

FOR OFFICIAL USE ONLY

Directorate General Defence Purchase
Ministry of Defence
New Airport Road
Tejgaon Dhaka-1215
Tel: 5044 (Army) 48118516 (BTCL)
Fax: 880-2-48111455
E-Mail: adp2army1@dgdp.gov.bd

12 Jaistha 1431

26 May 2024

06.06.0000.215.49.24/Test & Trial

TEST AND TRIAL OF THERMAL/NIGHT WEAPON SIGHT (SHORT RANGE) ON "NO COST NO OBLIGATION BASIS" FOR PROCUREMENT

Reference:

A. Army Headquarters, General Staff Branch, Infantry Directorate letter number 23.01.901.034.02.026.13. 15.05.24 dated 15 May 2024 (Not to all).

1. Please be informed that, Bangladesh Army is currently evaluating Thermal/Night Weapon Sight (Short Range) for procurement. It has been decided to conduct a deliberate test and trial in Bangladesh in order to short list suitable model of Thermal/Night Weapon Sight (Short Range) for tendering. As such, authorized vendors/firms/local agents of the manufacturers are requested to submit following documents against the offered model for test and trial on "**No cost, No Obligation**" basis by **15 June 2024** directly to Army Headquarters, General Staff Branch, Infantry Directorate with intimation to this office:

- a. Letter of authorization by manufacturer/principal mentioning your company as local vendor/agent for the offered model.
- b. Offer as per technical specification. (Approved technical specification is available with DGDP Registration Branch. The technical specification is a general technical specification which may be amended after detail test and trial if required).
- c. Manuals (Original Printed by Manufacturer) and CD of offered model.
- d. Catalogue (Original Printed by Manufacturer) and CD of offered model.
- e. Brochure (Original Printed by Manufacturer) and CD of offered model.
- f. Filled up **End User Certificate (EUC)**. (Blank EUC format is also available with DGDP Registration Branch).
- g. Enlistment Certificate of DGDP.
- h. Short video clip on the system (Optional).
- j. Picture of standard and optional items.
- h. Certification from Manufacturer on permission to export the said system to Bangladesh Army.

2. Please be informed that, the offered model to be brought to Bangladesh by **31 July 2024** as the test and trial is scheduled to be completed by **31 August 2024**. If foreign experts are required for the test and trial, then necessary security clearance and other formalities to be completed in coordination with the Army Headquarters, General Staff Branch, Infantry Directorate.

3. In light of the above, you are also requested to bring following items/accessories in Bangladesh for deliberate test and trial on "**No cost, No Obligation**" basis:

- a. 02x Thermal/Night Weapon Sight (Short Range) with necessary accessories.
- b. Any other accessories required to demonstrate all parameters of specification (if needed).

4. **For Accounts Section Branch Only.** Photocopies of approved technical specification and EUC format is attached herewith. You are requested to handover it to interested authorized vendor/firms/local agents.

5. Forwarded for your information and necessary action please.


RAIHAN RAHMAN
Major
For Director General

Enclosure:

1. Technical Specification-04 (Four) Pages.
2. End User Certificate (EUC) format-02 (Two) Pages.

Distribution:

External:

Information:

Army Headquarters
General Staff Branch (Coordination)

Army Headquarters, General Staff Branch
Weapon Equipment & Statistics Directorate

Army Headquarters, General Staff Branch
Infantry Directorate

Army Headquarters
Master General of the Ordnance Branch
Electrical and Mechanical Engineer Directorate

Army Headquarters
Master General of the Ordnance Branch
Inspection and Technical Development Directorate

Inspectorate of Electronics & Instruments
Dhaka Cantonment

Action:

All Concerned Supplier/Firm

Internal:

IT Section (For uploading to website)



PRELIM SPEC OF THERMAL WEAPON SIGHT – SHORT RANGE (SR)

Ser	Description	Specification	To be filled up by the Principal/Manufacturer
Part-1: General Specification			
1.	Nomenclature	Thermal Weapon Sight - Short Range (SR)	
2.	Brand	To be mentioned	
3.	Model	Specific model to be mentioned	
4.	Country of Origin	To be mentioned	
5.	Country of Manufacture	To be mentioned	
6.	Country of Assembly	To be mentioned	
7.	Year of Production	Not before the year of contract	
8.	Name of Manufacturer with complete address (office address, Telephone, Fax, Email and web address)	Details to be mentioned	
9.	Name of Principal with complete address (office address, Telephone, Fax, Email and web address)	Details to be mentioned	
10.	Name of Local Agent with complete address (office address, Telephone, Fax, Email and web address)	Details to be mentioned	
11.	Generation	Minimum Gen 3 and above or equivalent	
12.	Color	MB Green/Black	
13.	Warranty	Minimum 1 Year	
14.	After Sales service	10 Years	
15.	Model validity	Minimum 15 years from signing of contract	
16.	ISO Certificate	To be provided	
17.	Provision of following Capabilities		
	a. To enable an individual to observe during night/poor visibility.	To be available	
	b. To enable detection of static and moving objects at night/ poor visibility.	To be available	
	c. Can be used to aim at the target under starlight, moonlight and dark condition	To be available	
	d. Bore sight adjustment	To be available	
	e. Bore sight increment	To be available	
	f. Capable to operation during Fog, Rain and Snow	To be possible	
	g. Image and video recording capability (if available)	Details to be mentioned	
	h. Video output facility (if available)	Details to be mentioned	
	j. Data Transfer facility (if available)	Bluetooth/Wi-Fi/Cable (To be mentioned)	



Part-2: Technical Specification		
18.	General Requirements (Standing man size target)	
	a. Detection Range	Minimum 300 m
	b. Recognition Range	Minimum 200 m
	c. Identification Range	Minimum 100 m
19.	Optical.	
	a. Type of lens	To be mentioned
	b. Optical Magnification	To be mentioned
	c. Electronic Zoom	To be mentioned
	d. Field of View	To be mentioned
	e. Controls (Power On/Off, Zoom, Polarity, Reticle On/Off, Bore sight Adjustment, Brightness)	To be available
	f. Reticle type	To be mentioned
	g. Resolution	To be mentioned
	h. Display type and size	To be mentioned
	j. Objective lens Effective Focal Length	To be mentioned
	k. Eyepiece Lens	To be mentioned
	l. Focal length	To be mentioned
	m. Exit pupil relief	To be mentioned
	n. System distortion	To be mentioned
	p. Tilt adjustment	To be mentioned
	q. Blooming	To be mentioned
	r. Type of lens	To be mentioned
	s. Range of focus	To be mentioned
t. Diopter adjustment	To be mentioned	
u. Brightness control	Details to be mentioned	
20.	Thermal Imager (TI)	
	a. Generation	Minimum Gen 3 and above or equivalent (Certificate from manufacturer to be submitted)
	b. Name of Manufacturer with complete address (office address, Telephone, Fax, Email and web address)	Details to be mentioned
	c. Country of origin and Manufacturer	To be mentioned
	d. TI Tube model	To be mentioned
	e. Year of production	Not before the year of contract
	f. Spectral Band	To be mentioned
	g. Detector type (Cooled/ Uncooled)	Details to be mentioned
	h. Resolution	To be mentioned
	j. Pixel pitch	To be mentioned
	k. Image rate	To be mentioned
	l. Figure of merit (FOM)	To be mentioned
	m. Compatibility	Must be compatible with 7.62 mm Assault Rifle
	n. Signal to noise ratio	To be mentioned
	p. Modulation Transfer Function (MTF)	To be mentioned



	q. Highest/Lowest temperature spot tracking	To be mentioned																									
	r. Spots in Each Zone	Spots in Each Zone to be mentioned as following:																									
		<table border="1"> <thead> <tr> <th>Spot Size (microns)</th> <th>Zone 1</th> <th>Zone 2</th> <th>Zone 3</th> </tr> </thead> <tbody> <tr> <td>401-500</td> <td></td> <td></td> <td></td> </tr> <tr> <td>301-400</td> <td></td> <td></td> <td></td> </tr> <tr> <td>251-300</td> <td></td> <td></td> <td></td> </tr> <tr> <td>151-250</td> <td></td> <td></td> <td></td> </tr> <tr> <td>75-150</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Spot Size (microns)	Zone 1	Zone 2	Zone 3	401-500				301-400				251-300				151-250				75-150				
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	s. Operational life	To be mentioned																									
21.	<u>Weight and Dimension</u>																										
	a. Weight of the device without mount	To be mentioned																									
	b. Weight of the device with mount	To be mentioned																									
	c. Length	To be mentioned																									
	d. Width	To be mentioned																									
	e. Height	To be mentioned																									
22.	<u>Mounting</u>																										
	a. To be mounted with 7.62 mm Assault Rifle (of Bangladesh Army) with the base of picatinny rail	To be available																									
	b. Mechanism of quick attachment and detachment	To be mentioned																									
23.	<u>Power Supply/ Power Source</u>																										
	a. Type of battery and quantity	Lithium Battery (rechargeable)																									
	b. Brand and Model	To be mentioned																									
	c. Country of Manufacture	To be mentioned																									
	d. Source voltage for charging	To be mentioned																									
	e. Battery life	Minimum 10 hours in one charge																									
	f. Low battery indicator	To be available																									
	g. Charging Facility (01x Charger for each device)	To be available																									
	h. Solar Charging (if available)	To be mentioned																									
	j. Spare battery	01 set for each Thermal Weapon Sight																									
24.	<u>Operating/Storage Condition</u>																										
	a. Operating temperature range	-5° to +55°C																									
	b. Storage temperature range	-5° to +55°C																									
	c. Humidity permissible condition for operation	95%																									
	d. Operation during Fog, Rain and snow	To be possible																									
	e. Shelf life	Minimum 10 years																									
25.	<u>Environment Issue (Mil Std 810G)</u>																										
	a. Shock Proof	Drop on each face, edge and corner-total 26 drops from 01 meter height on hard ground.																									
	b. Water proof	Minimum 30 minutes at 01 meter depth in normal temperature and pressure																									
	c. Dust proof	Mil Std 810G																									



RESTRICTED

	d. Vibration proof	05 (Five) minutes at 250 RPM (Revolution Per Minutes).	
	e. Temperature proof	-5° to +55°C	
26.	Carrying pouch/hard case with strap	To be provided	
27.	List of Standard Accessories	List to be provided	
28.	List of Optional Accessories	List to be provided (User Dte will select as per requirement)	
Part-3 : TRAINING REQUIREMENT			
29.	User Training	To be provided (As per requirement of User Dte)	
	Operations, Repair and Maintenance Training	To be provided (As per requirement of EME Dte)	
	Inventory Control and Equipment Management Training	To be provided (As per requirement of Ord Dte)	
	Quality Control Training	To be provided (As per requirement of ITD Dte)	
	Publication on Training	To be provided	
PART-4: REPAIR AND MAINTENANCE REQUIREMENT LESS LIST OF SPARES			
30.	a. Measuring & Testing /Fault Finding and Diagnostic Set	If available list to be provided (As per requirement of EME Dte)	
	b. Special Service Material (SSM)	To be offered (EME Dte will select as per requirement)	
	c. Special Service Tools (SST)	To be offered (EME Dte will select as per requirement)	
	d. Publications		
	(1) Owners/Operations Manual in English and Bangla (Book Type) including CD/DVD)	To be provided (As per requirement of EME Dte)	
	(2) Workshop/Repair Manual in English and Bangla (Book Type including CD/DVD)		
	(3) 100% Updated Master Spare Parts Catalogue in English and Bangla (Book Type) including CD/DVD)		
	(4) Complete and Updated Master Spare Parts price Catalogue/List in English and Bangla (Book Type) including CD/DVD)		
Part-5 : LIST OF SPARES			
31.	List of Spares (Fast and Slow Moving Spares)	To be offered (EME Dte will select as per requirement)	
Part-6 : TOOLS LIST FOR DIFFERENT LEVEL OF MAINTENANCE			
32.	Tool list for different level of maintenance	To be offered (EME Dte will select as per requirement)	
Part-7 : FINANCIAL SPECIFICATION			
33.	Financial aspects	To be provided	



END USER CERTIFICATE

SECTION 1-PARTIES

(a) Name of Licensee	(b) Licensee's Reference
(c) Name of Consignee	(d) Consignee's Address
(e) Name of End-User	(f) End-User's Address
(g) Is the End user the armed forces or internal security forces of the Country?	(h) Specific location where goods will be user or based (if known) and if different from (f)

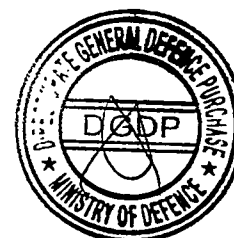
SECTION 2-GOODS

(a) Quantity of Goods	(b) Description of the Goods (for consumable goods, include length of time supplies are expected to last)
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Sign Here _____ Date _____
(Signature of official end-user)

Print Name _____
(Name and Job Title of Signatory in Capitals)

Role _____
(Name and Job Title of Signatory in Capitals)



SECTION 3-END-USE OF THE GOODS

For purpose of standardization process and demonstration to the Bangladesh Army

SECTION 4-END-USER UNDERTAKING 9

We- the person or body named at 1 (e) and 1 (f)- certify that we are the end-user of the goods described in Section 2, which are to be supplied by the licensee named in 1(a). We further certify that we shall use the goods for the purposes described in Section, 3; that the goods will not be used for any purpose connected with chemical, biological or nuclear weapons, or missiles capable of delivering such weapons; that they will not be re-exported or otherwise re-sold or transferred if it is known or suspected that they are intended or likely to be used for such purposes; that the goods will not be re-exported or otherwise re-sold or transferred to a destination subject to UN, EU or OSCE embargo where that act would be in breach of the terms of that embargo 10; and that the goods, or any replica of them, will not be used in any nuclear explosive activity or unsafeguarded nuclear fuel cycle

Sign Here _____ Date _____
(Signature of official end-user)

Print Name _____
(Name and Job Title of Signatory in Capitals)

Role _____
(Name and Job Title of Signatory in Capitals)

Note

- i Includes research on or development, design, manufacture, construction, testing or maintenance of any nuclear explosive device or components of subsystems of such a device.
- ii. Includes research on or development, design, manufacture, construction, operation or maintenance of any reactor, critical facility, conversion plant, fabrication plant, reprocessing plant, plant for the separation of isotopes of source or special fissionable material, or separate storage installation, there there is no obligation to accept IAEA safeguards at the relevant facility or installation, existing or future, when it contains any source or special fissionable material; or of any heavy water production plant where there is no obligation to accept IAEA safeguards on any nuclear material produced by or used in connection with any heavy water produce therefrom; or where any such obligation is not met.

