning and maintenance should be proposed by Supplier.	
	(6) 100% master spare parts catalogue (parts catalogue)	To be provided (To be confirmed)	



Serial	Facts	Technical Specification	Remarks
(a)	(b)	(c)	(d)
11.	Miscellaneous		
	a. Manuals/ CD/ DVD	<p>Complete sets of following catalog/manuals and documents (in English) along with soft copies in the form of CD/DVD are to be provided along with the each supplied Radar System and vehicle:</p> <ul style="list-style-type: none"> a. 05x sets of illustrated parts catalogue (IPC) up to component level, i.e. the parts catalogue of component are to be provided. b. 05x sets of Operational and Technical manual of all equipment are to be provided in hard and soft copy (05 sets of DVD) c. Maintenance/ technical manual up to 3rd line maintenance are to be provided in 05xsets along with DVDs. The technical manual should consist of: <ul style="list-style-type: none"> (1) Block diagram. (2) Elaborate circuit diagram. (3) Troubleshooting with rectification procedures through flow chart d. Assurance for future support of change notices and bulletins should be there to support the above mentioned sets, i.e IPC Operational Manual and Maintenance Manual automatically. 	
	b. Manufacturers of different components	<p>Different components/parts used for the radar/tower vehicle should be made in originating country or of similar standard by any European country. (Supplier to confirm)</p>	
	c. List of Standard Items and Accesories	<p>Detail list of standard items/accessories of the entire system requirement (for vehicle, radar and generator) for full range of operation to be mentioned</p>	



	d. Inspection	All parameters must be tested during the stage/pre-shipment inspection. If any parameter cannot be tested due to manufacturing country's policy, that should be tested with allowable limit in manufacturing country. However, same should be tested in BD during joint post-shipment inspection according to Preliminary Technical Specification.	
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