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06.06.0000.215.49.23/Test & Trial

Apr 2023

RE-EVALUATION OF GROUND SURVEILLANCE RADAR (GSR) FOR BANGLADESH ARMY

Reference:

- Army Headquarters, General Staff Branch, Infantry Directorate letter number 23.01.901.034.02.026.06. 11.04.23/01 dated 11 April 2023 (Not to all).
- In light of above reference, you are requested to submit the offer for the suitable models of Ground Surveillance Radar (GSR) directly to Army Headquarters, General Staff Branch, Infantry Directorate with intimation to this office by 10 May 2023 fulfilling the requirement mentioned bellow:
 - Letter of authorization by Manufacturer/Principal mentioning that the said company will be the local vendor/agent for offered model.
 - Manual (Original Printed by Manufacture) and CD.
 - Catalogue (Original Printed by Manufacture) and CD. C.
 - d. Catalogue of Spare Parts (Original Printed by Manufacture) and CD.
 - e. Brochure (Original Printed by Manufacture) and CD
 - Enlistment Certificate of DGDP. f.
 - Short video clip on the system. g.
 - h. Picture of standard and optional items.
 - Certification from Manufacturer on permission to export the said system to Bangladesh Army.
- Interested local firms/agents may collect the technical specification for above mentioned Ground Surveillance Radar (GSR) from this office. Forwarded for your information and necessary action please.

MD MAHBUBUR RAHMAN

Lieutenant Colonel For Director General

Enclosure:

Technical Specification-04 (Four) Pages.

Distribution:

External:

Information:

Army Headquarters, General Staff Branch (Coordinate)

Army Headquarters, General Staff Branch, Infantry Directorate

Action:

All Concerned Supplier/Firm

Internal:

IT Section (For uploading to website)

TECHNICAL SPECIFICATION OF GROUND SURVEILLANCE RADAR (GSR)- SHORT RANGE (SR)

Ser	Description	Specification	To be filled up by the Manufacturer/Principal
(a)	(b)	(c)	(d)
	1: General Specification		
1.	Nomenclature	Ground Surveillance Radar (short Range)	
2.	Туре	Compact, lightweight and man portable military version	
3.	Model	To be mentioned	
4.	Country of Origin	Group B	
5.	Country of manufacturer	Group B	
6.	Country of assembly	Group B	
7.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and web address)	Details to be mentioned	
8.	Name of Principal with complete address (Office address, Telephone, Fax, Email and web address)	Details to be mentioned	
9.	Name of Local Agent with complete address (Office address, Telephone, Fax, Email and web address)	Details to be mentioned	
10.	Year of Production	Brand new and not earlier than the contracted year.	
Part-	2: Technical Specification	= _	
11.	Main Features		
	a. Should be easy to carry by 2/3 men in military type backpack harness or similar arrangement.		
	b. Should be easy to deploy/redeploy (Set-up/Re-setup) and operate by Infantry troops in battle field environment.		
	c. Should be used as a stand alone radar unit, also operate as multi unit radar cluster via IP network (cable, fiber-optic LAN, Wi-Fi, etc.) from any		
	standard PC. d. Should have the facility to operate remotely (Minimum 100 m away from the antenna) via cable.		
	e. Should be able to operate all weather high clutter condition (weather of Bang continuous rainfall almost 6 months in side is thickly vegetated and long distated by tall grasses/small bushes)		
	g. Should have GPS unit to determine	own position and true north.	
	h. Should have the arrangement of integrate different map formats.		
	j. Should be able to detect, identify and classify the object/target.		
	k. Should operate by portable arrangement for vehicular power and (50 Hz)	-	
	Should have the optional provision to additional arrangement.	mount on mast/vehicles as an	
12.	Frequency Band	To be mentioned	
13.	Operating Frequency Range and Bandwidth	To be mentioned	
14.	No of channels and grouping	Details to be mentioned	
15.	Beam width	Details to be mentioned	il.
16.	Scan rates	Details to be mentioned	
17.	Scanning process and modes	Details to be mentioned	
18.	Transmission Type	Pulse Doppler/FMCW or any other additional facility to be mentioned	
10	Transmitting Power	Details to be mentioned	
19.	Transmitting Power	Details to be mentioned Details to be mentioned	
20.	Operation mode	Details to be mentioned	

21.	Max Detection and Classification Rai	nge:	
	a. Single Person	Minimum 3 Km	
	b. Small Vehicle/Water car etc	Minimum 5 Km	
Sec.	c. Large Vehicle/Tank Water craft etc	Minimum 8 Km	
	d. Low Flying Aircraft	To be mentioned	
22.	Instrumental Range	To be mentioned	
23.	Accuracy	To be mentioned	
		Number of Target Tracks, Plots	
24.	Target Capacity	and other details to be mentioned	
25.	Maximum Target Speed for Detection	To be mentioned	
26.	Maximum Target Per Scan	To be mentioned	
27.	Audio Alarm System	To be mentioned	
28.	Display Unit	Rugged display system and colour display having minimum 800 GB data storage. It should be a complete unit having all other required items and accessories. Details specification to be mentioned	
29.	<u>Antenna</u>		
	a. Type of Antenna	To be mentioned	
	b. Mode of Operation	Auto and Manual to be mentioned	
	c. Shape of Antenna	To be mentioned	
	d. Scan Area	Azimuth and Elevation-Details to be mentioned	
	e. Remote Operation	Should have the arrangement to operate remotely (100 m away	
		from Antenna) via cable Antenna mounting option to be	
	f. Mounting	mentioned	
	g. Any other features	To be mentioned	
30.	Power Supply and Battery a. Battery Pack (Rechargeable)	Details of Battery Pack(s) including, type, quantity and capacity to be mentioned (unit should provide minimum 12 hours continuous power support	
	b. Alternative Power supply	Should have the alternative power arrangement (s) to operate radar unit by vehicular power, and commercial power supply (220 volt, 50) should include necessary adapters, plug, socket, cables etc	
31.	Environmental Issue	Military Standard 810 Series or Similar European Standard. To be mentioned	
	a. Water Proof	Type of protection against (Rain/Plash/immersion) to be mentioned	
	b. Sand/Dust proof	Type of protection against Sand and dust to be mentioned	
	c. Shock/Vibration proof	Type of protection against Shock/Vibration to be mentioned	
	d. Operating storage temperature and Humidity	To be mentioned	
32.	Security Features		9
52.	a. Electronic detection	Type of protection against enemy (opponent) electronic detection to be mentioned	
	b. Jamming	Type of protection against enemy (opponent) Jamming to be mentioned	

d. Visual detection d. Visual detection d. Visual detection canculfage arrangement of radar antenna to obstruct visual enemy detection to be mentioned e. Other Security Arrangement! Feature available a. Operating Software 33. Software and Connectivity a. Operating Software b. Backup Software c. Interfacing/connectivity Port c. Interfacing/connectivity Port c. Interfacing/connectivity Port difference and connectivity Port c. Interfacing/connectivity Port difference and connectivity Port c. Interfacing/connectivity Port difference and connectivity Port difference				
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(7) Weight of the Tripod/mast (8) Height of the Tripod/mast Maximum & minimum		(6) User friendly and supporting softwa	are to support radar-camera	
(8) Height of the Tripod/mast Maximum & minimum			To be mentioned	
(0)				
(0) Cooled/Uncooled		(9) Cooled/Uncooled	To be mentioned	

		RESTRICTED	
	(10) Weight of the camera	To be mentioned	
	(11) Magnification	To be mentioned	
	(12) Generation	To be mentioned	
	Accessories (Price of the accessories	should quoted separately this	
	price will not be included with the total p		
	b. Solar Battery Charger	Compatible for the radar unit with	
	,	required accessories	
	c. Any other accessories (If any)	To be mentioned	
Part-	3 : TRAINING REQUIREMENT		
44.	a. Various uses	To be provided (As per	
	b. General care and field	requirement of Infantry	
	maintenance	Directorate)	
	c. Storage related training		
Part-	3B : OPERATION, REPAIR AND MAIN	TENANCE TRAINING	
45.	Operation, repair and maintenance	To be provided (As per	
-1 J.	training	requirement of EME Directorate)	
Part	3C : EQUIPMENT MANAGEMENT TRA		
46.	Equipment management training	To be provided (As per	
40.	Equipment management training	requirement of Ordnance	
		Directorate)	
PΔR.	T-4: REPAIR AND MAINTENANCE I		
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47.	a. SST/measuring & testing /fault	If available list to be provided (as	
77.	finding and diagnostic set	per requirement of EME	
	Infamg and diagnostic set	Directorate)	
	b. SSM	If available list to be provided (As	
	2. 33.01	per requirement of EME	
		Directorate)	
	c. Publications	·	
	(1 Owners/operations manual in	To be provided (As per	
	English (book type) including	requirement of EME Directorate)	
	CD/DVD)		
	(2) Workshop/repair manual in	To be provided (As per	
	English (book type) including		
	CD/DVD)		
	(3) 100% Updated master	To be provided (As per	
	spare parts catalogue in English	requirement of EME Directorate)	
	(book type) including CD/DVD		
	(4) Complete and updated		
	master spare parts price	requirement of EME Directorate)	
	catalogue/list in English (book type)		, i
	including CD/DVD)		
Part-	5 : LIST OF SPARES		
48.	List of spares	To be provided	
Part-	6: TOOLS LIST FOR DIFFERENT LEV	EL OF MAINTENANCE	
49.	Tool list for different level of	To be provided	
	maintenance	·	
Part-	7 : FINANCIAL SPECIFICATION		
50.	Financial aspects		
	a. Price of Weapon System	To be provided	
	with standard accessories		