

संख्या. पी-63013/189/01/2023/मोड-1/सीसुबल 2550-62

भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

ब्लाक संख्या . 10,
सीजीओ काम्पलैक्स,
लोधी रोड, नई दिल्ली-03
दिनांक 17 मई 2024

सेवा में,

महानिदेशक:- आसाम राईफलस (through LOAR), केन्द्रीय ओद्योगिक सुरक्षा बल,
केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा बल,
राष्ट्रीय सुरक्षा गार्ड एवं पुलिस अनुसन्धान एवं विकास ब्योरो

विषय: अनुमोदित गुणात्मक आवश्यकता / परीक्षण निर्देशों का प्रेषण

तकनीकी विशेषज्ञों के उप समूह द्वारा किए गये सूत्रीकरण एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित "ATP Station for EOTS (Electro Optical Thermal Sensor" के गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न : उपरोक्तनुसार

इ. दे. सिंह

(इन्द्र देव सिंह)
उप महानिरीक्षक (रसद)

प्रतिलिपि :-

- तकनीकी निदेशक
The Technical Director
राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ ब्लाक,
गृह मंत्रालय, नई दिल्ली
NIC, North Block, MHA
New Delhi, (द्वारा ई-मेल)
(ई-मेल पता : mpsugandhi@nic.in)
: आपसे अनुरोध है कि उक्त उपकरण के सूत्रीकरण किये गये गुणात्मक आवश्यकता / परीक्षण निर्देशों को गृह मंत्रालय की वैबसाइट (MHA website Division of MHA+ - Police Modernization Division- Qualitative Requirements-Qualitative Requirements of Machinery & Eqpt Items with Surveillance item) पर अपलोड करने का श्रम करें।
- SO (IT), North Block, MHA
(Through E-mail)
(E-mail address: soit@nic.in)
: कृपया उपरोक्तानुसार कार्यवाही करने का श्रम करें।
- तकनीकी विंग, सीमा सुरक्षा बल
: कृपया उक्त उपकरण के गुणात्मक आवश्यकता/ परीक्षण निर्देशों को सीमा सुरक्षा बल की वैबसाइट पर अपलोड करने का श्रम करें।
- Sh. Anoop Dhanvijay, Director- Buyer
Management (CPSEs & Central
Ministries), GOI. Ministry of
Commerce & Industry, Government
e-Marketplace. Jeevan Tara
Building.5-Parliament Street. New
Delhi-110001
E-mail:- anoop.dhanvijay@gem.gov.in
For info with request to upload the approved QRs & TDs of "ATP Station for EOTS (Electro Optical Thermal Sensor" on GeM Portal. Copy of QRs & TDs is attached with this letter.
- SIW, BSF
: वास्ते सूचनार्थ आपके पत्र संख्या-217/SIW/BSF/QC/ MOD/QRs/2022/1800-20 दिनांक 26 मार्च 2024 के संदर्भ में।
- फाईल।

QRs/TDs of ATP Station for EOTS (Electro Optical Thermal Sensor)

S/No	QRs/Specification		Trial Directive	Result expected / Desired
1	TI CAMERA	Auto and semi auto measurement of parameter in the spectral bands MWIR (3 to 5 μ m) and LWIR (8 TO 12 μ m) like MRTD, FOV, LOS COINCIDENCE.	Physically checked by the BOO	Must be as per QRs/Specification
2	CCD CAMERA	Measurement of parameters like MTF, CTF, SNR, Resolution, Distortion and FOV.	Physically checked by the BOO	Must be as per QRs/Specification
3	LASER DESIGNATOR/LRF	Auto and semi auto measurement of Pulse Energy and stability, PRF, Period, pulse width, beam divergence, coding, Range verification.	Physically checked by the BOO	Must be as per QRs/Specification
4	BORESIGHT TESTS	TI Camera to Laser, CCD to Laser and TI Camera to CCD.	Physically checked by the BOO	Must be as per QRs/Specification
5	NFOV Collimator (Off-Axis Parabolic Reflective Collimator)			
	a) Spectral Band	0.4 to 15 μ m	OEM/CoC certificate should be submitted by the firm.	Must be as per QRs/Specification
	b) Laser Wavelength	1535nm (TEM 01), 15401nm and 1064nm		
	c) Clear aperture	16"		
	d) Surface accuracy	$\lambda/6$ or better @650nm		
	e) F O V	2.9°		
	f) Focal length	70"		
	g) Material and Construction	Parabolic Pyrex with AL coating		

S/No	QRs/Specification		Trial Directive	Result expected / Desired
6	Source			
	a) IR Black body with target wheel	1535nm (TEM 01), 15401nm and 1064nm	OEM/CoC certificate should be submitted by the firm.	Must be as per QRs/Specification
	b) Temperature range	-20° C to 75°C		
	c) Absolute	3° C to 100°C		
	d) Temp Accuracy	0.01°C or better		
	e) Target Wheel	Motorised		
	f) Targets	4 BT 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 25 Cy/mRad		
		Pin Hole 0.1, 0.3, 0.6, 1 and 1.5 mRad.		
		Square Target 30x30, 60 x 60 mm		
		Step Target Standard		
		25µm in AZ and EL directions.		
		Special Targets Tank Shape, man shape.		
		Slit - 25µm width		
		Bore sight Target TI to Laser, CCD to Laser and TI to CCD.		

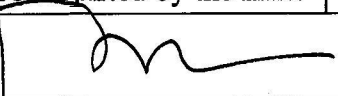
S/No	QRs/Specification		Trial Directive	Result expected / Desired
7	Visible Source			
	a) Lamp Type	Tungsten Halogen Lamp	OEM/CoC certificate should be submitted by the firm.	Must be as per QRs/Specification
	b) Brightness	0 to 1000 foot- Lambert		
	c) Colour Temperature	2900 to 3200° K (Fixed over intensity range)		
	d) Target Wheel	Motorised		
	e) Target	USAF consisting of 0 to 7 groups with 100% contrast		
	f) Bore sight Target	CCD to Laser		
8	Table	Optical Honey Comb Table	Physically checked by the BOO	Must be as per QRs/Specification
9	UUT Stage with capability to rotate the UUT in AZ, El and Linear Directions	AZ : $\pm 170^\circ$ EL : $\pm 10^\circ$ UUT stage Pay Load: 70kgs	Physically checked by the BOO and OEM/CoC certificate should be submitted by the firm in this regard.	Must be as per QRs/Specification
10	Industrial Computer and Monitor with Frame Grabber card and software	The hardware of Industrial computer must be compatible with IMCTS, size of Monitor not less than 15". The Operating software should be window 10 or better.	Physically checked by the BOO	Must be as per QRs/Specification
11	A4 Printer	Laser printer.	Physically checked by the BOO	Must be as per QRs/Specification


A series of handwritten signatures and initials in black ink, including names like 'Rami', 'Ansh', 'Raj', and 'M. B. D. S.', along with various scribbles and marks.

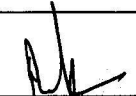
S/No	QRs/Specification		Trial Directive	Result expected / Desired
12	19" rack unit consisting of source controllers for black bodies visible source motion controller for UUT stages	19" rack unit consisting of source controllers for black bodies visible source motion controller for UUT stages must be provided.	Physically checked by the BOO	Must be as per QRs/Specification
13	Miscellaneous			
	Complete set of Software and HD copy	Complete set of Software and HD copy must be provided	Physically checked by the BOO	Must be as per QRs/Specification
	Technical Manual (Maintenance, Installation & Calibration)	Technical Manual (Maintenance, Installation & Calibration) must be provide		
	Operation Manual	Operation Manual must be provided.		
	Latest Spare Part Manual with part number and photograph.	Latest Spare Part Manual with part number and photograph must be provided.		
The warranty period should be at least one years after commissioning and repair and maintenance support for at least 10 years after completion of warranty period.	Under taking in this regard must be obtained from firm.	Under Taking in this regard must be obtained from firm	Must be as per QRs/Specification	


A collection of handwritten signatures and initials in black ink, including names like 'Rami', 'Amr', 'R', and 'MR. J...', along with various scribbles and marks.


S/No	QRs/Specification	Trial Directive	Result expected / Desired
14	Training Operator level training for 03 working days for 10 technicians should be imparted by the firm.	Under Taking in this regard must be obtained from firm	Must be as per QRs/Specification

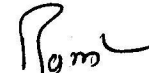

(Puneet Rastogi), IPS, ADG (Log), BSF


(K M Prasad), DIG (SIW), BSF

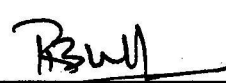

(Ajeet Kumar), Comdt(SIW), BSF

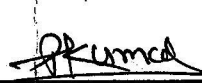

(S.N Choudhary), DC, CISF



(Anil Rajput), DC, NIE Cell


(Ram Pal), DC, ITBP



(Dr. Ajay Kumar Sharma), DC(Comn), SSB


(Rajeev Bhatt), SSO, BPR&D

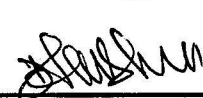

(Pradeep Kumar), JAD, DCPW


(Man Mohan Sharma), Team Cdr, NSG


(Inspr/RM Manish Raj), SIW, BSF


(Inspr/GD Naveen Jangid), CRPF


(Inspr/Comn Ashok Kumar Dixit), ITBP


(Sub/GD D P Mishra), Assam Rifles

Approved / Not approved


Director General
Border Security Force