

NIT NO. 24 OF 2011

DATED: 07 - 07 -2011.

1. For and on behalf of the Governor J&K State, sealed tenders are invited from original manufacturers and approved authorized dealers affixing revenue stamp worth Rs 5/- duly sealed with sealing wax and stamp of the tenderer, for the supply of **Communication Equipments** as specified in Annexure 'A' of this NIT. Approved/authorized dealers will attach valid & authenticated copy of authorisation of original manufacturer, **without which tender shall be rejected.**
2. The tenders shall be properly sealed and addressed to **ADGP (Headquarters) C/O Director General of Police J&K Srinagar/Jammu.** The tender envelopes shall be superscribed "**TENDER FOR Communication Equipments FOR NIT NO. 24 of 2011 dated. 07 – 07 .2011.**"
3. The tender fee has been fixed at Rs 2000/- which shall accompany the tender offer only, in the shape of a **crossed demand draft** favouring Chief Accounts Officer PHQ, J&K payable at Srinagar/Jammu. The tender fee is not refundable and the same will be deposited into Govt. Treasury under Head 0055-Police for the year 2011-12.
The local SSI units are required to pay the tender fee prescribed as per J&K Govt rules. However, the Govt/Semi-Govt. concerns of the J&K State claiming exemption shall append authenticated orders, certificates etc. issued by competent authority in support of their claim.
Tenders without tender fee shall be rejected.
4. **Earnest Money Deposit (EMD)**
The intending tenderer/s will have to send the Earnest Money only in shape of CDR/FDR from any nationalized bank equivalent to 2% of the value of contract pledged to AIG (Prov/Tpt) PHQ J&K with the tender offer, which shall be valid for one year. The earnest money in the case of unsuccessful tenderer shall be released after finalization of Tender, where-as in the case of successful tenderers it will be adjusted towards the security money (required to be deposited) on application, for due performance of the agreed contract/performance during the warranty period; No interest shall be payable by purchaser on the EMD deposited by the tenderer).
J&K Govt. rules with regard to furnishing of **EMD** in respect of **local Registered SSI** units shall be applicable in letter and spirit. The local SSI units are required to pay the **EMD** prescribed as per J&K Govt rules which at present is 50% of the value of contract or Rs 5000/- whichever is less. For the purpose, SSI units shall have to furnish registration certificate and Functional Certificate of SSI Unit, issued by the competent authority with their tender offer failing which the benefits of SSI units will not be allowed.
The Government/ Semi Govt. or similar other concerns, claiming exemption from the payment of EMD shall have to append duly authenticated orders, certificate etc. from competent authority supporting their claims.
Tenders without EMD shall be rejected
5. **Security Deposit.** The approved tenderers will have to supply the articles at the approved rate and as per approved sample (if any) and specification till the date of validity of the approved list. They will have to furnish **security deposit @ 5%** of the total value of the items contracted for, in the shape of CDR/FDR from a nationalized Bank, at the time of signing of **Deed of**

Agreement to ensure satisfactory performance of the equipment supplied, for Warranty period from the date of acceptance of product. This security deposit will be released in due course after the expiry of specified warranty period/agreed contract. The charges on stamps etc. (cost of documents in totality) shall be borne by the supplier while executing the agreement. (No interest shall be paid by the purchaser on the Security deposit). J&K Govt Rules for EMD in respect of LOCAL SSI Units shall be applicable.

6. Despatch Instructions; Stores are required to be delivered at Consignee's location (Srinagar/Jammu), at freight, risk and cost of the supplier.
7. Store required at; Free delivery at Consignee location.
8. Delivery required; Within two months from the date of confirmed order or as mentioned in the supply order.
9. The successful tenderer will have to arrange onsite installation and training to end users free of cost as and when asked for.
10. **Comprehensive Guarantee/Onsite Warranty period;**
The tenderers shall provide warranty for a minimum period of 01 years covering all the systems, sub systems .The cost of warranty period will be included in the quoted price .If during the aforesaid period, the said stores be discovered not conforming to the description and quality or not giving satisfactory performance or have deteriorated, the decision of the purchaser in that behalf shall be final and binding on the contractor and purchaser shall be entitled to call upon the contractor to rectify the goods or such portion thereof as is found to be defective by the purchaser within a reasonable period or such specified period as may be allowed by the purchaser in his discretion on/an application made thereof by the contractor and in such an event, the above mentioned warranty period shall apply to the goods rectified from the date of rectification thereof. In case of failure of the contractor to rectify or replace the goods etc within specified time, the purchaser shall be entitled to recover the cost with all expenses from the contractor for such defective stores.

11. **TWO BID SYSTEM;**
All bidders are required to submit their offers in two covers as under;-
(A) **FIRST COVER** (Technical Bid) should contain the following;-

i.	Tender documents duly completed and signed BUT WITHOUT INDICATING THE RATES QUOTED.
ii.	Earnest money.
iii.	Tender Fee
iv.	Technical specifications of the item quoted alongwith original catalogues (Make & Model).
v.	Delivery terms, delivery period quoted.
vi.	List of the orders received and executed during last two years giving reference of the order, value of order, Name of the agency/department alongwith performance certificate.
vii.	Registration certificate/Industrial Licence of original manufacturer, for the material quoted.
viii.	Certificate of being authorized dealer having authorization of the original manufacturer to quote against the tender.
ix.	Authorised Dealer having authorisation to quote against this tender, shall furnish his Registration Certification with Central/State Sales Tax department.

x.	A copy of this NIT duly signed & stamped on every page by the tenderer, in token of having understood and accepted the specifications, terms & conditions of the NIT.
xi.	Any other relevant document which the firms wishes to submit.
A) SECOND COVER (Commercial/Price Bid) should contain the following:-	
i.	Details of rates, duties, taxes. These details should be submitted on their letter pad. (Note) J&K State entry tax rate currently is 13.5% extra. J&K Police does not issue Road Permits OR Concessional Forms, as such; Rate so quoted shall be F.O.R Consignee. State Entry Tax shall be reimbursable on production of original documents by the successful bidder and need not be quoted in the rate column. (Rates shall be filled as per the enclosed format, at Annexure "B" for kerosene and diesel heaters separately)
ii.	Rates must be clearly written in figures as well as in words, free from over writings, cuttings and alterations. Rates quoted should be on firm price basis.
iii.	Tenders shall be filled in clearly and with one ink. No cuttings/alterations/ over-writings shall be made in the tender. Correction, if any, be done clearly and properly initialed
iv.	Rates quoted shall be final till the validity of the contract i.e. upto 31:03.2012 with a provision of further extension if finally approved by State Level Purchase Committee for J&K Police Department.
Both the above mentioned covers should be sealed separately, and superscribed with the Tender No., Stores and date of tender opening. This cover should thereafter, be kept in a third cover and again sealed. This cover should also be super scribed with the Tender No, Stores and date of opening.	
12.	The tenders may be sent by post well in time or delivered personally, at J&K Police Headquarters Pirbagh, near ITI Airport Road Srinagar-190021 (Tel; 0194-2443031) or in Police Central Store Gulshan Ground Gandhi Nagar Jammu (Tel; 0191-2433571) or J&K CID Cell Harish Chander Mathur Lane Kasturba Gandhi Marg New Delhi. Tender offers alongwith specifications duly accepted by tenderer and samples shall be received by Police Headquarters J&K at Pirbagh Srinagar or PHQ Gulshan Ground Jammu or J&K CID Cell Harish Chander Mathur Lane Kasturba Ghandhi Marg New Delhi upto 05.08.2011 (1600 hours) . The deptt. Shall not be liable for any postal delays. No Tender will be accepted after the due date and time..
13.	No conditional tender will be accepted/ entertained. It will be summarily rejected. No other condition than those mentioned (in the terms set-forth) will be entertained;
14.	On due date of opening of tenders' i.e. 09. 08.2011 (at 1100 hours) at Police Hqrs J&K Peerbagh Srinagar , only technical bid of the tender shall be opened. Only authorized representative will be allowed to attend the meeting for opening tenderers. He/She should also bring authority letter on company/firms letter head that any decision/negotiation taken by him/her would be accepted by company/firm. In case of unforeseen circumstances the date of opening will be next working day or as notified separately. The Financial bid shall be opened only in case of such tenderers, who on

	scrutiny of Technical Bid are found to have qualified for opening of the same. The financial bid will be opened on any other day at the discretion of State Level Purchase Committee.
15.	The short listed tenderers will have to arrange for the Technical or field / Practical demonstration of the Equipments, if any required, at their own cost at the place and date to be fixed by the Authority. The bids of the firms / bidders who do not arrange / participate in the demonstration as above will be treated as rejected.
16.	The approved supplier shall be deemed to have fully understood the conditions, specifications, size, patterns, make etc. of the article/s etc. to be supplied and in case of any doubt may seek clarification;
17.	The supplies delivered by the successful tenderers shall be surveyed and verified at our Stores i.e. Police Central Stores Jammu/Srinagar by the Survey Committees constituted for the purpose.
18.	The successful tenderer shall have to enter into an agreement/deed on prescribed proforma (immediately after the issue of supply order) with the Department for due performance of the contract which shall be invariably furnished before the supply is made.
19.	The successful tenderers shall arrange supplies within the period mentioned in the supply orders. The period of delivery and validity may be extended, at absolute discretion of this Hqrs provided the delay is justifiable.
20.	After the rate is approved, the successful tenderer shall give in writing that if it is found subsequently that he has supplied the same product at the rates lower than offered to PHQ, the same rates will apply to J&K Police and the excess amount if any, paid to the firm shall be recovered from it in any manner.
21.	The tenderer is required to furnish an authenticated copy of latest Sales Tax/ VAT/ clearance certificates and PAN and VAT registration certificate(alongwith the tender offer or at the time of payments). The PHQ shall be at liberty to put to scrutiny, verification etc. the Sales tax clearance so furnished by the successful tenderer
22.	Payment shall be released by the department against each consignment delivered in entirety, inspected, accepted and properly brought on stock in the concerned stock registers of the Department.
23.	Remittance charges (Bank Commission) on payment made to the firms will be borne by the suppliers. The charges of stamp etc. shall be paid by the supplier while executing the agreement;
24.	As soon as the acceptance of the tender is communicated to the successful tenderers, the contract shall be binding on him. The EMD of the tenderer who backs out or withdraws his tender or fails to abide by it, after acceptance thereof, is communicated/posted to him shall be forfeited besides other penal remedies that may be available to the Govt. of the J&K under the law for the time being in force in the State of J&K;
	(a) If, after the registration/placement of orders/execution of the agreement and formally depositing the security money , the tenderer backs out or fails to supply the goods, the security deposit will be forfeited besides any other penal measures, the department may take as per norms in vogue;
	b) The formal deed incorporating the terms of the contract will be executed by the successful tenderer immediately after receipt of supply order. Failure to execute such bond/deed shall not however prevent the contract from being enforced against the tenderer. Any loss sustained by the Govt.

	as a result of re-tendering the contract, shall be recovered from the defaulter, besides other penal measures as the department may think proper;
	c) Goods shall be delivered (as per instructions in supply order) either at Police Central store, Gulshan Ground, Gandhi Nagar, Jammu or Police Central Store, Zewan, Srinagar duly packed in perfect condition. The supplier if he so desires may insure the goods against loss or theft, destruction, damages by the natural calamity loss by exposure to weather or other wise viz. war rebellion, riot etc. The insurance charges will have to be borne by the supplier and the department shall not pay such charges;
	d) If, the successful tenderer fails to supply the goods of the prescribed specification or fails to deliver the goods within the stipulated period as specifically mentioned in the supply order, the department shall be at liberty to arrange supplies by other possible means, at his risk and cost. The department may give prior notice to the approved supplier in writing to make supplies good. In case of failure to supply the consignment on specified qualitative & quantitative terms, the department shall be lawfully entitled to forfeit the amount of the security money and take penal action to make good the loss sustained or excess cost incurred by the state in arranging of the supplies and other remedies that may be available to the department, under the law for the time being in force in the state.
25.	The supplier shall not sublet the contract or any part thereof to any other agency without the concurrence of PHQ.
26.	The decision of the accepting authority shall be final as to the quality of stores and shall be binding on the supplier. In case the articles supplied are not according to the approved specifications they shall be rejected. The replacement of the rejected stores shall be allowed at the sole discretion of the department. The loss caused due to rejection of the supplies shall be entirely borne by the supplier. The rejected equipment shall be lifted by the supplier within one week from the date of rejection. The department shall in no case be responsible for any loss or damage that may occur to the rejected stores while these are in the premises of the consignee.
27.	The quantities indicated in the Tender Notification are tentative and this Headquarters reserves absolute rights to change the same without any prior notification upto the validity of rate contract of this NIT.
28.	The authorities reserve absolute discretion to reject or accept any tender or a part thereof without assigning any reason and without any legal obligations. Any clause incorporated in the bid (not conforming to the NIT in any manner) shall make such an offer liable for rejection. Therefore, all the terms and conditions of the Tender Notice including technical specification shall be carefully studied for the sake of complete and comprehensive tender. Failure to comply with any of the tender conditions or instructions or the offer with insufficient particulars/documents, which is likely to render fair comparison of tender as a whole impossible shall lead to rejection even if otherwise, it is a competitive offer/tender.
29.	The Department reserves the right to add or suitably modify the terms and conditions (without prior notification) as per exigencies that may arise for one or the other reason.
30.	All legal proceedings arising out of any dispute between the parties shall

	have to be settled in the Courts situated in Jammu and Srinagar and not elsewhere;
31.	Copies of tender can be had on any working day (during office hours) from AIG (Prov/Tpt) Police Headquarters J&K Pirbagh Srinagar or office of DIG of Police Jammu-Kathua Range, Jammu or SP J&K CID Cell II Harish Chander Mathur Lane Kasturba Ghandhi Marg New Delhi 110001.

Sd/-
ADGP (Hqrs)
For Director General of Police,
J&K-Srinagar.
PIN-190021.

No. Prov-II/WPR-28/2011-12/NIT-24/32393-408

Dated:07:07: 2011.

**ANNEXURE “B” TO NIT No: 24 OF 2011; DATED. 07 : 07 :2011
PROFORMA FOR QUOTING RATE/S**

S.No	Rates structure (F.O.R. Police Central Stores Srinagar and Jammu).	Unit rate in Rs.
1.	Basic Unit Cost.	
2.	Custom duty, Rate and amount (if applicable) should be mentioned. Besides, if the item is exempted from payment of custom duty, reference to relevant Govt. notification should be invariably mentioned so that custom duty exemption could be arranged and copy enclosed.	
3.	Excise duty with rate and amount of duty (if applicable).	
4.	VAT/CS. (Rate and amount to be indicated separately).	
5.	Packing, forwarding, freight, insurance etc. charges, up to place of destination/installation (Srinagar/Jammu).	
6.	Any other duty/charges. (Please specify the type of duty/charge, rate and amount, in absence of which it will not be accounted for.	
7.	Total Rate FOR Srinagar/Jammu (inclusive of all taxes/duties/charges etc).	
8.	J&K State Entry Tax is Extra (present rate of entry tax is 13.5%). Entry tax is reimbursed by the department to concerned firm, at actuals, against original documents of J&K Sales/Commercial Taxes Department at Lakhanpur.	

- (i) J&K Police do not issue Road permits, Excise duty/ entry tax exemption certificates or Concessional forms etc.

Sd/
ADGP (Hqrs)
For Director General of Police,
J&K-Srinagar

Item No 01Tentative Qty 40 No**Data Communication Terminal with Radio/Telephone Modem****Data Communication Terminal with Radio/Telephone Modem**

S.No.	Equipment Details with specifications.
A.	<p>Computer System :1. Processor Core 2 Duo 2.93 GHz with , 08 Com- ports 1 GB DDR RAM, 250 GB HDD, DVD RW Drive -21" inch TFT, 56 kbps internal PSTN Modem, Multimedia Keyboard, optical Mouse, External speakers Headphone with Mike (Branded system, latest configuration preferred)</p> <p>2. Licensed Window XP/Vista OS , Mother board drivers and Antivirus software.</p> <p>3. 80 Column Dot Matrix Printer</p> <p>4. UPS 2KVA (Line -Interactive) with 30 Minutes Battery backup along with batteries</p>
B.	MODEMS
	1. Radio Modem speed up to 9.6 KBPS or above on VHF/UHF and 300 BPS on HF with necessary interface cables complete spec. attached
	2. Inbuilt PSTN Modem (speed 56 KBPS and above)
	3. Necessary installation software of above modems with operational /technical manuals
	4. Both the modems must be capable to transmit/receive data in encryption mode through communication software provided

C. COMMUNICATION SOFTWARE:-

	Automatic message switching software with different types of protocols including Polnet /Satellite phone /Packet Radio/PSTN /BEST and RS232. The software must be able to receive/Transmit messages from MCS software and dB com software with the facility of inbuilt encryption
a.	Configurable Message Scheduling/Message Priorities
b.	Message storage Facility- Unlimited with Achieve facility.
c.	Log facilities (Tx, Rx, Failed/Print Messages) with date / time & acknowledgement .
d.	Tool bar Icons for SEND,PRINT,CONNCT,DISCONNECT, LOG, ADDRESS DIRECTORY , EDITOR FOR Messaging , INBOX, OUTBOX, SENT MSG,Receive MSG and other features relating data communication.
e.	On Screen connection status viz IDLE,BUSY, Connecting Receiving and sending. User & admin password protected
f.	Message arrival indicator.
g.	Communication software should be DCPW approved
h.	Automatic re-routing of messages received from remote station ,log file generation.
i.	Message transmits acknowledgement/failure indication
j.	SMTP & POP3 based protocols. For email application

Radio Modem for HF/VHF/UHF Transceiver	
General :- The Offered modem should able to work on standard VHF/UHF/HF transceiver sets preferably designed on latest technology of Digital Signal Processor (DSP). The offered system software should be compatible with existing VSAT MCS software & PSTN Message Switching Network with following features:	
Features :- DSP Modems.	
Transmission/ Reception Rate :110 BPS to 300 BPS in HF ,VHF/UHF 1200 & 9600 BPS	
All standard VHF/UHF & HF modes.	
Mailbox expandable to 242K.or better	
Full Mail drop facility for Packet.	
PACTOR, PACKET, FEC and AMTOR.	
Two radio ports with rear panel.	
AFSK adjustments.	
Must support Binary File attachments.	
Input-Output connections :-	
Scope Outputs	Mark, Space
Terminal Interface :	
Radio Interface	RS-232-C DB-9 connector
Modulation :	AFSK & FSK
Transmission/Reception rate :110, 200, 300, 1200, and 9600 bauds	
Power Requirements	
Mains :	230VAC +10%, 50Hz
Battery :	12 VDC Nominal, Negative ground.
Permissible Battery :	From 12V to 14 V DC

Item No 02

Throat Type Vox Kit

Features:-

1. The throat microphone must work for hands free operation
2. It should work both in PTT as well as VOX mode.
3. Miniature size.
4. Flexible / soft chord
5. Good frequency response

Compatibility:-

The throat type VOX KIT should be compatible with following Hand Held Sets

S.No	Type of Vox Kit	Tentative Qty
1.	Hand Held Set GP 2000	450
2.	Hand Held Set GP 2100	200
3.	Hand Held Set GP 900	200
4.	Hand Held Set GP 338	110

5.	Hand Held Set VX 110	70
6.	Hand Held Set TK 480	10
7.	Hand Held Set VL 747	465
8.	Hand Held Set ICF 30 GT	100
9.	Hand Held Set HYT TC 780	400

Item No 03

Tentative Qty. 50

UHF Hand Held Set 400 MHZ.

SPECIFICATIONS

1) Frequency Range	400 – 470 MHZ (No split Band)
2) No. of Channels	16
3) R.F Power Out Put	5 Watts
4) Receiver sensitivity	0.30 Microvolt or Better
5) Channel spacing	12.5KHZ
6) Charging system	Single Unit Rapid Battery Charger
7) Battery Pack	(7.2 volt-12volt 2200 mAH Ni- Mh Rechargable
8) Out Put Impedance	50 Ohms
9) AUDIO Out put	500mW

Features

1. PC programmable
2. User Friendly
3. Low voltage indication
4. LCD display
5. in-Built VOX facility.
6. Password protection

Accessories

1. Helical Antenna
2. Spare battery pack 2200 mAH Ni-mH
3. Battery Charger
4. Mounting clip
5. Technical Manual 05 Nos. with 100 sets.
1. Programming software with RIB 05 Nos. with 100 Sets.

Note:- Better Addl. Features if any ,shall be prefrrd.

Voice Ducer for UHF 400 MHz Hand Held Sets

Qty 50 No

The Voice Ducer should have following Characteristics.

1. Captures bone conduction sound in the ear
Voice ducer ear microphone picks up bone conduction sound=vibration from the vocal chords in the external auditory canal and converts it into sounds.
2. Built in bone conduction microphone and miniature speaker
This seemingly an ordinary earphone is equipped with highly sensitive bone conduction microphone and miniature magnetic speaker. Such structure enables two way radio Communications using only one ear and without cumbersome microphone placed in front of the mouth.

- Meet special needs of various setting including highly Noisy environment Bone conduction microphone having high tolerance against noise enables clear communication even in highly noisy environment. Also, it allows the combined use of breathing device as gas mask, or even a helmet since it need not cover the mouth area to communicate.

Compatible Interface:-

The Voice Ducer should be compatible with UHF 400 MHz Hand Held Sets Model VL 747 already under use .

Note:-

Use of voice Ducer is initial introduction in the state as such final selection will be made after live demonstration of the offered products.

**Item No 04 Tentative Qty.200
VHF HAND HELD LOW BAND Transceiver**

SPECIFICATION

Frequency Range	66-88 MHz
No. of Channels	16
R.F Power Out Put	5 Watts
Receiver sensitivity	Better than 0.3µV
Channel spacing	12.5KHZ
Charging system	Single Unit Rapid Battery Charger
Battery Pack	7.2-12volt2200mAH Ni-Mh Re-chargeable

Features

- 1) PC programmable
- 2) User Friendly
- 3 Low voltage indications
- 4 LCD Display
- 5) In built Vox facility.

Note: Complete set includes following accessories

- 1) Helical Antenna
- 2) Spare battery pack 2200mAH Ni-Mh
- 3) Battery Charger
- 4) Mounting clip
- 5) Programming software with Rib 05 Nos with 100 Sets.
- 6) Technical Manual 0 5 Nos with 100 Sets.

**Item No 5 Tentative Qty.100
VHF STATIC LOW BAND STATIC/MOBILE TRANSRECEIVER**

SPECIFICATIONS

GENERAL

- | | |
|--------------------|--------------|
| 1. Frequency Range | 66 to 88 MHZ |
| 2. No. of channel | 16 |

3. Power Supply requirement	12V DC
4. Channel spacing	12.5 KHZ
5. Rx Sensitivity	Better than 0.3 μ V
6. R.F Output	25 Watt
7. Audio Output	3 to 4 Watt
8. Speaker	Inbuilt
9. Antenna impedance	50 Ohm

FEATURES

1. P.C Programmable
2. Reverse Polarity/Low voltage protection
3. LCD Display
4. Compatible with Packet Radio System.

ACCESSORIES

1. Hand set
2. DC cable with fuse
3. Whip antenna with mounting plate
4. Patch chord with connectors (3mtr in length)
5. Handset mounting bracket with screws
6. Mounting bracket with screws for mobile radio.
7. Technical manual 05 Nos. with 100 sets.
8. Programming Software with RIB 05 Nos. with 100 sets.

Note:-

Better Addl. Features if any , will be preferred.

Item No 6

Tentative Qty 400

VHF HAND HELD HIGH BAND TRANSRECEIVER

(146-174 MHZ)

SPECIFICATIONS :-

1. Frequency Range	146 -174 MHz
2. No. of Channels	16
3. R.F Power output	5 watts
4. Receiver sensitivity	Better than 0.30 Microvolt
5. Channel spacing	12.5 KHz
6. Charging system	Single unit rapid battery charger
7. Battery pack	(7.2 volt-12volt 2200 mAh Ni-Mh rechargeable)

Features

1. PC programmable
2. User Friendly
3. Low voltage indication
4. LCD display
5. in-Built VOX facility.

Accessories

1. Helical Antenna
2. Spare battery pack 2200 mAh Ni-Mh
3. Battery Charger
4. Mounting clip

5. Technical Manual 05 Nos. with 100 sets.
6. Programming software with RIB 05 Nos. with 100 Sets.

Note:-

Better Addl. features if any, will be preferred.

Item No 7

Tentative Qty 200

VHF HIGH BAND STATIC/MOBILE TRANSRECEIVER

SPECIFICATIONS:-

GENERAL

1. Frequency Range	146 to 174 MHZ
2. No. of channel	16
3. Power Supply requirement	12V DC
4. Rx Sensitivity	Better than 0.3 μ V
5. Channel spacing	12.5 KHZ
6. R.F Output	25 Watt
7. Audio Output	3 to 4 Watt
8. Speaker	Inbuilt
9. Antenna impedance	50 Ohm

FEATURES

1. P.C Programmable
2. Reverse Polarity/Low voltage protection
3. LCD Display
4. Compatible with Packet Radio System.

ACCESSORIES

1. Hand set
2. DC cable with fuse
3. Whip antenna with mounting plate
4. Patch chord with connectors (3mtr in length)
5. Handset mounting bracket with screws
6. Mounting bracket with screws for mobile radio.
7. Technical Manual 05 Nos. with 100 Sets.
8. Programming Software with RIB 05 Nos. with 100 Sets.

Note: - Better Addl. features if any, will be preferred.

Item No 8

Tentative Qty 30 No

UHF Static/Mobile 800 MHZ TRANSRECEIVER

SPECIFICATIONS:-

Frequency Range	806--890 Mhz.
No. of channel	16
Power Supply requirement	12 VDC
Channel spacing	12.5 Khz.
R.F Output	25 Watt
Receiver sensitivity	Better than 0.3 μ V
Audio Output	3 to 4 Watt
Speaker	Inbuilt
Antenna impedance	50 Ohms

FEATURES :-

- 1) PC Programmable
- 2) Password protection

- 3) User Friendly
- 4) Reverse Polarity/ Low voltage protection

ACCESSORIES

1. Hand set
2. DC cable with fuse
3. Whip antenna with mounting plate
4. Patch chord with connectors (3mtr in length)
5. Handset mounting bracket with screws
6. Mounting bracket with screws for mobile radio.
9. Technical Manual 05 Nos. with 100 Sets.
10. Programming Software with RIB 05 Nos. with 100 Sets.

Note:-

Better Addl. Features if any, Shall be preferred

Frequency

Item No 9 **Tentative Qty 50 No**
UHF HAND HELD 800 MHZ TRANSRECEIVER

SPECIFICATIONS

- | | |
|-------------------------|--|
| 1. Frequency Range | 806-890 MHZ (No split Band) |
| 2. No. of Channels | 16 |
| 3. R.F Power out Put | 5 Watts |
| 4. Receiver sensitivity | 0.3 Microvolt or Better |
| 5. Channel spacing | 12.5KHZ |
| 6. Charging system | Single Unit Rapid Battery
Charger |
| 7. Battery Pack | (7.2 volt-12volt 2200 mAH Ni-
Mh Re-Chargeable) |
| 8. AUDIO Out put | 500mW |

Features

1. PC Programmable
2. Low Battery Indication
3. LCD Display
4. User friendly
5. In-Built VOX Facility
6. Password protection

Accessories

1. Helical Antenna
2. Spare Battery pack Ni-Mh 2200 mAH
3. Battery Charger
4. Mounting Clip
5. Technical Manual 05 Nos. with 100 sets.
6. Programming Soft ware with RIB 05 Nos. with 100 sets.

Note:-

Better Addl. Features if any, will be preferred.

Item No 10 **Tentative Qty 06 No**
VHF LOW BAND REPEATER (66-88 MHZ)

Specifications

General:-

1. Frequency Range	66-88 MHZ
2. No of channels	16
3. Display	L.C.D
4. Mode of Operation	Semi duplex
5. TX/ RX Frequency separation	05 MHZ
6. Power Supply Requirement	12 Volts DC
7. Channel Spacing	12.5 KHz.
8. R F output	25 Watts
9. Receiver sensitivity	Better than 0.3 μ V
10. Audio Output	3 to 4 Watt
11. Speaker	Inbuilt
12. Impedance	50 Ω
13. Programming	PC
14. Protection	Reverse polarity/low voltage Protection
15. Switching Band width	Full Band

Accessories

1. Hand set
2. DC cable with fuse
3. Rx and Tx High Gain Antennas with 30 meter Low Loss feeders (LDF Co-axial Cables)
4. Operating/ Technical manual
5. Programmable kit complete

Note: *The repeater must be dedicated and supplied with all accessories to make it a complete Repeater System.*

Item No 11

Tentative Qty 06 No

VHF HIGH BAND REPEATER (146-174 MHz)

Specifications

General:-

1. Frequency Range	146-174 MHz
2. No of channels	16
3. Display	L.C.D
4. Mode of Operation	Semi duplex
5. TX/ RX Frequency separation	05 MHZ
6. Power Supply Requirement	12 Volts Dc
7. Channel Spacing	12.5 KHz.
8. R F output	25 Watts
9. Receiver sensitivity	Better than 0.3 μ V
10. Audio Output	3 to 4 Watt
11. Speaker	Inbuilt
12. Impedance	50 Ω
13. Programming	PC
14. Protection	Reverse polarity/low voltage Protection
15. Switching Band width	Full Band

Accessories

1. Hand set
2. DC Cable with fuse
3. Rx and Tx High Gain Antennas with 30 meters Low Loss feeders (LDF Co-axial cables)

19. Must have in built slot for PRI and BRI card.
 20. The company must provide on site training to the operators/Technical staff regarding handling, operation and software programming.

Item No 13 Tentative Qty 20 No Duplex Radio License free.

Technical Specifications of Duplex Radio System		
S.No	Parameter	Details
01	Radio Configuration	Supporting at least 04 Radios capable to operate as PTMP System and / Or Repeater for spanning long distances or as high band width link Aggression (Router configuration)
02	Frequency Band	2.4 to 2.485 GHz or 5.825 to 5.875 GHz as per WPC
03	Modulation	OFDM-BPSK/QWPSK/16QAM/64QAM
04	Data Rates	Minimum 48 Mbps
05	TX Out put	20dBm or better
06	Rx Sensitivity	-84dBm @ 12 Mbps, -81 dBm @ Mbps,- 74 dBm@ 36Mbps, -68dBm@ 48Mbps or better
07	RF Channels	Max. 19 overlapping channels in frequency band 2.4 to 2.485 GHz or Max. 12 overlapping channels in frequency band 5.825 to 5.875 GHz in 5/10/20 MHz channel width configuration option.
08	Wireless Error correction	FEC
	Operational	
01	Standards compliance	Framing / Coding as per IEEE 802.3 /U
02	Operating Modes	PTP and MPTP
03	Useful throughput	Minimum 18 Mbps
04	V LAN Support	Transparent
05	Repeater Configuration	Option Necessary
06	Link Span in Repeater mode	Minimum 4o KMs
07	Link Distance	Minimum 20 Kms
08	Spectrum Analyzer v (in built)	For selecting appropriate sub channels
	Network Management and Security	
01	Network Support	Ether net support should be available
02	Antenna Aliment tools	Buzzer /Visual LED`s (SNR)
03	Management utilities	SNMP Based, Local and remote Loop back testing
04	Management interface	Ether net
05	Net work management system	Should support SNMP
	Physical Environmental and compliance parameters	
01	Network Connection	Ether net

02	External Antenna Connection	N Type Connector with weather proof casing/ Reflector
03	POE Adopter	IDH to provide power over Cat 5 cable to ODU
04	Power consumption	Less than 35 Watts
05	LED Indicators	Power and line
06	Temperature	-10 to + 55° C
07	Enclosure	All weather casing for ODU
08	Environmental Compliance	IEC 60721 Class 4 MS IP 67
09	Power Source	230 Volts AC 50 Hz / POE

Note:- Duplex Based Radio system has not been used in the state so far . As such Final selection of system will be made after successfull demo of the system

Item No 14 **Tentative Qty 40 No**
SMF Battery 12 Volts 65 AHC

The sealed maintenance free battery having capacity of 12 volts, 65 AHC

Item No 15 **Tentative Qty 300 No**
SMF Battery 12 Volts 100 AHC

The sealed maintenance free battery having capacity of 12 volts, 100 AHC

Item No 16 **Tentative Qty 100 No**

BATTERY CHARGER 12VOLT 10AMPS (Ripple Free)
Specifications

Input voltage: 160 to 240 Volts AC 50HZ

Output voltage: 12 Volts to 13.6 Volts DC

Charging current: **Variable 5 Amps to 10 Amps**

Front panel fitted with:

0 to 20 Volts voltmeter

0 to 10Amps DC Amps meter

On/off toggle Switch

AC /DC fuse

LED's (Line voltage and reverse polarity indicators)

DC Output terminal indicating red positive and black for negative fitted with battery terminal lead.

Automatic circuit breaker switches
With knob.

Protection: 1. Reverse polarity Protection
2. over Voltage protection

Item No 17 **Tentative Qty 100 No**

Battery Charger for GP-338(Motorola) Set.

1. Input Voltage	150 - 250 Volts AC
2. Out Put Voltage	9 Volts DC
3. Current	1000 mAH
4. Battery Charging Capacity	up to 3000 mah

Features:

- I) Regulator Circuit
- II) Normal Charging
- III) Rapid Charging
- IV) Mains Indicator
- V) Charge Indicator
- VI) Compatible with GP-338(Motorola)

Item No 18 **Tentative Qty 100 No**

Battery Charger for GP-300(Motorola) Set.

1. Input Voltage	150 - 250 Volts AC
2. Out Put Voltage	9 Volts DC
3. Current	1000 mAH
4. Battery Charging Capacity	up to 3000 mah

Features:

- I) Regulator Circuit
- II) Normal Charging
- III) Rapid Charging
- IV) Mains Indicator
- V) Charge Indicator
- VI) Compatible with GP-300(Motorola)

Item No 19 **Tentative Qty 02 No**
HEAVY DUTY DOT MATRIX PRINTER

SPECIFICATIONS:-

Print Speed	At 10,12,15 cpi
High Speed draft	800, 1000
	Draft 667, 800, 1000
	NLQ 222,267,333
	LQ 111,133,167
Print Method	Serial Impact
Resolution	360x360 dpi
Print head life	750 M characters
Throughput	625 pages per hour
Memory	128 Kb or higher
Character/Line Density	As per Standards
Connectivity	Bi-directional Parallel plus 10/100 Base-T with high capacity buffer USB port
	RS-232 serial, adapters, Twinax/coax, Ethernet IPDS (optional)
Standard Emulation	IBM XL24e, Epson LQ-2550, LQ-2170(ESC P/2) ANSI, MTPL.
Fonts	HS draft, draft, copy draft, Courier, Roman, Sans Serif, Prestige, Script, Orator, etc.
Consumables	20 M Character Ribbon
Paper handling	Push Tractor with paper parking and AGA, 2 nd rear push tractor
Paper Type	Continuous forms
Paper Size	Length 3", 22" max. Width 3", 16.5' max.
Power Voltage	230V, 50Hz.
Work load	Upto 50,000 pages per month
Drivers' software	Windows 9x/ME, 2000, 2003 server, XP, Vista, Latest versions
Paper basket	As per requirement
	It should have full range of automatic features to minimize user intervention

Item No 20

Tentative Qty 50 No

Aerial KIT (V 101 Kit)

SPECIFICATIONS

1. The Aerial kit made of 05 Aluminum pipes of 06 feet length fitted with necessary hooks for guy wire.
 2. Maximum dia of the base tube should be 03 inches and all tubes must fit on one another to remain erected for full length or required lengths.
 3. Standard quality of nylon Guy wire for installation with other material like ½ kg Hummer and iron pegs.
 4. The height of Ariel should be adjustable up to 30 feet Height.
 5. All the material should be supplied in a good quality Canvas bag with man pack carrying belts
-
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4. The height of Ariel should be adjustable up to 30 feet height.
5. All the material should be supplied in a good quality canvas bag with man pack carrying belts

Item No 21

Power Transistors

Type of Power	Tentative Qty in No
Power Transistor M25C22	200
Power Transistor 1550 N	100
Power Transistor 5003	200
Drive Transistor	
Driver Transistor 1511	100
Pre Driver Transistor MRF 8273	200
Audio IC TDA 1519	200
Speaker of GP 2000 08 ohm 0.5 w	50
Flash ROM GP 338	100
Audio IC Kenwood LA 4422	70

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