GOVERNMENT OF INDIA
(Ministry of Home Affairs)
COMMUNICATION & IT DIRECTORATE
CENTRAL RESERVE POLICE FORCE
EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066
(Email:- comncell@crpf.gov.in   Tele/Fax:011-26109038)

No. B.V-7/2023-24-C (QRs)   Dated, the   July'2023
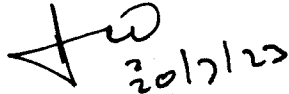
To

     1. The DsG: AR, BSF, CISF, ITBP, NSG, SSB and BPR&D
     2. Director, DCPW

Subject: <u>Regarding QRs/TDs of "Wideband Communication receiver" and "IP at core EPABX 600 & 1500 lines"</u>.

     I am directed to refer on the subject mentioned above and to say that the QRs/TDs of **(i) "Wideband Communication receiver" and (ii) "IP at core EPABX 600 & 1500 lines"** which has been recommended by CAPFs sub-group and experts from DCPW & BRP&D has been approved by the DG CRPF.

Encl:-As above

{Amit Taneja}
DIG (Equipment)
Communication & IT Branch
Directorate. General C R P F

No. B.V-7/2023-24-C (QRs)   Dated, the   July'2023

Copy to:-

     1. Sh. P.K. Singh, IAS, CEO(GeM), Jeevan Tara building- with request to create proper category on GeM portal for subject items (e-mail ID: ceo-gem@gov.in).
     2. Mrs. Sugandhi, Technical Director, North block, MHA with request to upload the approved QRs/TDs of (i) "Wideband Communication receiver" and (ii) "IP at core EPABX 600 & 1500 lines" on MHA website (e-mail ID: mpsugandhi@nic.in).

Encl:-As above

{Amit Taneja}
DIG (Equipment)
Communication & IT Branch
Directorate. General C R P F

QRs/ TDs OF IP AT CORE EPABX 48 to 600/1500 LINES

S N	Parameters	Specifications	Trial Directives
1.	IP at Core EPABX System implementation Technology/ Architecture.	IP core (server based switching).	Firm will produce OEM certificate.
2.	Number of Extensions	Option I:-Up to 600 lines Option II:- Up to 1500 lines (as per user requirement)	BOO will check practically..
3.	Expandable upto (SIP extension)	Option I:-2000, for Upto 600 lines Option II:-4000, for Upto 1500 Lines (as per user requirement)	BOO will check practically.
4.	Expandable up to (SIP Trunks)	128	BOO will check practically.
5.	Types of card supported	PRI, E1, GSM, Radio interface, Analog Trunk	BOO will check practically.
6.	Type of Gateway Supported	Universal Gateway PRI, E1, GSM, Radio Interface	BOO will check practically.
7.	Number of LIU	Upto 30 (As per requirement)	BOO will check practically.
8.	Number of OTE	Upto 60 (As per requirement)	BOO will check practically.
9.	Type of Operator Console (Optional)	Key phone based/PC based (As per requirement)	BOO will check practically.
10.	Number of Operator Console	01-04 (As per requirement)	BOO will check practically.
11.	Total Number of servers	02	BOO will check practically.
12.	Server form factor	Rack	BOO will check practically.
13.	Rack size	As per requirement	BOO will check practically.
14.	Processor make	Intel/AMD	BOO will check practically.
15.	Processor specification & Configuration	Intel Xeon E-2134, AMD EPYC 3151, 3.4 GHz or better	BOO will check practically.
16.	Number of processor	02 or more	BOO will check practically.

S N	Parameters	Specifications	Trial Directives
17.	Number of core per processor	08 or more	BOO will check practically.
18.	Type of RAM	DDR4 or better	BOO will check practically.
19.	RAM Size (in GB)	32 or better	BOO will check practically.
20.	Type of HDD	SATA / SSD	BOO will check practically.
21.	Capacity of HDD	1 TB or better	BOO will check practically.
22.	Capacity of Flash Drive	1 GB or better	BOO will check practically.
23.	Hot swap component	Server CPU and power supply unit, both	BOO will check practically.
24.	Network Interface	Integrated Dual Gigabit (AUTO) Ethernet Supporting IPv4 or IPv6	BOO will check practically.
25.	Application Software Type/ capabilities	Call server software, Hot standby server software, unified communication server software, NMS Software	BOO will check practically.
26.	Type of license	Perpetual	BOO will check practically.
27.	Free updates/ Supports during Validity of license	Yes	BOO will check practically.
28.	Salient software features	SIP extension with number of software / License commensurate / Equal to the number of SIP extension offered under Extension and Trunk / Junction, PRI Trunk with number of software / Licenses commensurate / Equal to the number of PRI Trunk Offered under Extension and Trunk / Junction.	BOO will check practically.
29.	Number of Audio Conference participants supported	32 or more	BOO will check practically.
30.	Number of video Conference participants supported	8 or more	BOO will check practically.

S N	Parameters	Specifications	Trial Directives
31.	Number of media ports	128 or better as per user requirement	BOO will check practically.
32.	Number of IP-TDM Concurrent calls (2 Users per call) Supported	Yes	BOO will check practically.
33.	Call buffer memory system	Yes	BOO will check practically.
34.	If call buffer Memory available, number of records	5000 or more	BOO will check practically.
35.	Voice Mail support	Yes	BOO will check practically.
36.	Number of voice mail users	600 or more	BOO will check practically.
37.	Auto attendance facility	Yes	BOO will check practically.
38.	Automatic message detail recorder/CDR/customize report	Yes	BOO will check practically.
39.	Security Features (for server Based)	MD-5, 802.1X, SRTP, AES	BOO will check practically.
40.	Supported Functionalities	UCS, LDAP, NMS	BOO will check practically.
41.	Supported Codec	G.711, G.729, G.723, H.264	BOO will check practically.
42.	System Features	Auto Route Selection Facility, DID, DOD, DISA Facility, IPv6 on Trunk as well as extension side, Multilevel voice DISA facility, DOSA Facility, privacy of call, facility for connecting recorded voice answering, ASMDR/ CDR, programmable class of service for (STD/ISD/Local) dialling as per need, Caller ID information for both internal and external callers, Unique auth codes for every users, Auto call Back, Call Waiting, Music on hold Facility, Call budgeting, least cost routing, mix mod dialling, provision for remote logins, interactive voice response system (IVRS), Extension dialling.	BOO will check practically. and Firm will produce OEM certificate.

S N	Parameters	Specifications	Trial Directives
43.	Extension features	Call forwarding, consultant hold, Brokers call, Auto call transfer, Conference call, call pickup, call re-routing, Auto call disconnection, dynamic STD lock, paging on key phones, background music, password control, virtual telephony, call parking, Auto answer/ Auto off, emergency call facility, missed / dialled/ received call list, last caller call back, password display suppression, personnel identification number, hotline, pre-set conf call, CLI, remote maintenance, other extn features.	BOO will check practically. and Firm will produce OEM certificate.
44.	Attendance console features	Answering and incoming call, call queuing, call waiting display, auto call distribution, call hold, trunk offering, night service, head phone connectivity, other attendance console features	BOO will check practically. and Firm will produce OEM certificate.
45.	Supply voltage	48 Volts DC, 230 Volts ±15% AC UPS supply (as per requirement)	BOO will check practically.
46.	Inbuilt battery charging arrangement for providing battery backup/ FCBC/ UPS (as per user requirement)	Yes	BOO will check practically.
47.	FCBC	Yes / No (as per user Requirement)	BOO will check practically.
48.	IF Yes, minimum current rating of FCBC at charging voltage of 48 V	12.5 Amps or more (as per user requirement)	BOO will check practically.

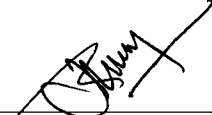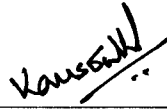| S N	Parameters	Specifications	Trial Directives
49.	Protection against over current and accidental reversal of polarity on the input side and against over current, over voltage of Output side	Yes	BOO will check practically. and firm will produce OEM certificate.
50.	Minimum operating temperature	0⁰ C	Firm will submit certificate of Govt lab or NABL/ ILAC accredited laboratory.
51.	Maximum operating temperature	45⁰ C or more	
52.	Operating humidity (RH) (%)	80 or more	
53.	Conformity to dry Heat for 16 Hours at max specified temp degree C in accordance with IS: 9000/ part -3 / section -5 / 1977 latest	Yes	
54.	Conformity to Cold test for 4 Hours at min specified temp degree C in accordance with IS: 9000/ part -2 / section -4 / 1977 latest	Yes	
55.	Conformity to damp Heat (cyclic) test for 2 cycles of 24 Hours each at a temp of 40⁰C and 95 % RH in accordance with IS:9000/ part-5/ section-1/ 1981 latest	Yes	Firm will submit certificate of Govt lab or NABL/ ILAC accredited laboratory.
56.	Installation and commissioning	Yes	Firm will produce OEM certificate.
57.	The scope of supply include one set of operation and maintenance manual for each equipment	Yes	BOO will check practically.
58.	Training provided to Buyers	Yes	Firm will produce OEM certificate.
59.	If yes, detail of training	Onsite training for 3 days or more (As per user requirement)	Firm will produce OEM certificate.
60.	Warranty	Minimum 3 Year or more (as per user requirement)	Firm will produce OEM certificate.

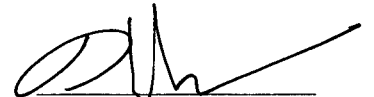| S N	Parameters	Specifications	Trial Directives
61.	DoT approved TEC GR certification	DoT approved TEC GR certification TEC6003:2016 (TEC/GR/SW/PBX -005/01/SEP-16)	Firm will submit DoT approved TEC certificate.
	Accessories (As per user requirement)		
62.	IP Phones, Analog Phones IPM, MDF Box, EPABX Earthing, Surge Protection, Connecting cables	Numbers will be decided by user agency during Bid.	BOO will check practically.

(Sub.D.P.Mishra)
Assam Rifles

(Insp/Com. Ranveer Singh)
CISF
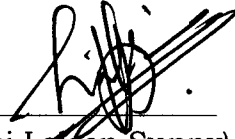
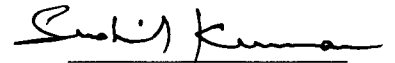(K.Saha, Asstt. Director)
DCPW

(P.L N Rajulu, AC)
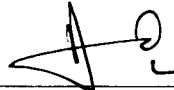SSB

(Sudhanshu Kumar, DC)
BSF

(Maj.Laison Sunny)
NSG

(Sunil Kumar Singh)
DC(Comn),CRPF

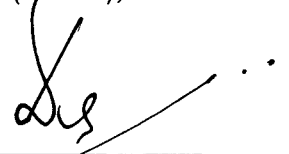(Sushil Kumar, PSO)
BPR&D

(Jaspreet Singh,2 I/C)
ITBP

(Amit Taneja)
DIG(Eqpt), CRPF

(P.C.Jha)
DIG(Comn), CRPF

(Syed Mohammad Hasnain)
IG (Comn& IT), CRPF

(Daljit Singh Chawdhary, IPS)
SDG (OPS), CRPF

Approved/Not Approved

(Dr.Sujoy Lal Thaosen, IPS)
DG, CRPF