

Directorate General Defence Purchase  
Ministry of Defence  
New Airport Road  
Tejgaon Dhaka-1215  
Tel: 5038 (Army) 48116910 (BTCL)  
Fax: 880-2-48111455  
E-Mail: adp2army1@dgdp.gov.bd

Ashwin 1430

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06.06.0000.215.49.23/Test & Trial

**PROCUREMENT OF LASER RANGE FINDER (LRF)**

Reference:

A. Army Headquarters, General Staff Branch, Infantry Directorate letter number 23.01.901.034.02.092.17. 10.10.23 dated 10 October 2023 (Not to all).

1. In light of above reference, a technical specification of LRF is attached with this letter. Interested authorized vendors/firms/local agents of the manufacturers are requested to submit your offer for above mentioned LRF directly to Army Headquarters, General Staff Branch, Infantry Directorate with intimation to this office **by 12 November 2023** fulfilling the requirements mentioned below:

- a. Offer as per technical specification.
- b. Letter of authorization by Manufacturer/Principal mentioning that the said company will be the local vendor/agent for offered model.
- c. Manuals (Original Printed by Manufacture) and CD.
- d. Catalogue (Original Printed by Manufacture) and CD.
- e. Catalogue of Spare Parts (Original Printed by Manufacture) and CD.
- f. Brochure (Original Printed by Manufacture) and CD.
- g. Enlistment Certificate of DGDP.
- h. Short Video clip on the system.
- j. Picture of standard and optional items.
- k. Certification from manufacturer on permission to export the said system to Bangladesh Army.

2. Forwarded for your information and necessary action please.



**MD MAHBUBUR RAHMAN**  
Lieutenant Colonel  
For Director General

Enclosure:

1. Technical Specification-04 (Four) Pages Only.

Distribution:

External:

Information:

Army Headquarters, General Staff Branch (Coordinate)

Army Headquarters, General Staff Branch, Infantry Directorate

Action:

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All Concerned Supplier/Firm

Internal:

IT Section (For uploading to website)

Notice Board

**TECHNICAL SPECIFICATION FOR LASER RANGE FINDER (LRF)**

Ser	Description	Specification	Offered Specification	Remarks
<b>Part-1: General Specification</b>				
1.	Nomenclature	Laser Range Finder		
2.	Model	To be mentioned		
3.	Country of origin	To be mentioned		
4.	Country of manufacturer	To be mentioned		
5.	Country of Assembly	To be mentioned		
6.	Name of Manufacturer with complete address (office address, Telephone, Fax, Email and web address)	To be mentioned		
7.	Name of Principal with complete address (office address, Telephone, Fax, Email and web address)	To be mentioned		
8.	Name, Address, Contact Number, Website/E-mail Address of the Local Agent	To be mentioned		
9.	Year of manufacture	Not earlier than the calendar year of contract		
<b>PART-2: Technical Specification</b>				
10.	Colour	Olive Green/Camouflage		
11.	<b>Dimension in mm</b>			
	a. Length	To be mentioned		
	b. Width	To be mentioned		
	c. Height	To be mentioned		
12.	Weight (with battery & eye piece protector)	Not more than 2.5 kg		
13.	<b>Range</b>			
	Minimum range	To be mentioned		
	Maximum range	Not less than 5000 m		
14.	<b>Accuracy</b>			
	a. Distance measurement accuracy (m)	Not more than $\pm 5m$ at 5000m		
	b. Azimuth measurement accuracy (Degree/Mils)	To be mentioned		
	c. Elevation measurement Accuracy (Degree/Mils)	To be mentioned		
15.	False alarm rate (in %)	To be mentioned		
16.	Resolution on display	To be mentioned		
17.	Multiple targets	Minimum 3 targets in line of sight		
18.	Time per measurement	Not more than 0.9sec		
19.	First /last Target logic	To be mentioned		
20.	Last 10 readings recall	To be mentioned		
21.	Latitude and longitude reading	To be available		
22.	Distance between objects	To be available		
23.	Horizontal distance between objects	To be available		
24.	Azimuth difference between objects	To be available		
25.	Inclination difference between two objects	To be available		
26.	Height difference between objects	To be available		
27.	Night vision and range finding at night	To be available		

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Ser	Description	Specification	Offered Specification	Remarks
28.	<b>Built-in GPS/GPS (To be available)</b>			
	a. User GPS coordinates (Mil Grid Ref is preferable)	To be mentioned		
	b. Target GPS coordinates (Mil Grid Ref is preferable)	To be mentioned		
	c. GPS coordinates format (Mil Grid Ref is preferable)	To be mentioned		
29.	Display type	Light emitting diodes (LED) with automatic brightness control		
30.	Display Size	To be mentioned		
31.	Laser type	To be mentioned		
32.	Connectivity with android device	To be available		
33.	Eye safety of Laser	To be available		
34.	Sleeping mode	To be mentioned		
35.	<b>Optics</b>			
	a. Observation (Binocular/Monocular)	To be mentioned		
	b. Lens	Details to be mentioned (including country of manufacture)		
	c. Magnification	Minimum 6x		
	d. Field of view in degree	To be mentioned		
	e. Reticle standard	To be mentioned		
	f. Eye relief in mm	To be mentioned		
36.	<b>Digital Magnetic Compass (azimuth and inclination) (Optional)</b>			
	a. Units, selectable	Degree/mils/ruks		
	b. Azimuth accuracy	Degree/mils/ruks		
	c. Maximum inclination angle	To be mentioned		
37.	Unit settings	Range: Meters, yards, feet Angles: mils, degree, ruks		
38.	Data Interface	To be mentioned		
39.	Interface cable	To be mentioned		
40.	<b>Power Supply</b> (Details to be mentioned (quantity, type, volt and charging facility etc)			
	a. Type of battery	Lithium Battery		
	b. Rechargeable	Must be rechargeable		
	c. Number of batteries required	To be mentioned		
	d. Battery volt	To be mentioned		
	e. Charger	To be available		
41.	Battery life (Number of measurements/ readings)	To be mentioned		
42.	Continuous Operation Time without replacing battery	Min 4000 measurements/ Min 72 hrs without charge		
43.	Low battery Indicator (visual/audio)	To be available		
44.	<b>Operating/Storage Condition</b>			
	a. Operating temperature range	-5° to +55°C		
	b. Storage temperature range	-10° to +60°C		
	c. Humidity permissible condition for operation	95%		
	d. Maximum permissible humidity condition for storage	100%		
	e. Operation during Fog, Rain, Dust and snow	To be possible		

RESTRICTED

Ser	Description	Specification	Offered Specification	Remarks
45.	<b><u>Environment Issue (Mil Std 810G)</u></b>			
	a. Shock Proof	Should sustain 06 drops from 120 cm height at every face and edge on the natural hard ground.		
	b. Water proof	Should sustain 30 minutes submerge under 1 meter water at normal temperature and pressure		
	c. Dust proof	Mil Std 810G		
	d. Vibration proof	Should sustain 05 minutes @ 250 RPM.		
46.	List of Standard Items	To be mentioned (Size, dimension and picture of tripod to be available)		
47.	List of Optional Items/Equipment/ Accessories	To be mentioned		
<b><u>Part 3: Training Requirement</u></b>				
48.	<b><u>Part-3A : User Training</u></b>			
	User Training	To be provided (As per requirement of Infantry Directorate		
<b><u>Part 3B: Operation, repair and Maintenance Training</u></b>				
49.	Operation, repair and maintenance training	To be provided (As per requirement of EME Directorate		
<b><u>Part-3C : Equipment Management Training</u></b>				
50.	Equipment management training	To be provided (As per requirement of Ordinance Directorate		
<b><u>Part-4 : Repair and Maintenance Requirement Less List of Spares</u></b>				
51.	a. SST/measuring & testing /fault finding and diagnostic set	To be provided (As per requirement of EME Directorate		
	b.SSM	To be provided (As per requirement of EME Directorate		
	<b><u>c. Publications</u></b>			
	(1) Owners/operations manual in English (book type) including CD/DVD)	To be provided (As per requirement of EME Directorate		
	(2) Workshop/repair manual in English (book type ) including CD/DVD)	To be provided (As per requirement of EME Directorate		
	(3) 100% Updated master spare parts catalogue in English (book type) including CD/DVD	To be provided (As per requirement of EME Directorate		
	(4) Complete and updated master spare parts price catalogue/list in English (book type) including CD/DVD)	To be provided (As per requirement of EME Directorate		

Ser	Description	Specification	Offered Specification	Remarks
<b><u>Part-5 : List of Spares</u></b>				
52.	List of spares	To be provided		
<b><u>Part-6 :Tools list for Different Level of Maintenance</u></b>				
53.	Tool list for different level of maintenance	To be provided		
<b><u>Part-7 : FINANCIAL SPECIFICATION</u></b>				
54.	<b><u>Financial aspects</u></b>			
	Financial aspects	To be provided		