GOVERNMENT OF INDIA (Ministry of Home Affairs) Communication & IT Directorate CENTRAL RESERVE POLICE FORCE <u>EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066</u> (Tele/Fax No-011-26109038, Email-Id: <u>comncell@crpf.gov.in</u>)

No. B.V-7-C/2025-26-C(TLE)-QRC

Dated, they June'2025

Subject: - <u>REQUEST FOR COMMENTS OF STAKEHOLDERS /OEM/FIRMS</u> ON DRAFT QRS & TDS OF "TACTICAL LINE EXCHANGE" REGARDING.

The Draft QRs/TDs of "Tactical Line Exchange" are 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 product 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.

2. The required information/details may please be forwarded at the following addresses by **09 July'2025**.

Communication Directorate, CRPF East Block-7, Sec-1, R.K. Puram, New Delhi-110066 Email: <u>comncell@crpf.gov.in</u>

3.

An early response is requested.

(Megh Raj) DIG (Equipment) Communication & IT Branch Directorate General, CRPF

Draft QRs/ TDS of Tactical Line Exchange

SI No.	Parameters	Specifications	Trial Directive
1	Switch Board Capacity	15 Lines extendable to 100 Lines	BOO will check practically.
2	Ringing Range	Ring to and from Magneto subscriber through line loop resistance of 10 Kilo Ohm	BOO will check practically.
3	Speech Range	Operator to subscriber and vice versa through max loss of 40 db. AF response 300 Hz to 3 KHz	BOO will check practically.
4	Indicator sensitivity	Indicator LED (Light Emitting Diode) should light up when operator through a max. of 10 Kilo Ohms series resistance when connected to a standard magneto hand generator & while Battery operated.	BOO will check practically and physically.
5	Working of exchange	Signalling range: Freq 16 to 50 Hz Open circuit ringing voltage:75-90 V+ 5%	BOO will check practically.
6	Magneto/DTMF exchange working (as per user requirement)	A loop resistance of 3500 Ohm having minimum 10 Kilo Ohm insulation resistance.	BOO will check practically.
7	Auto exchange working	DC loop resistance of 1000 Ohm having insulation resistance of minimum 50 Kilo Ohm.	BOO will check practically.
8	Cross talk (300Hz- 3400Hz)	Better than 60 dB down measuring at 1000 Hz.	BOO will check practically.
9	Insulation resistance between line & Earth	Insulation resistance should not be less than 100 Mega Ohms under normal Atmospheric conditions.	BOO will check practically.
10	Power Supply	Exchange should Operate on AC Mains as well as 24 /12 V DC with automatic change over. System should have internal FCBC (Float cum Boost Charger)	BOO will check practically and physically.
11	Environment Specifications	Equipment should complied JSS 55555 Standards. i) Temp. Range- Operating : -10°C to +55°C Storage: -20°C to +70°C ii) Humidity: upto 95% at +40°C	BoO will check practically and Firm will submit certificate of Govt. Lab or NABL/ILAC accredited laboratory.
12	Interface	System should provide working E- Carrier (E1) line in Europe, PRI (Primary rate interface- A standard with Integrated Service Digital Network (ISDN) for providing Telecommunication Services), IP (Internet protocol) Interface & Radio (HF/VHF/UHF) Internet Combat Net Radio (CNR).	BoO will check practically and Firm will submit certificate of Govt. Lab or NABL/ILAC accredited laboratory.
13	Redundancy	Central Processing Unit (CPU) &	BOO will check physically.

		Power Supply Unit (PSU) of t system should be in hot stand	
4	Weight	mode. Less than 25 Kg approx, with	but BOO will check practically.
5	Electromagnetic Compatibility(EMC	accessories. ald be ruggedized and will m Interference (EMI)/Electromagne requirement as per MIL-ST ed by certificate of Govt. Approv	etic and Firm will submit D- certificate of Govt. Lab or
	should be field p work as Analog F operator console.	All ports of the ruggedized exchar programmable without laptop/PC Phones or Magneto phones throu The console should have a large ba splay with 4x40 alpha nume	to ligh lack
	iii) One port Globa (GSM) with Latest	al System for Mobile Communicat technology.	ion
		he exchange should have facility mber of subscriber port and Com Port facility.	
	b) Firm should p	nust be suitable ruggedized. rovide leak proof Electric Connect ls, cords with nylon cover etc. of	
	 c) Equipment must d) Efficient thermal e) The modules a secured to the secured to th	at sustain cross country mobility. Al management. & cards of the exchange should slots so that there is no dislocation nove/transportation.	
		quipment (BITE):-Cards level syst e operator console display (power Offline Diagnostics)	
	vii) Universal Sl universal type.	ots:-All insertion slots should	be
	viii) Earthing:-The field type of earthin	exchange should be able to work	on
	against the followin a) DC Reverse volt b) Over voltage	tage	ion
	d) Short/open Cir- e) Fuses & other to the operating &	safety features to prevent any dan & repairing personnel	
	warning alarm sh	alarm to indicate critical failure ould be separated from basic u (02 alarm devices/buzzer should	ıse

used for diff	ferent purpose) with diffe	rent sound	
x) The equi EPABX.	pment should compatibl	e with the existing	
	cking:-The switch should even when the switch capacity.		
· ·	alling to establish call, this exchange with junc		
maintenanc	irm will have to suppl ce of switch boards for a ed by the users.		
firm a	g for 5 working days shal t all consignee /handling/maintenance c	places for	