

संख्या. पी-63013/210/01/2024/मोड-1/सीसुबल/ 4705-10

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 16 अक्टुबर 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 "QRs & TDs of Long Range Acoustic Device" के गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न : उपरोक्तनुसार

**आनन्द सिंह** 16/10/24  
(आनन्द सिंह तक्षक)  
उप महानिरीक्षक (रसद)

प्रतिलिपि :-

1. 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 'Long Range Acoustic Device' के सूत्रीकरण किये गये गुणात्मक आवश्यकता/परीक्षण निर्देशों जोकि गृह मंत्रालय की वैबसाईट (पुलिस आधुनिकीकरण संभाग ) के गुणात्मक आवश्यकता पोर्टल में मशीनरी एवं उपकरण के साथ निगरानी उपकरण वर्ग के अर्न्तगत संलग्न गुणात्मक आवश्यकता /परीक्षण निर्देशों को अपलोड करने का श्रम करें।
2. SO (IT), North Block, MHA  
(Through E-mail)  
(E-mail address: [soit@nic.in](mailto:soit@nic.in)) : कृपया उपरोक्तानुसार कार्यवाही करने का श्रम करें।
3. तकनीकी विंग, सीमा सुरक्षा बल : कृपया उक्त उपकरण के गुणात्मक आवश्यकता/परीक्षण निर्देशों को सीमा सुरक्षा बल की वैबसाईट पर अपलोड करने का श्रम करें।
4. 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](mailto:anoop.dhanvijay@gem.gov.in) For info with request to upload the approved Revised QRs & TDs of "Long Range Acoustic Device" on GeM Portal. Copy of QRs & TDs is attached with this letter.
5. Prov Dte (Ord Sec), BSF : वास्ते सूचनार्थ आपके पत्र संख्या-No.61027/Misc/2023/Ord/BSF/3100 दिनांक 18 जून 2024 के संदर्भ में।
6. फाईल।



**QRs & TDs of Long Range Acoustic Device (LRAD)**

S.No	Parameter	Specification	Procedure Suggested for Trial	Result Expected/ Desired
1.	<b>GENERAL DESCRIPTION:</b> A Long Range Acoustic Device is a specialized loudspeaker that produces sound at high power for communicating at a distance. It produces a very loud sound that is audible over relatively long distances.			
2.	<b>Distance:</b> 3000 m or more.		To be physically checked by the BOO.	Distance must be 3000 m or more.
3.	<b>Frequency Range :</b> 500 Hz- 10 kHz		Check the OEM certificate in this regard.	Frequency Range must be 500 Hz- 10 kHz.
4.	<b>Sensitivity :</b> 135 dB to 160 dB (Max) at 1m or better with a tolerance of $\pm 1\%$ . Sensitivity should be checked at 1 mtr using the db meter.		To be physically checked by the BOO.	Sensitivity must be between 135 dB to 160 dB (Max) at 1m or better with a tolerance of $\pm 1\%$ . Sensitivity should be checked at 1 mtr using the db meter.
5.	<b>RMS Power :</b> 3000 W or better		Check the OEM certificate in this regard.	RMS Power must be 3000 W or better.
6.	<b>Coverage Angle :</b> Horizontal 30° x Vertical 30° (min)		Check the OEM certificate for cover angle.	Coverage Angle must be Horizontal 30° x Vertical 30° (min).
7.	<b>Power consumption :</b> 3 KW		To be physically checked by BOO.	The power consumption must not be more than 3 KW.
8.	<b>Power Supply :</b> a. 110-270 Volt AC 50/60 Hz b. 12-36 Volt DC.		To be physically checked by the BOO.	The System must operate between 110-270 Volt AC and 12-36 Volt DC.
9.	<b>Weight:</b> Not more than 70 Kg with mounting mechanism alongwith tolerance of $\pm 10\%$ . <b>Option:-</b> Provide a rack for the Amplifier, Microphone and other required items (Weight extra).		To be physically checked by the BOO.	The operational weight must not be more than 70 Kg with mounting mechanism alongwith tolerance of $\pm 10\%$ . <b>Option:-</b> Provide a rack for the Amplifier, Microphone and other required items (Weight extra).
10.	<b>Pan &amp; Tilt Unit/Tripod:</b> The system should be mountable on adjustable Pan and Tilt Unit or Tripod.		To be physically checked by the BOO.	The direction and elevation must be adjustable by the user as per their requirement.

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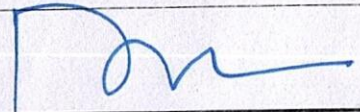


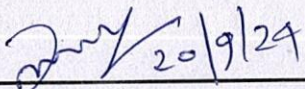
S.No	Parameter	Specification	Procedure Suggested for Trial	Result Expected/ Desired
11.	<b>Operating Temperature:</b>	- 20° to + 55° .	Check the NABL test reports in this regard.	Equipment must operate in the range of - 20° to + 55°
12.	<b>Installation Time :</b>	less than 30 minutes	To be physically checked by the BOO. The system should be installed and serviceable within 30 minutes.	The system must be installed and serviceable within 30 minutes.
13.	<b>Audio Input Method:</b>	Microphone, MP3 and can broadcast various kinds' life like voice.	To be physically checked by the BOO.	Audio Input Method must be Microphone, MP3 and can broadcast various kinds' life like voice.
14.	<b>Control Switch(s) :</b>	To control the sensitivity of the output and for frequency selection	To be physically checked by the BOO.	Control Switch(s) must control the sensitivity of the output and frequency.
15.	<b>Environmental:</b>	The equipment should comply with the MIL810 G/JSS55555 standard for Hot & Cold, Rain, Humidity Vibration and Shock.	Check the NABL test reports in this regard.	The equipment must comply with the MIL810 G/JSS55555 standard for Hot & Cold, Rain, Humidity Vibration and Shock.
16.	<b>Corrosion Free:</b>	The equipment material should be free from corrosion due to coastal atmosphere.	Check the NABL test reports in this regard.	The equipment material must be free from corrosion due to coastal atmosphere.
17.	<b>Technical Manual and Maintenance/Operation Manual</b>	be provided with the equipment.	-Physically checked by the BOO. -Soft copy to be supplied at the time of supply. Firm to give undertaking in this regard.	-Technical Manual and Maintenance/Operation Manual be provided with the equipment. -Undertaking to be checked
18.	<b>Warranty:</b>	The warranty period should be 2 years and repair and maintenance support for 10 years after completion of warranty period.	Undertaking in this regard must be obtained from firm.	The warranty period must be 2 years and repair and maintenance support for 10 years after completion of warranty period.

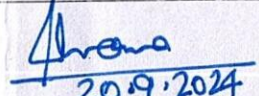
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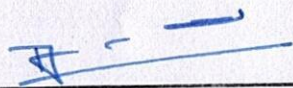


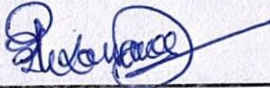
S.No	Parameter	Specification	Procedure Suggested for Trial	Result Expected/ Desired
19.	<b>Operator level training</b>		The firm should provide operator level training to at least 10 operator at firms premises for 05 working days. An Undertaking should be obtained in this regard.	The firm must provide operator level training to at least 10 operator at firms premises for 05 working days..

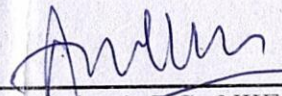
  
(Puneet Rastogi), IPS, ADG (Log), BSF

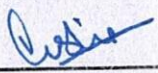
  
(Mahabir Prasad), DIG (WW), BSF

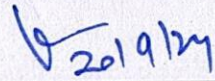
  
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(Happy Verma), Comdt(Ord), BSF

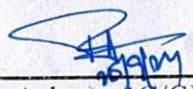
  
(Dinesh Kumar), Comdt, SIW, BSF

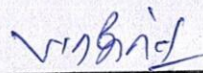
  
(K L Puri), SP, BPR&D

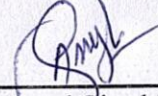
  
(Anil Rajput), DC, NIE Cell, BSF

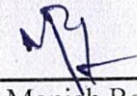
  
(Vishva Tyagi), JAD(P), DCPW


  
20.9.24  
(Umesh Kumar R), AC, CRPF

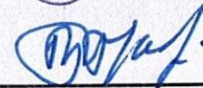
  
(Rajan Ashta), AC/GD, SSB

  
(Vijay Kr. Bind), AC/Exe, CISF

  
(Inspr/Tele Azad Singh), ITBP

  
(Inspr/RM Manish Raj), SIW, BSF

  
(Inspr/D Bhupender Singh), NSG

  
(N/Sub Madan Pal Tyagi), Assam Rifle

Approved / Not approved

  
Director General  
Border Security Force  
14/10