GOVERNMENT OF INDIA (Ministry of Home Affairs) DIRECTORATE GENERAL

CENTRAL RESERVE POLICE FORCE

EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066

Email: comncell@crpf.gov.in No. B.V-7/2018-19-C (APCO)

To

Tele Fax: 011-26107493

Dated, the Nov'2018

1. DIG (Comn), ITBP

Block No. 2, CGO Complex Lodhi Road, New Delhi-03

3. DIG (Comn), SSB East Block-V, R.K Puram New- Delhi-66

5. DIG (Prov), BSF Block No. 10, CGO Complex Lodhi Road, New Delhi-03

2. DIG (Comn), NSG Meharam Nagar Palam, New Delhi-37

4. AIG (Comn), CISF Block No. 13, CGO, Complex Lodhi Road, New Delhi-03

6. Liaison Office, Assam Rifle Room No-171, North Block, MHA New Delhi -01

QRs/TDs of APCO-25 Radio Phase-I (FDMA). Subject:

Please find enclosed here with QRs and TDs in respect of APCO-25 Radio Phase-I (FDMA) as per Annexure-A & Annexure-B respectively duly approved by the competent authority for further necessary action.

Encl: (QRs & TDs of APCO-25 Radio Phase-I (FDMA))

{P.R.Jha, DC (Comn)} For DIGP (Equipment) Directorate General, CRPF

No. B.V-7/2018-19-C (APCO)

Dated, the Nov'2018

Copy to:-

SO (IT), MHA, North Block with request to host the QRs and TDs of APCO-25 Radio Phase-I (FDMA) on MHA website. Soft copy is being sent through email also.

> {P.R.Jha, DC (Comn)} For DIGP (Equipment) Directorate General, CRPF

1.1 General Specification (PORTABLE RADIO 5W) Adjustable 1,2,3 And 5Watt:

S.No.	Parameter	Specifications	
1.	Frequency range		
1.	Tx Frequency Range:	For VHF:-(136-174 MHz),	
		For UHF:-(400-470 MHz; 450-520 MHz)	
		700/800 MHz:-(763-870 MHz)	
·	Rx Frequency Range:	For VHF:-(136-174 MHz),	
		For UHF:-(400-470 MHz; 450-520 MHz)	
		700/800 MHz:-(763-776 MHz; 851-871 MHz)	
		(Frequency as per user requirement in the	
		VHF and UHF bands)	
2.	Channels/Zones	Minimum 100 channels for 10 zones	
3.	Channel spacing	12.5 & 25 kHz	
4.	Frequency stability	±2ppm (-30°C to +60°C)	
5.	Protocol	12.5 KHz P25 Phase 1 FDMA	
6.	Type of Emission	FCC and IC compliances	
7.	Type of Operation	Simplex/Press-to-Talk (Phase-1)	
8.	Maximum weight with	450 Grams	
	standard Battery &		
	Antenna		
9.	Power source	Standard Battery pack of 2400 mAh or more.	
Envir	onmental Specifications		
10.	Operating Temp.	-30°C to +60°C	
11.	Environmental Standard	MIL 810 G or better	
	(Low Pressure, High		
	Temp., Low Temp., Temp.	•	
	shock, Solar Radiation,		
	Rain, Humidity, Salt fog,		
	Dust, Immersion,		
	Vibration, Shock)		
12.	IP standards	IP-67 or better	
	mitter:-	Trans Cur	
13.	RF power output	VHF-5W	
		UHF:	
		400MHz-4W	
		800MHz-3W	
14.	Audio Distortion	Less than 3% at 1 KHz	
Recei			
15.	Analog sensitivity	0.3 μ v or Better at 12 dB SINAD	
16.	Digital sensitivity	0.3µV or Better at 5% BER	
17.	Audio O/P	>500 m W @ 5% Distortion.	
18.	Hum and Noise	-33db @ 12.5 KHz, -37db @ 25KHz	
19.	Adjacent Channel	-60 db @ 12.5 KHz, -70db @ 25 KHz	
	Selectivity		

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Featı	ıres			
20.	Support GPS	Radio should have inbuilt GPS receiver.		
21.	Front Panel LCD Display	Large four line LCD with icons to display key parameters. 4 and 16 keypad options. Four programmable function keys and three way selector.		
22.	Emergency key	Programmable emergency key should be easily accessible & highly visible on the radio		
23.	Scanning modes	Includes priority, dual priority, editable zone & background scan.		
24.	Radio Remote Kill	To allow management of misplaced or stolen radio.		
25.	Over-the-air-rekeying (OTAR)	Should be possible without trunking system.		
26.	Key field device (KFD)	For quick, reliable encryption key programming.		
27	Encryption	AES-256 or Better		
28	Vocoder	IMBE or better		
Acce	essories			
29.	Audio	Speaker-microphones, earpieces.		
30.	Chargers	In-vehicle, single fast and 6-way multi chargers. (As per user requirement)		
31.	Antenna	Flexible helical antenna		
32.	Literature	 User manual with each radio sets Technical repairing manual with complete block diagram, circuit layout etc at a scale of 10% of equipment being procured. Firm should train teams of four operator and mechanics in handling, operating and repairing of radio receiver free of cost after procurement. 		

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1.2 General Specification (MOBILE RADIO 25W) Adjustable 5,12 & 25W:-

S.No.	Parameter	Specifications
1.	Frequency range	
	Tx Frequency Range:	For VHF:-(136-174 MHz),
	-	For UHF:-(400-470 MHz; 450-520 MHz)
		700/800 MHz:-(763-870 MHz)
	Rx Frequency Range:	For VHF:-(136-174 MHz),
		For UHF:-(400-470 MHz; 450-520 MHz)
		700/800 MHz:-(763-776 MHz; 850-870 MHz)
		(Frequency as per user requirement in the VHF
		and UHF bands)
2.	Channels/Zones	Minimum 100 channels for 10 zones
3	Channel spacing	12.5 & 25 kHz
4.	Frequency stability	±2ppm (-30°C to +60°C)
5.	Protocol	12.5 KHz P25 Phase 1 FDMA
6.	Type of Emission	FCC and IC compliances
7.	Type of Operation	Simplex press to talk (Phase-1)
8.	Total weight	≤2.5Kg
Envir	onmental Specifications	
9.	Operating Temp.	-30°C to +60°C
10.	Environmental	MIL 810 G or better
	Standard (Low Pressure,	
	High Temp., Low Temp.,	
	Temp. shock, Solar	
	Radiation, Rain,	
	Humidity, Salt fog,	
	Dust, Vibration, Shock)	
11.	IP standards	IP-54 or better
	smitter	T-112005
12.	RF power out put	VHF@25w
		UHF (400 MHz)@ 25W
		UHF (800Mhz)@15W
13.	Frequency Deviation:	+/- 2.5 KHz @ 12.5 KHz
		+/- 5 KHz @ 25 KHz
14.	FM Hum Noise	-33 dB @ 12.5 KHz
		-37 dB @ 25 KHz
15.	Audio Distortion	Less than 3% at 1 KHz
Rece		10 ID CINAD
16.	Analog Sensitivity	0.3 μV or Better at 12 dB SINAD
17.	Digital sensitivity	0.35μV or Better at 5% BER
18.	Audio O/P	> 3 W @ 5% Distortion in Internal Speaker
19.	Hum and Noise	-40db @ 12.5 KHz, -43db @ 25KHz
20.	Adjacent Channel	-60 do @ 12.5 KHz, -75 db @ 25 KHz
	Selectivity	
Feat		Large four line LCD with icons to display key
21.	Front Panel LCD	parameters. Four programmable function keys
	Display	on the standard mobile head.
-	E	Programmable emergency key should be easily
22.	Emergency key	accessible & highly visible on the radio
102	Sconning modes	Includes priority, dual priority, editable zone &
23.	Scanning modes	background scan.
		buong curia bound

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S.No.	Parameter	Specifications	
24.	Radio Remote Kill	To allow management of Radios during vehicle servicing.	
25.	Key field device (KFD)	For quick, reliable encryption key programming.	
26	Encryption	AES-256 or Better	
27	Vocoder	IMBE or better	
Acces	sories		
28.	Literature	 User manual with each radio sets Technical repairing manual with complete block diagram, circuit layout etc at a scale of 10% of equipment being procured. Firm should train teams of four operator and mechanics in handling, operating and repairing of radio receiver free of cost after procurement. 	

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1.3 General Specification (REPEATER):-

S.No.	Parameter	Specifications	
1.	Frequency range		
	VHF	136-174 MHz	
	UHF	380-520 MHz	
		700/800 MHz :(763-870MHz)	
	·	(Frequency as per user requirement in the VHF and	
		UHF bands)	
2.	Channel spacing	12.5/25 KHz	
3.	Channel increment	0.125 KHz	
4.	Frequency stability	±2ppm	
5.	Weight(With AC &		
0.	DC PMU)100W base	Not more than 22 kg	
	station system		
6.	Power supply	90 to 260 V AC	
0.		12/24 V DC	
7.	Frequency response	+0.5/-2.0 dB	
8.	Audio distortion	Less than 3%	
9	Vocoder	IMBE or better	
1			
Envir	onmental Specification	IS	
10.	Operating Temp.	-30°C to +60°C	
Trans	smitter	10 5 1D for full hand programmable	
11.	RF power output	10-100Watt +/-0.5 dB for full band, programmable	
		in steps.	
12.	Frequency Deviation	+/- 2.5 KHz @ 12.5 KHz.	
		+/- 5 KHz @ 25 KHz.	
13.	Spurious &	Better than 60 dB.	
10.	Harmonics		
14.	FM Hum Noise	-45 dB @ 12.5 KHz	
1		-50 dB @ 25 KHz	
15.	Transmit rise time	≤2.5 ms	
Rece	iver		
16.	Analog sensitivity	Sensitivity 0.25 μ v or Better at 12 dB SINAD	
17.	Digital sensitivity	0.25μV or Better at 5% BER	
18.	Adjacent Channel	1 -60 db @ 12.5 KHz	
	Rejection	-75 db @ 25 KHz	
19.	Selectivity	79 dB @12.5 KHz, 84 dB @ 25 KHz	

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Acce	ssories	
20.	Literature	 User manual with each radio sets Technical repairing manual with complete block diagram, circuit layout etc at a scale of 10% of equipment being procured. Firm should train teams of four operator and mechanics in handling, operating and repairing of radio receiver free of cost after procurement.
21.	Antenna	6 dB Omni-Directional Antenna- Qty Two shall be provided for each repeater with necessary connectors, installation kit and low loss RF cable (RG217) suitable to install the antennas on vehicle. (Cable length as per user requirement)
22.	Power Cables	Mains Power cable and Battery cable with fuse.

N.K.Marg, SI/Exe CISF INSP: Subhash Chand BSF Jeet Singh, NB/SUB Assam Rifles AC-I Surendra Singh NSG

Karan Singh, AC/Tele ITBP

Pramod Kumar, DC SSB P.R. Jha, DC(Comn) CRPF

Harjinder Singh, DIG(Eqpt) CRPF

D.S.Rawat,DIG (Comn) CRPF

Raju Bhargaya. IPS, IGP(Comn & T), CRPF

Md. Jaw d Akmar IPS, ADG (Work & Comn), CRPF

Approved/Not Approved

Rajeev Rai Bhatnagar, IPS DG, CRPF

TDs OF APCO -25 RADIO PHASE-I (FDMA)

1.1 General Specification (PORTABLE RADIO 5W) Adjustable 1,2,3 And 5Watt:

~ 37	Demogration	Specifications	Trial Directives
S.No.	Parameter	Opour de la company de la comp	Functional check: BOO will
1.	Frequency range	For VHF:-(136-174 MHz),	check operation of radio set
		For UHF:-(400-470 MHz; 450-520	by programming the lowest
	Range:		highest and any random
		MHz) 700/800 MHz:-(763-870 MHz)	frequency with help of
		For VHF:-(136-174 MHz),	measuring instrument.
	Rx Frequency	For UHF:-(400-470 MHz; 450-520	
	Range:	MHz)	
		700/800 MHz:-(763-776 MHz; 851-	
		871 MHz)	
		(Frequency as per user requirement in	
		the VHF and UHF bands)	
	1 /7	Minimum 100 channels for 10 zones	BOO will check all the
2	Channels/Zones	12.5 & 25 kHz	parameters one by one with
3	Channel spacing	±2ppm (-30°C to +60°C)	the help of standard testing
4.	Frequency stability	12.5 KHz P25 Phase 1 FDMA	instrument. If the standard
5.	Protocol		test instruments are not
6.	Type of Emission	FCC and IC compliances	available than firm must
			produce certificate of any
			Govt. Lab. or NABL or ILAC
		\$	accredited laboratory.
	To Company tion	Simplex/Press-to-Talk (Phase-1)	BOO will check practically
7.	Type of Operation	Simplex/Tress to reast (* 555)	and will ensure that, at a
			given point of time, set
	-		either works and receive
			mode or in transmit mode.
	Maximum weight	450 Grams	BOO will check practically.
8.		1	

	Battery & Antenna	Standard Battery pack of 2400 mAh	BOO will check physically,
9.	Power source	or more.	practically the batteries
,		or more.	there should not be an
			damage, terminals should
			be fresh and separatel
			marked as positive an
			negative and providing th
			charge properly to the radi
	· ·		set.

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		-2-	Trial Directives
S.No.	Parameter	Specifications	1 Hat Directives
	onmental Specifications		Ti produce certificate
10.	Operating Temp.	1 20°C to ±60°C	Firm must produce certificate
$\frac{1}{11}$.	Environmental	MIL 810 G or better	of any Govt. Lab. or NABL or
11.	Standard (Low		ILAC accredited laboratory or
	Pressure, High Temp.,		OEM Certificate.
	Low Temp., Temp.		.
	shock, Solar Radiation,		
	Rain, Humidity, Salt		
	fog, Dust, Immersion,		
	Vibration, Shock)		
10	IP standards	IP-67 or better	BOO will practically check the
12.	ir standards	· .	equipment as per IP standard.
T	smitter:-		
		VHF-5w	BOO will check one by one with
13.	RF power output	UHF-	the help of standard testing
		400MHz-4W	instrument.
		800MHz-3W	Output power:-
		SOOWITIZ-5W	Selectable/programmable from
	Andia Distantian	Less than 3% at 1 KHz	1 to maximum value.
14.	Audio Distortion	Los than 070 at 1 11111	
	eiver:-	0.3 μ v or Better at 12 dB SINAD	BOO will check one by one with
15.	Analog sensitivity	0.3 μV or Better at 12 dB Shittle 0.3 μV or Better at 5% BER	the help of standard testing
16.	Digital sensitivity	U.3µV of Better at 576 BER	instrument.
<u> 17.</u>	Audio O/P	>500 m W @ 5% Distortion.	
18.	Hum and Noise	-33db @ 12.5 KHz, -37db @	
		25KHz	
19.	Adjacent Channel	-60 db @ 12.5 KHz, -70db @ 25	
	Selectivity	KHz	
Feat	ures	The state of the s	Firm will demonstrate feature
20.	Support GPS	Radio should have inbuilt GPS	related with GPS to BOO
		receiver.	during trial.
21.	Front Panel LCD	Large four line LCD with icons to	Tractical/physical
	Display	display key parameters. 4 and 16	
		keypad options. Four	
	·	programmable function keys and	front panel LCD screen.
		three way selector.	DOG: 11 about it practically by
22.	Emergency key	Programmable emergency key	
		should be easily accessible &	pressing button.
		highly visible on the radio	D 1'
23.	Scanning modes	Includes priority, dual priority,	Radio sets programmed with
20.		editable zone & background scan.	priority scanning on pressing
			tile beatt
			scanning channels with the
	•		priority.
24.	Radio Remote Kill	To allow management o	
24.	Radio Remote IIII	misplaced or stolen radio.	physically on ground.
OF.	Over-the-air-rekeying	Should be possible withou	t Firm will demonstrate abou
25.	i i	trunking system.	OTAR in brief and provide the
	(OTAR)		key management facility fo
			more information.
	V Cold davice (VED)	For quick, reliable encryption ke	BOO will check it practically.
26.	Key field device (KFD)	programming.	
		AES-256 or Better	Firm will submit OEM
27	Encryption		Certificate
28	Vocoder	IMBE or better	
20	1000401		

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		Specifications	Trial Directives
S.No.		Specifications	
Acces 29.	sories Audio	Speaker-microphones, earpieces.	BOO will check physically & practically that speaker-microphones, earpieces is supplied with radio and is
30.	Chargers	In-vehicle, single fast and 6-way multi chargers. (As per user requirement)	working properly. BOO will check physically and practically In-vehicle, single fast and 6-way multi chargers is supplied with radio and is working properly.
31.	Antenna	Flexible helical antenna	BOO will check that antenna should fit in the given slot with ease and should be found firm stable. Physically check to confirm that
32.	Literature	1. User manual with each radio sets 2. Technical repairing manual with complete block diagram, circuit layout etc at a scale of 10% of equipment being procured. 3. Firm should train teams of four operator and mechanics in handling operating and repairing or radio receiver free of cost after procurement.	User and Technical manual are available in Hard as well as in Soft Copy and also and also provide training for a team comprising of four operators for handling of sets. The same to be mentioned in the contract documents.

1.2 General Specification (MOBILE RADIO 25W) Adjustable 5,12 & 25W:-

S.No.	Parameter	Specifications	Trial Directives
1.	Frequency range Tx Frequency Range: Rx Frequency Range:	For VHF:-(136-174 MHz), For UHF:-(400-470 MHz; 450-520 MHz) 700/800 MHz:-(763-870 MHz) For VHF:-(136-174 MHz), For UHF:-(400-470 MHz; 450-520 MHz) 700/800 MHz:-(763-776 MHz; 850-870 MHz) (Frequency as per user requirement in the VHF and UHF bands)	Functional check: BOO will check operation of radio set by programming the lowest highest and any random frequency with help of measuring instrument.
2. 3. 4.	Channels/Zones Channel spacing Frequency stability	Minimum 100 channels for 10 zones 12.5 & 25 kHz ±2ppm (-30°C to +60°C)	BOO will check all the parameters one by one with the help of standard testing instrument. If the standard
5. 6.	Protocol Type of Emission	12.5 KHz P25 Phase 1 FDMA FCC and IC compliances	test instruments are no available than Firm must produce certificate of an Govt. Lab. or NABL or ILAG accredited laboratory.

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	D	Specifications	Trial Directives
S.No.	Parameter	a: 1 to talk (Phase-1)	BOO will check practically
7.	Type of Operation	Simplex press to talk (2 22002)	and will ensure that, at a
ļ			given point of time, set
			either works and receive
			mode or in transmit mode.
	The state of the s	≤2.5Kg	BOO will check practically.
8.	Total weight	32.0119	
Envir	onmental Specificati	ons	Firm must produce
9	Operating Temp.	-30°C to +60°C MIL 810G or better	certificate of any Govt. Lab
10.	Environmental	MIL 810G of better	or NABL or ILAC accredited
	Standard (Low		laboratory or OEM
	Pressure, High	1	Certificate.
	Temp., Low Temp.,		
	Temp. shock, Solar		
	Radiation, Rain,		
	Humidity, Salt fog,		
	Dust, Vibration,		
	Shock)	ID 54 on botton	†
11.	IP standards	IP-54 or better	
Trans	smitter	THIDOOFW	BOO will check one by one
12.	RF power out put	VHF@25W	with the help of standard
	*	UHF:	testing instrument.
İ		(400 MHz)@ 25W	
		800Mhz@15W	1
13.	Frequency	+/- 2.5 KHz @ 12.5 KHz	
	Deviation :	+/- 5 KHz @ 25 KHz	
		22 4B @ 12 5 VHz	-
14.	FM Hum Noise	-33 dB @ 12.5 KHz	
		-37 dB @ 25 KHz	
15.	Audio Distortion	Less than 3% at 1 KHz	
Rece		0.3 μV or Better at 12 dB SINAD	BOO will check one by or
16.	Analog Sensitivity	0.35 µV or Better at 12 dB ShVID	with the help of standar
17.	Digital sensitivity	> 3 W @ 5% Distortion in Internal	testing instrument.
18.	Audio O/P		
	1,1	Speaker -40db @ 12.5 KHz, -43db @ 25KHz	
19.	Hum and Noise		
20.	Adjacent Channel	-ou ab @ 12.5 kHz, -75 db @ 25 kHz	
	Selectivity		
	tures	Large four line LCD with icons to	o Practical/physical check
21.	Front Panel LCD	dienlay key parameters. Fou	r switching on the Radio S
	Display	programmable function keys on th	e there should be display
		standard mobile head.	front panel LCD screen.
	D 1	Programmable emergency key should	d BOO will check it practica
22.	Emergency key	be easily accessible & highly visible or	n by pressing button.
		the radio	
	0	Includes priority, dual priority	y, Radio sets programmed w
23.	Scanning modes	editable zone & background scan.	priority scanning
		cuitable zone a sucresi o	pressing the scan but
			will start scanning chann
			with the priority.
	D 1' D 17:11	To allow management of Radio	os BOO will check practical
24.	Radio Remote Kill	during vehicle servicing.	physically on ground.
		For quick, reliable encryption ke	ey BOO will check
25.		programming.	practically.
	(KFD)	programming.	
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Firm will submit OEM
Certificate
Physically check to confirm that User and Technical manual are available in Hard as well as in Soft Copy and also and also provide training for a team comprising of four operators for handling of sets. The same to be mentioned in the contract documents.

1.3 General Specification (REPEATER):-

S.No.	Parameter	Specifications	Trial Directives
			Functional check: BOO will
1.	Frequency range	136-174 MHz	check operation of radio set by
	VHF	380-520 MHz	programming the lowest highest
	UHF	700/800 MHz :(763-870MHz)	and any random frequency with
			help of measuring instrument.
		(Frequency as per user requirement in the VHF and	neip of measuring
		UHF bands)	BOO will check all the
2.	Channel spacing	12.5/25 KHz	parameters one by one with the
3.	Channel increment	0.125 KHz	help of standard testing
4.	Frequency stability	±2ppm	instrument. If the standard test
			instruments are not available
			•
			certificate of any Govt. Lab. or NABL or ILAC accredited
			111.22
			laboratory.
5.	Weight		BOO will check practically
	(With AC & DC		
	PMU)	Not more than 22 kg	
	100W base		
	station		
	system		
6.	Power supply	90 to 260 V AC	BOO will check practically.
0.	Tower suppry	12/24 V DC	
7	Frequency response	+0.5/-2.0 dB	
	Audio distortion	Less than 3%	
8.	Vocoder	IMBE or better	Firm will submit OEM
9.	vocoder	INIDE OF BOCKET	Certificate
Envi	ronmental Specificati	ions	1
10.	Operating Temp.	-30°C to +60°C	Firm must produce certificate of
10.	0,000		any Govt. Lab. or NABL or ILA
•			accredited laboratory or OEM
	1		Certificate

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C No	Parameter	Specifications	Trial Directives
S.No.			
Transr	RF power output	10-100Watt +/-0.5 dB for full band, programmable in steps.	BOO will check one by one with the help of standard testing instrument.
12.	Frequency Deviation	+/- 2.5 KHz @ 12.5 KHz. +/- 5 KHz @ 25 KHz.	
13.	Spurious & Harmonics	Better than 60 dB.	
14.	FM Hum Noise	-45 dB @ 12.5 KHz -50 dB @ 25 KHz	
15.	Transmit rise time	≤2.5 ms	
Recei	ver		1 1 1
16.	Analog sensitivity	Sensitivity 0.25 μ v or Better at 12 dB SINAD	BOO will check one by one with the help of standard testing
17.	Digital sensitivity	0.25µV or Better at 5% BER	instrument.
18.	Adjacent Channel Rejection	-60 db @ 12.5 KHz -75 db @ 25 KHz	
19.	Selectivity	79 dB @12.5 KHz, 84 dB @ 25 KHz	
Acces	sories		I - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
20.	Literature	User manual with each radio sets Technical repairing manual with	User and Technical manual are available in Hard as well as in
		complete block diagram, circuit	provide training for a team comprising of four operators for
		layout etc at a scale of 10% of equipment being	mentioned in the contract
		procured. 3. Firm should train	
		teams of four operator and	
		mechanics in handling, operating and repairing or radio receiver free	
		of cost after procurement.	

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S.No.	Parameter		
21.	Antenna Power Cables	Specifications 6dB Omni-Directional Antenna- Qty Two shall be provided for each repeater with necessary connectors, installation kit and low loss RF cable (RG217) suitable to install the antennas on vehicle. (Cable length as per user requirement)	Trial Directives BOO will check that antenna should fit in the given slot with ease and should be found firm stable.
			BOO will check physically that cable should not be damaged and perfectly connected in this respected slot given in the radio.

N.K.Marg, SI/Exe CISF

HNSP. Subhash Chand BSF

Jeet Singh, NB/SUB Assam Rifles

AC-I Surendra Singh NSG

Karan Singh, AC/Tele ITBP

Pramod Rumar, DC SSB

P.R. Jha DC(Comn)

Harjinder Singh, DIG(Eqpt)

D.S.Rawat,DIG (Comn) CRPF

Raju Bharuwa. IPS, IGP(Comm MIT),CRPF

Md. Jawed HPS. ADG (Work & Comn), CRPF

Approved/Not Approved

Rajeev Rai/Bhatnagar, IPS