FOR OFFICIAL USE ONLY

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.	_	odel	To be mentioned.	
4.		untry of Origin	Group A and B Countries.	
5.	Co	untry of Manufacture/ Assembly	To be mentioned.	
6.	Ye	ar 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.	add Em	me of Local Agent with complete dress (Addresses, Telephone, Fax, nail & Website)	Details to be mentioned.	
10.	Co		Metallic Bronze (MB) Green.	
		TECHNICAL SPECIFICATION.		
11.	Sy	stem Capacity		
	а	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)		Territoriki in	
		(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.	Ор	erating System	Automatic/Manual.	
14.			To be available as standard.	
15.	IP	(Ethernet) Services	To be available as standard.	
16.	Fax Services		To be available as standard.	
17.		mbat Net Radio Connectivity	To be available as standard both for HF and VHF Radio (Available models used by BD Army).	
18.		wer Supply System		
	Sh	ould be operated by AC and DC Pov	ver Source as mentioned below:	
	а	AC Power Supply	220 Volt AC ± 10%, 50 Hz (Standard AC power of BD).	
	b	DC Power Supply	24 Volt DC Secondary Battery.	
	С	DC Power Source (Battery Pack)	To be available as standard and details to be mentioned. (Minimum 4 hours backup with full load)	
19.	Su	rge Protection System	To be available as standard.	
20.				
20.	Earthing System To be available as standard.			



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No				the Ma Principa	nufacturer I
21.	En	vironmental System			
	а	Humidity	Minimum 95%.		
	b	Temperature	-5°C to +55°C.		
22.	Ca	sing	Field type, IP-68 as standard.		
23.		Weight To be mentioned.			
24.	Other Mandatory Features/Facili				
	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	st of Standard Items for each			
20.	Ta		nfigured with built-in mandatory modules for		
	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).		
	e	IP Trunking (SIP and H.323)	10 (minimum).		
	f	FAX Interface	01 (minimum).		
		Interface for Data Services (Et			
	g	(1) WAN 10/100/1000 BASE-	Y		
		(2) LAN 10/100/1000 BASE- TX	02 (minimum).		
	h	Interface for Combat Net Radi	0:		
		(1) HF Radio	01 (minimum).		
		(2) VHF Radio	01 (minimum).		
	Inc	cluding following mandatory acc			
	j	Operator Handset and Headset	01 each (minimum).		
	k	AC Power Cable	01 (minimum).		
	1	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 follo	owing models of Combat Net Radio:		
	ľ	(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).		
	q	MDF / Distribution Box	As per requirement.		
	r	MDF Cable	As per requirement.		
	s	Fuse Set	As per requirement.		
	t	Canvas Transport Bag	As per requirement.		



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26.	0	stional Poquiroment		Principal
20.	a	vitional Requirement. 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.	
27.	Lis	st of Optional Items for each Exc		
	а	Gateway Interface for Cellular Network (Dual network, 4G or above)		
	b	Field Telephone Set (Operable in both CB/CBS and LB mode)		
	С	IP Telephone Set	10 (minimum).	
28.		arranty	2 (Two) Years.	
29.	After Sales Service		5 (Five) Years.	
30.	Model Validity		Minimum 8 (Eight) years from signing of contract.	
31.	An	y 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.		er Training	To be provided (As per requirement of Signals and EME Directorate).	
33.	Ma	erations, Repair and intenance Training	To be provided (As per requirement of Signals and EME Directorate).	
34.		entory Management Training	To be provided (As per requirement of Ordnance Directorate)	,
35.		blication on Training	To be provided	
			EQUIREMENT LESS LIST OF SPARES.	
36.		oks & Publications		
	a. Owners/Operations manual in English (Book Type) including CD/DVD)		To be provided (As per requirement of Signals and EME Directorate).	
		Workshop/Repair manual in glish (Book Type) including b/DVD)	To be provided (As per requirement of Signals and EME Directorate).	
	cat inc	100% Updated master spare parts alogue in English (Book Type) luding CD/DVD)	To be provided (As per requirement of Signals and EME Directorate).	
	spa Eng CD	Complete and updated master are parts price catalogue/ list in glish (Book Type) including h/DVD)	To be provided (As per requirement of Signals and EME Directorate).	
PAR		LIST OF SPARES.		
37.	and	t of standard spare parts, tools d accessories	To be provided (As per requirement of Signals & EME Directorate).	
		TOOL LIST FOR DIFFERENT LE		
38.	a. Analyzer, Measuring, Testing/ Fault finding and Diagnostic set (Level III and IV)		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).	

