संख्या. पी-63013/195/01/2024/मोड-।/सीसुबल ८०१-12-

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 2025

वरिष्ठ तकनीकी निदेशक The Senior 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)

Sub: Request for comments of stakeholders/OEM on draft QRs & TDs.

कृपया गृह मंत्रालय के पत्र संख्या IV-24011/12/2011-Prov-I(part)(CFN 3300890)-1710 दिनांक 31 अगस्त 2015 के सन्दर्भ में।

उपरोक्त विष्यान्तर्गत यह सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा 2. Video Surveillance Ball-Revision के गुणातमक आवश्यकता / परीक्षण निर्देशों का प्रारूप दिनांक 05 मार्च 2025 को आयोजित सभा के दौरान तैयार किया गया था जिसको इस आश्य से प्रेषित किया जा रहा है कि उक्त गुणातमक आवश्यकता/परीक्षण निर्देश को गृह मंत्रालय की वैबसाईट पर 15 दिन के लिए अपलोड करने का श्रम करें ।

संल्गन : उपरोक्तनुसार

(दिगेन्द्र/सिंह पॅवार)

उप क्रमाण्डेंट (मोड)

## प्रतिलिपि:-

SO (IT), North Block, MHA 1. (Through E-mail) (E-mail address: soit@nic.in)

उपरोक्त समस्त गुणातमक आवश्यकता का मसौदा आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु।

IT Wing, FHQ BSF 2.

i) उपरोक्त उक्त गुणातमक आवश्यकता का मसौदे को सीमा सुरक्षा बल की वैबसाईट पर 15 दिन के लिए अपलोड करने का श्रम करें। आपसे अनुरोध है कि उक्त मसौदे को गृह मंत्रालय की वैबसाईट पर भी अपलोंड करने हेतु निम्नलिखित पतों पर ई-मेल करने का श्रम

करें:-

(a) Technical Director, NIC, North Block, MHA

(E-mail: mpsugandhi@nic.in) (b) SO (IT), North Block, MHA

(E-mail: soit@nic.in)

3. The Group Commander (Proc), HQr NSG, (Prov Branch: Ord Sec) Mehramnagar, Near Domestic Airport Palam,

N/Delhi-110037

: For information w.r.t your letter No. P/604/21/389/VSB/ Prov/Ord/HQ NSG/840 dated 06 Feb 2025.

## भारत सरकार, गृह मंत्रालय महानिदेशालय सीमा सुरक्षा बल

(रसद निदेशालय: आधुनिकीकरण सैल)

ब्लाक संख्या . 10,सीजीओ काम्पलैक्स,लोधी रोड, नई दिल्ली–03 (Email-comdtord@bsf.nic.in) (Fax: 011-24367683)

संख्या. पी-63013/195/01/2024/मोड-।/सीसुबल/ 💋 🗥

दिनांक <u>12</u>-मार्च 2025

विषय : "Video Surveillance Ball" के पुनः सूत्रीकरण गुणातमक आवश्यकता/परीक्षण निर्देशों पर हितधारकों/ निर्माताओं/ विकेताओं की टिप्पणी के लिए अनुरोध।

- 1. "Video Surveillance Ball" के पुनः सूत्रीकरण गुणातमक आवश्यकता और परीक्षण निर्देशों को परिशिष्ट 'ए' के रुप में संलग्न किया गया है। हितधारकों / निर्माताओं / विकेताओं से अनुरोध किया जाता है कि वे उस उत्पाद की विस्तृत एवं स्टीक जानकारी दें। साथ ही प्रत्येक पैरामीटर के अनुरुप अपने उत्पाद के सही विवरणों को प्रस्तुत करें। सिर्फ 'अनुपालना' या 'अनुपालना नहीं' वाली टिप्पणी स्वीकार नहीं की जाएगी।
  - क्या आप मूल उपकरण निर्माता / विकेता हैं?
  - यदि विकेता मूल उपकरण निर्माता का विवरण देता है।
  - मूल उपकरण निर्माता से प्राधिकरण प्रमाण पत्र।
  - उत्पाद की मूल सूची।
  - उत्पाद ब्रोशर एवं साहित्य रचना का ब्योरा
- 2. आवश्यक <u>जानकारी / विवरण</u> निम्नलिखित पते पर दिनांक 27 मार्च तक भेजने का श्रम करें। रसद निदेशालय, सीमा सुरक्षा बल लेवल-8, ब्लाक-10, केन्द्रीय कार्यालय परिसर, लोधी रोड, नई दिल्ली-110003 ईमेल:- comdtord@bsf.nic.in
- शीघ्र प्रतिकिया का अनुरोध किया जाता है।

(दिगेन्द्र सिंह पॅवार) माण्डेंत (आधनिकीकरण)

Government of India Ministry of Home Affairs Directorate General Border Security Force (Prov Dte: Mod Cell)

Block No.10, CGO Complex, Lodhi Road, New Delhi-03 (Fax: 011-24367683, Email-comdtord@bsf.nic.in)

No. P-63013/195/01/2024/Mod-I/BSF/809-17 Dated, the 12 March 2025

Subject: Request for comments of stakeholders/ OEM/ Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of "Video Surveillance Ball"- Revision

- The QRs/TDs of "Video Surveillance Ball" -Revision is attached as Appendix 'A'. The 1. OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their system against each parameter. Only complied or not complied remarks will not be accepted.
  - Whether you are OEM/Vendor?
  - If vendor details of OEM.
  - Authorization certificate from OEM.
  - Original catalogue of the product
  - Brochure/Literature of the product
- 2. The required information/details may please be forwarded at the following addresses by 27 March 2025:-

Directorate General BSF, Level-8, Block No. 10, CGO Complex, Lodhi Road, New Delhi-110003

Email: comdtord@bsf.nic.in

3. An early response is requested.

(Digendra Singh Panwar)

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Dy. Commandant (Mod)

## General.

- 1. Sensor- The Video Surveillance Ball should have following features
- (a) It should have audio and video Svl capacity.
- (b) Should be rugged enough to survive a "throw" upto height of 03 mtr and "roll" of more than 20 mtr with landing in rough terrain, concrete, piles of debris or through windows.
- (c) 360° audio and video coverage.
- (d) Continuous operation up to 02 hrs.
- (e) Night vision capability.
- 2. Receiver. Receiver should have following features:-
- (a) The portable Remote Display Unit should have a TFT display of minimum Five inches or more with inbuilt DVR capability to record and play back.
- (b) This should have output facility for recording on external device.
- (c) This should have S- Video, AV & USB port for extension of display of receiver through RF transmitter.
- (d) This should have LED indication for the signal strength of sensor and BITE test facility on display.

3. Technical Specifications.

S.No	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
(a)	Image sensor			
	(i) Resolution :- More than 450 TV Lines	Check the supporting documents provided by OEM/NABL accredited lab certificate.	Acceptable	
	(ii) Frame rate :- Live Video min 25 fps	Check the supporting documents provided by OEM/NABL accredited lab certificate.	Acceptable	
ŀ	(iii) Shutter operation :- Automatic	Should be checked physically by the BOO.	Acceptable	
	(iv) Number of cameras in image sensor :– Minimum Two	Should be checked physically by the BOO.	Acceptable	
(b)	Audio Microphone  (i) Audio detection :- Omni directional	Should be checked physically by checking input from all around by the BOO.	Acceptable	
	(ii) Sensitivity of audio microphone: – Should detect human	Should be checked physically by the BOO with the help of measuring tape.	Acceptable	
	voice from 5 mtr or more.  (iii) Squelch: – Automatic squelch to decrease noise.	Should be checked physically by the BOO with ear phone.	Acceptable	
C)	Video and Audio Transmission  (i) Indoor transmission distance: – 25 mtr Minimum.	Should be checked physically by the BOO with the help of measuring tape.		
	(ii) Outdoor transmission distance:–100 mtr Minimum.	Should be checked physically by the BOO with the help of measuring tape.		
	(iii) Frequency of control and feedback link/network: – License free.	Check the supporting documents provided by OEM.	y Acceptable	

.No	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
d)	Illumination			
	(i) Illumination wavelength: – Illumination by using	Should be checked physically by the BOO in the	Acceptable	
2	infrared LEDs not visible to Human Eye.	dark room with the help of the sensor and also	27	
	minuted BBs net test	check the supporting documents provided		
	(ii) Illumination distance: – 5 mtr or more	Should be checked physically by the BOO in the	Acceptable	
	(ii) Mainmation distance	dark room with the help of IR sensor and	1 To 1	
	1.45 - 1 1. W <sup>27</sup>	measuring tape.	. 1	
	(iii) Light sensor: – Automatic operation of illuminating	Should be checked physically by BOO in the dark	Acceptable	
	light depending on light condition of target area.	room with different light condition of target area.		
e)	Camera			
()	(i) Camera Range of sensors ball: – Less than 1 mtr	Should be checked physically by the BOO with the	Acceptable	
	to 20 mtr or more.	help of measuring tape.	•	
	(ii) PAN & Zoom:- PAN 360°, 2X Digital Zoom		Acceptable	
	day/night camera		-	
	(iii) Number of Cameras in one sensor:— Two	Should be checked physically by the BOO.	Acceptable	
	(iv) Camera selection/swap:— User selectable	Should be checked physically by the BOO.	Acceptable	
	Mechanical specifications	Chound of Chooses pay	•	
f)	100	Should be checked physically with the help of	Acceptable	
	(i) Dimensions of Ball unit:— 100 mm diameter or less	measuring scale by the BOO.	•	
	(") W '- Lt. 1V ~ (May)	Should be checked physically with the help of	Acceptable (suggested	
	(ii) Weight:- 1Kg (Max)	weight machine by the BOO.	weight upto 700 grams)	
	(11) Out of the colf stabilization	Should be checked physically by the BOO.	Acceptable	
	(iii) Stabilization and Motion:— Quick self-stabilization.	Should be encered physically by the 2001		
g)	Power Source	Should be checked physically by the BOO.	Acceptable	-
	(i) Rechargeable battery: – Li-lon/LiPO with protection	Should be effected physically by the Boot.		
	circuit.	Should be checked physically by the BOO.	Acceptable	
	(ii) Battery operation capacity:—	Should be checked physically by the Boo.	. 1000	
	Ball unit: Minimum 2 Hrs			
	<u>PDU</u> : Minimum 3 Hrs	Should be checked physically by the BOO.	Acceptable	
	(iii) Battery Charger:-	Should be checked physically by the Boo.	The Allen of Colombia	
	for PDU and Sensor	CL 111 - sheeled abusically by the POO	Acceptable	
	(iv) Battery Charging time: Less than 4 hours	Should be checked physically by the BOO.	Acceptable	
	(v) Battery Charger input: - 220-240V, 50 Hz AC and	Should be checked physically by the BOO.	Acceptable	
	provision from charging from the vehicle.			
	(vi) Fast Charger for charging of Sensor Battery and	Should be checked physically by the BOO.	Acceptable	
	PDU: - To be provided for Sensor and PDU to charge within			1
	02 hour			
h)	The display Unit- A touch-screen TFT display unit to receive and display audio and video reconnaissance data		The second second	3
,	picked up by Video Surveillance Ball.		Action was	
	(i) Remote Display Unit with system software:- The	Should be checked physically and supporting	TFT screen without	out

	OD /Cresification		Result expected/ Desired	Kemarks
O	QRs/Specification	document provided by original equipment	touch option.	
	11. Demote Dieplay Unit should have a 111 display	manufacturer (OEM) by the BOO.		
	the state of the s	Should be checked physically and supporting	Acceptable	
	(ii) Display:— The display should offer 360° FOV.	document provided by OEM by the BOO		
		Should be checked physically and supporting	Acceptable	
	(iii) Squelch:- Should have automatic squelch with digital	document provided by OEM by the BOO	(FOV(Horizontal) -360°)	
	noise filter.	document provides sy	(FOV (Vertical) -120°)	
		Should be checked physically by the BOO	Acceptable	
	(iv) Endurance: Should be 3 hours or more in continuous	Should be elected physically by	(via Headphone)	
-		Should be checked physically by the BOO	Acceptable	
_	(v) Memory:- Minimum of 128 GB or more storage for	Should be checked physically by the Boo		
		at 111 to look physically by the BOO	Acceptable (with 32 GB)	
- 1	Clar Mode: Power save mode should be available	Should be checked physically by the BOO		
	it is transmission not required from sensor.	to the transfer the by the ROO	Flip option manually	taa
		Should be checked physically by the BOO	through PDU	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	II. busha POO	Acceptable	
	placed upside down.  (viii) Audio output jack should be there to listen to the audio	Should be checked physically by the BOO.		
	being picked up by the ball. :- S - Video, AV and earphone	the state of the s		
	being picked up by the ball= 3	to arouided by	Acceptable	
	connectors for audio.  (ix) IP Standard for Ball units:— IP 65 or better	Check the supporting documents provided by	Acceptance	
	(ix) IP Standard for Ball units.—If 65 of Setter	#: God laboratory	Acceptable	E-
	No. of the second secon	Should be checked physically by the BOO	(2 hour recording but	
	(x) Recording:-		continuously10 minute	
	(i) Video (include audio) recording continued 02 hrs		minimum)	
	minimum		Illiminarry	
	(ii) Video extract option must be available.  Accessories:- The following accessories to be supplied with each of the supp	ach system in hard carrying case	Acceptable	
)	Accessories: The following accessories to be supplied	Should be checked physically by the BOO		
,	(i) Throw able camera ball :- 02	chould be checked physically by the Boo	Acceptable	
	01 01	Should be checked physically by the BOO	Acceptable	
	(ii) Training Ball:-01 (iii) Portable Operator Control Unit with Jacket and battery	는 사람들이 되었다. 그는 사람들이 보고 있는 사람들이 함께 보고 있는 사람들이 함께 되었다. 그 사람들이 보고 있는 사람들이 되었다. 그리고 있는 사람들이 되었다면 보고 있는 사람들이 되었다. 그리고 있는 사람들이 되었다면 보고 있는 사람들이 되었다. 그리고 있는 사람들이 되었다면 보고 있는 사람들이 되었다면 보고 있는 것이다.		1 -2
	(III) Portable Operator Commen	Should be checked physically by the BOO	Acceptable	
	charger :- 02 (iv) Camera Ball Charger :- 02	Should be checked physically by the BOO  Should be checked physically by the BOO	Acceptable ************************************	
	01	Should be checked physically by the BOO	Acceptable	
	(v) Head Phones: - 01 (vi) Telescopic Pole with adaptor: - 02 (For two balls	Should be enecked physically by the		
	(vi) Telescopic Pole with adaptor 02 (1 or	to be beginning the ROO	Acceptable	
	when both are required during the operation.)	Should be checked physically by the BOO	Acceptable	
	(vii) Spare Powering Pin: - 02	Should be checked physically by the BOO	Acceptable	
	(viii) User manual :- 01	Chould be checked physically by the BOU	Acceptable	
	(ix) Quick Reference Guide:- 01	of and he checked physically by the BOO	Acceptable	
	1 Critica Ol	Clauld be checked physically by the BOO		
	(xi) Door Hanger for Throw able camera ball:- 01	Should be checked physically by the BOO	Acceptable	- 1
	(xii) Door Hanger	Should be checked by		

S.No	QRs/Specification	Trial Directives	Dogult	4
	(xiii) Retrieval Rope:- 02	Should be checked physically by the BOO	Result expected/ Desired Acceptable	Remarks
k)	Additional Battery charger for PDU and ball units per deployment kit:- 01 X each charger for PDU & ball unit	Should be checked physically by the BOO	Acceptable	
1)	Carrying Case: A single backpack type carrying case housing the complete equipment and its accessories less the pole. A solider should be able to carry the equipment on his back conveniently. It should be preferably of camouflage pattern:-01	Should be checked physically by the BOO	Acceptable	F 2
20	Misc Aspects			
4.	<u>Literature</u> Operating and Technical literature for each d language.			
5.	<u>Demonstration and Training:</u> -Demonstration/Trail of one set of complete system with its full accessories to be given in Delhi on no cost no commitment basis. In site training of users for three days on operation, maintenance, fault finding and user level repairs.			
6.	Warranty:- Comprehensive warranty for 03 years.			
7.	Comprehensive Annual Maintenance Contract/ Repair covafter expiry of the warranty. The manufacturer shall guarantee customer within 10 days of reporting the fault, during the per cover to be made available in Delhi.			

तकनीकी विशेषज्ञों के उप समूह द्वारा यह निश्चित किया गया है कि उक्त गुणातमक आवश्यकता को अधिक बेहतर बनाने के लिए गृह मंत्रालय एवं सीमा सुरक्षा बल की वैबसाईट पर विकेताओं / फर्मों के सुझाव प्राप्त करने हेतु नियमानुसार पर्याप्त समय के लिए अपलोड किया जाए।

नोट - सभी विकताओं / फर्मों से निवेदन है कि अपने सुझावों के साथ निम्नलिखित कागजात संल्गन कर ई-मेल पता comdtord bsf.nic.in पर भेजने का श्रम करें:--

- 1. उत्पाद की वास्तविक विवरण पुस्तिका।
- 2. उत्पाद की साहित्यिक रचना का ब्यौरा।
- 3. गुणातमक आवश्यकताओं के उपर व्यापक टिप्पणीयाँ।

(दिगेन्द्रॅ सिंह पॅवार) उप कमांडेण्ट/(आधुनिकीकरण)