

## DIRECTORATE GENERAL, CRPF EAST BLOCK-7, SECTOR-1, R.K PURAM, NEW DELHI-66 e-mail: digeqpt@crpf.gov.in Tele No. 011-26109038



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

Dated, the Aug'2025

To

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

## Subject: QRs/TDs OF "TACTICAL LINE EXCHANGE" REGARDING.

I am directed to refer to the subject mentioned above and to say that the QRs/TDs of "**Tactical Line Exchange**" have been approved by DG CRPF after due deliberations as per recommendations of CAPFs sub-group of technical experts and experts from DCPW.

2. QRs/TDs of "**Tactical Line Exchange**" forwarded earlier vide letter No. IV-21011/8/2010-Prov-I dated 15/07/2010 stand rescinded.

This is for favour of information and further needful action please.

Encl:-As above

(Megh Raj)

~ 8/08/20-S

DIG (Equipment)
Communication & IT Branch

Directorate General C R P F

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

Dated, the Aug'2025

## Copy to:-

Mr. Deepak Kumar, Technical Director, North block, MHA (e-mail ID: deepakg@gov.in) with request to upload the QRs/TDs of "Tactical Line Exchange" on MHA website and QRs/TDs of "Tactical Line Exchange" forwarded earlier vide letter No. IV-21011/8/2010-Prov-I dated 15/07/2010 stand rescinded please.

Encl:-As above

(Megh Raj)

DIG (Equipment)
Communication & IT Branch

Directorate General C R P F

## QRs/TDs of Tactical Line Exchange

SI No.	Parameters	Specifications	Trial Directives
1	Switch Board Capacity	15 Lines expendable up to 32 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 subscriber to subscriber voice should be audible	Firm will submit OEM Certificate.
4	Indicator sensitivity	Indicator LED Should light up or message on display should come when operated through a maximum of 10 Kilo Ohms series resistance when connected to a standard magneto hand generator & while Battery operated	BOO will check practically and physically.
5	Signalling range	Frequency 16 to 50 Hz	BOO will check practically.
6	Open circuit ringing voltage	75-90 V <u>+</u> 5%	BOO will check practically
7	Magneto exchange working	A loop resistance of 3500 Ohm having minimum 10 Kilo Ohm insulation resistance.	BOO will check practically.
8	Auto exchange working	DC loop resistance of 1000 Ohm having insulation resistance of minimum 50 Kilo Ohm.	BOO will check practically.
9	Cross talk (300Hz-3400Hz)	Better than 60 dB down measuring at 1000 Hz.	BOO will check practically.
10	Insulation resistance between line & Earth	Insulation resistance should not be less than 100 Mega Ohms under normal Atmospheric conditions.	BOO will check practically.
11	Power Supply	Exchange should Operate on AC Mains as well as 24 /12 V DC with automatic change over. System should have internal/External FCBC (Float cum Boost Charger)	
12	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.
13	Interface	System should provide working E- Carrier (E1 PRI) for providing Telecommunication Services, IP Interface & interface for Radio (HF/VHF/UHF)	BOO will check practically and Firm will submit certificate of Govt. Lab or NABL/ILAC accredited laboratory.
14	Redundancy	Central Processing Unit (CPU) & Power Supply Unit (PSU) of the system should be in hot standby mode.	BOO will check physically.

Spanice of some 3 of I fold Mar As 1

SI No.	Parameters	Specifications	Trial Directives
15	Weight	Less than 25 Kg approx, without accessories.	BOO will check practically.
16	Additional Feature i) Exchange sho Electromagnetic Compatibility(EMC 461D/E (Support Lab)	BOO will check practically and Firm will submit certificate of Govt. Lab of NABL/ILAC accredited laboratory.	
	ii) Configuration: should be field through operator large backlit/fluo characters.		
	iii) One port Glob (GSM) with Latest		
	iv) Upgradation:-Tupgradation of nu		
	b) Firm should p i.e. Battery lead Std.	must be suitable ruggedized. brovide leak proof Electric Connectors ds, cords with nylon cover etc. of ISI est sustain cross country mobility.	
	d) Efficient therm e) The modules secured to the		
	Diagnostics on th	Equipment (BITE):-Cards level system e operator console display (power on Offline Diagnostics)	
	vii) Earthing:-The field type of earthi	exchange should be able to work on ng.	
	viii)Safety feature protection against a) DC Reverse vol b) Over voltage		
	c) Current and vo d) Short/open Cir e) Fuses & other		
	f) Audio-Visual warning alarm sh alarm( like Ring )	& repairing personnel alarm to indicate critical failures., nould be separated from basic use (02 alarm devices/buzzer should be burpose) with different sound	
	ix) The equipment EPABX.	should compatible with the existing	- Constant 22.

De Shamien

I All was 13

SI No.	Parameters	Specifications	Trial Directives
SI NO.	x) Non-Blocking:-The blocking, even who maximum capacity.  xi) Auto dialling to connecting this exchabuilt in.  xii) The firm will maintenance of switch when needed by the way will be a suit of the	establish call, Auto extension for ange with junction line should be have to supply spare parts for ch boards for a period of 10 years	BOO will check practically

(Nb/Sub Mohinder Singh) Assam Rifles

> (Sanjay Mathur) AC(Comn), SSB

(Chandra Prakash) DC, BSF

Amit Taneja DIG (Comn), CRPF Wany

(AC III M.K. Singh) NSG

(Ujjwal Kumar Singh) AC(QR), CRPF

> (H.S. Srihari) DD, DCPW

(Vijay Kumar) IG (Comn & IT), CRPF (Hanif Choudhury) AC(Exe), CISF

(Sibu Prasad Bhowmick) AC, ITBP

> (Megh Raj) DIG (Eqpt), CRPF

(Vitul Kumar, IPS) SDG (OPS), CRPF

Approved/Not Approved

(Gyanendra Pratap Singh, IPS) DG, CRPF