संख्या. पी-63013/56/2022/मोड-।/सीसुबल/ 2060-63

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 💇 जुलाई 2023

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.

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

2. उपरोक्त विष्यान्तर्गत यह सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा "HD Camera for Convoy Buses" के गुणातमक आवश्यकता / परीक्षण निर्देशों का प्रारुप दिनांक 06 दिसम्बर 2022 में आयोजित सभा के दौरान तैयार किया गया था जिसकी 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।

संलान : उपरोक्तनुसार

(दिगेन्द सिंह पैंबोर) उप कमाण्डेंट (मोड)

प्रतिलिपि :-

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

IT Wing, FHQ BSF

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

: i) उपरोक्त गुणातमक आवश्यकता / परीक्षण निर्देश का मसौदा सीमा सुरक्षा बल की वैबसाईट पर 15 दिन यानि 04 जुलाई 2023 तक अपलोड करने के लिए प्रेषित की जा रही है। उक्त मसौदे को सीमा सुरक्षा बल की वैबसाईट से दिनांक 20 जुलाई 2023 को हटाने का श्रम करें। आपसे अनुरोध है कि उक्त मसौदे को निम्नलिखित पतों पर ई—मेल करने का भी श्रम करें:-

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

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

(E-mail: <u>soit@nic.in</u>)

: For information w.r.t your U.O No.8343 dtd 03.06.2023

ICT Dte (Equipment Section)
 FHQ BSF

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-63013/56/2022/मोड-।/सीसुबल

: "HD Camera for Convoy Buses " के गुणातमक आवश्यकता / परीक्षण निर्देशों पर हितधारकों / निर्माताओं / विकेताओं की टिप्पणी के लिए विषय अनुरोध।

- "HD Camera for Convoy Buses" के गुणातमक आवश्यकता और परीक्षण 1. 'ए['] के रुप[ं]में संलग्न किया निर्देशों परिशिष्ट 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 ब्यौरा
- आवश्यक जानकारी / विवरण 19 जुलाई 2023 तक निम्नलिखित पते पर भेजे 2. जा सकते हैं।

रसद निदेशालय, सीमा सुरक्षा बल लेवल-८, ब्लाक-10, केन्द्रीय कार्यालय परिसर, लोधी रोड, नई दिल्ली-110003 ईमेल:- comdtord@bsf.nic.in

शीघ्र प्रतिकिया का अनुरोध किया जाता है। 3.

'सिंह पॅवार)

उप कमाण्डेंट (आधुनिकीकरण)

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-63013/87/02/2023/Mod-I/BSF/

Dated, the DY July 2023

Subject: Request for comments of stakeholders/OEM/Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of "HD Camera for Convoy Buses"

- 1. The revised QRs/TDs "HD Camera for Convoy Buses" is attached as Appendix 'A'. The 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. The firms are also requested to furnish the following details:-
 - 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 19.07.2023.

Directorate General BSF, Level-8, Block No. 10, CGO Complex, Lodhi Road, New Delhi-110003 Email: comdtord@bsf.nic.in

Email: condidia@bsi.mc.m

3. An early response is requested.

(Digendra Singh Panwar)

Dy. Commandant (Mod)

Draft QRs & Trial Directive of HD camera for Convoy Buses

QRs/Specification of IP camera:-

S/No.	Parameter	Specification	Trial Directives	Complied/ Not complied
IMAG	E SENSOR		3.2.2. 137% (1991) - 49	
01	Resolution	5 MP (2560*1668) or (2592 * 1944) or more	To be checked from the OEM data sheet or certificate	
02	Sensor type and size	1/2.7" or 1/2.5" CMOS 5MP Active pixel progressive scan Sensor	To be checked from the OEM data sheet or certificate	2000
LENS				A STATE OF THE STA
03	Field of view (FOV)	H:80 ⁰ and more V:55 ⁰ and more D:80 ⁰ and more	To be checked from the OEM data sheet or certificate	
04	Focus	Fixed focus	To be checked from the OEM data sheet or certificate	5% 3.7% A 3.7%
05	IR Range	60 Mtr and more	To be checked from the OEM data sheet or certificate	
HARD	WARE SPECIFICATIO	NS		No.
06	SD Card	128 GB or More	To be checked from the OEM data sheet or certificate	
07	Camera Adjustment Angle	Pan: 0 ⁰ to 360 ⁰ Tilt: 0 ⁰ to 90 ⁰ Rotation: 0 ⁰ to 360 ⁰	To be checked from the OEM data sheet or certificate	
IMAG	E AND VIDEO			8
08	No of stream Profiles	3 or more	To be checked from the OEM data sheet or certificate	
09	Stream Profiles	Main stream:2688 x 1520@(1-25/30fps) or more Sub stream 1: 704 x 480 @(1-30fps) or more Sub stream 2: 1920 x 1080@(1-25/30fps) or more	To be checked from the OEM data sheet or certificate	
10	Available Resolutions	5M 2880 x 1620 or 2960 x 1668 or 2592 x 1944	To be checked from the OEM data sheet or certificate	
11	Bitrate	H.265:32 Kbps or more	To be checked from the OEM data sheet or certificate	
12	Bitrate Type	CBR, VBR	To be checked from the OEM data sheet or certificate	
13	Video Compression	H.265, H.264, mjpeg	To be checked from the OEM data sheet or certificate	
14	Frame Rate	30 fps	To be checked from the OEM data sheet or certificate	

S/No.	Parameter	Specification	Trial Directives	Complied/ Not complied
15	Adaptive Streaming	Yes	To be checked from the OEM data sheet or certificate	
16	ONVIF Profiles	S and G	To be checked from the OEM data sheet or certificate	
17	Alarm Recording Pre and Post To be checked from the OEM data sheet or certificate			
18	SNR 55db or more To be checked from the OEM data sheet or certificated. DNR 2D/3D To be checked from the OEM data sheet or certificated.			
19				
20	SNR	55db or more	To be checked from the OEM data sheet or certificate	
21	DNR	2D/3D	To be checked from the OEM data sheet or certificate	
PROT	OCOLS SUPPORTED			
22	Supported protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTCP, RTSP, PPPOE, SMTP, NTP, HTTPS, TLS/SSL, FTP, ICMP, IGMP, UDP UPNP, 802.1x	To be checked from the OEM data sheet or certificate	
Opera	ting parameters		WESTER ALL BUT DE PROTESTANT D	
23	Power Supply 12V(DC), 802.3AF (PoE)		To be checked from the OEM data sheet or certificate	AND TO THE PARTY OF THE PARTY O
24	Operating Temperature	-30° C to 60°C	To be checked from the OEM data sheet or certificate	
25	Storage Temperature	-30° C to 60°C	To be checked from the OEM data sheet or certificate	
PHYSI	CAL PARAMETERS			
26	Communication Interface	10 Base-T/100 Base TX Ethernet (RJ-45)	To be checked from the OEM data sheet or certificate	Approximate the second
27	Storage	NAS, FTP, SD Card	To be checked from the OEM data sheet or certificate	
28	Certifications	BIS, IP67, IK-10	To be checked from the OEM data sheet or certificate	

QRS/SPECIFICATION OF NVR

S/No.	Parameter	Specification	Trial Directives	Complied/Not complied
Video				3
1	Input	8IP channels	To be checked from the OEM data sheet or certificate	
2	Output	HDMI-2 Port	To be checked from the OEM data sheet or certificate	
3	Compression	H.265/H.264/Motion JPEG	To be checked from the OEM data sheet or certificate	
AUDI	O			
4	Input	1 Channel, RCA Port	To be checked from the OEM data sheet or certificate	
5	Output	1 Channel, RCA Port	To be checked from the OEM data sheet or certificate	
6	Two way audio	Yes	To be checked from the OEM data sheet or certificate	
THRO	UGH PUT			

7	Downlink Throughput	300 Mbps	To be checked from the OEM data sheet or certificate	
8	Uplink Throughput	300 Mbps	To be checked from the OEM data sheet or certificate	
DISP	PLAY			
9	Split (Through LAN/ HDMI)	1/4/8	To be checked from the OEM data sheet or certificate	e warne
10	Digital Zoom on Live	Yes	To be checked from the OEM data sheet or certificate	
11	Snapshot	Yes (JPEG)	To be checked from the OEM data sheet or certificate	
12	Multiple Camera Viewing	Supported	To be checked from the OEM data sheet or certificate	
Reco	rding			
13	Image Resolution	8MP, 5MP, 3MP, 2MP, 1080P, 720P, DI, CIF	To be checked from the OEM data sheet or certificate	
14	Pre Record	Upto 30 Sec.	To be checked from the OEM data sheet or certificate	
15	Post Record	10-300 Sec.	To be checked from the OEM data sheet or certificate	
16	Recording Format	AVI/Native/MP4 (Any one)	To be checked from the OEM data sheet or certificate	(MATE)
17	Recording Types	Scheduled, Manual, Alarm	To be checked from the OEM data sheet or certificate	
STO	RAGE AND BANDWIDT	H OPTIMIZATION		
18	Adaptive recording	Automatically reduces the number of frames captured per second where there is no Motion, thereby saving storage space	To be checked from the OEM data sheet or certificate	,
19	Bandwidth Optimization	Automatically Adapts Optimized Resolution on local display through HDMI	To be checked from the OEM data sheet or certificate	
PLA	YBACK AND BACKUP			
20	Synchronous playback	08 Channels @ 1080p (via HDMI)	To be checked from the OEM data sheet or certificate	
21	Search Mode	Date and Time, Camera, Recording type	To be checked from the OEM data sheet or certificate	A 20 T Profession
22	Playback Modes	Fast forward, Slow forward, slow reverse, fast reverse.	To be checked from the OEM data sheet or certificate	
23	Backup	Manual backup over USB and local PC	To be checked from the OEM data sheet or certificate	
24	Configuration Backup	Not required	To be checked from the OEM data sheet or certificate	
25	Network Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnI SNMP, RTSP, UDP, SMTP, NTP, DHCP DNS, IP Filter, PPPoE, DDNS, FTP		
26	Maximum User	120	To be checked from the OEM data sheet or certificate	3/4
27	Remote Operation	Monitor, PTZ control, Playback, system Setting, Download, Log Information, Upgrade	To be checked from the OEM data sheet or certificate	

EVE	NTS AND ACTION			
28	Trigger Events	Supports Motion detection, View tampering, Tripwire, intrusion, Audio exception.	To be checked from the OEM data sheet or certificate	,
29	System Events	Manual Trigger, Disk Volume full, disk Fault	To be checked from the OEM data sheet or certificate	
30	Actions	Recording on Selected Channel, Email Notification with snapshot, TCP Notification, Recall PTZ Preset Position, turn On/Off alarm Outputs, Buzzer Notification.	To be checked from the OEM data sheet or certificate	
STO	RAGE INTERFACE	***************************************		
31	SATA Interface	2 SATA III (10TB per port)	To be checked from the OEM data sheet or certificate	
32	NAS	FTP	To be checked from the OEM data sheet or certificate	
33	USB	500 GB USB Drive	To be checked from the OEM data sheet or certificate	
34	Recording	Camera wise, HDD usage % wise.	To be checked from the OEM data sheet or certificate	
INTE	ERFACE			
35	Network interface	1 Port Ethernet (RJ-45) 10/100/1000 Mbps	To be checked from the OEM data sheet or certificate	
36	USB	2 USB Ports (1 Rear USB 3.0, I Front USB 3.0)	To be checked from the OEM data sheet or certificate	
37	Alarm Input	4	To be checked from the OEM data sheet or certificate	
38	Alarm Output	2	To be checked from the OEM data sheet or certificate	
39	Buzzer	Yes	To be checked from the OEM data sheet or certificate	
SYST	'EM INTERFACE			\$ 300 V/40
40	Processor	Octa-core embedded processor	To be checked from the OEM data sheet or certificate	
41	OS	Embedded Linux	To be checked from the OEM data sheet or certificate	
42	Control Mode	Mouse, Device client and mobile client	To be checked from the OEM data sheet or certificate	
ENVI	RONMENT CONDITIO	N		
43	Operating Temperature	-30° to $+60^{\circ}$ C	To be checked from the OEM data sheet or certificate	
ELEC	TRICAL AND MECHA	NICAL		
44	Power Input	12V DC	To be checked from the OEM data sheet or certificate	
OTH	ER REQUIREMENTS			
01	HDD/SSD 2TB AS Inter	rnal Storage	May be calculated as per camera attached.	
02	PoE Switch 8 Port	-	May be calculated as per camera attached.	
03	LAN/UTP Patch cable C	CAT-6	May be calculated as per camera attached.	
04	Display LCD Screen 4K	(Minimum-21 inch)	May be calculated as per camera attached.	

05	HDMI Cable	May be calculated as per camera attached.	
06	Cat-6 According to cameras distance	May be calculated as per camera attached.	
07	RJ-45 Connectors	May be calculated as per camera attached.	
08	SMPS	May be calculated as per camera attached.	
09	12 V 100 AHC B+Y.	May be calculated as per camera attached.	

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 15 दिनों 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।

(दिगेन्द्र सिंह पॅवार)

उप कमांडेण्ट (आधुनिकीकरण)