ANNEX E TO DGDP TENDER NO 215.252.24 DATED: 10 NOVEMBER 2024

## TECHNICAL SPECIFICATION OF FIELD TELEPHONE EXCHANGE - 20 LINES (DP-5)

Ser No		Description	Technical Specification/Requirement	To be filled up by the Manufacturer/ Principal
PART		GENERAL SPECIFICATION.		
1.	-	menclature	Field Telephone Exchange- 20 Lines.	
2.	-	and Name/Make	To be mentioned.	
3.	Model		To be mentioned.	
4.	Country of Origin		Group A and B Countries.	
5.	Country of Manufacture/ Assembly		To be mentioned.	
6.	Year of Manufacture		Not before the calendar year of the contract.	
7.	Name of Manufacturer with complete address (Addresses, Telephone, Fax, Email & Website)		Details to be mentioned.	
8.	Name of Principal with complete address (Addresses, Telephone, Fax, Email & Website)		Details to be mentioned.	
9.	Name of Local Agent with complete address (Addresses, Telephone, Fax, Email & Website)		Details to be mentioned.	
10.	Co	lor	Metallic Bronze (MB) Green.	
PART	-2:	TECHNICAL SPECIFICATION.		
11.	System Capacity a Initial Capacity (with license)			
		(1) Subscriber Line	Minimum 20 lines (CB/CBS and LB).	
		(2) Trunk/CO Line	Minimum 04 lines (Any DTMF or digital line/ FXO).	
	b	Expanded Capacity (with license)		
		(1) Subscriber Line	Minimum 32 lines (CB/CBS and LB).	
		(2) Trunk/CO Line	Minimum 08 lines (Any DTMF or digital line/ FXO).	
12.	Communication Distance		Minimum 15 Km with standard field telephone cable (WD-1/TT or equivalent) used in BD Army.	
13.	Operating System		Automatic/Manual.	
14.		ON PRI (E1) Services	To,be available as standard.	-94
15.		(Ethernet) Services	To be available as standard.	
16.	+	x Services	To be available as standard.	
17.	Co	mbat Net Radio Connectivity	To be available as standard both for HF and VHF Radio (Available models used by BD Army).	
18.	Po			
		wer Supply System ould be operated by AC and DC Pov		
	а	AC Power Supply	220 Volt AC ± 10%, 50 Hz (Standard AC power of BD).	
	ь	DC Power Supply	24 Volt DC Secondary Battery.	
	С	DC Power Source (Battery Pack)	To be available as standard and details to be mentioned.	,
10	Suran Brothadii G		(Minimum 4 hours backup with full load)	
19.	-	rge Protection System	To be available as standard.	
20.	Ea	rthing System	To be available as standard.	

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21.	En	vironmental System		
	a	Humidity	Minimum 95%.	
	b	Temperature	-5°C to +55°C.	
22.	Ca	sing	Field type, IP-68 as standard.	
23.	-	ight	To be mentioned.	
24.		ner Mandatory Features/Facilit		
	а	Head Gear/Hands free operation	To be available as standard.	
	b	Operator's assistance facilities	To be available as standard and details to be mentioned	
	С	Monitoring facilities	To be available as standard and details to be mentioned	
	d	Conference call	Minimum five (05) parties and other modern facilities	
	е	Alarm System	Night alarm facilities and alarm for fault and troubleshooting	
	f	Shock Proof	Must be shock proof to provide continuous services without repair or modification after cross country move on vehicle	
25.	Lis	t of Standard Items for each I	Exchange.	er i
	Ta	ctical Digital Switchboard cor erfacing:	nfigured with built-in mandatory modules for	201
	а	Analog Telephone Interface	20 (CB/CBS-minimum 14 and LB- minimum 6).	
	b	IP Telephone Connectivity	40 (minimum).	
	C	CO/FXO Interface	04 (minimum).	
	d	ISDN PRI (E1) Interface	01 (minimum).	
	-	IP Trunking (SIP and H.323)	10 (minimum).	
	e	FAX Interface	01 (minimum).	
	-	Interface for Data Services (Et	L	
	g	(1) WAN 10/100/1000 BASE-		
		(2) LAN 10/100/1000 BASE- TX	02 (minimum).	
	h	Interface for Combat Net Radi	0:	
	1	(1) HF Radio	01 (minimum).	
		(2) VHF Radio	01 (minimum).	
	In	cluding following mandatory acc		
	1111	Operator Handset and		
	]	Headset	01 each (minimum).	
	k	AC Power Cable	01 (minimum).	
		DC Power Cable	01 (minimum).	
	m	Rechargeable Battery Pack	01 (minimum).	
	n	ISDN PRI (E1) cable with minimum two RJ-45 socket.	01 (minimum).	
	р	Cable for connecting each foll	owing models of Combat Net Radio:	
		(1) HF Radio Models	Barrett-940/2040/2090, TR-2400 (Reutech), TRC-3730 (Thales) and RF-7800H (L3Harris).	
		(2) VHF Radio Models	QMAC-90M, XV-3088 (R and D), RF-13 (Mesit), TR-6000 (Reutech), TRC-9210 (Thales) and RF-7800V (L3Harris).	) .
	a	MDF / Distribution Box	As per requirement.	
	r	MDF Cable	As per requirement.	
	S	Fuse Set	As per requirement.	and the same of th
	t	Canvas Transport Bag	As per requirement.	8 08 0m
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Ser No		Description	Technical Specification/Requirement	To be filled up by the Manufacturer/ Principal
26.	Op	tional Requirement.		
	а	Wireless Local Loop connectivity	To be available and details to be mentioned.	
	b	Gateway for Cellular Network (Dual network, 4G or above)	To be available and details to be mentioned.	
7.	Lis			
	а	Gateway Interface for Cellular Network (Dual network, 4G or above)	01 (minimum).	
	b	Field Telephone Set (Operable in both CB/CBS and LB mode)	20 (minimum).	
	С	IP Telephone Set	10 (minimum).	
28.	Warranty		2 (Two) Years.	
29.	After Sales Service		5 (Five) Years.	
30.	Model Validity		Minimum 8 (Eight) years from signing of contract.	
31.	Any other		If any item not specifically mentioned above but required technically for full range of operation, the bidder should specify and quote such item(s) in their offer. In case of failure to specify and quote, the bidder must provide such items free of cost.	
PAR	T-3	TRAINING REQUIREMENT.		
32.		ser Training	To be provided (As per requirement of Signals and EME Directorate).	
33.		perations, Repair and aintenance Training	and EME Directorate).	
34.	Inv	ventory Management Training	To be provided (As per requirement of Ordnance Directorate)	
35.	PL	ublication on Training	To be provided	
PAF			EQUIREMENT LESS LIST OF SPARES.	
36.	-	ooks & Publications		
	a. Owners/Operations manual in English (Book Type) including CD/DVD)		and EME Directorate).	
	Er	Workshop/Repair manual in nglish (Book Type) including D/DVD)	To be provided (As per requirement of Signals and EME Directorate).	
	pa	100% Updated master spare arts catalogue in English (Book /pe) including CD/DVD)	and EME Directorate).	
	sp E	Complete and updated master parts price catalogue/ list in nglish (Book Type) including D/DVD)	To be provided (As per requirement of Signals and EME Directorate).	
PAF		: LIST OF SPARES.		
37.	Li	st of standard spare parts, tools accessories	To be provided (As per requirement of Signals & EME Directorate).	
PAF		: TOOL LIST FOR DIFFERENT LE	EVEL OF MAINTENANCE.	
38.			To be provided (As per requirement of Signals and EME Directorate).	
	b. Special Service Tools (SST)		To be provided (As per requirement of Signals and EME Directorate).	
	C.	Special Service Materials (SSM)	To be provided (As per requirement of Signals and EME Directorate).	