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Jaistha 1431 ් June 2024

06.06.0000.215.49.24/Std

RE-EVALUATION OF THE SPECIFICATION OF RADIO SET HIGH FREQUENCY (HF) MEDIUM RANGE (VEHICLE & BASE STATION VERSION), VERY HIGH FREQUENCY (VHF) MEDIUM RANGE (VEHICLE & BASE STATION VERSION) AND VERY HIGH FREQUENCY (VHF) MANPACK

References:

- Army Headquarters, General Staff Branch, Signal Directorate letter number 23.01.901.032.03.099.01.20.03.24 dated 20 March 2024 (Not to all).
- Army Headquarters, General Staff Branch, Signal Directorate letter number 23.01.901.032.03.099.01.28.04.24 dated 28 April 2024 (Not to all).
- Army Headquarters, General Staff Branch, Signal Directorate letter number 23.01.901.032.03.099.01.02.06.24 B. dated 02 June 2024 (Not to all).
- In light of above references, a technical specification of Radio Set High Frequency (HF) Medium Range (Vehicle & Base Station Version), Very High Frequency (VHF) Medium Range (Vehicle & Base Station Version) and Very High Frequency (VHF) Manpack is attached with this letter. Interested authorized vendors/firms/local agents of the manufacturers are requested to submit your offer for above mentioned Radio Set High Frequency (HF) Medium Range (Vehicle & Base Station Version), Very High Frequency (VHF) Medium Range (Vehicle & Base Station Version) and Very High Frequency (VHF) Manpack directly to Army Headquarters, General Staff Branch, Signal Directorate with intimation to this office by 30 June 2024 fulfilling the requirements mentioned bellow:
 - b. Offer as per technical specification.
 - Letter of authorization by Manufacturer/Principal mentioning that the said company will be the local b. vendor/agent for offered model.
 - Manuals (Original Printed by Manufacture) and CD. C.
 - Catalogue (Original Printed by Manufacture) and CD. d.
 - Catalogue of Spare Parts (Original Printed by Manufacture) and CD. e.
 - Brochure (Original Printed by Manufacture) and CD. f.
 - Enlistment Certificate of Directorate General Defence Purchase and BTRC. g.
 - h. Valid Certificate from Original Equipment Manufacturer (OEM) as authorized agent.
 - Certification from manufacturer on permission to export the said system to Bangladesh Army.
- All the documents are to be submitted on Manufacture's/Principal's official pad including official stamp with signed by proper authority.
- 3. Forwarded for your information and necessary action please.

For Director General

Enclosure:

Technical Specification-24 (Twenty Four) Pages Only.

Distribution:

External:

Information:

Army Headquarters, General Staff Branch (Coordination)

Army Headquarters, General Staff Branch, Weapon Equipment & Statistics Directorate

Army Headquarters, General Staff Branch, Signal Directorate

Action:

All Concerned Supplier/Firm

Internal:

IT Section (For uploading to website)

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/Users/p6sec3armywg1/Desktop/#Mother PC/Drive3 Updt as on 07-04-21/2014-2015/Evalution.doc

ANNEX A TO DGDP LETTER NO 06.06.0000.215.49.24/Std **DATED: 09 JUNE 2024**

GENERAL SPECIFICATION OF RADIO SET HIGH FREQUENCY MEDIUM RANGE (BASE STATION VERSION) (MILITARY VERSION)

		ATION VERSION) (WILLIARY VERSION)	
Ser	Fact/Description	Technical Specification	To be filled up by
(a)	(b)	(6)	principal/ manufacturer
PAF	RT 1: GENERAL SPECIFICATION	(6)	(d)
1,	Nomenclature	Radio Set HF (Medium Range) (Vehicle	
1		and Base Station Version) (Military Version)	
2.	Type of Radio	Military version (Base Station Version)	
		Software Defined Radio	
3.	Brand Name/ Make	To be mentioned	
4.	Model	To be mentioned	
5.	Country of Origin	Group A and B countries	
6.	Country of Manufacture	Group A and B countries	
7.	Country of Assembly	Group A and B countries	
8.	Year of Manufacture	Not before the calendar year of the contract	
9.	Name of Manufacturer with	Defails to be mentioned	
	complete address (Addresses,		
1	Telephone, Fax, Email &	:	
	Website)		
10.	Name of Principal with complete	Details to be mentioned	
ĺ	address (Addresses, Telephone,		
	Fax, Email & Website)		
11.	Name of Local Agent with	Details to be mentioned	
	complete address (Addresses,	" ·	
1	Telephone, Fax, Email &		
<u> </u>	Website)		
12.	Port of Shipment	Must be from the country of	
	į	Manufacturing/Assembly. Trans-shipment	
13.	Color	not allowed	
	-	Metallic Bronze (MB) Green	
	72: TECHNICAL SPECIFICATION		
14.	Frequency Range	1.6 MHz-30 MHz. Below 1.6 MHz and	
		above 30 MHz are allowed	
15.	Frequency Band	HF	
16.	Channel Bandwidth	To be mentioned	
17.	Channel Spacing	To be mentioned	
18.	Number of Preset Memory	Minimum 50. Specific memory channel is to	
	Channel	be mentioned	
19.	Number of Total Working	To be mentioned	
	Channel		
oō.	Tactical Communication Range		
20.	Static	All Over Bangladesh	
	On the Move	Minimum 20 km both in Urban & Hilly Area	
	(Base to Vehicle)		
21.	Antenna Type	Broad band antenna is preferable. Details	EEHERAL DEFEN
000	A	of all types of antennas to be mentioned	
22.	Antenna Tuning Unit (ATU)	To be mentioned	
23.	Communication Security	·	E DGDP 5
	a. Encryption	AES 256 or higher mode encryption must	112 / / / / / / / / / / / / / / / / / /
].	h T-indi-	be available. Details to be mentioned	Morración
	b. Frequency Hopping	Minimum 100 hops per minute. Details to	THE OF OUR SERVICE OF
-	c. Other Types of Security	be mentioned	eire a
	c. Offier Types of Security	Any other types of communication security	(0)

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D.151GS-03.COM-0312. Re-Eaval Board Radio SattBofD for Gen Spec of Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A.- HF Med Rng Basel Stavers for Radio Set on 27302.24(Anx A., B., C., D.& Ett. Anx A., B., C., D., C

Ser		Technical Specification	To be filled up:by principal/ manufacture
(a)	(b)	(c)	(d)
0.4	(Optional)	(if available) are to be mentioned	, , , , , , , , , , , , , , , , , , ,
24.	Dimension (W x D x H) (Without Antenna)	To be mentioned. Picture is to be provided	
25.	Weight of the Radio se (Complete at Functiona Condition)		
26.	Power Supply System	a. Must be operated from both AC (220 VAC ± 20% at 50 Hz) and DC rechargeable and replaceable battery. Detail of brand, model, country of manufacture and battery	
		rating are to be mentioned b. The battery charger should have charging facility from AC power 220 VAC ± 20% at 50 Hz ± 20%. Charging from solar charger at ambient light (optional)	
27.	Transceiver	<u></u>	
	a. RF Power Output	(1) Min: 25 W or below	
		(1) Max: 100 W or above (3). Radio set must qualify in both the above parameters.	
	b. Power Modes	Scalable Power Output modes are to be available. Details to be mentioned	
	c. Modulation Type	All modulation types are to be specified with required technical data	
Į	d. RF Input Impedance	To be mentioned	
1	e. Receiver Sensitivity	To be mentioned	
Ī	f. AF Output	Defails to be mentioned	
ſ	g. Squelch Type	Details to be mentioned	
Ī	h. Types of Waveforms	Details to be mentioned	
28.	Programming Software (Tools ki	betails to be mentioned	
	a. Programing Kit along with		
-	Software (Perpetual License) b. Tool Kit/Fill Gun		
-	D. TOOL NIVE III GUII	To be provided (if available)	
	c. Requirement of Laptop (Optional)	To be mentioned (if required)	
29.	Mandatory Features		
	Automatic Link Establishment (ALE)	Available (3G ALE or above)	
Γ	b. Data Communication	Minimum 100 khna Dataila ta t	
Ī	c. Built in Test (BITE)	Minimum 100 kbps. Details to be mentioned To be available	
	d. Instant messaging Facility		
	e. GPS Facility	To be mentioned	
⊢		To be available	
Ĺ	f. SDR Facility	To be available and details to be provided	
	g. CNR Facility	To be available	
F	h. Remote Control Facility		
		Minimum 100 meter (wired/wireless)	
·	Optional Features		
	a. IP Interfacing facility with Field Exchange	To be available and details to be mentioned	
	b. Battle management	Support BMS (Battlefield Management System) or similar standards	SCHIERAL DEFENS
	Operating/ Storage Condition		
	a. Operating Temperature	≈ 10° C to + 55° C	DEDP &
	b. Storage Temperature	- 20° C to + 60° C	
0	c. Humidity Permissible	Maximum 95%	**
	Condition for Operation	meaningit 9070	STORT WEST
T-0	d. Operation during Fog, Rain	To be possible	AM W
	OM-0312. Re-Eaval Board Radio SellBolO for Gen Spec of Radio Sel	A-2 453 3 C 3 3/8	

Ser	Fact/Description			Technical Speci	To be filled up by			
(a)		(b)	(c)			principal/ manufacturer		
15-7	and S	Snow		(C)				(d)
32,		ronmental Standards	l					
		in/Splash Proof	<u> </u>	·· · · · · · · · · · · · · · · · · · ·				
		st Proof	Military S	Standard 810 F or	higher			
		pration Proof	i issuitary, c	Additional Of Other	riigrici	}		
		mperature Proof	As per or	perating and stora	go Tomo	oroturo		
33.		of Standard Accessories						
00.	LIGE !	or otanuara Accessories	as standa	o pe mentionea) F	ollowing	item/Acce	essorie	are to be offered
Ì		Bill of Ou		ato: terial (BOQ /BOM) of Cto	مامينا الاميد		
	Ser	Eqpt Name/ Nomencla	dire	Part No				Parents:
- 1	00.	Edbi (490) (40) (10)	ardii e	Fall No	Qty	Countr Manufac		Rmks
	ä.	Transceiver (Including Al	F. BITE.	 		ivialitulai	sture 1	· · · · · · · · · · · · · · · · · · ·
1	".	ATU and Instant Messagir	no Facility				1	
}		etc)	(3 . wears)		ļ	<u> </u>	ļ	
]	b.	Radio Earthing						
1	C.	Handset		· · · tes				
	d.	Antenna (Two different Ante	nna to be	·r				
1		given as Standard Item)		* 183 ₄			ł	
ĺ		with accessories					İ	
Ì	e.	Antenna Mast (One Antenn	a Mast to					****
	1	be given in Standard item)	complete	•			- 1	
i		with accessories		,	1			
	f.	Power Supply System						
]	(1) AC Power Supply Com	olete with					
- 1		cables		****			i	
		(2) DC Power Supply Com	olete with	į				
1		cables			_			
		(3) Sealed Rech	argeable					
		Maintenance Free Battery (120 AH) (02 Nos) with	mumum Sharaina					
1	[facility (Battery charger). A	cuarging	•			İ	
		from local source	sceptante	s	1 1		ļ	
[]	g.	Programming Kit alon	g with		-			
1		Software (Perpetual Licens	e and to	4	1 1		-	
1:		be offered in 10:1 ratio)			1 1		ļ	
	ħ.	GPS Facility with Accessorie	S	ĸ	 			
				<u>s</u>				
		Data Communication facil		*				
-		Accessories (Data Transfer			1			
		similar, To be offered in 10:1 ra	tio)	le .				
11	k. Tool Kit/Fill Gun (if available) with accessories (To be offered in 10: ratio) I. Carrying Bag (To be offered as per requirement)		I-N!!!					
				.i.				
[]			וויטוי מו	~ .			- 1	
			d as nor	 	┼		 -	CENERAL DESAM
			a cas per				NS.	
	ł	4			[
	m.	Required cables, connecte	ors and	· · · · · · · · · · · · · · · · · · ·	 		 	DGDP I
		associated accessories	and the same				W.	「イノ*//
				y	1 1		N	MISTRY OF DEFE
34. <u>I</u>	_ist of	Optional Accessories		(Details to be me	ntioned)	Following	Item/A	cessories are to
				be offered as opt	ional:			



Ser	6	Fact/Description		Technical Spec	To be filled up by			
(a)	-	(b)		F_4	principal/ manufacturer			
107			ntity/Mat	(c) erial (BOQ /BO	nn of (Infingal Hom	(d)	
	Ser	Eqpt Name/Nomenclate	ure	Part No	Qty	Country of Manufacture	Rmks	
	a.	Handset						
]	<u>b.</u>	Radio Earthing						
	d.	Programming Software Data Communication faci	114	_	ļ	<u> </u>		
	d.	Accessories (Data Transfer similar to be offered)	Cable o	r				
	e.	Laptop (To be offered in 10:1	ratio)					
	f.	BMS (Battlefield Managemer or similar)						
	g.	Case/Transit Case	sportation	1				
	h.	Interface cable with Field Exch	nange					
-		Any others to be mentioned			<u> </u>			
35. 36.	Warra	nty Sales Service		(wo) Years				
37.		Validity	5 (I	Five) Years ilmum 8 (Eight)	Voore 1	rom cieri		
38.	Any of		cor	itract				
3.0.	Any or	uer	lit i	any item not so ve but require	pecifica	ally mentioned		
			ran	ge of operation	. the s	meany ioi iu supplier shoul	1	
ł			spe	cify and quote	such i	tem(s) in thei	r	
PAR	 	RAINING REQUIREMENT	offe	τ			<u> </u>	
39.		raining	l Tc	be provided (A	e per	equirement o	f I	
	<u> </u>		Si	gnals & EME Di	rectora	te)		
40.	Opera Trainir	tions, Repair and Maintena		be provided (A	s per i	equirement o	f	
41.		ory Management Training	To	gnals & EME Di be provided (A	s per r		f	
42.	Public	ation on Training		dnance Director be provided	rate)	-		
	T-4 : RE	PAIR AND MAINTENANCE RE	OUIREN	IENT LESS LIS	TOF	SPARES		
43.	Books	& Publication					'T	
	a. Ow	ners/ Operations manual in Eng	jlish To	be provided (A	s per re	equirement of		
	(BOOK	Type) including CD/DVD) orkshop/Repair manual incl deleter	Sig	inals & EME Di	1			
	schem	atic and circuit diagram in En		be provided (A mals & EME Dir	s per re	equirement of		
	(Book	Type) including CD/DVD						
	6. 100)% Updated master spare p		be provided (As				
	ineludi	ng CD/DVD)		nals & EME Dir	ectora	te)		
	d. Cor	nplete and updated master st						
	parts	orice catalogue / list in Eng	glish Sig	inals & EME Dir	ectoral	te)		
PAR.	(⊐⊍0K [-5 • 1 IS	Type) including CD/DVD) T OF SPARES						
44.		standard spare parts, tools and	ĪΤο	be provided (A	s per r	equirement o	F	
	access	ories	Sic	inals & EME Dir	ectorat	:6) :	'}	
PAR	<u>r-6 TOC</u>	L LIST FOR DIFFERENT LEVI	EL OF M	AINTENANCE			CRAI DECE	
45.	a. Anal	yzer, Measuring Testing/Fault and Diagnostic set	l To	be provided (As	per re	quirement of	Contract of the second	
		and Diagnostic Set Dial Service Tools (SST)		nals & EME Dir be provided (As				
ļ			Sic	nals & EME Dir	ectorat	e) Annement of	DGOP	
	c, Spec	cial Service Materials (SSM)	To	be provided (As	per re	quirement of		
PΔR	-7. FIN	ANCIAL SPECIFICATION	Sig	nals & EME Dir	ectorat	e)	THY OF THE CONTROL	
46.	Financi	al Implication/ Specifications	170	be mentioned				
				Inditioned		F 2 4 3 273	103 CO	
Mariin	natroje =	Found Provided to the Control of the	RE	A-4 STRICTED	\mathbb{Z}	of Helm	*) (Tole of all)	
กำใจเค้อ-03	. ⊾∪m•031Z. R€	Eaval Board Radio SettBofO for Gen Spec of Radio Set on 2	7.02.24\Anx A. B.	C, D,&.Elf, Anx A - HF Med R	ng Base Sta	Version doc -		
					12		ala Co	

ANNEX B TO DGDP LETTER NO 06.06.0000.215.49.24/Std **DATED: 09 JUNE 2024**

GENERAL SPECIFICATION OF RADIO SET HIGH FREQUENCY MEDIUM RANGE (VEHICLE VERSION) (MILITARY VERSION)

	IVERIOLE	: VERSION (MILITARY VERSION)	
Ser	Fact/Description	Technical Specification	To be filled up by
		2.1	Principal/Manufacturer
(a)	(b)	(c)	(d);
	T1: GENERAL SPECIFICATION	The cities of the Physics of the Phy	
1.	Nomenclature	Radio Set HF (Medium Range)	
1		(Vehicle and Base Station Version) (Military Version)	
2.	Type of Radio		
2.	type of Radio	Military Version (Vehicle Version) Software Defined Radio	
2	Brand Name <i>l</i> Make	To be mentioned	
3. 4.	Modél	To be mentioned	
5.	Country of Origin	Group A and B countries	•
6.	Country of Manufacture	Group Aland B countries	
7.	Country of Manufacture Country of Assembly	Group' A and B countries	
8.	Year of Manufacture	Not before the calendar year of the	
"	rom di manglabidia	contract	
9.	Name of Manufacturer with complete	Details to be mentioned	
	address (Addresses, Telephone, Fax,		:
1	Email & Website)		
10.	Name of Principal with complete address	Details to be mentioned	
1	(Addresses, Telephone, Fax, Email &		
	Website)		
11.	Name of Local Agent with complete	Details to be mentioned	
	address (Addresses, Telephone, Fax,		
40	Email & Website)	Brown for the control of the control	
12.	Port of Shipment	Must be from the country of	
		Manufacturing/Assembly. Trans- shipment not allowed	
13.	Golor	Metallig Bronze (MB) Green	
	T 2: TECHNICAL SPECIFICATION	intoticing Dionice (mp) Clock	
		I de National Party Committee	
14.	Frequency Range	1.6 MHz-30 MHz. Below 1.6 MHz and	
15.	Erogilonou Pond	above 30 MHz are allowed	
16.	Frequency Band Channel Bandwidth	To be mentioned	
17.	Channel Spacing	To be mentioned	
18.	Number of Preset Memory Channel	Minimum 50, Specific memory channel	
	right of the the control of control	is to be mentioned	
19.	Number of Total Working Channel	To be mentioned	
	Technical Communication Range		.,
20.	Static (Vehicle to Vehicle)	Minimum 30 KM	
İ	On the Move (Vehicle to Vehicle):	Minimum 15 KM both în urban area	
l	,	and hilly area	
	Vehicle to Base	Minimum 100 KM	GENERAL DESC
21.	Antenna Type	Vehicular Broad band antenna is	
	-15-	preferable. Details of all types of	DOOP
		antennas to be mentioned	B DEDP
22.	Antenna Tuning Unit (ATU)	To be mentioned	1/*/CY/.*/
23.	Communication Security		STRY OF DEFE
	a. Encryption	AES 256 or higher mode encryption	01 05
		must be available. Details to be	
		mentioned	6 5 93 3
	b. Frequency Hopping	Minimum 100 hops per minute Details	
		B-1 55 3 40	TO Market I

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Disigs-us-com/usiz-Ro-Eaval Board Rudio SoilBoid for Gon-Speed of Rudio Soil on 27,0724 Name A.B. C. Cickletz Anxilla HF Med Rog Volu

c. Other Types of Security (Optional) c. Other Types of Security (Optional) Any other types of communication security (if available) are to be mentioned Any other types of communication security (if available) are to be mentioned To be mentioned. Picture is to be provided ettery preferable is to be mentioned and bettery rating are to be mentioned and bettery rating are to be mentioned To be available (Details to be mentioned and better) and better to be available. Details to be mentioned To be available. Details to be mentioned To be available. Details to be mentioned To be available. Details to be mentioned To be available. Details to be mentioned To be provided (if available) To be mentioned To be available (and at a better) To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned To be available and details to be	Spr (a)	Fact/Description	Technical Specification	To be filled up by Principal/ Manufacture
c. Other Types of Security (Optional) Any other types of communication security (if available) are to be mentioned Any other types of communication security (if available) are to be mentioned 7 to be mentioned. Picture is to be provided 26. Weight of the Radio set (Complete at Functional Candition) 26. Power Supply System 27. Dimension (W x D x H) (Without Antenna) 28. Must be operated from 12/24 Volt DC battery (preferably from vehicle power source) 29. D. Do rechargeable and replaceable battery may be proposed. Detail of brand, model, country of manufacture and battery rating are to be mentioned 29. Transceiver 20. Transceiver 21. Transceiver 22. Max 100 W or above 23. Radio set must qualify in both the above parameters 29. Max 100 W or above 20. Max 100 W or above 20. Max 100 W or above 21. Max 100 W or above 22. Max 100 W or above 23. Radio set must qualify in both the above parameters 29. Sealable Power Output modes are to be available. Details to be mentioned 20. To be available. Details to be mentioned 21. To be mentioned 22. Max 100 W or above 23. Radio set must qualify in both the above parameters 24. Saquelot Type 25. To be available (Details to be mentioned 26. Receiver Sensitivity 27. To be mentioned 28. Squelot Type 29. Details to be mentioned 29. Max 100 W or above 20. Details to be mentioned 20. To be mentioned 21. To be mentioned 22. Max 100 W or above 23. To be mentioned 24. To be mentioned 25. To be mentioned 26. Receiver Sensitivity 27. To be mentioned 28. Details to be mentioned 29. Details to be mentioned 29. Details to be mentioned 20. Requirement of Laptop (Optional) 20. Details to be mentioned 21. Mandatory Features 22. Automatib Link Establishment (ALE) 28. Details to be mentioned 29. Winding the stable of the mentioned 29. Details to be mentioned 29. Details to be mentioned 29. Details to be mentioned 29. Details to be mentioned 29. Details to be mentioned 29. Details to be mentioned 29. Details to be mentioned 29. Details to be	(a)	(b)	(c)	
security (if variable) are to be mentioned. 24. Dilimension (W x D x H) (Without Antenna) 75. be mentioned. Picture is to be provided. 76. Weight of the Radio set (Complete at Functional Condition) 87. Power Supply System 88. Power Supply System 99. A Must be operated from 12/24 Volt D.C battery (preferably from vehicle power source) 90. D. D or chargeable and replaceable battery may be proposed. Detail of brand, model, country of manufacture and battery rating are to be mentioned. 90. The battery should have charging facility from vehicle system (preferable). 91. Transceiver. 92. A RF Power Output 10. Min: 25 W or below. 11. Min: 25 W or below. 12. Max: 100 W or above. 13. Radio set must qualify in both the above parameters. 15. Salable Power Output modes are to be available. Details to be mentioned. 16. Receiver Sensitivity 17. To be mentioned. 18. RF Input Impedance 19. Details to be mentioned. 19. Saledich Type 19. Details to be mentioned. 19. Saledich Type 19. Details to be mentioned. 19. Saledich Type 19. Details to be mentioned. 20. Receiver Sensitivity 10. Details to be mentioned. 21. Types of Waveforms 22. Details to be mentioned. 23. Programming Software (Tools kit, Laptove etc.) 24. Programming Software (Tools kit, Laptove etc.) 25. Tool Kit/Fill Gun 26. Requirement of Laptop (Optional) 27. Details to be mentioned. 28. Automatic Linke Establishment (ALE) 29. Distails (36 ALE or above) 29. Minimum 100 Kbps. Details to be mentioned. 20. Built in Test (BITE) 20. Details (36 ALE or above) 20. Distails (36 ALE or above) 20. Distails (37 Ale available) 20. Distails (37 Ale ava		c. Other Types of Security (Ontional)		
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b. Data Communication Minimum 100 Kbps. Details to be mentioned c. Built in Test (BITE) d. Instant messaging Facility e. GPS Facility To be available f. SDR Facility To be available and details to be mentioned g. CNR Facility To be available and details to be mentioned g. CNR Facility To be available and details to be mentioned To be available Optional Features a. Remote Control Facility Minimum 100 meter (wired/ wireless) b. IP interfacing facility with Field Exchange c. Battle management Support BMS (Battlefield Management System) or similar standards B-2	j.e	Automatic Link Establishment (ALE)	Available (3G A) F or above)	
c. Built in Test (BITE) d. Instant messaging Facility e. GPS Facility f. SDR Facility To be available and details to be mentioned g. CNR Facility To be available and details to be mentioned To be available and details to be mentioned Getting To be available To be available To be available To be available DGD DGD DGD To be available and details to be mentioned To be available and details to be mentioned Exchange Exchange To be available and details to be mentioned To be available and details to be mentioned Exchange To be available and details to be mentioned To be available and details to be mentioned Exchange To be available and details to be mentioned To be available and details to be mentioned Exchange To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned Exchange Exchange To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned To be available and details to be mentioned Exchange Exchange To be available and details available and details to be mentioned To be available and details to be mentioned		•	(oc. into or above)	ļ
c. Built in Test (BITE) d. Instant messaging Facility e. GPS Facility f. SDR Facility To be available and details to be mentioned g. CNR Facility To be available and details to be mentioned To be available and details to be mentioned To be available Optional Features a. Remote Control Facility Minimum 100 meter (wired/ wireless) b. IP interfacing facility with Field Exchange C. Battle management Support BMS (Battlefield Management System) or similar standards	b). Data Communication	Mariner and Application	
d. Instant messaging Facility e. GPS Facility f. SDR Facility To be available To be available To be available To be available To be available and details to be mentioned To be available and details to be mentioned To be available Optional Features a. Remote Control Facility Minimum 100 meter (wired/ wireless) DCOV DCOV To be available Support BMS (Battlefield Management System) or similar standards B-2 DCOV DC			winimum 100 Kbps. Details to be	
e. GPS Facility To be available f. SDR Facility To be available and details to be mentioned g. CNR Facility To be available and details to be mentioned To be available Optional Features a. Remote Control Facility Minimum 100 meter (wired/ wireless) b. IP interfacing facility with Field Exchange c. Battle management Support BMS (Battlefield Management System) or similar standards B-2 B-2 B-2 B-2	_			
f. SDR Facility g. CNR Facility Optional Features a. Remote Control Facility b. IP interfacing facility with Field Exchange c. Battle management Minimum 100 meter (wired/ wireless) To be available and details to be mentioned Support BMS (Battlefield Management System) or similar standards B-2 Processors To be available and details to be mentioned Support BMS (Battlefield Management System) or similar standards	_d	l. Instant messaging Facility		
f. SDR Facility g. CNR Facility Optional Features a. Remote Control Facility b. IP interfacing facility with Field Exchange c. Battle management Minimum 100 meter (wired/ wireless) To be available and details to be mentioned Support BMS (Battlefield Management System) or similar standards B-2 PLOTE INTERIOR	е	. GPS Facility		
g. CNR Facility To be available Optional Features a. Remote Control Facility b. IP interfacing facility with Field Exchange c. Battle management Minimum 100 meter (wired/ wireless) To be available and details to be mentioned Support BMS (Battlefield Management System) or similar standards B-2 DGDI OR DE DGDI OR DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE DGDI OR DE	f.	SDR Facility		WEDNI DO
G. CNR Facility Optional Features a. Remote Control Facility b. IP interfacing facility with Field Exchange c. Battle management Minimum 100 meter (wired/ wireless) To be available and details to be mentioned Support BMS (Battlefield Management System) or similar standards B-2 PLOTE LOTTER	_		mentioned and details to be	E CENTING DO CE
A. Remote Control Facility b. IP interfacing facility with Field Exchange c. Battle management Minimum 100 meter (wired/ wireless) To be available and details to be mentioned Support BMS (Battlefield Management System) or similar standards B-2 B-2 B-2 B-2 B-3 B-3 B-1 B-1 B-1 B-2 B-2 B-2 B-3 B-1 B-1 B-1 B-1 B-2 B-2 B-2 B-2				
b. IP interfacing facility with Field Exchange c. Battle management Support BMS (Battlefield Management System) or similar standards B-2 B-2 B-2 B-2 B-2 B-2 B-3 B-2 B-3 B-2 B-3 B-3				₩ DGØP €
Exchange C. Battle management Support BMS (Battlefield Management System) or similar standards B-2 B-2 B-2 B-2 B-2 B-2 B-2 B-	a.	. Remote Control Facility	Minimum 100 meter (wired/ wireless)	
c. Battle management Support BMS (Battlefield Management System) or similar standards B-2	b.	. IP interfacing facility with Field	To be available and defails to be	- 10 V de 0000
System) or similar standards B-2 B-2 B-2 B-2 B-3 B-3 B-3 B-3	<u>_</u> E	xchange	mentioned	THE VOLUME
System) or similar standards B-2 B-2	C.	battle management	Support BMS (Battlefield Management	
B-2	-		System) or similar standards	10 Sigs 8
DECEDIOTED AND BUT SOME				Hay to
ISIGS-03 COM-0312, Re-Eaval Board Radio SettBol O for Gen Spec of Radio Set on 27,02:24 Anx A, B, C, D & Etz, Anx B. HF Med Rng Volverson doc	(alaren	an air.	DECEDIOTED /	1 3 m 2012
	SIGS	-03 COM-0312. Re-Eaval Board Radio SellBolO for Gen Spec of Radio Set on 27,03	2.24\Anx A, B, C, Q & Etz. Anx B. HF Med Rng Veh Version don	TO VA
			1	3 1/1/2013/
			S. Santa	Constitution of the Consti

7. Car

Ser	Fact/Description	Technical Specification	To be filled up by Principal/ Manufacture
(a)	(b).	(c)	(d)
31.	Operating/ Storage Condition		3.7
0	a. Operating Temperature	- 10° C to + 55° C	
	b. Storage Temperature		
		- 20 ⁰ C to + 60 ⁰ C	
	c. Humidity Permissible Condition for Operation	Maximum 95%	
ĺ	d. Operation during Fog, Rain and Snow	To be possible	
	e. Earthling for communication vehicle/Tank/APC/ Armored Vehicle etc (whenever applicable)		
32.	Environmental Standards		
[a. Rain/Splash Proof		
	b. Dust Proof	Military Standard 810 F or higher	
ŀ	c. Vibration Proof	- minute y Charlicator o 10 1- of 10g/1er	
ŀ	d, Temperature Proof		
33.	List of Standard Accessories	As per operating and storage Temperature	
00.		(Details to be mentioned) Following Ite offered as standard:	m/Accessories are to b
f	Ser Edpt Name/ Nomenclature	Material (BOQ /BOM) of Standard Items	
	Ser Eqpt Name/ Nomenclature a. Transceiver (Including ALE, BITE,		
	SDR Features, PA. ATU and		
	Instant Messaging Facility etc)		
	b. Radio Earthing		
	c. Handset		
	d. Antenna (Two different Antenna to be given as Standard Item) complete with accessories		
	e. Vehicle mounting kit (for radio and antenna) will all accessories		
	f. Power Supply System		<u> </u>
	(1) DC Power Supply Complete		
	with all necessary cables		
	(2) Sealed Rechargeable Maintenance Free Battery (Minimum 120 AH) (02 Nos) acceptable from local source		
	g. Programming Kit along with Software (Perpetual License and to be offered in 10:1 ratio)		
! ⊢	h. GPS Facility with Accessories		
	j. Data Communication facility with Accessories (Data Transfer Cable or similar)		CENERAL DEFA
	k. Tool Kit/Fill Gun (if available) with accessories (To be offered in 10:1 ratio)		DØDP
	Carrying Bag/ Transportation Case/Transit Case (To be offered as per requirement)		THY OF DESIGNATION OF THE STATE
	n. Required cables, connectors and associated accessories		Sins Of

B-3
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D.ISIGS-03 COM-0312, Re-Eaval Board Radio SettBoffo for Gen Spac of Radio Set on 27:02.24 Anx A, B, C, D & Etz, Añx B - HF Med Ring Volt Version:doo

Ser				Technical	Specificat	To be filled புட் by Principal/ Manufacturer				
(a)	 	(b)			(d)					
34.	Listic	f Optional Accessorie		offered as optional	l:		tem/Accessories are to be			
	0	B	ill of Quantity	/Material (BOQ /BO	M) of Opt	onal Items				
-	Ser	Eqpt Name/Nom	enclature							
	a. b.	Handset		·						
	6.	Radio Earthing Programming Softwar				ļ				
	d.	Data Communication		<u> </u>		 				
	"	Accessories (Data Ti	racility Willi			ĺ				
	11	or similar to be offered	d)							
	e.	Laptop (To be offered	in 10:1 ratio)							
	f.	BMS (Battlefield	Management	·		<u> </u>				
į	<u> </u>	System or similar)			1	Ì	•			
	:g.	Case/Transit Case	ransportation							
	h.	Exchange	with Field							
],	Any other to be mantic	oned							
35.	Warra		2 (Two) Year							
36. 37.		Sales Service	5 (Five) Year							
ე ა₁.	INIOGE	Validity	Minimum 8 (Eight) years from sig	ning of co	ntract				
38.	Any of	her	If any item	not specifically me	ontioned s	Shous hut				
	, 0.		required tec	hnically for full rang	enuoned a	gove but	;			
!			bidder should	d specify and quote	such item	(s) in their				
,			offer. In cas	se of failure to spe	cify and o	uote, the				
			l bidder must i	provide such items fr	ee of cost					
		RAINING REQUIREME	NT							
39.	User	raining		To be provided (As	per requir	ement of				
40.	Operai	tions, Repair and Mainte	nonee	Signals & EME Dire						
10.	Trainin	iono, isopan and Manie M	anatice	To be provided (As Signals & EME Dire	per reguin retorate)	ement of				
41.		ory Management Trainir	nģ	To be provided (As per requirement of						
				Ordnance Directora	ite)	pittotat Ot				
42.	Publica	ation on Training		To be provided			N-			
PAR.	Peralta	PAIR AND MAINTENA	NCE REQUIR	<u>EMENT LESS LIST</u>	OF SPAR	ES				
43.		& Publication ners / Operations manua	Tin Castists	T- 1 11 - 14						
	(Book	Type) including CD/DVI	arın Edâned	To be provided (As	per require	ement of				
	b. Wo	rkshop/Repair manual	incl detail	Signals & EME Dire To be provided (As	ciorate)	mont of				
	schem	atic and circuit diagrar	n in English	Signals & EME Dire	etorate)	SITTELL OF				
ļ	(Book	Type) including CD/DVI) [_	010.0107					
	c. 1009	% Updated master spare	e parts	To be provided (As	per require	ement of				
	CD/DV	ue în English (Book Tyr	e) including	Signals & EME Dire	ctorate)					
}			tor energ	To be now detailed to						
	d. Complete and updated master spare parts price catalogue / list in English			To be provided (As Signals & EME Dire	per require	ement of				
	(Book	Type) including CD/DVD	2)	Oldinais & FINE DILE	Ciorate)					
44.	List of	standard spare parts, to	ols and	To be provided (As	per require	ment of				
D 6 D 7	access	ories		Signals & FIME Dire	ctorate)		CENERAL DESCRI			
45.	-6 TOO	L LIST FOR DIFFEREN								
40.	finding	yzer, Measuring Testing and Diagnostic set		To be provided (As	per require	ment of	DGOP			
F	b. Sner	cial Service Tools (SST)		Signals & EME Dire	ctorate)		IIS PURLY SI			
				To be provided (As p Signals & EME Dire	per require ctorate)	ment of	THE OF THE CONTROL OF			
	c, Spec	ial Service Materials (S	SM)	To be provided (As	per require	ment of	ALOL DEFE			
DADT	7. PR.	ARIOTAL ODDOG	- 1	Signals & EME Direc	ctorate)					
<u>rari</u>	-7: FIN/	ANCIAL SPECIFICATION	<u>N</u>			20 45				
				B-4		UK 01/8	k) *) *) *)			

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D:(SIGS-03 COM-0312, Re-Eaval Board Radio SetiBol0 for Gen Spec of Radio Set on 27.02.24 Anx A, B, C, D & Et2, Anx B- HF Med Rng Voh Versi

Ser	() () () () () () () () () ()		
Ser	Fact/Description	Technical Specification	To be filled up by
lat)r. s		Principal/ Manufacturer
(a) 46.	(D)	(c)	(d)
40.	Financial Implication/ Specifications	To be mentioned	







ANNEX C TO DGDP LETTER NO 06.06.0000.215.49.24/Std DATED: 09 JUNE 2024

GENERAL SPECIFICATION OF RADIO SET VHF MEDIUM RANGE (BASE STATION VERSION)

Ser	Fact/Description	T	Technical	Specification	To be filled as to
		1	resimilar e	To be filled up by	
(a)	(b)	 		<u>c)</u>	principal/manufacturer
	T1: GENERAL SPECIFICATION	_' J		<u> </u>	(d)
1.	Nomenclature	Radio and Versi	Base Station	dium Range (Yehicl r Version) (Militar	У
2.	Type of Radio	Milita Softv	ry version (Ba vare Defined R	se Station Version adio)
3.	Brand Name/make	To be	e mentioned		
4.	Model		e mentioned		
5.	Country of Origin	Grou	p A and B cou	ntries	
6.	Country of Manufacture	Grou	p A and B cou	ntries	
7.	Country of Assembly	Grou	p A and B cou	ntries	
8.	Year of Manufacture	contr	act .	idar year of the	
9.	Name of Manufacturer with complete address (Addresses, Telephone, Fax, Email & Website)		Îs to be mentio	ned	
10.	Name of Principal with complete address (Addresses, Telephone, Fax, Email & Website)	Detai	is to be mentic		
11.	Name of Local Agent with complete address (Addresses, Telephone, Fax, Email & Website)	Defail	is to be mentio	ned	
12,	Port of Shipment	Manu	be from the cor facturing//Asser rent pot allower	mbly.Trans-	
13.	Color	Metal	lic Bronze (MB	'Green	-
	2: TECHNICAL SPECIFICATIO	M		, 2,000	
14.	Frequency Range	30 M		Above 88 MHz is e band preferable	
15.	Frequency Band	VHF		- ' Bi biblidibib	
16.	Channel Bandwidth		mentioned		
	Channel Spacing		mentioned		GENERAL DESCRIPTION
18.	Number of Preset Memory Channel	Minim is to b	um 25. Specif e mentioned	DGOP	
	Number of Total Working Channel		mentioned	* X X X	
	Communication Range (factical of				OF DEED
	Base Station Version Minimum Range	Plain 25k	Urban Area	Hilly Area	(0.5105.0)
f			20km	1;2km	

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CASTGE-03 COLUMN Re-Enval Board Radio Settioto for Gen Spec of Radio Set on 27.022 (Ann A. B. C. D& Ell. Ann C-VIII Lied Rog Base Sia Veraion dots

Ser	Fact/Description	Technical Specification	To be filled on bu
Sei	Facubescription	Technical Specification	To be filled up by principal/manufacturer
(a)	(b)	(c)	(d)
21,	Antenna Type	Antenna complete with accessories	(u)
2.15	A attornia Tabo	details to be mentioned with various	
		types of antenna	
22.	Antenna Mast	Antenna Mast (height and segment)	
	7 WHOTH IN INCO	complete with accessories details to be	
		mentioned	
23.	Communication Security	1100, 1000, 1000	
	a. Encryption	AES 256 or higher mode encryption	
		must be available. Details to be	
		mentioned	
	b. Frequency Hopping	Minimum 100 hops per minute. Details	
		to be mentioned	
	c. Other Types of Security	Any other types of communication	
		security (if available) are to be	
	B	mentioned	
24.	Dimension (W x D x H)	To be mentioned. Picture is to be	
25	(Without Antenna)	provided	
25.	Weight of the Radio set (At Functional Condition)	To be mentioned	
26.	Power Supply System	a. Must be operated from both AC	
20.	Fower Supply System	a. Must be operated from both AC (220 VAC ± 20% at 50 Hz) and DC	
		rechargeable and replaceable battery.	
		Detail of brand, model, country of	
		manufacture and battery rating are to	
		be mentioned	
		b. The battery charger should have	
		charging facility from AC power 220	
		VAC ± 20% at 50 Hz. Charging from	
		solar charger at ambient light (optional)	
27,	Transceiver		
	a. RF Power Output	Minimum 5 Watt or below.	
		2. Maximum 40 Watt or above.	
		3. The set must qualify in both the	
	b. Power Modes	above parameters. Scalable Power Output modes are to be	-
	S' I AMOI MIGRES	available. Details to be mentioned	
	c. Modulation Type	All modulation types are to be specified	
		with required technical data	
	d. RF Input Impedance	To be mentioned	
	e. Receiver Sensitivity	To be mentioned	
	f. AF Output	Details to be mentioned	
,	g. Squelch Type	Details to be mentioned	
	h. Types of Waveforms	Details to be mentioned	CENERAL DESC
28.	Programming Software (Tools		
	a. Programing Kit along with	To be provided	
	Software (Perpetual License)		DODP &
	b. Tool Kit/Fill Gun	To be provided (if available)	*
	c. Requirement of Laptop (Optional)	To be mentioned (if required)	TO THY DE LAST CO.
	1 (Sprinter)	25 E	
		// 18 5 C S	The second second

(a) (b) (c) (d)	Ser	⊕ ra	ct/Description	1	echnica	I Spe	cificat	ion	a	To be filled	
29. Mandation Features a. Auto Re-broadcast/ data relaying/ retransmission facility b. Data Communication b. Data Communication c. Built in Test (BITE) d. Instanf messaging Facility e. GPS Facility f. CNR Facility To be available d. Instanf messaging Facility f. CNR Facility To be available g. GPS Facility To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available To be available Management System or Similar) To be available To be available To be available To be available To be available To be available Management System or Similar) To be available To be available Management System or Similar) To be available To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar) To be available Management System or Similar To be available Management System or Similar To be available Management System or Similar To be available Management System or Similar To be available Management System or Similar To be available Management System or Similar To be available Management System or Similar To be available Management System or Similar To be available Management System or Similar To be available Management Sy	(a)		(b)			(c)					
a. Auto Re-broadcast/ data relaying/ retransmission facility b. Data Communication Minimum 100 kbps. Details to be mentioned c. Built in Test (BITE) To be available d. Instant messaging Facility To be mentioned e. G. Built in Test (BITE) To be available d. Instant messaging Facility To be available f. CNR Facility To be available g. GPS Facility To be available Joptimum 100 kbps. Details to be mentioned e. GPS Facility To be available g. GPS Facility To be available g. CNR Facility To be available Joptimum 100 Meter (wired/ wireless) Battle management Support BMS (Battlefield Management System or Similar) Support BMS (Battlefield Management System or Similar) C. Mobile Adhoc Network (MANET) facility Joperating/ Storage Condition a. Operating Temperature b. Storage Temperature c. Humidity Permissible Condition for Operation d. Operation during Fog, To be possible Rain and Snow 32. Environmental Standards a. Splash/Rain Proof b. Dust Proof c. Vibration Proof d. Temperature Proof d. Temperature Proof B. Dust Proof c. Vibration Proof d. Temperature Proof As per operating and storage temperature Bill of Quantity/Material (BOQ /BOM) of Standard Items Ser Eqpt Name/ Nomenclature Part No Qty Country of Manufacture Bill of Quantity/Material (BOQ /BOM) of Standard Items Ser Eqpt Name/ Nomenclature Part No Qty Country of Manufacture a. Transceiver (Including BITE, Instant Messaging facilities etc) b. Handset c. One Antenna complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item)		Mandato				<u>V-7</u>				421	, ,
relaying/ retransmission facility b. Data Communication Minimum 100 kbps. Details to be mentioned c. Built in Test (BITE) To be available d. Instant messaging Facility To be mentioned e. GPS Facility To be available f. CNR Facility To be available g. GPS Facility To be available f. CNR Facility To be available g. GPS	ļ			To be	possib	ole.	Details	to	be	- ,	
facility b. Data Communication c. Built in Test (BITE) d. Instant messaging Facility d. Instant messaging Facility fo be mentioned e. GPS Facility fo be mentioned for one available for CNR Facility To be available for CNR Facility To be available for CNR Facility Dotional Factures a. Remote Control Facility b. Battle management Support BMS (Battlefield Management System C. Mobile Achoc Network (MANET) facility 31. Operating/ Storage Condition a. Operating/ Storage Condition a. Operating Temperature b. Storage Temperature -20° C to +55° C c. Humidity Permissible Condition for Operation d. Operation during Fog, Rain and Snow 22. Environmental Standards a. Splash/Rain Proof b. Dust Proof c. Vibration Proof d. Temperature Proof d. Tempe		relaying/	retransmission	I .	B++						
C. Built in Test (BITE) To be available d. Instant messaging Facility F. CNR Facility To be available f. CNR Facility To be available f. CNR Facility Dional Features a. Remote Control Facility B. Battle management Support BMS (Battlefield System O. Mobile Adhoc Network (MANET) facility Management System or Similar) C. Mobile Adhoc Network (MANET) facility To be available O. Mobile Adhoc Network (MANET) facility Management System or Similar) C. Mobile Adhoc Network (MANET) facility Management System or Similar) C. Mobile Adhoc Network (MANET) facility Management System or Similar) C. Humidity Permissible Maximum 95% Condition for Operation C. Humidity Permissible Condition for Operation Maximum 95% Condition for Operation C. Peration during Fog, Rain and Snow 32. Environmental Standards a. Splash/Rain Proof b. Dust Proof C. Vibration Proof d. Temperature Proof As per operating and storage temperature 33. List of Standard Accessories (Price to be quoted separately offered as standard: them wise) Bill of Quantity/Material (BOQ /BOM) of Standard Items Ser Eqpt Name/ Nomenclature Part No City Country of Rmks Manufacture a. Transceiver (Including BITE, Instant Messaging facilities etc) b. Handset C. One Antenna complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item)											
c. Built in Test (BITE) d. Instant messaging Facility To be available d. Instant messaging Facility F. CNR Facility F. CNR Facility F. CNR Facility To be available f. CNR Facility To be available f. CNR Facility To be available g. CDPS Facility F. CNR Facility D. Battle management Support BMS (Battlefield Management System or Similar) a. Mobile Adhoc Network (MANET) facility Management System or Similar) 31. Operating Temperature D. Storage Temperature D. Storage Temperature D. Maximum 95% Condition for Operation d. Operation during Fog, Rain and Snow Almand Snow Management Standards A. Splash/Rain Proof D. Dust Proof D. Dust Proof D. Dust Proof C. Vibration Proof d. Temperature Proof D. Standard Accessories Following Item/Accessories are to be (frierd as standard) Item wise) Bill of Quantity/Material (BOQ /BOM) of Standard Items Ser Eqpt Name/ Nomenclature Part No Qty Country of Rmks Manufacture a. Transceiver (including BITE, Instant Messaging facilities etc) D. Handset C. One Antenna complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item)	Ì	b. Data	Communication	Minimur	n 100	kbps.	Deta	ils to	be l		
d. Instant messaging Facility e. GPS Facility f. CNR Facility To be available f. CNR Facility To be available 30. Optional Features a. Remote Control Facility D. Battle management Support BMS (Battlefield Management System or Similar) C. Mobile Adhoc Network (MANET) facility 31. Operating Temperature D. Storage Temperature Condition for Operation Condition for Operation D. Operation Grouperation D. Storage Temperature Condition for Operation D. Dust Proof D.						•			i		
e. GPS Facility f. CNR Facility To be available f. CNR Facility To be available a. Remote Control Facility D. Battle management Support BMS (Battlefield Management System or Similar) a. Mobile Adhoc Network (MANET) facility Departing/ Storage Condition a. Operating/ Storage Condition a. Operating/ Storage Condition b. Storage Temperature C. Humidity Permissible Condition for Operation d. Operation during Fog, To be possible Rain and Snow 32. Environmental Standards a. Splash/Rain Proof b. Dust Proof C. Vibration Proof d. Temperature Proof As per operating and storage temperature (Price to be quoted separately item wise) Bill of Quantify/Material (BOQ /BOM) of Standard Items Ser Eqpt Name/ Nomenclature Part No Qty Country of Manufacture a. Transceiver (Including BITE, Instant Messaging facilities etc) b. Handset C. One Antenna complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item)		c. Built	in Test (BITE)	To be a	vailable		-				
f. CNR Facility Dottonal Features a. Remote Control Facility b. Battle management System Combile Adhoc Network (MANET) facility Doperating Storage Condition a. Operating Temperature Condition for Operation d. Operating Temperature Condition for Operation d. Operation during Fog, Rain and Snow 2. Environmental Standards a. Splash/Rain Proof b. Dust Proof c. Vibration Proof d. Temperature Proof d. Temperature Proof d. Temperature Proof Ser Eqpt Name/ Nomenclature Bill of Quantify/Material (BOQ /BOM) of Standard Items Ser Eqpt Name/ Nomenclature Part No Qty Country of Manufacture a. Transceiver (Including BITE, Instant Messaging facilities etc) b. Handset c. One Mast complete with all accessories (To be offered as standard item) d. One Mast complete with all accessories (To be offered as standard item)		d. Insta	nt messaging Facility	To be m	entioned	1					
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standard item)	İ	d. One	e Mast complete	with all				*****			
		acc	essories (To be off	ered as						CENERAL DES	
e. Power Supply System											
										S DANG	门室氏
(1) AC Power Supply complete				omplete							
with cables	İ	with	r cables							"TAX"	(**//
(2) DC Power Supply complete				omplete						O'TRY OF DES	
with cables		With	capies		<u></u>					510	

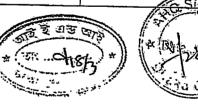
C-3 RESTRICTED

Ser	Ser act/Description			Technical Specification					e filled ugʻby al/manufactu	irer
(a)		(b)			(c)			pe.jp.	(d)	11.00
		(3) Sealed Maintenance F (Minimum 120 AH charging facility, A		y h						1
	f.	local source Programming Ki Software (Perpetu to be offered in 10			-					
	g.	GPS Facility with A								-
	h.	Auto Re-broadd relaying/ Retrans with accessories (1 5:1 ratio for without	easting/ Dat mission facilit To be offered i	y]						
	j.	Data Communicat	ion facility wit ata Transfe	er						
	k.	Tool Kit/Fill Gun with accessories in 10:1 ratio) Required cables, o	(To be offere	ď	-					
,	m.	associated access Carrying Case/Sto	ories	u j						_
34.		of Optional Access		Folia	l paiwe	tem/Ac	ressories	are to be	<u>s: </u>	
		to be quoted separ	ately item	offer	red as o	ptional:	•			
	10	Bill	of Quantity/M							<u>-</u>
	Ser	Eqpt Name/ Nor	nenclature	Part No	Qty		ntry of facture	F	Rmks	
	b.	Handset Programme Softwa		<u> </u>						_
	G.	Data Communication with Accessor	ation facility ies (Data							
	d.	Transfer Cable or Laptop (To be of ratio)	similar) fered in 10:1					- · · · · · · · · · · · · · · · · · · ·		_
	e.	BMS (Battlefield System)								
ĺ	f.	Carrying Case/Sto	rage Case	ونس						
7E	g.	Any others to be m		<u></u>				a		
35. 36.	Warra	anty Sales Service	2 (Two) Year 5 (Five) Year					1		
37.	Mode	l Validity	Minimum 8 contract		years	from s	igning of		2011	
38.	Any other If any item no but required operation, the quote such if allure to spen provide such			technine bidd tem(s) i cify and	ically for ler shou in their il quote,	or full uld spe offer, in the bid	range of ecify and a case of	WREG.	DGDP **	
							1000	1/20/2	10	

C-4 RESTRICTED

DdSiGS-03 COM-4372. Re-Eaval Board Hadio SetBolO for Gen Spec of Radio Set on 27.02.24Amx A, B, C, D & EtJ. Anx C-VHF Aled Rog Base Sia Version.deax

Ser			
		Technical Specification	To be filled up by principal/manufacturer
(a)	(b)	(c)	(d)
	T-3: TRAINING REQUIREMEN	NT · ·	ı (u)
39.	User Training	To be provided (As per requirement of Signals & EME Directorate)	
40.	Operations, Repair and Maintenance Training	To be provided (As per requirement of Signals & EME Directorate)	
41.	Inventory Management Training	To be provided (As per requirement of Ordnance Directorate)	
42,	Publication on Training	To be provided	
PAR	T-4: REPAIR AND MAINTENA	NCE REQUIREMENT LESS LIST OF SPA	APEC
43.	Books & Publication	The second secon	TALS
	a. Owners/Operations manual in English (Book Type) including CD/DVD)		
	b. Workshop/Repair manual incl detail schematic and circuit diagram in English (Book Type) including CD/DVD	Signals & EME Directorate)	
	c. 100% Updated master spare parts catalogue in English (Book Type) including CD/DVD)	To be provided (As per requirement of Signals & EME Directorate)	
	d. Complete and updated master spare parts price catalogue / list in English (Book Type) including CD/DVD)	To be provided (As per requirement of Signals & EME Directorate)	
PART	-5: LIST OF SPARES		
44.	List of standard spare parts, tools and accessories	To be provided (As per requirement of Signals & EME Directorate)	
PART	-6 TOOL LIST FOR DIFFEREN	T LEVEL OF MAINTENANCE	
45.	Analyzer, Measuring Testing/Fault finding and Diagnostic set	To be provided (As per requirement of Signals & EME Directorate)	
	b. Special Service Tools (SST)	To be provided (As per requirement of Signals & EME Directorate)	
DAD	c. Special Service Materials (SSM)	To be provided (As per requirement of Signals & EME Directorate)	
<u>rak I</u>	-7: FINANCIAL SPECIFICATION		
46.	Financial Implication/ Specifications	To be mentioned	
			Sign





ANNEX D TO DGDP LETTER NO 06.06.0000.215.49.24/Std DATED: 09 JUNE 2024

GENERAL SPECIFICATION OF RADIO SET VHF MEDIUM RANGE (VEHICLE VERSION)

Ser	Fact	Technical Specification	To be filled up by principal/ manufacturer
(a)	(b)	(©),	(d)
PAR	T1: GENERAL SPECIFICATION		
1.	Nomenclature	Radio Set VHF (Medium Range) (Vehicle and Base Station Version) (Military Version)	
2.	Type of Radio	Military Version (Vehicle Version) Software Defined Radio	
3.	Brand Name/make	To be mentioned	
4.	Mødel	To be mentioned	
5.	Country of Origin	Group A and B countries	
6.	Country of Manufacture	Group A and B countries	<u> </u>
7.	Country of Assembly	Group A and B countries	
8.	Year of Manufacture	Not before the calendar year of the contract	
. 9.	Name of Manufacturer with complete address (Addresses, Telephone, Fax, Email & Website)	Details to be mentioned	
10.	Name of Principal with complete address (Addresses, Telephone, Fax, Email & Website)	Details to be mentioned	
11.	Name of Local Agent with complete address (Addresses, Telephone, Fax, Email & Website)	Details to be mentioned	
12.	Port of Shipment	Must be from the country of Manufacturing/Assembly. Transshipment not allowed	
13.	Color	Metallic, Bronze (MB) Green	
P:A.P	T 2: TECHNICAL SPECIFICATION	DN	
14	Frequency Range	30 MHz - 88 MHz. Above 88 MHz is also allowed. Multiple band preferable	CHERAL DIFFE
15.	Frequency Band	VHF .	The state of the s
16.	Channel Bandwidth	To be mentioned	
17.	Channel Spacing	To be mentioned	₩ DØDP €
18,	Number of Preset Memory Channel	Minimum 25. Specific memory channel is to be mentioned	*
19.	Number of Total Working Channel	To be mentioned	0 Sigs

D-1 RESTRICTED

Distiss-03 Coll 4012, Re-Extel Board Rusin Servició for Den Spor of Rusin Set on 27.02.744ms A. B. C. D & D.A. Anx D'-VHF fied Rug Veh Versian doca

Ser	Fact		Technical Specification			To be filled up by prishpall manufacturer
(a)	(b)			(c)	(d)	
20.	Communication Range (tactical				A155-7
,	Vehicle on Move	Plain		Urban Area	Hilly Area	
	Minimum Range	10	km	08 km	06 km	
	Vehicle on Static	Plain	Land	Urban Area	Hilly	
	Minimum Range	15	km	12 km	08 km	
21,	Antenna Type		be me	of vehicle antenna entioned. Various a may be proposed	types of	
22.	Communication Secur	ity			•	
	a. Encryption			256 or higher tion must be a to be mentioned		
	b. Frequency Hopping		Details	im 100 hops per to be mentioned		
	c. Other Types of Securi	ty		her types of comm y (if available) ar ned		
23,	Dimension (W x D x H) (Without Antenna)		provid			
24.	Weight of the Radio s Functional Condition)	set (At		mentioned		
25.	Power Supply System		vehicle	o be operated from power source (pre		
			replace propose countre battery c. T chargi	sed. Detail of brancy y of manufactu y rating are to be me he battery shoul		
26.	Transceiver					
	a. RF Power Output		 Max The 	mum 5 Watt or belo imum 40 Watt or al set must qualify in parameters		
	b. Power Modes		to be mentic	***	s to be	
	c. Modulation Type			odulation types are ed with required	GENERAL DEFERENCE	
	d. RF Input Impedance			mentioned		₩ QGOP E
	e. Receiver Sensitivity		To be mentioned			(* <u>*</u>
	f. AF Output			to be mentioned		OF DETAIL
	g. Squelch Type			to be mentioned	· · · · · · · · · · · · · · · · · · ·	
L	h. Types of Waveforms	>	Details	to be mentioned	138.5	30 Sign

r**		•	
Ser	Fact	Technical Specification	To be filled up by principal/ manufacturer
(a)	(b)	(c)	(d)
27.	Programming Software (Tools kit,	Laptop etc)	
	Programing Kit along with Software (Perpetual License)	To be provided	
	b. Tool Kit/Fill Gun	To be provided (if available)	
Ì	c. Requirement of Laptop, PDA		
<u></u>	Android Devices etc (Optional)	item	
28,	Mandatory Features		
	a. Auto Re-broadcast/data	To be possible. Details to be	
	relaying/ retransmission facility	mentioned	
	b. Data Communication	Minimum 100 kbps. Details to be mentioned	
	c. Built in Test (BITE)	To be available	
	d. Instant messaging Facility	To be mentioned	<u> </u>
	e. GPS Facility	To be available	
	f. CNR Facility	To be available	-, -, -, -, -, -, -, -, -, -, -, -, -, -
29.	Optional Features	1000444114000	
	a. Remote control facility (Optional)	Minimum 10 meter (wired/ wireless)	
	b. Battle Management System	Support BMS (Battlefield	
	See Ballette Author Black and Anna Breeze	Management System or similar)	
	c. Mobile Adhoc Network (MANET) facility	To be available	
30.	Operating/ Storage Condition		
	a. Operating Temperature	-10 ⁰ C to +55 ⁰ C	
	b. Storage Temperature	-20° C to +60° C	
1 1	c. Humidity Permissible	Maximum 95%	
	Condition for Operation	, , ,	
	d. Operation during Fog, Rain and	To be possible	
31.	Snow Environmental Standards		
}	a. Shock/Drop Proof		
	b. Splash Proof	{	
	c. Dust Proof	·	
	d. Vibration Proof	 	
l f	e. Earthling for Communication	Military Standard 810 F or higher	
	Vehicle/ Tank/APC/ Armored Vehicle		
	etc (whenever applicable)		İ
	(and the second		
	f. Temperature Proof	As per operating and storage temperature	
32.	List of Standard Accessories (Price		
	to be quoted separately item wise)	to be offered as standard:	}
	Bill of Quantity/	laterial (BOQ /BOM) of Standard	Items
	Ser Eqpt Name/ Nomenclatu	e Part No Qty Country	of Prince
	a. Transceiver (Including BITE,	Instant Manufac	IUI E
	Messaging facilities etc) b. Handset		DODDE
]		ith oll	*
	c. One Antenna complete was accessories (To be offer	ith all	OF DETRIES
]	Standard item)		500
		73 3 197 31	80 - 10

RESTRICTED

DISIGS-03 COM-0312. Ro-Exval Board Radio SellBolO for Gen Spot of Radio Set on 27.0224Anx A, B, C, D & E4. Anx D - Vif Med Rng Veh Version.docz

Ser	Fact		Tec	Technical Specification				To be filled up≛y principal/ manufacturer		
(a)	(b)			(c)			Pru	(d)		
(9)	d.	Power Supply System		(.0)				lwi)		
	α,	(1) DC Power Supply com	lete with							
		cables	SICIÓ ARTEIT							
		045100					i			
		(2) Sealed Rechargeable Ma	ntenance							
		Free Battery (Minimum 120					l			
		Nos) with charging facility. A								
		from local source								
	e.	Programming Kit along with								
		(Perpetual License and to b	e offered							
	<u> </u>	in 10:1 ratio)								
	f.	GPS Facility with Accessorie		 						
	g,	Auto Re-broadcasting/ Data Retransmission facility	relaying/ with	1						
	.	accessories (To be offered in					1			
		for without wave form)	e de l'éditio					·		
	ĥ.	Data Communication fac	lity with							
		Accessories (Data Transfer								
		similar, To be offered in 10:1						. <u> </u>		
	j.	Tool Kit/Fill Gun (if availat								
		accessories (To be offered	l in 10:1							
	1-	ratio)								
t	k.	Required cables, connect associated accessories	ors and							
	1.	Installation of radio in Military	Vahide	<u> </u>						
	m.	Carrying Case/Transportation		ļ						
	1	Transit Case/Storage Case					ļ			
33.		of Optional Accessories (Pric						ils given below the		
	to be	quoted separately item wise)		ffered as o				nical specification		
	D:	Bill of Quantit		1						
	Ser	Egpt Name/ Nomenci	ature	Part No	Qty	Country Manufac		Rmks		
·	a.	Handset		INO	 	iviajiuja	stui je			
	b.	Programme Software								
	c.		acility Wi	th		-				
		Accessories (Data Transfer		,						
		item)			<u> </u>					
	d.	Laptop (To be offered in 10:1								
	e.	BMS (Battlefield Manageme	nt System	or	1					
	f.	similar)	ion Cas	<u></u>						
	"	Carrying Case/Transporta Transit Case/Storage Case	uon Cas	o.er						
	g.	Any others to be mentioned								
34.	Warr		 	- 1						
35.		Sales Service 5 (Five) Years						GENERAL DEFENS		
36.		el Validity Minimum 8 (Ei		om signing	of con	tract		DGDE		
37.	Any o	other If any item no	ot specifica	illy mentio	ned al	oove but	-	DGDP		
	' ' ' '	required techn						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
		bidder should	specify ar	nd quote s	such it	em(s) in		THY OF DETERMENT		
		their offer. In	case of fail	lure to spe	cify an	d quote,				
		the bidder mu	st provide s	such items	free o	f cost	1.5	AND SID		

Ser			
Ser	Fact	Technical Specification	To be filled up by
20.5			principal/ manufacturer
(a)	(b)	(c)	(d)
PAF	RT-3: TRAINING REQUIREMENT		
38.	User Training	To be provided (As per	
		requirement of Signals & EME	
		Directorate)	
39.	Operations, Repair and Maintenance		
00.	Training	, , , , , , , , , , , , , , , , , , ,	
	Training	requirement of Signals & EME	
40	Inventory Managara and Turining	Directorate)	
40.	Inventory Management Training	To be provided (As per	
		requirement of Ordnance	
		Directorate)	
41,		To be provided	-
PAR	T-4: REPAIR AND MAINTENANCE R	EQUIREMENT LESS LIST OF SP.	ARES
42.	Books & Publication		
	a. Owners / Operations manual in	To be provided (As per	
	English (Book Type) including		
	CD/DVD)	Directorate)	
	b. Workshop/Repair manual incl detail		
	schematic and circuit diagram in		
	English (Book Type) including CD/DVD	Directorate)	
	c. 100% Updated master spare parts	To be provided (As per	
	catalogue in English (Book Type)	requirement of Signals & EME	
	including CD/DVD)	Directorate)	
	morading ODID VD)	Directorate)	
	d. Complete and updated master	To be provided (As per	
	spare parts price catalogue / list in		
	English (Book Type) including	Directorate)	
	CD/DVD)		
	T-5 : LIST OF SPARES		
43.	List of standard spare parts, tools	To be provided (As per	
	and accessories	requirement of Signals & EME	
		Directorate)	
	T-6 TOOL LIST FOR DIFFERENT LEV	EL OF MAINTENANCE	
44.	a. Analyzer, Measuring Testing/Fault	To be provided (As per	
	finding and Diagnostic set	requirement of Signals & EME	
,		Directorate)	:
Í	b. Special Service Tools (SST)	To be provided (As per	
		requirement of Signals & EME	
		Directorate)	
ļ	c. Special Service Materials (SSM)	To be provided (As per	<u> </u>
Ī	(Color of the color (Color)	requirement of Signals & EME	
		Directorate)	
PAR'	I-7: FINANCIAL SPECIFICATION	Disolorator	
45.	Financial Implication/ Specifications	To be mentioned	30, Stos
		10 DO INCLINITED	

D-5 RESTRICTED

DASIGS-03 COM-0312. Re-Eaval Board Radio SetBolO for Gen Spec of Radio Set on 27.02.24Anx A. B., C. D & E.4. Anx D - VHF Med Rng Veh Version.docz

ANNEX E TO DGDP LETTER NO 06.06.0000.215.49.24/Std **DATED: 09 JUNE 2024**

GENERAL SPECIFICATION OF RADIO SET VHF MANPACK (MILITARY VERSION)

	02	THEN OF ITABLE SET AT MAIN WAIN ACT	
Ser	Fact/Description	Tech Spec	To be filled up by Principall Manufacturer
(a)	(b)	(6)	(d)
PAR	T-1: GENERAL SPECIFICAT		
1.	Nomenciature	Radio Set VHF (Manpack) (Military Version):	
	Type of Radio	Military Version Software Defined Radio	
3.	Brand Name/Make	To be mentioned	
4,	Model	To be mentioned	
5.	Country of Origin	Group A and B countries	
6.	Country of Manufacture	Group A and B countries	
7.	Country of Assembly	Group A and B countries	
ö.	Year of Manufacture	Not before the calendar year of the contract	
9.	Name of Manufacture with complete address (Addresses, Telephone, Fax, Emaîl & Website)		
	Name of Principal with complete address (Addresses, Telephone, Fax, Email & Website)		
	Name of Local Agent with complete address (Addresses, Telephone, Fax, Email & Website)		
12.	Port of Shipment	Must be from the country of Manufacturing/ Assembly. Trans-shipment not allowed	
13.	Colour	Metallic Bronze (MB) Green	
	T-2: TECH SPEC	Total and Digotize (MD) Creen	
_	Frequency Range	30 MHz - 88 MHz. Above 88 MHz is	
1	1 requestes range	also allowed	
15.	Frequency Band	VHF .	
16.	Channel Bandwidth	To be mentioned:	
17,	Channel Spacing	To be mentioned	
		Minimum 25. Specific memory channel	
	Channel	is to be mentioned	
19.	Number of Total Working Channel	To be mentioned	
		pack Tactical (Communication):	
20.	Plain	Urban Hilly Area	
;	Land	Area	
	Minimum Range 08 km	06 km 05 km	
21.	Antenna Type	Details to be mentioned with various types of antenna	
22.	Communication Security		REHERAL DERE
	a. Encryption	AES 256 or higher mode encryption must be available. Details to be mentioned	D&DP E
	b. Frequency Hopping	Minimum 100 hops per minute. Details to be mentioned	**********
	c. Other Types of Security	Any other types of communication security (if available) are to be mentioned	20 Sins
		EI (E)	2000

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Ser	Fact/Description	Tech Spec	To be filled up by Principal/ Manufacturer
(a)	(b)	(c)	(d)
23.	Dimension (W x D x H) a. Without antenna b. With antenna	To be mentioned. Picture is to be provided	•
24.	Weight of the Radio set (At Functional Condition)	Maximum 8 kg with all accessories in operational condition. Details to be mentioned	
25.	Power Supply System	a. Must be operated from DC rechargeable and replaceable battery. Detail of brand, model, country of manufacture and battery rating are to be mentioned b. The battery charger should have charging facility from AC power 220 VAC ± 20% at 50 Hz. Charging from solar charger at ambient light (optional) c. 01 Set additional rechargeable battery to be provided	
26.	Battery-life/Operating Hours	≥ 8 hours of continuous operation (at high power and full duplex voice, RX: TX 9:1)	
27.	Transceiver		
	a. RF Power Output	Minimum 10 watt	
	b. Power Modes	Scalable Power Output modes are to be available. Details to be mentioned	
	c. Modulation Type	All modulation types are to be specified with required technical data	
	d. RF Input Impedance	To be mentioned	
	e. Receiver Sensitivity	To be mentioned	
	f. AF Output	Details to be mentioned	
	g. Squelch Type	Details to be mentioned	
	h. Types of Waveforms Programming Software (Too	Details to be mentioned	
28.	a. Programing Kit along with	To be provided	
1	Software (Perpetual License)	To be provided	
		To be provided (if available)	
1	b. Tool Kit/Fill Gun c. Requirement of Laptop,	To be mentioned	W
	PDA, Android Devices etc. (Optional)	(if required)	
29.			
	a. Auto Re-broadcasting/ data relaying / retransmission facility	To be possible. Details to be mentioned. Each set in a radio network must be capable of providing auto rebroadcasting/ retransmission and data relaying facility independently	
	b. Data Communication	Minimum 100 kbps. Details to be mentioned	
	c. Built in Test (BITE)	To be available	
	d. Instant Messaging Facility	To be mentioned	Table 1
	e. GPS Facility	To be available	SENERW DES
	f. CNR Facility	To be available	
30.	Battle Management System	Support BMS (Battlefield Management System or similar)	DOOP
24	Operating/Storage Condition		
3.1.	a. Operating Temperature	-10° C to +55° C	STRY OF DEFE
	b. Storage Temperature	-20° C to ±60° C	10 Si
	c. Humidity Permissible	Maximum 95%	
	1 or section of the s	E-2	A STATE OF THE PARTY OF THE PAR

E-2
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D::ISIGS:03 COM-0312, Re-Eaval Board Radio SullbofO for Gen Speci of Radio Set on 27.02.241Anx A: B, C, D & E15, Anx E - VHF Manipack.do

Ser	Fact/Description		Tech Spe	C		Te	o be filled up by Principal/ Manufacturer
(a)			(c)				(d)
	Condition for Operation						
	d. Operation during Fog, Rain and Snow	To be	possible	_			
32.	Environmental Standards						
	a. Shock/Drop Proof		Military Standard 8	310 F c	r higher		
	b. Water/Immersion Proof						
	c. Dust Proof]				
	d. Vibration Proof						
	e. Temperature Proof		As per operating temperature	and	storage		
33.	List of Standard Accessories (Price to be quoted separately I		Following Item/ A to be offered as st				
	<u>wise)</u>						
ļ			ntity/Material (BO				
	Ser Eqpt Name/ Nomenclat	ure	Part No	Qty	Countr Manufa		Rmks
	a. Transceiver (including Instant Messaging Facility					-	
[b. Handsét						
	c. Two Antennas complete all accessories (To be o as Statndard Item)					-	
	d. Rechargeable/ Recharge Battery 02 Sets x B offered as Standard Item	attery (01x					
ļ	Fitted with Radio & 01x Ex		·. — -—-				· · · · · · · · · · · · · · · · · · ·
	including Accessories)	arger					
	Bag/Harness	rrying	·				
	g. Programming Kit along Software (Perpetual Lid and to be offered in 10:1 r	cense					
	h. GPS facility with Accessor						
	j. Auto Re- broadcasting/ relaying/ Retransmission each Radio Set						
	Data Communication f with Accessories Transfer Cable or simila be offered in 10:1 ratio)	(Data					
	i. Tool Kit/Fill Gun (if available) with access (To be offered in 10:1 ratio)					
	m. Carrying Case/ Transpor Case/ Transit Case/St Case						Sign A



	-	?	<u> </u>				 _
Ser		Fact/Description		Tech Spec	To be	filled up by F	Principal/ Manufacturer
(a)	<u> </u>	(b)		(c)			(d):
34.	List	of Optional Accessories		Following Item/ Acc	cessories ar	e to be offered	as standard
		e to be quoted separately	<u>ltem</u>				
	wise)		-£ O	250 MH 4 - V 1 0-1-	\ID'O'''''\ = =		
	Car	Fort Name / Name and	or Qua	ntity/Waterial (BOC			
	Ser	Eqpt Name/ Nomencla	ture	Part No	Qty	Country of	Rmks
	a.	Handset				Manufacture	
		Manpack Carrying					
	ν,	Bag/Harness					
	C.	Programme Software					
	d.	Data Communication	facility				
		with Accessories				•	
	e.	Rechargeable Battery					
	f.	Laptop (To be offered in	10:1				
		ratio)					
	g.	BMS (Battlefield Manage	ment				·
	Ľ.	System or similar)	4-0				
	h.	Carrying Case/ Transpo Case/ Transit Case/S				 	
}	i	Case Hallsit Case/S	wage				
<u> </u>	<u> </u>	Any others to be mantion	ed				
35.	Warr			o) Years			
		Sales Service		e) Years			
37.	Mode	el Validity		ium 8 (Eight) y	ears from	, <u>, , , , , , , , , , , , , , , , , , </u>	
				g of contract			
38.	Any o	other			specifically		
				oned above but			
					range of		
				tion, the bidder sho			
			la ca	uote such item(s) in se of failure to s	their offer.		
				, the bidder must pr			
				free of cost	Okide Saoit		
PAR	T-3:	TRAINING REQUIREME					
39.	[]ser	Training	To be	provided (As per r	adliromont.		
55,	COEI	rianimiā		r provided (As per r nals & EME Directo			
40.	Oper	ations, Repair and		provided (As per r			
		enance Training	of Sia	nals & EME Director	ate)		
	Inven	fory Management		provided (As per r			
	Train	ing	of Orc	inance Directorate)			
42.	Publi	cation on Training	To be	provided			
PAR	1-4:	REPAIR AND MAINTEN	ANCE	REQUIREMENT LE	SS LIST OF	SPARES	
4 ජ.		s & Publication	T- 1	manufal AS			
		vners/Operations manual English (Book Type)	10 be	provided (As per renals & EME Director	equirement		
		ing CD/DVD)	oi oig	iliais & CiviC Ditectol	ate)		
	b. We	orkshop/Repair manual incl	To be	provided (As ner r	equirement		
	detail	schematic and circuit	of Sia	nals & EME Director	ate)		
	diagra	am in English (Book Type)			/		
		ing CD/DVD					SENERAL DECE
	c. 1	00% Updated master	To be	provided (As per re	equirement		The state of the s
	spare	parts catalogue in	of Sig	nals & EME Director	ate)	1	DGDP
	Englis CD/D	sh (Book Type) including					DGDP
		complete and updated	To be	provided the ser -	aduiromant		*
	masie	er spare parts price	of Sim	provided (AS per R	ste)		The state of the s
		gue / list in English	o. oigi	nan aminim mi écioi	cric)		THE STATE OF THE S
	(Book	Type) including			}		AHO Sign
	CD/D	VD)				23050	
				E-4	11	3/2	131

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DISSIGN:03 COM-0312, Re/Eaval Board Radio, Settle for Gen Spec of Radio, Set on 27:02.24/Añx/A, BVC, D.&El5./Añx/E - VHF Manpack.do

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3er	F. Description	Tech Spec	To be filled up by Principal/ Manufacturer
(a)	(b)	(c)	(d)
PAR	T-5: LIST OF SPARES		
44.	List of standard spare parts tools and accessories	of Signals & EME Directorate	e)
PAR	T - 6: TOOL LIST FOR DIFFE	RENT LEVEL OF MAINTENA	NGE
45.		To be provided (As per required of Signals & EME Directorate	
	b. Special Service Tools (SST)	To be provided (As per request of Signals & EME Directorate	uirement e)
	c. Special Service Materials (SSM)	of Signals & EME Directorate	uirement 3)
PAR	T-7: FINANCIAL SPECIFICA	TION	
46.	Financial implication Specification	To be mentioned	O Sigs X



