GOVERNMENT OF INDIA (Ministry of Home Affairs) DIRECTORATE GENERAL CENTRAL RESERVE POLICE FORCE

EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066

(Email:- comncell@crpf.gov.in Tele/Fax:011-26107493)

No. B.V-7/2020-21-C (EPABX)

Dated, the December'2020

To

- 1. DIG (Comn), ITBP Block No. 2, CGO Complex Lodhi Road, New Delhi-03
- 3. DIG (Comn), SSB East Block-V, R.K Puram New- Delhi-66
- 5. DIG (Prov), BSF Block No. 10, CGO Complex Lodhi Road, New Delhi-03

- DIG (Comn), NSG
 Meharam Nagar
 Palam, New Delhi-37
- 4. AIG (Comn), CISF Block No. 13, CGO, Complex Lodhi Road, New Delhi-03
- Liaison Office, Assam Rifle Room No-171, North Block, MHA New Delhi -01

Subject: Regarding QRs/TDs of Communication Equipments

Please find enclosed QRs/TDs of "EPABX System (16-512 lines)" as Annexure-"A" duly approved by the competent authority is forwarded herewith for further necessary action.

Encl: 1.QRs & TDs of "EPABX System (16-512 lines)"

{P.R.Jha, DC (Comn)}

For DIG (Equipment)
Directorate General, CRPF

QRs of "EPABX System (16-512 lines)"

S.N	Parameter	Specification		
1	EPABX system	Hybrid (Microprocessor based also		
	Implementation Technology/ Architecture	supporting SIP extension)		
2	Number of Analogue	16 to 512 (As per user		
2	Extensions / FXS Ports	requirement)		
3	Expandable Up to (TDM / FXS Ports)	64 to 1024 (As per user requirement)		
4	Number of Digital Extension Port	4 to 256 (As per user requirement)		
5	Number of Analogue Junction/FXO ports	4 to 24 (As per user requirement)		
6	Number of SIP Trunks	4 to 32 (As per user requirement)		
7	Number of SIP Extensions	4 to 32 (As per user requirement)		
8	MDF(Number of pair)	64 to 1024 (As per user		
Ŭ	mer (realiser of pair)	requirement)		
9	Integrated Protection	YES		
	Module(IPM)			
10	If YES, number of Integrated	64 to 1024 (As per user		
	Protection Module (IPMs)	requirement)		
11	Type of Cards Supported	PRI, E1, Radio Interface, GSM, IP		
12	Number of Ports per Card	2 to 32 (As per user requirement)		
10	Supported	W. L. C. C. CID. TWO. TWO		
13	Type of Gateways Supported	Universal Gateway, SIP, FXO, FXS, PRI, Radio, GSM, E1, NA		
14	Number of Ports per Gateway Supported	2 to 32 (As per user requirement)		
15	Type of Operator Console (optional)	Key phone based		
16	Number of Operator Console	1 to 4 (As per user requirement)		
17	Swap Component(optional)	Power supply unit		
18	SIP extension (If Yes, Number of Software / Licenses shall be			
	Commensurate / Equal to the			
	Number of SIP Extension			
	Offered under ""EXTENSION AND TRUNK / JUNCTION"")"			
19	"SIP trunk (If Yes, Number of	YES		
	Software / Licenses			
	shall be Commensurate /			
	Equal to the Number of			
	Offered under ""EXTENSION			
	AND TRUNK /			
	JUNCTION"")"			

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S.N	Parameter	Specification
20	"Radio Interface (If Yes, Number	YES
	of Software /Licenses shall be	
	Commensurate/Equal to the	
	Number of Radio Interface Offered	
	under ""EXTENSION AND TRUNK	
	/ JUNCTION"")"	
21	"GSM (If Yes, Number of Software	YES
	/Licenses shall be Commensurate	
	/ Equal to the Number of GSM	
	Offered under ""EXTENSION AND	
	TRUNK / JUNCTION"")"	
22	Number of Conference	8 or more
	Participants Supported	(As per user requirement)
23	Number of IP-TDM Concurrent	4 or more (As per user
	Calls(2 users per call) Supported	requirement)
24	Loop resistance interface	1200 ohm or better
25	Call Buffer Memory System	YES
26	If Call Buffer Memory Available,	100 or more (As per user
	Number of Records	requirement)
27	Standby Redundant	YES
	CPU/Redundant server	
28	If YES, Number of Standby CPU	1
	Card/ redundant server	
29	Standby Redundant PSU (Power	YES
	Supply Unit) (As per user	
	requirement)	
30	If YES, Number of Hot Standby	1
	Redundant PSU Cards	
31.	Inbuilt Voice Mail for EPABX	YES
	System	
32	If Voice Mail Available, Number of	2 or more (As per user
	Voice Mail Channels	requirement)
33	Available for Voice Mail, Facility	24x7
	for Recording	
34	Auto Attendant Facility (optional)	YES
35	If Available, Number of Auto	2 or more (As per user
	Attendant Channels	requirement)

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S.N	Parameter	Specification
36	System Features	Automatic Route Selection facility, DID facility(Direct inward dialing), DOD facility(Direct outward dialing), DISA facility(Direct inward station access), DOSA facility(Direct outwards station access), Multi Level Voice DISA facility, Privacy of Call, Facility for connecting recorded voice answering, Programmable class of service for(STD/ISD/LOCAL) dialing as per need, Caller ID information for both internal and external callers (over Analogue, ISDN PRI), unique authorization codes for every users, Automatic call back, Call waiting, Music-onhold facility, Call budgeting, Least cost routing, Mix-mode dialing, Provision for remote logins, Interactive Voice Response System (IVRS), Extension to Extension dialing
37	Extension Features	Call forwarding, Consultation Hold, Brokers Call, Automatic call transfer, Conference call, Call pickup, Call re routing, Dynamic STD Lock, Paging on key phone, Background music, Password control, Virtual Telephony, Call parking, Auto answer/Auto off, Emergency call facility, Missed/Dialed/Received Call Lists, Last Caller Call back, Password display suppression, Personal Identification, Number, Hotline, Calling line identification(CLI), Remote Maintenance Other Extension features
38	Attendant Console Features	Answering an incoming call, Call queuing, Call waiting display, Automatic Call Distribution, Call Hold, Trunk offering, Night service, Head phone connectivity, Other Attendants console Features
39	Supply Voltage	48 V /110V-230 V AC UPS supply (As per
		user requirement)

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S.N	Parameter	Specification		
40	Inbuilt Battery Charging arrangement for providing battery backup/FCBC/UPS (As per user requirement)	Yes		
41	FCBC	Yes /No (As per user requirement)		
42	If YES, minimum current Rating of FCBC at charging voltage of 48V			
43	Protection against over current and accidental reversal of polarity on the input side and against over current, over voltage on the output side	Yes		
44	Minimum Operating Temperature (Degree C)	0°C		
45	Maximum Operating Temperature (Degree C)	40°C or more		
46	Operating Humidity (RH) (%)	80 or more		
47	Conformity to dry heat for 16 hours at maximum specified temperature degree C in accordance with IS:9000/part-3/section-5/1977 latest	Yes		
48	conformity to Cold Test for 4 hours at minimum specified temperature degree C in accordance with IS:9000/part-2/section-4/1977 latest	Yes		
49	conformity to Damp Heat (Cyclic)Test for 2 Cycles of 24 h each at a temperature of 40 degree C & 95% RH in accordance with IS:9000/part-5/section-1/1991 latest	Yes		
50	Installation and Commissioning	Yes		
51	The scope of supply include one set of operation and maintenance manual for each equipment	YES		

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S.N	Parameter	Specification
52	Training provided to buyers	YES
53	If YES, Details of training	Onsite training for 3 days
54	Warranty	1 Year or More (As per user requirement)

WO/RM. R.S.Dhaka Assam Rifles

Insp/RM. Rakesh kaushik **BSF**

AC-III. Suman Dey NSG

Karan Singh, AC ITBP

P. R. Jha, DC(Comn) **CRPF**

Harjinder Singh, DIG(Eqpt)

CRPF

Virendra Agrawal, DIG(Comn) **CRPF**

IG(Comn &IT) CRPF

Ravideep Singh Sahi, Zulfiquar Hason, IPS, ADG(HQ) **CRPF**

Approved/Not Approved

Dr. A P Maheshwari, IPS DG, CRPF

Trial Directives of "EPABX System (16-512 lines)"

S.N	Parameter	Specification	Trial Directives
1	EPABX system	Hybrid	Firm will produce
	Implementation Technology/	(Microprocessor based	OEM certificate
	Technology/	also supporting SIP	
	Architecture	extension)	
2	Number of Analogue	16 to 512 (As per user	BOO will check
	Extensions / FXS Ports	requirement)	practically
3	Expandable Up to	64 to 1024 (As per	BOO will check
	(TDM / FXS Ports)	user requirement)	
4	Number of Digital	4 to 256 (As per user	
	Extension Port	requirement)	practically
5	Number of Analogue	4 to 24 (As per user	
	Junction/FXO ports	requirement)	practically
6	Number of SIP Trunks	4 to 32 (As per user	1
		requirement)	practically
7	Number of SIP	4 to 32 (As per user	-
	Extensions	requirement)	practically
8	MDF(Number of pair)	64 to 1024 (As per	-
	•	user requirement)	practically
9	Integrated Protection	YES	BOO will check
	Module(IPM)		practically
10	If YES, number of	64 to 1024 (As per	
		user requirement)	
	Module (IPMs)		
11	Type of Cards	PRI, E1, Radio	BOO will check
	Supported	Interface, GSM, IP	practically
12	Number of Ports per	2 to 32 (As per user	BOO will check
	Card Supported	requirement)	practically
13	Type of Gateways	Universal Gateway,	BOO will check
	Supported	SIP, FXO, FXS, PRI,	practically
		Radio, GSM, E1, NA	
14	Number of Ports per	2 to 32 (As per user	BOO will check
	Gateway Supported	requirement)	practically
15	Type of Operator	Key phone based	BOO will check
	Console (optional)		practically
16	Number of Operator	1 to 4 (As per user	BOO will check
	Console	requirement)	practically
17	Swap	Power supply unit	BOO will check
	Component(optional)		practically

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S.N	Parameter	Specification	Trial Directives
18	SIP extension (If Yes, Number of Software / Licenses shall be Commensurate / Equal to the Number of SIP Extension Offered under ""EXTENSION AND TRUNK /		BOO will check practically
	JUNCTION"")"		
19	"SIP trunk (If Yes, Number of Software / Licenses shall be Commensurate / Equal to the Number of Offered under ""EXTENSION AND TRUNK / JUNCTION"")"	YES	BOO will check practically
20	"Radio Interface (If Yes, Number of Software / Licenses shall be Commensurate / Equal to the Number of Radio Interface Offered under ""EXTENSION AND TRUNK / JUNCTION"")"	YES	BOO will check practically
21	"GSM (If Yes, Number of Software / Licenses shall be Commensurate / Equal to the Number of GSM Offered under ""EXTENSION AND TRUNK / JUNCTION"")"	YES	BOO will check practically
22	Number of Conference Participants Supported	8 or more (as per user requirement)	BOO will check practically
23	Number of IP-TDM Concurrent Calls(2 users per call) Supported	4 or more (As per user requirement)	BOO will check practically
24	Loop resistance interface	1200 ohm or better	Board will check practically
25	Call Buffer Memory System	YES	BOO will check practically
26	If Call Buffer Memory Available, Number of Records	100 or more (As per user requirement)	BOO will check practically
27	Standby Redundant CPU/Redundant server	YES	BOO will check practically
28	If YES, Number of Standby CPU Card/redundant server	1	BOO will check practically

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S.N	Parameter	Specification	Trial Directives
29	Standby Redundant PSU (Power Supply Unit) (As per user requirement)	YES	BOO will check practically
30	If YES, Number of Hot Standby Redundant PSU Cards	1	BOO will check practically
31	Inbuilt Voice Mail for EPABX System	YES	BOO will check practically
32	If Voice Mail Available, Number of Voice Mail Channels		Firm will produce OEM certificate
33	Available for Voice Mail, Facility for Recording	24x7	BOO will check practically
34	Auto Attendant Facility (optional)	YES	BOO will check practically and Firm will also produce OEM certificate
35	If Available, Number of Auto Attendant Channels	2 or more (As per user requirement)	BOO will check practically
36	System Features	Automatic Route Selection facility, DID facility(Direct inward dialing), DOD facility(Direct outward dialing), DISA facility(Direct inward station access), DOSA facility(Direct outwards station access), Multi Level Voice DISA facility, Privacy of Call, Facility for connecting recorded voice answering, Programmable class of service for(STD/ISD/LOCAL) dialing as per need,	BOO will check practically and firm will also produce OEM certificate

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S. N	Parameter	Specification	Trial Directives
37	Extension Features	Caller ID information for both internal and external callers (over Analogue, ISDN PRI), unique authorization codes for every users, Automatic call back, Call waiting, Music-on-hold facility, Call budgeting, Least cost routing, Mix-mode dialing, Provision for remote logins, Interactive Voice Response System (IVRS), Extension to Extension dialing, Call forwarding, Consultation Hold, Brokers Call, Automatic call transfer, Conference call, Call pickup, Call re routing, Dynamic STD Lock, Paging on key phone, Background music, Password control, Virtual Telephony, Call parking, Auto answer/Auto off, Emergency call facility, Missed/Dialed/Received Call Lists, Last Caller Call back, Password display suppression, Personal Identification Number, Hotline, Calling line identification(CLI), Remote Maintenance, Other Extension features	BOO will check practically and firm will also produce OEM certificate
38	Attendant Console Features	Answering an incoming call, Call queuing, Call waiting display, Automatic Call Distribution, Call Hold, Trunk offering, Night service, Head phone connectivity, Other Attendants console Features	BOO will check practically and firm will also produce OEM certificate
39	Supply Voltage	48 V /110V-230 V AC UPS supply (As per user requirement)	BOO will check practically

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S.N	Parameter	Specificatio n	Trial Directives
40	Inbuilt Battery Charging arrangement for providing battery backup/FCBC/UPS (As per user requirement)	Yes	BOO will check practically
41	FCBC	Yes /No (As per user requiremen t)	BOO will check practically
42	If YES, minimum current Rating of FCBC at charging voltage of 48V	12.5 A or more (As per user requirement)	BOO will check practically
43	Protection against over current and accidental reversal of polarity on the input side and against over current, over voltage on the output side	Yes	BOO will check practically and firm will also produce OEM certificate
44	Minimum Operating Temperature (Degree C)	0°C	Firm will submit certificate of Govt.
45	Maximum Operating Temperature (Degree C)	40°C or more	Lab. or NABL/ILAC accredited
46	Operating Humidity (RH) (%)	80 or more	laboratory
47	Conformity to dry heat for 16 hours at maximum specified temperature degree C in accordance with IS:9000/part-3/section-5/1977 latest	Yes	
48	conformity to Cold Test for 4 hours at minimum specified temperature degree C in accordance with IS:9000/part-2 /section-4/1977 latest	Yes	
49	conformity to Damp Heat (Cyclic)Test for 2 Cycles of 24 h each at a temperature of 40 degree C & 95% RH in accordance with IS:9000/part-5/section-1/1991 latest	Yes	
50	Installation and Commissioning	Yes	Firm will produce OEM certificate
51	The scope of supply include one set of operation and maintenance manual for each equipment	YES	Board will check practically

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S.N	Parameter	Specification	Trial Directives
52	Training provided to buyers	YES	Firm will produce OEM certificate
53	If YES, Details of training	Onsite training for 3 days	Firm will produce OEM certificate
54	Warranty	1 Year or More (As per user requirement)	Firm will produce OEM certificate

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