



POLICE

HEADQUARTERS

{ PROVISION SECTION }

J&K, JAMMU.

Phone/Fax No: 0194-2443031/ 2443032 (Sgr)
0191-2459029/2459255(Jammu)


Website: www.jkpolice.gov.in
Email: phqjk@jkpolice.gov.in

Gist e-tender notice No 46 of 2017

Dated: - 23 .12. 2017

For and on behalf of the Governor of Jammu and Kashmir State, Short term e-tenders are hereby invited from the original manufacturers or their authorized dealers to quote against this tender for the supply of Communication items recommended by Wireless Planning Committee for procurement (as indicated in the detailed SBD & BOQs). The download of the NIT shall start on 23 /12/2017 from 1600 hours. Tenders shall be submitted online on J&K State e-Procurement Portal www.jktenders.gov.in upto 06.01.2018 before 1800 hours. The tenders (technical bids only) will be opened online on 08.01.2018 at 1100 hours at Police Headquarters J&K Gulshan Ground Jammu. In case of unforeseen circumstances, the date of opening will be next working day.

Detailed tender documents (SBD) with terms and conditions are available on J&K State e-procurement Portal www.jktenders.gov.in. The intending tenderers may visit this site for detailed information.


Sheikh Junaid Mahmood
(AIG Provision/Transport)

For Director General of Police,

J&K-Jammu

Dated: 23 .12.2017

No: -WPR-65/2016-17/NIT-46/

Copy to the:-

1. Principal Secretary to Govt. Home Department J&K Jammu
2. All ADsGP J&K
3. All IsGP J&K

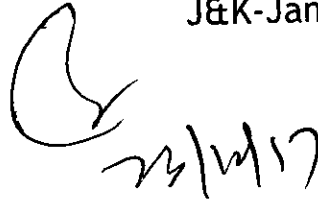
....for favour of information.

4. Director SSG J&K Jammu for favour of information.
5. DIG CKR Srinagar/DIG Jammu-Kathua & Samba Range Jammu.
6. Director Police Telecom J&K Jammu for information.
7. Director Industries Jammu/Srinagar for information.
8. Chief Accounts officer PHQ J&K Jammu for information
9. Manager Government Press Srinagar / Jammu for publication of the e.tender in Govt Gazette.

10. SSP J&K CID Cell, 11 Harish Chander Mathur Lane Kasturba Gandhi Marg New Delhi-110001 alongwith copy of the e.tender for information intending firms.
11. AIG Communication PHQ J&K Jammu for information with the request to arrange publication of Gist of the e.tender through information department.
12. In-Charge Police Central Store Gulshan Ground Jammu/ Zewan Srinagar for information.
13. In-Charge IT Centre PHQ/In-Charge e-tendering PHQ for placing the e-tender on the website of J&K Police and J&K Govt. Portal.



Sheikh Junaid Mahmood
(AIG Provision/Transport)
For Director General of Police,
J&K-Jammu



23/12/17



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e-tender notice No 46 of 2017
Dated 23.12. 2017

SBD

1.	<p>For and on behalf of the Governor J&K State, short terms e-tenders are hereby invited from original manufacturers or their authorized dealers to quote against this tender for the supply of Communication items recommended by Wireless Planning Committee for procurement as detailed in Annexure 'A' to this NIT. The tender notice consisting of qualifying information, eligibility criteria, specifications, bill of quantities (BOQ), set of terms and conditions of the contract and other details can be seen/ downloaded from J&K State e-procurement portal www.jktenders.gov.in from 23 .12.2017 at 1600 hours to 06.01.2018 up to 1800 hours.</p> <p>Note: Only those firms are allowed to respond who are either manufacturer/s or their authorized dealers. In case of authorized dealers, a specific authorization letter from the principal manufacturer with reference to this particular tender should be attached. Tenders of approved/authorized dealers without authorization for this tender (as per format provided in appendix-1) from original manufacturer shall be rejected.</p>	
2.	Time/date and place for online opening of technical bid only	On 08.01.2018 at 1100 hours at J&K Police Headquarters, Gulshan Ground Jammu.
	Validity of tender offer	Upto 31.03.2019
3.	<p>All tender documents attached with this invitation to tender including the specifications are SACROSANCT for considering any offer as complete offer. It is important that scanned copies of each page of the tender document duly completed, page numbered and signed is uploaded with your offer in a sequential manner and not haphazardly.</p>	
4.	<p>The tender fee has been fixed for SSI units of J&K State only Rs 100/- and all other vendors have to pay Rs. 2000/- as tender fee in shape of a <u>crossed demand draft</u> favouring Chief Accounts Officer PHQ J&K payable at Srinagar. The tender fee is not refundable and same will be deposited into Govt Treasury under head 0055-Police for the year 2017-18. The scanned copy of the demand draft should be part of the online bid. The original demand draft should be sent by post to the AIG</p>	

4	<p>(Provision/Transport) C/o Director General of Police J&K, Gulshan Ground Jammu along with covering letter in an envelope should have a card affixed to it duly signed and stamped by the firm indicating (a) name of the firm (b) tender No. (c) Date of opening of the technical bids. The local SSI units of J&K State 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 copies of the authenticated orders, existence/ registration certificates etc. with regards to the SSI units issued by the competent authority in support of their claim. Tenders without stipulated tender fee shall be rejected.</p>
5.	<p><u>Earnest Money Deposit (EMD):-</u></p> <p>The intending tenderers will have to send the Earnest Money only in shape of CDR/FDR from any nationalized bank/State owned Banks for an amount of Rs 5000/- for J&K state SSI Unit holders only and for other tenderers Rs 1.00 lac pledged to AIG (Prov/Tpt) PHQ J&K with the tender offer, which shall be valid for one year. The EMD in the case of unsuccessful tenderer shall be released after finalization of Tender, whereas, in the case of successful tenderers it will be adjusted towards 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 the purchaser on the EMD deposited by the tenderer. The Scanned copy of the CDR/FDR should be part of the online Bid and the original be sent by post to the AIG (Prov/Tpt) C/O Director General of Police J&K Gulshan Ground Jammu alongwith tender fee before the opening of technical Bid. J&K Govt. rules with regard to furnishing of EMD in respect of local Registered SSI units of J&K State shall be applicable in letter and spirit. The local SSI units are required to pay EMD prescribed as per J&K Govt rules. For the purpose, SSI units shall have to furnish Registration Certificate INDICATING THEREIN THE DETAILS OF ITEMS AND INSTALLED CAPACITY OF THE UNIT PER MONTH 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 of J&K state, claiming exemption from the payment of EMD shall have to append duly authenticated orders, certificate etc. from competent authority supporting their claims.</p> <p>Tenders without EMD shall be rejected.</p>

6.	i)Stores required at	FREE DELIVERY AT CONSIGNEE LOCATIONS i.e, (Police Central Store Zewan Srinagar and Police Central Store Gulshan Grounds Gandhi Nagar Jammu. Tenderers are required to quote rates on free delivery at consignee's location basis only. Tenders received quoting rates on FOR Destination Stations/Station of Dispatch basis shall be rejected.
	ii)Dispatch instructions	Stores are required to be delivered at consignee's locations in perfect condition.
	iii)Delivery required	Approximately within 30 days from the date of issue of supply order.
	v)Inspection authority / place of survey	Board of officers, constituted by the J&K Police Hqrs, at consignee's premises viz Police Departmental Store Jammu/Srinagar.
	vii)Payment terms	Payment shall be released by the department against consignment is delivered, surveyed, and properly brought on the stock in the concerned stock registers of the Police Central Stores.
7.	Rates quoted by the firms should be on firm price basis ie including all taxes/duties as per clause 9.	
8.	<p>i. If approved supplier backs out or fails to supply the goods against supply order within stipulated delivery period ,the department will be at liberty to procure the item from L-2 firm and differential amount between L-1 & L-2 rates will be recovered from the security deposit furnished by the approved supplier and remaining security deposit will be forfeited besides invoking other penalties which shall include black-listing of the firm etc.</p> <p>ii. If approved supplier ,supplies the goods partially against supply order within stipulated delivery period, the J&K Police reserve the right to impose liquidity damage charges upto 5% of the un-supplied store upto first 15 days and thereafter penalty can be increased depending upon the nature of supplies and extent of delay. However, period of delivery may be extended at the absolute discretion of J&K Police provided delay is attributable to the reasons beyond the control of the supplier firm but not attributable to business transactions and also delay is communicated in writing justifying the cause of delay .</p>	
9.	Firms shall clearly indicate different taxes, duties, charges which they	

j	propose to charge as per the format of Bill of quantity (BOQ) available with the e-tender, moreover online generation of financial comparative (BOQ Chart) is of indicative nature only and not conclusive. The detail
10.	No conditional tender will be accepted/entertained. It will be summarily rejected. No other conditions than those mentioned (in the terms set-forthwith)
11.	Purchaser reserves the right to change the quantity of stores mentioned in the tender.
12.	Purchaser reserves the right to get the manufacturing capacity of all the firms re-verified irrespective of the registration status or any other document/ information.
13.	Purchaser reserves the right to cancel/reject or scrap the tender, with no consequential liability
14.	<p>TWO BID SYSTEM:- All bidders are required to submit their offers in two covers online as under:- (A) FIRST COVER (Technical Bid) is to be uploaded Online and Scanned Copies in PDF format should contain the following documents:-</p>
i.	The tenderer will clearly mention the name of the items for which he has quoted in the covering letter of the tender offer.
ii.	Tender documents (viz technical compliance, brochures/catalogues of the quoted items containing Make & model of the items ,OEM/ authorization certificate, registration/existence certificates of the firms / SSI Units & performance etc.) duly page numbered completed and signed BUT WITHOUT INDICATING THE RATES QUOTED.
iii.	All pages of the technical bid/pre qualification documents must be clearly page marked at the bottom centre of each page before scanning the same and uploaded to e-tendering portal.
iv.	Duplicate documents /pages shall not be uploaded by the bidders
v.	Documents to be scanned ,converted to PDF format and subsequently uploaded to the portal must be scanned at 200 DPI(Dots per inch) resolution/scale.
vi.	Tender fee and EMD documents must be scanned and placed in separate PDF files.
vii.	Bidders are advised not to upload any irrelevant /un necessary documents on tender portal.
viii.	Technical specifications of the items quoted with catalogue/broacher etc. & deposition of samples (wherever asked)

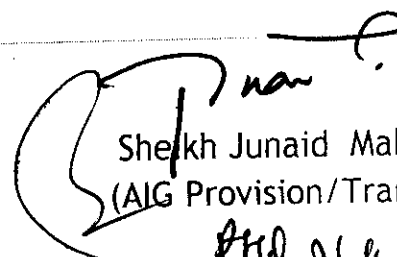
	<table border="1"> <tr> <td data-bbox="209 192 304 327">ix.</td> <td data-bbox="304 192 1390 327">Certificate of being authorized dealer having proper and specific authorization (as per format provided in Appendix-I) of the original manufacturer to quote against this tender.</td> </tr> <tr> <td data-bbox="209 327 304 461">x.</td> <td data-bbox="304 327 1390 461">Authorized dealer having authorization to quote against this tender, shall furnish his registration certificate with central /state sale tax department for that particular item.</td> </tr> <tr> <td data-bbox="209 461 304 640">xi.</td> <td data-bbox="304 461 1390 640">Scan copy of the NIT, all pages duly signed & stamped by the tenderer, in token of having understood and accepted the specifications, terms & conditions of the NIT and quoted items should be duly ticked.</td> </tr> <tr> <td data-bbox="209 640 304 752">xii.</td> <td data-bbox="304 640 1390 752">Performance statement /turn over for last two years as APPENDIX-III of this NIT.</td> </tr> <tr> <td data-bbox="209 752 304 797">xiii.</td> <td data-bbox="304 752 1390 797">Acceptance of delivery, Warranty & guarantee of the items.</td> </tr> <tr> <td data-bbox="209 797 304 887">xiv.</td> <td data-bbox="304 797 1390 887">Acceptance regarding delivery within the stipulated delivery schedule.</td> </tr> <tr> <td data-bbox="209 887 304 976">xv.</td> <td data-bbox="304 887 1390 976">PAN no/GST/TIN No. Self attested photocopies thereof be appended.</td> </tr> <tr> <td data-bbox="209 976 304 1021">xvi.</td> <td data-bbox="304 976 1390 1021">Check list for tenders as per APPENDIX-III of this NIT.</td> </tr> <tr> <td data-bbox="209 1021 304 1077">xvii.</td> <td data-bbox="304 1021 1390 1077">Any other relevant document which the firms wishes to submit</td> </tr> </table>	ix.	Certificate of being authorized dealer having proper and specific authorization (as per format provided in Appendix-I) of the original manufacturer to quote against this tender.	x.	Authorized dealer having authorization to quote against this tender, shall furnish his registration certificate with central /state sale tax department for that particular item.	xi.	Scan copy of the NIT, all pages duly signed & stamped by the tenderer, in token of having understood and accepted the specifications, terms & conditions of the NIT and quoted items should be duly ticked.	xii.	Performance statement /turn over for last two years as APPENDIX-III of this NIT.	xiii.	Acceptance of delivery, Warranty & guarantee of the items.	xiv.	Acceptance regarding delivery within the stipulated delivery schedule.	xv.	PAN no/GST/TIN No. Self attested photocopies thereof be appended.	xvi.	Check list for tenders as per APPENDIX-III of this NIT.	xvii.	Any other relevant document which the firms wishes to submit
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xvii.	Any other relevant document which the firms wishes to submit																		
15.	<p data-bbox="233 1077 1342 1178">) (B) SECOND COVER (Commercial/Price Bid) should contain the following:-</p> <table border="1" data-bbox="240 1178 1382 1794"> <tr> <td data-bbox="240 1178 296 1648">i.</td> <td data-bbox="296 1178 1382 1648"> <p data-bbox="296 1178 1382 1368">Rate quoted by the firm should be on firm price basis as per Bill of Quantities (BOQ) of the e-tender to be downloaded from the website and Rates should be carefully quoted offline and then uploaded</p> <p data-bbox="296 1368 1382 1536">(Note) J&K Police does not issue Road Permits, Concessional Forms, state entry tax or Octroi etc exemption certificates, as such; Rate quoted shall be F.O.R Consignee.</p> <p data-bbox="296 1536 1382 1648">The Zero basic cost quoted for any item in BOQ will be treated as Nil Quoted</p> </td> </tr> <tr> <td data-bbox="240 1648 296 1794">ii.</td> <td data-bbox="296 1648 1382 1794"> <p data-bbox="296 1648 1382 1794">Rates quoted shall be final till the validity of the contract i.e. upto 31.03.2019 with provision of further extension if finally approved by competent authority.</p> </td> </tr> </table>	i.	<p data-bbox="296 1178 1382 1368">Rate quoted by the firm should be on firm price basis as per Bill of Quantities (BOQ) of the e-tender to be downloaded from the website and Rates should be carefully quoted offline and then uploaded</p> <p data-bbox="296 1368 1382 1536">(Note) J&K Police does not issue Road Permits, Concessional Forms, state entry tax or Octroi etc exemption certificates, as such; Rate quoted shall be F.O.R Consignee.</p> <p data-bbox="296 1536 1382 1648">The Zero basic cost quoted for any item in BOQ will be treated as Nil Quoted</p>	ii.	<p data-bbox="296 1648 1382 1794">Rates quoted shall be final till the validity of the contract i.e. upto 31.03.2019 with provision of further extension if finally approved by competent authority.</p>														
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16.	<p data-bbox="240 1794 1390 2074">On due date of opening of tenders i.e. 06.01.2018 at 1100 hours, technical bids only shall be opened and technical evaluation process shall start. Those who qualify the technical bid on a/c documents uploaded by them shall be informed to arrange demo to complete technical evaluation. Thereafter participating firms shall be informed online with regard to opening of financial bids of the technically qualified firms.</p>																		

17.	<p>Security Deposit: - The approved tenderers will have to supply the articles as per approved rate, approved sample and specification till the validity of the contract. They will have to furnish security deposit @ 5% of the total value of the items contracted for and for DGS&D Rate Contract based supplies the security deposit will be 2%, in the shape of CDR/FDR issued by a Nationalized/Scheduled Bank pledged to AIG Provision & Transport PHQ J&K Jammu, 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 products. This security deposit will be released in due course after 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 Security Deposit in respect of local SSI Units shall be applicable</p>
18.	<p>Guarantee/Warranty Except as otherwise provided in the invitation to the tender, the contractor hereby declares that the goods, stores, articles sold/supplied to the purchaser under this contract shall be of the best quality and workmanship and new in all respects and shall be strictly in accordance with the specifications and particulars contained/ mentioned in the contract. The contractor hereby guarantees that supplied goods/stores/articles would continue to conform to the specifications and quality for a period of 24 months for equipment & 12 months of accessories, from the date of acceptance of supplies by the purchaser. If during this , supplied stores/goods/articles be discovered not to conforming to the specifications 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/replace the goods/stores/articles or such portion thereof by the contractor and in such an event, the above mentioned warranty period shall apply to the goods/articles/stores rectified/replaced from the date of rectification/replacement thereof. In case of failure of the contractor to rectify or replace with 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 by the available means.</p>
19.	<p>Liquidity Damages Successful tenderer shall have to make the supplies within stipulated period as would be mentioned in the supply order. J&K Police reserves</p>

7	the right to impose liquidity damages of 5% of the cost of unsupplied stores which shall depend upon the nature of supplies and extent of delay. However, period of delivery may be extended, at absolute discretion of J&K Police provided the delay is attributable to reasons beyond the control of the supplier but not attributable to business transactions and provided delay is communicated in writing justifying the cause of delay.
20.	The supplies delivered by the successful tenderer shall be surveyed and verified by the J&K Police at Police Central Stores Jammu/Srinagar, as the case may be
21.	As soon as the acceptance of the tender is communicated to the successful tenderers online, the contract shall be binding on him. The earnest money of the tenderer who backs out or withdraw 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.
22.	The successful tenderer shall have to enter into an agreement 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.
23.	The tenderer is required to furnish an authenticated copy of latest GST clearance certificates. The PHQ shall be at liberty to put to scrutiny, verification etc. the Sales tax /GST clearance so furnished by the successful tenderer.
24.	The authorities reserve absolute powers to reject or accept any tender or part thereof without assigning any reason and without any legal obligations. Any clause incorporated in the tender (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 specifications shall be carefully studied for the sake of complete and comprehensive tender. Failure to comply with any of the conditions stipulated in the tender or instructions or the offer with insufficient particulars/documents shall lead to out-right rejection of the tender offer.
25.	After the registration/placement of orders/execution of the agreement and formally depositing the security money, in case the tenderer backs out or fails to supply the goods, the security deposited will be forfeited besides any other penal provisions, the department may decide as per norms.

26)	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 provisions as the department may decide.
27.	<p>Delivery of Goods</p> <p>Goods shall be delivered (as per instructions in supply order) at Police Central Store, Gulshan Ground, Gandhi Nagar, Jammu and Police Central Store, Zewan, Srinagar as the case may be 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 otherwise viz war rebellion, riot etc. The insurance charges will have to be borne by the supplier and the department shall not pay such charges.</p>
28.	If the successful tenderer fails to supply the goods of the prescribed specification or fails to deliver the goods within stipulated period as specifically mentioned in the supply order, the department shall be at liberty to arrange supplies by re-tendering or otherwise at the risk and cost of the tenderer. The department shall be lawfully entitled to forfeit the amount of the EMD/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 with the department, under law .
29.	Either the original manufacturer or his authorized dealer can participate for a particular item or sample(s) only. Tender offers where both original manufacturer and his authorized dealer participate for the same items the tender of OEM shall be considered and tender of the dealer/ distributor shall be rejected
30.	If at any stage of the tender process two or more bidders are found in collusion between /among themselves with the intent to reduce competition, set price, share technical expertise ,share business information /decision ,control/share production and or distribution of products and raise prices ,all such tenders shall be out rightly rejected.
31.	If at any stage of tender process any bidder/s is/are found influencing any Government Servant associated with or handling the tender process and supplies thereof, bid of such tenderer/s shall be rejected besides invoking penal action under rules.

32.	All legal proceedings arising out of any dispute between the parties shall have to be settled in the Courts situated in Srinagar and Jammu and not elsewhere
33.	It shall be incumbent upon the supplier to provide entire supply, in conformity with the approved sample, strictly as per the specifications provided in the NIT/supply order. Supplies found deficient in quality /quantity viz-a-viz supply order shall be rejected. Penalty/damages would be imposed and recovered from the bidder as per terms and conditions indicated in the supply order.
34.	The supplier shall not sublet the contract or any part thereof to any other agency
35.	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 sample & specifications they shall be rejected and at our absolute discretion, rejected stores may be allowed to be made good by way of replacement. The loss caused due to rejection of the supplies shall be entirely borne by the supplier. The rejected articles 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 purchaser.
36.	The Department reserves the right to add or suitably modify the terms and conditions (without prior notification) as per exigencies and hence above shall not be construed as all inclusive.
37.	Bidders submitting their bids on-line shall only be accepted and manual bids shall be rejected and no document other than mentioned in the NIT shall be accepted manually.
38.	PHQ may call any bidder at any stage of the tender process for seeking any clarification.
39.	The bidder should furnish an undertaking APPENDIX-II of this NIT stating that he /she is not connected in any manner with any other bidder in this tender with respect to manufacturing ,distribution, supply, in sharing business information/documents price of the item etc. for the items quoted in this bid. If this is found to be incorrect, his/her tender would be rejected.
40.	The detailed NIT, SBD and BOQ are available on J&K State e-Procurement portal www.jktenders.gov.in .


 Sheikh Junaid Mahmood
 (AIG Provision/Transport)
 PHQ J&K

APPENDIX-I

MANUFACTURER'S AUTHORIZATION LETTER/CERTIFICATE;

To,

The Director General of Police
J&K, Jammu.

Subject:- _____

Sir,

Please refer to your e-tender enquiry (NIT) No- 46 of 2017 dated 23 .12.2017.

1. We _____ who are proven and reputable Manufacturers of _____ (name and description of the goods offered in the tender) having factories at _____ hereby authorize M/s _____ (name and address of the agent) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender enquiry documents for the above said goods manufactured by us.
2. We also hereby extend our full warranty, CMS, support as per the conditions of contract, read with modifications, if any, in the special conditions of contract for the goods and services offered for supply by the above firm against this tender enquiry document.

Yours faithfully,

Signature with date, name and designation

For and on behalf of M/s _____

(Name and address of the Manufacturers)

Note:-

- a. This letter should be on the letter head of the manufacturing firm and should be signed by the person who is competent having the power of attorney.
- b. Scan copy of the original letter must be attached with tender documents.

SIGNATURE OF THE TENDERER.

APPENDIX-II

Reference e.NIT No 46 of 2017 dated 23 .12.2017.

To,

The Director General of Police
J&K, Jammu.

Sir,

1. I _____ hereby state that I am not connected in any manner with any other bidder in this tender with respect to manufacturing distribution, supply, in sharing business information/documents and price of the items etc. quoted in this bid.
2. I further state that if this is found to be correct, the police department is at liberty to reject my tender.
3. I further certify that my concern has neither blacklisted nor banned by any central or state organizations to participate in tendering process.

Yours faithfully,

Signature with date, name and designation

For and on behalf of M/s _____

(Name and address of the tenderer)

Note:-

- a. This undertaking should be on the letter head of the tenderer firm and should be signed by the authorized person.
- b. Scan copy of the original letter must be attached with tender documents.

APPENDIX-III

Performance statement for last two years

Name of the firm	
Description of stores	
Quantity on order	
Value	
Original D.P	
Quantity supplied within original D.P	
Final Ext D.P.	
Last supply position.	
Reasons for delay in supplies (if any)	
Past performance in % age upto 2 crores	
Past performance in % age above 2 crores	

Signature of Tenderer

APPENDIX-IV

General instructions/CHECK LIST FOR TENDERERS;

Before submission of tender documents, the tenderers should check whether they have complied with the following requirements or otherwise:-

<u>S.No</u>	<u>Requirement to be checked before submission of the tender</u>	<u>Complied</u> <u>(Please indicate YES</u> <u>or NO after</u> <u>complying with the</u> <u>requirement.</u>
1.	The tenderers for their own ease shall fill in relevant details of NIT offline & upload the same after ensuring accuracy	
2.	Whether tender fee scan copy is enclosed, with the technical bid?	
3.	Whether Earnest Money Deposit (EMD) scan copy is enclosed with the technical bid?	
4.	If an SSI Unit of J&K State, the same is indicated in the tender and scan copy of the valid registration/functional certificate is enclosed or not?	
5.	Whether list of the quoted items with name, make, model and catalogue/brochures of the quoted items are uploaded with technical bid?	
6.	Whether scanned copies of complete tender documents are up-loaded in the technical bid duly signed having official seal on all pages or not. However, the quoted items may be also be ticked?	
7.	Whether tender documents are submitted in two bid system i.e. Technical and Financial Bids separately as per tender enquiry or not?	
8.	Wherever asked to deposit the samples, whether sample conforming to the specifications has been deposited with Central Store Srinagar/Srinagar (as asked for in the specifications of item)?	
9.	Whether offer validity as required in tender enquiry is accepted and indicated in your tender document or not?	
10.	Whether terms of delivery and period as required in tender enquiry is accepted and indicated in your tender document	

	or not?	
11.	Whether payment terms as required in the tender enquiry is accepted and indicated in your tender document or not?	
12.	Whether compliance statement in the format as required in tender enquiry is enclosed with the supporting catalogue/ brochures?	
13.	Whether performance statement for last 2 years as required in tender enquiry in the format is enclosed or not. If not, reason thereof is given?	
14.	Whether warranty period as required in the tender enquiry is accepted or not?	
15.	Whether details of AMC condition after warranty period (wherever applicable) is included in the price bid or not, if required in the tender enquiry?	
16.	(a) Status of tenderer as to whether manufacturer or authorized agent of the manufacturer is indicated in the tender document. If authorized agent/dealer, valid authority letter for the stores offered from the manufacturer is enclosed or not. (b) If an Indian agent of foreign principal, whether the firm is enlisted with DGS&D under compulsory enlistment scheme or not. Copy of valid DGS&D enlistment certificate as Indian Agent of Foreign Principal is enclosed or not. If not, reason thereof is given in tender document or not?	
17.	If called for in the T.E. whether acceptance of functional demo/field trial clause, (whenever asked) is specified in your tender document or not?	
18.	If called for T.E. whether free training about use of equipment after supply, is accepted or not?	
19.	Whether indicated in the tender document, if your firm's business dealings is banned by any Govt/Private agency or recommended for blacklisting or not?	
20.	The complete commercial quote should be in Indian Rupees only. Currency of price should be clearly mentioned (wherever applicable).	
21.	Tenderers are required to indicate Basic Rate, Custom Duty, Excise Duty, Sales Tax/GST and any other leviable taxes/charges separately in the relevant columns of the BOQ.	

22.	Entry Tax/Octroi/Toll Tax and other Statutory Taxes will be applicable at actual supported by the original documents , if admissible	
23.	Tenderer will attach justification of price quoted which should include the recently executed contracts of the store in question with Govt/Semi Govt Organizations etc.	
24.	No column should be left blank. Wherever amount is not quoted, the column should be clearly marked as 'Nil'.	

List of sensitive and non sensitive documents

S. No	Sensitive Documents part of Technical bid	Non Sensitive Documents
1.	Valid registration certificate/industrial license of original manufacturer for the items quoted	Performance statement of two years
2.	Valid authorization letter of original manufacturer in case of approved dealer	Govt. supply orders for same if any
3.	Valid registration certificate of approved dealer with central/state sales tax department for the items quoted	Income tax clearance
4.	Test report, if required/asked for	
5.	VAT clearance	
6.	SSI unit -registration certificate (local SSI units of J&K State only)	
7.	SSI unit - functional certificate (local SSI units of J&K State only)	
8.	Scanned copies of EMD and Tender Fee	
9.	Scanned copy of NIT duly Signed & sealed	

Annexure -A of e.tender No 46 of 2017 dated 23 .12.2017

Item No 01 HF Transceiver

Qty 20 No

S.No	Parameter	Specifications
01	General	
	Frequency Range	2 MHz to 29.999MHz
	Modes	SSB (USB,LSB), CW,AM.
	Input power	12Volt DC Nominal (10.8V to 14.4V)
	Frequency Stability	±1 PPM or Better
	Antenna Impedance	50 Ohm
	Programming	PC Programming Software and Front Panel Programming
	Visual Display	LCD with backlit
	Protection	Reverse Polarity Protection
02	Receiver	
	Sensitivity	0.25µv in SSB/CW or better 2.5 µv in AM or better
	Image Rejection	>70dB or better
	Audio Output	≥2 Watt
03	Transmitter	
	RF Power output	100 Watt Adjustable (Low, Medium, High)
	Microphone Impedance	600 Ohm
	Carrier Suppression	≥40dB or Better
04	Accessories	
	AC/DC Power supply	13.8 Volt DC≥25A (Compatible with Transceiver) DC Power supply should immediately switchover to battery mode during Power failure and Vice versa.
	Antenna	Compatible Broadband Antenna with Automatic Antenna tuner, if required.
	RF Low loss cable	30 Meters Low loss cable fitted with suitable connectors
	Programming Kit	04 No's Software Programming Ribs with Software .
	Programming	Front Panel & PC Programming
05	Compatible Headset	01 No. compatible Headset with each Transceiver
	Compatibility	The transceiver should be Compatible with existing HF transceivers of J&K police.

Item No 02 HF Transceiver (Man Pack)

Qty 10 No

S.No	Parameter	Specifications
01	General	
	Frequency Range	2 MHz to 29.999MHz
	Modes	SSB (USB,LSB), CW,AM.
	Input power	12Volt DC Nominal (10.8V to 14.4V)
	Frequency Stability	±1 PPM or Better
	Antenna Impedance	50 Ohm
	Programming	PC Programming Software and Front Panel Programming
	Visual Display	LCD with backlit
	Protection	Reverse Polarity Protection
02	Receiver	

	Sensitivity	Less than 0.25 μ v in SSB/CW Less than 2.5 μ v in AM
	Image Rejection	>70dB or better
	Audio Output	\geq 2 Watt
03	Transmitter	
	RF Power output	5-25 Watt Adjustable (Low, Medium, High)
	Microphone Impedance	600 Ohm
04	Accessories	
	Battery supply	Battery 12.6 Volt DC \geq 25A (Compatible with Transceiver)
	Antenna	Compatible foldable fully automatic Antenna with ATU
	Must be provided with	Carry bag
	Programming Kit	04 No's Software Programming Ribs with Software.
	Programming	Front Panel & PC Programming
	Compatible Headset	01 No. compatible Headset with each Transceiver
05	Compatibility	The transceiver should be Compatible with existing HF transceivers of J&K police.
06	Environmental	MIL -STD_810F including shock, vibration, humidity, immersion, altitude, fungus, dust, blowing dust etc

Item No 03 DIGITAL VHF STATIC HIGH BAND TRANSRECEIVER Qty 150 No

S.NO	Parameters	Specification
1	General	
	Frequency Range	136-174 MHz (Full Band)
	No. of Channels	255 or higher
	Channel Spacing	12.5 KHz or better
	Frequency Stability	±1.5 PPM or better (Certificates Required)*
	Protocol & Technology	Digital TDMA Two slot Technology or better in simplex and Repeater mode also (Certificates Required)*
	Types of Emission(Modulation)	Analog: 11K0F3E Digital: 4FSK or equivalent technique complying to open standard (Certificates Required)*
	Type of Operation	Simplex, Press to talk
	Power Source	13.8 Volt DC ±15%
2	Protection	(i) Reverse Polarity Protection (ii) Protection against high VSWR
	Transmitter (Certificates Required)*	
	R.F Power Output	≥25 Watt (Programmable/Selectable)
	FM Hum/Noise	-40 dB or better
	Modulation Limiting	±2.5 KHz @ 12.5KHz
	Adjacent Chanel Power	-60dB or better
	Audio Distortion	Less than 3%
3	Receiver (Certificates Required)*	
	sensitivity	i) Analog: 0.30 μV ii) Digital: 0.30 μV
	Selectivity(Adjacent Channel)	60 dB or better
	Inter Modulation	70 dB or better
	Audio Output	3W or better
	Audio Response	+1,-3dB
	Rated Audio Distortion	Less than 3%
4	Environmental Specifications (Certificates Required)*	
	i).Operating Temperature	-30 °C to + 60 °C
	ii).Storage Temperature	-40 °C to + 70 °C
	iii).Humidity	Max. 95% @ +40 °C non condensing.
	iv).Environmental Standard i.e. Low & High Temperature, Low pressure, Temperature, Shock Solar Radiation, Rain, Salt Fog, Vibration, Dust & Shock	As per MIL 810 C, D, E, F (Bidder to enclose ILAC/NABL Lab report for MIL Standard for offered Radio models only).
	Dust & Water Intrusion	IP 54 or better
5	Accessories	
	Microphone	DTMF Microphone should be supplied with Radio
	Battery Cable & Mounting fixtures	Should be supplied with Radio
	Antenna	0dB/3dB unity gain whip antenna with 3 meter Co-axial cable fitted with suitable connectors, magnetic base/ Mounting bracket for vehicle use.
	Programming Kit	05 No. programming software and hardware kit with the consignment.
	Literature	i) Users 'manual with each radio sets should be provided free of cost in hard copy. ii) 05 NO.Technical repairing manual with complete block diagram, circuit layout etc should be provided in soft and hard copy with the consignment.
6	Features	
	Remote Radio Kill/Stun/Revive facility	Should be available
	Mode of operation	Radio should operate in analog mode and digital mode.(Compatible with existing all type of VHF analog radio

		sets.
	Caller ID display	Should be available
	Busy channel lock out	Should be available
	Scan	Should be available
	Transmitter Time Out Timer (TOT)	should be available.
	LCD Display	Should be available
	Mode of calls	All call , Group Call , Selective Call facility.
7	Networking	Should be IP Based
<p>Important Note: - The offered item must be listed in DMR Association.</p> <p>* Firm must furnish certificate of any Govt. Accredited Lab or National Accreditation Board for Testing and Calibration Laboratories (NABL) approved Laboratory or International Laboratory Accreditation Corporation (ILAC) approved Laboratory.</p> <p>The radio set should have provision of standard facility for installation of encryption device. Till SAG approved encryption is made available the vendor will provide commercial grade 256 Bit AES encryption. The commercial grade encryption will be deleted by the vendor at no extra cost at the time of fitment of SAG approved encryption.</p>		

Item No 04 DIGITAL VHF HAND HELD HIGH BAND RADIO SET Qty 250 No WITH CHARGER & SPARE BATTERY PACKS (Those Firm which have deposited their Samples in CSJ do not require to deposit again)

S.No.	Parameters	Specification
	General	
1	i) Frequency Range	136 – 174 MHz (Full Band)
	ii) No. of channel	255 or more
	iii) Channel spacing	12.5 KHz or better (Certificates Required)*
	iv) Frequency Stability	± 1.5 PPM or better (Certificates Required)*
	v) Protocol & Technology	Digital TDMA Two slot technology or better in simplex and repeater mode also. (Certificate Required)*
	vi) Type of Emission (Modulation)	Analog: 11K0F3E Digital: 4FSK international standards (Certificate Required)*
	vii) Type of operation	Simplex press to talk
	viii) Type of Antenna	Rugged flexible Helical Antenna
	x) Power source	Ni-Mh or Lithium-ion or Li-polymer battery pack of 2000 mAh or more with belt clip (Bidder shall mention DC voltage).
	xi) Protection	i. Reverse polarity protection ii. Protection against high VSWR
2.	Transmitter (Certificates Required)*	
	i) RF Power output	1 to 5 watt (programmable/ selectable)
	ii) FM Hum /Noise	-40 dB or better
	iii) Modulation Limiting	± 2.5 KHz @ 12.5 KHz.
	iv) Adjacent Channel power	60 db or better
	v) Audio Distortion	Less than 3%
3	Receiver (Certificates Required)*	
	Sensitivity	i) Analog:- 0.30µv ii) Digital :- 0.30µv
	ii) Selectivity Adjacent channel	60 dB or better
	iii) Inter modulation	60 dB or better
	iv) Audio output	500mW or higher
	v) Audio response	+ 1, -3 dB
	vi) Rated Audio Distortion	Less than 3%
4	Environmental Specifications (Certificates Required)*	
	i) Operating Temperature	-30 °C to + 60 °C
	ii) Storage Temperature	-40 °C to + 70 °C
	iii) Humidity	Max. 95% @ +40 °C non condensing

5	iv) Environmental standard i.e.) low & high Temperature, Low pressure, Temperature Shock , Solar Radiation ,Rain , Salt fog , Vibration, Dust & shock.	As per MIL 810 C,D,E,F (Bidder to enclose ILAC/NABL Lab report for MIL Standard for offered Radio models only).
	v) Dust & water Intrusion	IP 57 or better
5	Accessories	
	i) Battery Charger	Single unit smart charger (capable to charge Lithium-Ion, Ni-MH, Lithium- Polymer batteries.)
	ii) Programming kit	05 No. programming software and hardware kit with the consignment.
	iii) Literature	i) Users 'manual with each radio sets should be provided free of cost in soft as well as hard copy. ii) 05 NO. Technical repairing manual with complete block diagram, circuit layout etc should be provided in soft and hard copy with the consignment.
	iv) Battery	Spare Battery pack Lithium-Ion, Ni-MH, Lithium- Polymer 2000 mAh or above with each radio set.
v) Leather case (Optional)	One good quality leather case with belt clip and shoulder strip.	
6	Features & Configuration	
	i) Caller ID display	Should be available
	ii) Facility for Locking the Channel or Key Pad Locking	Should be available
	iii) Scan	Should be available
	iv) Transmitter Time Out Timer (TOT)	Should be available
	v) LCD Display	Should be available
	vi) Mode of calls	All call , Group Call , Selective Call facility
	vii) Remote Radio Kill/Stun/Revive facility	Should be available
	viii) Mode of Operation	Radio should operate in Analog mode and Digital mode.(Compatible with existing all type of VHF analog radio sets viz. Motorola, ICOM, Kenwood etc.)
	ix).Emergency Button	Allows a user to obtain help in critical situations.
	x) SMS Texting	Should be capable of sending predefined and editable short messages from the keypad.
	xi) Programming	Front Panel programming with password protection or PC Programming.
	xii) DTMF Front Panel keypad with backlit	Should be available
	xiii) Battery Strength bar	Should be available
	xiv) Support GPS	Inbuilt GPS System with accuracy of less than 10 meters.
	xv).GIS	Radio should have application protocol interface along with software applications to provide locations and messaging on PC.
xvi) Networking	Should be IP based for automatic roaming etc..	

Important Note:- The offered item must be listed in DMR Association.

* Firm must furnish certificate of any Govt. Accredited Lab or National Accreditation Board for Testing and Calibration Laboratories (NABL) approved Laboratory or International Laboratory Accreditation Corporation (ILAC) approved Laboratory.

The radio set should have provision of standard facility for installation of encryption device. Till SAG approved encryption is made available the vendor will provide commercial grade 256 Bit AES encryption. The commercial grade encryption will be deleted by the vendor at no extra cost

at the time of fitment of SAG approved encryption.

Item No 05 VHF LOW BAND STATIC TRANSRECEIVER Qty 105 No

SPECIFICATIONS:-

GENERAL

Frequency Range	66 to 88 MHZ
No. of channel	More than 26
Power Supply requirement	12V DC
Channel spacing	12.5 KHZ & 25 KHz
Frequency Stability	± 3PPM (Certificate Required)*
Adjacent Channel selectivity	>60dB (12.5 KHz) >70dB (25 KHz)
Rx Sensitivity	Better than 0.3 µV
R.F Output	25 Watt Programmable/selectable
Audio Output	≥ 3 Watt
Speaker	Inbuilt
Antenna impedance	50 Ohm
Dust and Water protection	IP54 (Certificate required)*
Operational Temperature	-25°C to +55°C
Storage Temperature	-30°C to +60°C

FEATURES

1. P.C Programmable.
2. Reverse Polarity/Low voltage protection.
3. LCD Display.
4. DTMF Front Panel keypad with backlit.

ACCESSORIES

1. Hand set.
2. DC cable with fuse.
3. 0dB unity gain Whip antenna with 03 meter Co-axial cable fitted with suitable connectors
with Mounting bracket for vehicle use as per requirement.
4. Handset mounting bracket with screws.
5. Mounting bracket with screws for mobile radio.
6. Technical manual 05 No's with the consignment.
7. Programming Software with RIB 05 Nos. with the consignment.
8. Users manual with each radio set should be provided free of cost in hard copy.

Note:-

The radio should be compatible with existing analog Radio Network of J&K Police.

The Radio should also be compatible with our existing DATA Communication System using Radio Modems.

* Firm must furnish certificate of any Govt. Accredited Lab or National Accreditation Board for Testing and Calibration Laboratories (NABL) approved Laboratory or International Laboratory Accreditation Corporation (ILAC) approved Laboratory

Item No 06 VHF LOW BANDS HANDHELD TRANSRECEIVER WITH CHARGER & SPARE BATTERY PACKS. (Those Firm which have deposited their Samples in Police CSJ do not require to deposit again) **Qty 100**

SPECIFICATIONS:-

GENERAL

Frequency Range :	66 to 88 MHZ
No. of channel:	More than 26
Charging System:	Single unit smart charger
Channel spacing:	25 KHz/12.5 KHZ Programmable
Frequency Stability	± 2.5PPM (Certificate Required)*
Rx Sensitivity:	Better than 0.3 µV
R.F Output:	1 to 5 Watt programmable / Selectable
Type of Antenna:	Rugged Flexible Helical Antenna
Battery Pack:	NI-Mh or Lithium-ion or Li-polymer battery pack of 2000 mAh or more (Battery Back-up ≥ 8 Hrs).

FEATURES

1. P.C Programmable
2. User Friendly
3. LCD Display
4. Low Voltage indication
5. Battery strength Bar
6. DTMF Front Panel keypad with backlit

ACCESSORIES

1. Rugged Flexible Helical Antenna
2. Spare Battery Pack (Ni-Mh or Lithium-ion or Li-polymer battery pack of 2000 mAh or more.
3. Battery Charger (capable to charge Ni-Mh or Lithium-Ion, Lithium-Polymer batteries)
4. Belt Clip
5. Technical manual 05 Nos. with the consignment.
6. Programming Software with RIB 05 No's with the consignment.
7. Users manual with each radio set should be provided free of cost in hard copy.

Note:-

The radio should be compatible with existing analog Radio Network of J&K Police.

* Firm must furnish certificate of any Govt. Accredited Lab or National Accreditation Board for Testing and Calibration Laboratories (NABL) approved Laboratory or International Laboratory Accreditation Corporation (ILAC) approved Laboratory

Item No 07 VHF High Band Repeaters

Qty 07 No

SPECIFICATIONS:-

General:-

- | | |
|--------------------------------|--|
| 1. Frequency Range | 136-174 MHz |
| 2. No of channels | 32 or more. |
| 3. Mode of Operation | Semi Duplex |
| 4. TX/ RX Frequency separation | 05 MHz |
| 5. Power Supply Requirement | 12 Volts DC (There should be provision to shift Automatically on DC supply during mains failure & shifted on |
| 6. Channel Spacing | when mains supply restored it should be mains from DC supply.) |
| 7. R F output | 12.5 KHz/25 KHz. |
| 8. Receiver sensitivity | 25 Watts to 50 Watts adjustable |
| 9. Audio output | Better than 0.25µv |
| 10. Speaker | 3 to 4 Watts |
| 11. Impedance | Inbuilt |
| 12. Programming | 50Ω |
| 13. Protection | PC programming |
| 14. Switching Band width | Reverse polarity/low voltage protection |
| | Full Band |

Accessories

1. Hand set
2. DC cable with fuse
3. Operating/ Technical manual
4. Programmable kit complete
5. Half inch Dia LDF cable 30 meters long roll fitted with suitable connectors.
6. 3db/ 6dB gain GP Antenna complete with mounting brackets (Branded)

Item No 08 VHF Low Band Repeater

Qty 05 No

Specifications

General:-

- | | |
|--------------------------------|---|
| 1. Frequency Range | 66-88 MHz |
| 2. No of channels | 32 or more. |
| 3. Mode of Operation | Semi Duplex |
| 4. TX/ RX Frequency separation | 05 MHz |
| 5. Power Supply Requirement | 12 Volts DC (There should be provision to shift |

mains

automatically
on DC supply during mains failure & when

supply
restored it should be shifted on mains from DC
supply.)

6. Channel Spacing

12.5 KHz.

7. R F output

25 Watts/50 Watts switchable

8. Receiver sensitivity

Better than 0.25µv

9. Audio output

3 to 4 Watts

10. Speaker

Inbuilt

11. Impedance

50Ω

12. Programming

PC only

13. Protection

Reverse polarity/low voltage protection

14. Switching Band width

Full Band

Accessories

1. Hand set

2. DC cable with fuse

3. Operating/ Technical manual

4. Programmable kit complete

5. Half inch dia LDF cable 30 meters long roll fitted with suitable connectors.

6. 3db gain GP Antenna complete with mounting brackets (Branded)

Item No 09 DIGITAL VHF REPEATER SET

Qty 06 NO

(Those Firm which have deposited their Samples in Police CSJ don not require to deposit again)

S.NO	Parameters	Specification	
1	General		
	i.Frequency Range	136-174 MHz (Full Band)	
	ii.No. of Channels	16 or higher	Certificate to be furnished
	iii.Channel Spacing	12.5 KHz or better	
	v.Frequency Stability	±1.5 PPM or better	
	Protocol & Technology	TDMA technology	
	Types of Emission(Modulation)	Analog: 11K0F3E Digital: 4FSK or equivalent technique	Certificate to be furnished
	Power Source	i.13.8 Volt DC ±15% ii. Ac-230volt ± 15% , 50 Hz iii. There should be provision to shift automatically on DC supply during mains failure & when mains supply restored it	

		should be shifted on mains from DC supply. Inbuilt with Float charger	
	Protection	(i) Reverse Polarity Protection (ii) Protection against high VSWR	
2	Transmitter		
	i.R.F Power Output	45 Watt Programmable/Selectable)	Certificate to be furnished
	ii.FM Hum/Noise	-40 dB or better	
	iii.Modulation Limiting	±2.5 KHz @ 12.5KHz	
	iv.Adjacent Chanel Power	-60 dB or better	
	v.Audio Distortion	Less than 3%	
3	Receiver		
	i.sensitivity	i) Analog: 0.30 μ V or better ii) Digital: 0.30 μ V or better	Certificate to be furnished
	ii.Selectivity(Adjacent Channel)	60 dB or better	
	iii.Inter Modulation	70 dB or better	
	iv.Audio Response	+1,-3dB	
	v.Rated Audio Distortion	Less than 3%	
4	Environmental Specifications		
	Operating Temperature	-30°C to +60°C	Certificate to be furnished
	Storage Temperature	-40°C to +70°C	
	Humidity	Max. 95% @ +40°C non-condensing	
5	Networking	Should be capable to support IP site connects, auto switching and auto routing	
6	Interface	1 nbuilt Ethernet port a) Wide area IP connectivity for voice and DATA. b) Remote monitoring and status check. c)	

7.1	Accessories	
7.1	Battery Cable & Mounting fixtures	Should be supplied with the Repeater
7.2	Antenna	3dB / 6dB gain Omni Directional antenna with 30 meter long roll, half inch dia LDF cable with suitable connectors, for base station.
7.3	Programming Kit	03 No's of programming software and hardware kit with the consignment
7.4	Literature	<p>i) Users manual with each repeater sets should be provided free of cost in soft as well as hard copy.</p> <p>ii) 03 No's of Technical repairing manual with complete block diagram, circuit layout etc should be provided in soft as well as hard copy.</p>
7.5	Weight	Less than 10 KG
<p>Note:- The offered item must be listed in DMR Association.</p> <p>* Firm must furnish certificate of any Govt. Accredited Lab or National Accreditation Board for Testing and Calibration Laboratories (NABL) approved Laboratory or International Laboratory Accreditation Corporation (ILAC) approved Laboratory mentioned against each above.</p> <p>Support for spares for at least 10 years</p> <p>Training :- onsite technical and operational training</p>		

Item No 10 Analog and Digital HF, VHF & UHF wide band Surveillance Receiver
Technical specifications

Qty 05 No

S.No	Specifications	H.F	VHF & UHF	
1	a	Frequency Range	0.15 MHz to 30 MHz	
			30 MHz to Minimum 2500 MHz	
		i.	Frequency setting by key pad or roll key	Continuous tuning facilities for slow and fast tuning
		ii.	Frequency digital read out in control Panel	Should be provided
				Should be provided
	b	Frequency Stability	± 0.5 PPM or better	± 1 PPM or better
	c	Frequency Resolution	1 Hz or Better	10 Hz or Better
	d	Scan Characteristics		
		i.	Scanning Speed	40 Channels/ seconds or more
		ii.	Intercepting Scanning Speed	50 MHz / Seconds or Better
		iii.	Automatic Memory Scan	More than 10000 definable memory locations, up to 1000 channels/ seconds
	e	Demodulation Mode	AM FM,PM,USB,LSB,ISB,NBFM,WBFM,, FSK,PCM,OOK,AFSK,GFSK,BFSK,QPSK,BPSK,BMSK,MSKI,QAM,16QAM(The requirement of additional hardware/software if required should be provided by the firm in view of the PCM scheme).	AM FM,PM,USB,LSB,ISB,NBFM,WBFM,, FSK,PCM,OOK,AFSK,GFSK,BFSK,QPSK,BPSK ,BMSK,MSK,QAM,16QAM(The requirement of additional hardware/software if required should be provided by the firm in view of the PCM scheme).
	f	Overall noise figure	10 db or better	8 db or better
	g	Sensitivity	CW:- 0.3 µV or better, SSB:- 1.0 µV or better AM:-4.0 µV or better	SSB:- 2.0 µV or better
	h	IF Filters	Unlimited	Unlimited
	I	IF Rejection	≥ 100db	≥ 100db
	J	Image Rejection	≥ 100db	≥ 80db
	K	Spurious Rejection	≥ 80db	≥ 80db
	L	Capability to detect Signals	100 milliseconds	100 milliseconds
	m	Capability to detect FH Signals	50 hops/Seconds or better	300 hops/seconds or better
O	Spurious free Dynamic Range	≥ 80 db	≥ 75 db	
P	AF Output	LS ≥ 2 watts across 8 ohm impedance Hp:- 0Dbm, 600 ohm	LS ≥ 2 watts across 8 ohm impedance Hp:- 0Dbm, 600 ohm	
Q	Audio Distortion	Less than 1 % for rated audio output	Less than 1 % for rated audio output	
R	AGC	Better than 90 db	Better than 90 db	
S	AFC	Digital tuning facilities for signals of unstable strength	Digital tuning facilities for signals of unstable strength	
t	Antenna	Complete suitable antenna system (Bidder to specify the type and number antennae)		
2		Environmental requirement	As per JSS 55555 specifications / MIL std 810 D or higher	
	a	EMC	486 C or equivalent	
	b	Operating temperature	-10°C to ± 50 °C	
	c	Storage temperature	-30°C to ± 70 °C	
	d	Relative Humidity	95% maximum non condensing at 40 °C	
3		Power supply		
	i	Power supply	i). AC 230 volts±10% , 50 Hz ±3 over voltage protection ii). 12/24 volts DC operated or both reverse polarity protected	
4		Other characteristics	The receiver should have all demodulations schemes and digital filtering in computed within software as per JTRS recommendations	
	a	Real time spectrum display of all data (time domain and frequency domain display) with recording capabilities.		
	b	Built in test equipment (BITE) facilities to locate faulty module and card		

c	Accurate measurements of Mod. Depth /range with various modulation frequencies in AM,FM,PM and other digital mode, signal level and field strength
d	System operation should be performed through PC compatible workstations having user friendly man- machine inter face executing menu driven commands either through mouse or keyboard operations, application software operating under windows platform
e	System should provide facilities for skipping at least 100 friendly frequency spots , frequency settable by the operator.
f	Operator posted on the system should be able to configure HF, VHF/UHF as per requirement independently and should receive both digital and analog signals. System should be provided with recording and listening facility.
g	System function will include the following facilities in predetermined frequency bands and per determined Geographic regions. Automatic rejection of Known/ not interested signals. Very fast scan of useful signal of short transmission (less than 10 milliseconds) for frequency hopping sets.
h	Multi Channel (At least 04 Channels) audio recording and DATA accumulation and analysis facilities. Recording capability of minimum 500 GB or more. System software should support higher recording capacity if required (Software should make it possible to record and play back the received signals). Provision for CD Backup should also be available.
i	Multiple mode function display in PC with SVGA with high definition screen. System software be able to able to control the function of the receiver for scanning automatic station identification, memory channel managements, spectrum and frequency display decoder control and other function required for effective monitoring of the transmission.
j	System should have high sensitivity and dynamic range for processing of low level signals in dense radio environments. Minimum signal presence of 100 milliseconds should be sufficient for capturing the signal.
k	System should have provision of Visual/ audible alarm for operator when some target frequency activated.
l	System should have facility for panoramic display.
m	System should have MTBF (mean time between failures) of more than 10000 hours.
n	The system should have flexibility depending on SDR (Software defined Radio) architecture.
o	
5	General Conditions
a	On site comprehensive warranty/ Guaranty for a period of minimum two years for the whole system from the date of its successful installations/ acceptance at earmarked locations.
b	The intending firm should have experience in maintaining similar type of systems/ equipments
c	The intending firm should give undertaking for supply of spare parts as and when required by the user for at least 10 years.
d	Fault finding and general operational training of the system to the operational staff should be provided by the firm at Jammu/ Srinagar for duration of at least one week.
e	i) User's manual with each system should be provided free of cost in soft as well as hard copy. ii) 02 No's of Technical repairing manual with complete block diagram, circuit layout etc should be provided in soft as well as hard copy with the consignment.

Item No 11. DIGITAL UHF HAND HELD HIGH BAND RADIO SET

Qty 50 No

WITH CHARGER & SPARE BATTERY PACK. (Those Firm which have deposited

their Samples in Police CSJ don not require to deposit again)

S.No.	Parameters	Specification
	General	
1	ii) Frequency Range	403 – 470 MHz (Full Band)
	ii) No. of channel	255 or more (Certificates Required)*
	iii) Channel spacing	12.5 KHz or better (Certificates Required)*
	iv) Frequency Stability	± 1.0PPM or better (Certificates Required)*
	v) Protocol & Technology	Digital TDMA Two slot technology or better in simplex and repeater mode also. (Certificate Required)*
	vi) Type of Emission(Modulation)	Analog: 11K0F3E Digital: 4FSK international standards (Certificate Required)*
	vii) Type of operation	Simplex press to talk
	viii) Type of Antenna	Rugged flexible Helical Antenna
	x) Power source	Ni-Mh ,Lithium-ion or better battery pack of 2000 mAh or more with belt clip (Bidder shall mention DC voltage).
	xi) Protection	i. Reverse polarity protection ii. Protection against high VSWR
2.	Transmitter (Certificates Required)*	
	i) RF Power output	1 to 4 watt (programmable/ selectable)
	ii) FM Hum /Noise	-40 dB or better
	iii) Modulation Sensitivity	2 to 10 mV
	iv) frequency deviation	± 2.5 KHz @ 12.5 KHz.
	v) Audio Distortion	Less than 3% @ 1 KHz
3	Receiver (Certificates Required)*	
	Sensitivity	i) Analog:- 0.35µV or better. ii) Digital :- 0.30µV or better
	ii) Selectivity Adjacent channel	60 dB or better
	iii) Inter modulation	60 dB or better
	iv) Audio output	500mW or higher
	v) Audio response	+ 1, -3 dB
4	Environmental Specifications (Certificates Required)*	
	i). Operating Temperature	-30 °C to + 60 °C
	ii). Storage Temperature	-40 °C to + 70 °C
	iii). Humidity	Max. 90% @ +50 °C
	iv) Environmental standard i.e.) low & high Temperature, Low pressure, Temperature Shock , Solar Radiation ,Rain , Salt fog , Vibration, Dust & shock.	As per MIL 810 C,D,E,F (Bidder to enclose ILAC/NABL Lab report for MIL Standard for offered Radio models only).
	v) Dust & water Intrusion	IP 54 ,IP 55 or better
5	Accessories	
	i) Battery Charger	Single unit smart Rapid charger (capable to charge Lithium-Ion, Ni-MH, Lithium- Polymer batteries.)
	ii) Programming kit	05 No. programming software and hardware kit with the consignment.
	iii) Literature	i) Users 'manual with each radio sets should be provided free of cost in soft as well as hard copy. ii) 05 NO. Technical repairing manual with complete block diagram, circuit layout etc should be provided in soft and hard copy with the consignment.
	iv) Battery	Spare Battery pack Lithium-Ion, Ni-MH, or better 2000 mAh or above with each radio set.
6	Features	
	i) Caller ID display	Should be available
	ii) Facility for Locking the Channel or Key Pad Locking	Should be available

iii) Scan	Should be available
iv) Transmitter Time Out Timer (TOT)	Should be available
v) LCD Display	Should be available
vi) Mode of calls	All call , Group Call , Selective Call facility
vii) Remote Radio Kill/Stun/Revive facility	Should be available
Viii) Mode of Operation	Radio should operate in Analog mode and Digital mode. (Compatible with existing all type of VHF analog radio sets viz. Motorola, ICOM, Kenwood etc.)
ix).Emergency Button	Allows a user to obtain help in critical situations.
x) SMS Texting	Should be capable of sending predefined and editable short messages from the keypad.
xi) Programming	Front Panel programming with password protection or PC Programming.
xii) DTMF Front Panel keypad with backlit	Should be available
xiii) Battery Strength bar	Should be available
xiv) Support GPS	Inbuilt GPS System with accuracy of less than 15 meters.
xv).GIS	Radio should have application protocol interface along with software applications to provide locations and messaging on PC.
xvi) Networking	Should be IP based for features like automatic roaming etc..

The radio set should have provision of standard facility for installation of encryption device. Till SAG approved encryption is made available the vendor will provide commercial grade 256 Bit AES encryption. The commercial grade encryption will be deleted by the vendor at no extra cost at the time of fitment of SAG approved encryption.

Item No 12 DIGITAL UHF 400 MHz STATIC/MOBILE HIGH BAND TRANSRECEIVER Qty 10 No
(Those Firm which have deposited their Samples in CSJ do not require to deposit again)

S.NO	Parameters	Specification
1	General	
	Frequency Range	403-470 MHz (Full Band)
	No. of Channels	256 or higher
	Channel Spacing	12.5 KHz or better (Certificates Required)*
	Frequency Stability	±1.0 PPM or better (Certificates Required)*
	Protocol & Technology	Digital TDMA Two slot Technology or better in simplex and Repeater mode also (Certificates Required)*
	Types of Emission(Modulation)	Analog: 11K0F3E Digital: 4FSK or equivalent technique complying to open standard (Certificates Required)*
	Type of Operation	Simplex, Press to talk
	Power Source	13.8 Volt DC ±10%
	Protection	(i) Reverse Polarity Protection (ii) Protection against high VSWR

2	Transmitter	Certificate required
	R.F Power Output	≥ 20 Watt (Programmable/Selectable)
	FM Noise	-40 dB or better
	Frequency Deviation	±2.5 KHz @ 12.5KHz
	Modulation Sensitivity	2 to 10 mV
	Modulation Distortion	Less than 3% @ 1 KHz
3	Receiver	(Certificates Required)*
	sensitivity	i) Analog: 0.30 μV or better ii) Digital: 0.30 μV or better
	Selectivity(Adjacent Channel)	60 dB or better
	Inter Modulation	65 dB or better
	Audio Output	3W or better
	Audio Response	+1,-3dB
4	Environmental Specifications	(Certificates Required)*
	i).Operating Temperature	-30 °C to + 60 °C
	ii).Storage Temperature	-40 °C to + 70 °C
	iii).Humidity	Max. 90% @ +50 °C.
	iv).Environmental Standard i.e. Low & High Temperature, Low pressure, Temperature, Shock Solar Radiation, Rain, Salt Fog, Vibration, Dust & Shock	As per MIL 810 C, D, E, F (Bidder to enclose ILAC/NABL Lab report for MIL Standard for offered Radio models only).
5	Accessories	
	Microphone	DTMF Microphone should be supplied with Radio
	Battery Cable & Mounting fixtures	Should be supplied with Radio
	Programming	PC Programming.
	Programming Kit	05 No. programming software and hardware kit with the consignment.
	Literature	i) Users 'manual with each radio sets should be provided free of cost in hard copy. ii) 05 NO.Technical repairing manual with complete block diagram, circuit layout etc should be provided in

		soft and hard copy with the consignment.
	Antenna	<ul style="list-style-type: none"> i. 0dB/3dB unity gain whip antenna with 3 meter Co-axial cable fitted with suitable connectors, magnetic base/ Mounting bracket for vehicle use. ii. 06 dB gain Omni Directional GP antenna with 30 meters RF cable for base station.
6	Features	iii.
	SMS Texting	Should be capable of sending predefined and editable short messages from the keypad
	Emergency Button	Allows a user to obtain help in critical situations.
	Mode of operation	Radio should operate in analog mode and digital mode.(Compatible with existing all type of UHF analog radio sets.
	Caller ID display	Should be available
	Scan	Should be available
	Transmitter Time Out Timer (TOT)	should be available
	LCD Display	Should be available
	Mode of calls	All call , Group Call ,Selective Call facility.
	Networking	Should be IP based
	Support GPS	Inbuilt GPS System with accuracy of less than 15 meters.
	GIS	Radio should have application protocol interface along with software applications to provide locations and messaging on PC.
	Remote Radio Kill/Stun/Revive facility	Should be available

Note:- The offered item should be listed in DMR Association.

*** Firm must produce certificate of any Govt. Accredited Lab or National Accreditation Board for Testing and Calibration Laboratories (NABL) approved Laboratory or International Laboratory Accreditation Corporation (ILAC) approved Laboratory**

The radio set should have provision of standard facility for installation of encryption device. Till SAG approved encryption is made available the vendor will provide commercial grade 256 Bit AES encryption. The commercial grade encryption will be deleted by the vendor at no extra cost at the time of fitment of SAG approved encryption.

Item No 13. Digital UHF Hand Held 800 MHz Transceiver Complete Qty 25 No

Specification

Frequency Range	806-870 MHz
Mode of operation	Analog and Digital
Protocol	TDMA 2 slot or better
No. of Channels	16 or more
R.F Power output	1- 2.5 Watts (adjustable) or more
Receiver sensitivity	
Analog	Better than 0.3 μ V
Digital	Better than 0.3 μ V
Audio output	500 mW or higher
Channel spacing	12.5 KHz
Water proof protection	IP54 or better
Charging system	Single unit rapid battery charger.
Battery pack	Li-ion/Ni-Mh rechargeable 7.2 Volts – 12 Volts 2000 mAh or more.

Features

1. PC programmable
2. Low Voltage protection
3. LCD display
4. The set should supplied GPS with accuracy < 10 meters, to enable being tracked from remote control station
5. The set should support SMS from key pad and pre defined messages.
6. Mode of calls- Selective call, Group call with ID facility.
7. Remote Radio Killing/Stun/ Revive facilities should be available.
8. Networking – IP based.
9. Secrecy – should provide inherent protection against casual eavesdropping.
10. The set should support Hands free Operation.

Essential Accessories:-

1. Rugged Flexible Helical Antenna.
2. Battery pack 2000 mAh or more LI-ion /Ni-Mh 7.2 volts to 12 volts with belt clip.
3. Spare battery pack of same specification as at Sl. No 02 above.
4. Battery charger (Rapid)

Essential Additional Requirement with the consignment:-

1. Programming hardware and software Kit complete 05 No's with consignment.
2. technical Manual 05 No's with consignment.
3. Users manual with each radio set.

Note:

- i. A certificate that the offered digital UHF hand held Radio is compatible with existing analog and digital UHF Radio network of J&K Police should be attached by the Tenderer with the technical bid.
- ii. **The offered item should be listed in DMR Association**
- iii. The firms may be called for trial of offered equipment at the time of technical evaluation on **No cost No commitment basis** so that field performance of the equipment can be ascertain

Item No 14 Packet Radio system complete with all required accessories.

Qty 20 No

General:-

Computer System : Processor i5 or above 4GB DDR RAM, 1TB HDD, DVD RW Drive, 21" inch TFT, internal PSTN Modem, 100/1000 Mbps LAN port, Multimedia Keyboard, Optical Mouse, External speakers & Windows 8 OS/10 , Mother board drivers and Antivirus software (Branded system, latest configuration preferred).

A:- MODEMS

1. Radio Modem speed up to 9.6 KBPS or above on VHF.
2. Both the Radio/PSTN modems must be capable to transmit/receive data in encryption mode through communication software provided.
3. The Offered Radio modem should be able to work on both analog and Digital Radio sets.
4. Operational /Technical manuals.

B:-Communication Software:-

Software with protocols PSTN, POLNET and DMP should be available .The software should be able to receive/transmit messages with built-in encryption. The offered system software should be fully compatible with existing VSAT, MCS software, DATA Byte Com, IDT & PSTN used by J&K Police.

- i. Automatic message switching software with different types of protocols including Polnet /Packet Radio/PSTN / and RS232.
 - ii. Configurable Message Scheduling/Message Priorities
 - iii. Message storage Facility- Unlimited with Archive facility.
 - iv. Log facilities (Tx, Rx, Failed/Print Messages) with date/time & acknowledgement.
 - v. Tool bar Icons for SEND,PRINT,CONNECT,DISCONNECT, LOG, ADDRESS DIRECTORY , EDITOR FOR Messaging , INBOX, OUTBOX, SENT MSG, Receive MSG and other features relating data communication.
 - vi. On Screen connection status viz IDLE,BUSY, Connecting Receiving and sending. User & admin password protected
 - vii. Message arrival indicator.
 - viii. Automatic re-routing of messages received from remote station, log file generation.
 - ix. Message transmits acknowledgement/failure indication
 - X. Required protocols for email applications.
- C.** 9 PIN 80 Column Dot Matrix Printer. (Reputed Brand)
- D.** UPS 2KVA **Line interactive (Reputed Make)** with minimum 2 hours Battery backup of reputed make with input from 140 volts to 260 volts AC, output 230 volts AC (50 Hz) & having protection against low voltage/over voltage, output Short Circuit, inverter shutdown.
It should indicate Mains On/Mains Normal /Load on battery etc.

normal charging)

Item No 15 Battery Chargers for APCOM AH-338 Hand held set Qty 50

Technical Specifications

- i. Input voltage 150- 250 volts Ac.
- ii. Battery charging capacity Up to 3000 mAh

Features:-

- i. Regulator circuit
- ii. Normal charging
- iii. Rapid charging
- iv. Mains indicator
Charging indicator (for Rapid as well as for normal charging)

Item No 16 Battery Chargers for APCOM P-318 Hand held set Qty 40

Technical Specifications

- i. Input voltage 150- 250 volts Ac.
- ii. Battery charging capacity Up to 3000 mAh

Features:-

- i. Regulator circuit
- ii. Normal charging
- iii. Rapid charging
- iv. Mains indicator
Charging indicator (for Rapid as well as for normal charging)

Item No 17 Battery Charger cum adopter for GP-338 Hand held set Qty 100

Technical Specifications

- i. Input voltage 150- 250 volts Ac.
- ii. Battery charging capacity Up to 3000 mAh

Features:-

- i. Regulator circuit
- ii. Normal charging
- iii. Rapid charging
- iv. Mains indicator
Charging indicator (for Rapid as well as for normal charging)

Item No 18 Battery Charger cum adopter for GP-300 Hand held set Qty 10

Technical Specification

- i. Input voltage 150- 250 volts Ac.
- ii. Battery charging capacity Up to 3000 mAh

Features:-

- i. Regulator circuit
- ii. Normal charging
- iii. Rapid charging
- iv. Mains indicator
Charging indicator (for Rapid as well as for normal charging)

Item No 19 Battery Charger cum adaptor for Hand held sets PX-777
Technical Specification

Qty80

- i. Input voltage 150- 250 volts Ac.
- ii. Battery charging capacity Up to 3000 mAh

Features:-

- i. Regulator circuit
- ii. Normal charging
- iii. Rapid charging
- iv. Mains indicator
- v. Charging indicator (for Rapid as well as for normal charging).

Item No 20 SMF Secondary battery (VRLA) 12 volts 100 AH Qty 500 (Tentative) (samples of at least one type of SMF Battery is to be deposited in Police Central Store Jammu. firms which have already deposited samples don not requires deposition of another sample)

The Sealed maintenance free 12 volts Battery having capacity of 100 Ah.

- i. Ampere Hour Capacity 100 Ah
- ii. Terminal Voltage 13.2 volts DC with +ve & -ve Terminal with indication
- iii. Container Strong and Rugged
- iv. Self discharge Very Very low

Note:- Battery SMF 12 volts 100 Ah must be made of reputed company & the label of the battery should be self descriptive type and specify following:-

Name of the manufacturer, Battery voltage & capacity, Year & date of manufacturing

Item No 21 SMF Secondary battery (VRLA) 12 volts 65 AH Qty 220 (Tentative)

The Sealed maintenance free 12 volts Battery having capacity of 65 Ah

- i. Ampere Hour Capacity 65 Ah
- ii. Terminal Voltage 13.2 volts DC with +ve & -ve terminal with indication
- iii. Container Strong and Rugged
- iv. Self discharge Very Very low

Note:- Battery SMF 12 volts 65 Ah must be made of reputed company & the label of the battery should be self descriptive type and specify following:-

Name of the manufacturer, Battery voltage & capacity, Year & date of manufacturing

Item No 22 SMF Secondary battery (VRLA) 12 volts 40 AH Qty 20

Technical Specifications

The Sealed maintenance free 12 volts Battery having capacity of 40 Ah

- i. Ampere-Hour Capacity 40 Ah
- ii. Terminal Voltage 13.2 volts DC with +ve & -ve terminal with indication
- iii. Container Strong and Rugged
- iv. Self discharge Very Very low

Note:- Battery SMF 12 volts 40 Ah must be made of reputed company & the label of the battery should be self descriptive type and specify following:-

*Name of the manufacturer.
Battery voltage & capacity*

Year & date of manufacturing

Item No 23 SMF Secondary battery (VRLA) 12 volts 26 AH Qty 95

Technical Specifications

- i. Ampere Hour Capacity 26 Ah
- ii. Terminal Voltage 12 volts DC with +ve & -ve terminal with indication
- iii. Container Strong and Rugged
- iv. Self discharge Very Very low

Note:- Battery SMF 12 volts 26 AH must be made of reputed company.

Item No24 SMF Secondary battery (VRLA) 12 volts 35 AH Qty 20

Technical Specifications

The Sealed maintenance free 12 volts Battery having capacity of 35Ah

- i. Ampere Hour Capacity 35 Ah
- ii. Terminal Voltage 13.2 volts DC with +ve & -ve terminal with indication
- iii. Container Strong and Rugged
- iv. Self discharge Very Very low

Note:- Battery SMF 12 volts 35 Ah must be made of reputed company & the label of the battery should be self descriptive type and specify following:-

Name of the manufacturer.

Battery voltage & capacity

Year & date of manufacturing

Item No 25 SMF Secondary battery (VRLA) 12 volts 17 AH Qty 30

Technical Specifications

- i. Ampere Hour Capacity 17 Ah
- ii. Terminal Voltage 12 volts DC with +ve & -ve terminal with indication
- iii. Container Strong and Rugged
- iv. Self discharge Very Very low

Note:- Battery SMF 12 volts 17 AH must be made of reputed company.

Item No 26 Battery charger 36 volts 10 A

Qty 48

Technical-Specifications (Sample needs to be deposited in PCS Jammu/Srinagar)

- 1. Input Voltage: 90 Volt to 240 Volt AC 50 Hz
- 2. Output Voltage: 12Volt -36 Volt DC Selectable through front Panel Rotor switch
- 3. Charging Current: 0-15 Ampere with current limiting resistance

Front Panel Fitted with:-

- 0 to 50 Volt DC Meter
- 0 to 15 Amp DC Ampere Meter
- ON/OFF Toggle Switch
- LED's (Line Voltage and Reverse polarity indicators)
- Voltage/Current Control Switch with Knob indicating steps
- DC Output terminals indicating Red for Positive and Black for negative fitted with battery terminals.

Protection:-

Short circuit Protection
Reverse Polarity Protection.
Automatic circuit breaker switches for Output voltages and Glass fuse for input.
Bridge Rectifier must be mounted on Heat sink for Maximum heat dissipation.
Mains Lead Three Core 1.5 Mtrs. length with 16 Amps top.

Warranty: - At least 02 Year

Note:- There should be authorized service Centers of the offered item in J&K.

Item No 27 Battery charger 12 volts 10 Amp Qty 150

Technical-Specifications (Sample needs to be deposited in PCS Jammu/Srinagar)

1. Input Voltage: 90 Volt to 240 Volt AC 50 Hz
2. Output Voltage: 12Volt -16 Volt DC **Selectable** through front Panel Rotor switch
3. Charging Current: 0-10 Ampere with current limiting resistance

Front Panel Fitted with:-

0 to 20 Volt DC Meter
0 to 15 Amp DC Ampere Meter
ON/OFF Toggle Switch
LED's (Line Voltage and Reverse polarity indicators)
Voltage/Current Control Switch with Knob indicating steps
DC Output terminals indicating Red for Positive and Black for negative fitted with battery terminals.

Protection:-

Short circuit Protection
Reverse Polarity Protection.
Automatic circuit breaker switches for Output voltages and Glass fuse for input.
Bridge Rectifier must be mounted on Heat sink for Maximum heat dissipation.
Mains Lead Three Core 1.5 Mtr length with top.

Warranty:- At least 01 Year

Note:- There should be authorized service Centers of the offered item in J&K.

Item No 28 Telephone Apparatus Qty 550

Technical-Specifications (Sample needs to be deposited in PCS Jammu/Srinagar)

- i. Independent access of exchange line.
- ii. Auto music on hold.
- iii. Do not disturb option .
- iv. Call / privacy.
- v. Pulse/ Tone dialling (DTMF) Selection
- vi. Last Number redial
- vii. Flash / pause.
- viii. Make of Reputed

Item No 29
Specifications

PVC 05 Pair Cable

Qty 3000 meters

Material: Annealed Tinned Copper
Diameter: 0.50±.005 mm
Insulation: PVC Insulation
Twisted Pair: Two single wires are twisted to form a Pair
Pair configuration: 1x 5P
Cable covering: unarmored

Item No 30
Specifications

Drop Wire

Qty 3100 meters

Structure illuminate: Copper conductor
insulation: polyolefin
jacket: PVC
Self-supporting drop wire 2 cores: 0.5mm copper

Item No 31 Two wire mode LAN Extender (reputed brand) **Qty 24 No**
Specifications

Ports: 02 RJ-11 sockets for receive and transmit
LAN interface ports: 04
Connector: RJ45
Power input: 100-240 volts Ac-50-60Hz, 0.5 A
Output: 5 volts DC, 1.5 A
DATA Rate: up to 2 Mbps (2 wire mode)

Item No 32
Specifications

CAT 06 Cable

Qty 4000 meters

Category: 04 -pair shielded twisted pair (STP) cable
Conductor: Copper
Insulation Material: HD-PE

Item No 33
Specifications

CAT 05 Cable

Qty 1000 meters

Category: 04 -pair shielded twisted pair (STP) cable
Conductor: Copper
Insulation Material: HD-PE

Item No 34
Specifications

Router Cisco 1800 series

Qty 05 No

Device Type: Router-1841
Form factor: external-modular-IU
RAM: 128 MB (installed)/384 MB Max SDRAM
Flash Memory: 32 MB (installed) 128 MB
Data link Protocol: Ethernet, fast Ethernet
Net work/transport protocol: IP Sec

Remote Management Protocol	SNMP
Digital Signaling Protocol	ADSL, over ISDN
Power	AC 220 Volts (50Hz)

Features:-

IP Broad Band. Firewall protection 128-bit Encryption,
 Hardware encryption intrusion prevention system (IPS)
 256-bit encryption.

Accessories:-

WIC Card	02 Nos.
Production registration Card	01 No.
V.35 Cable	01 No.
Power Chord	01 No

Modem:-

The modem should be of latest configuration/Advanced Technology and Compatible with our existing System of J&K Police.

Item No35 24 Port Ethernet Switch (Managed):- (Reputed Brand) Qty 05 No

Specifications

Ports	24 Ethernet 10/100 Ports and 2 10/100/1000-TX Uplink IRU fixed- configuration Multilayer switch LAN Based
image installation.	
Acoustic Noise	40 dBa.
Power Consumption	30 Watts.
Input AC	160-260 V A.C, 50 Hz
Power rating	0.05 KVA
DC input Voltage	12 Volts D.C
Mean time between failure (MTBF)	282.416 Hrs
Performance	32 Gbps
Forwarding band with	8.8 Gbps
RAM	64 MB DRAM or more
Flash memory	32 MB or more
Capacity	Up to 8000 MAC address

Item No 36 16 port Ethernet switch (Reputed Brand) Qty 18 No

Specifications

Number of Ports	16 ports
Switching fabric	32Gbps Switching fabric
Standards	
IEEE 802.3 10BASE-T Ethernet (twisted pair copper)	
IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)	
IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)	
ANSI/IEEE 802.3 Nway auto-negotiation	
IEEE 802.3x Flow Control	
IEEE 802.1p QoS (4 queues, strict mode)	
IEEE802.3az EEE	
Protocol	CSMA/CD
DATA Transfer Rates	

Ethernet	10 Mbps (half duplex)
	20 Mbps (full duplex)
Fast Ethernet	100 Mbps (half duplex)
	200 Mbps (full duplex)
Gigabit Ethernet:	2000 Mbps (full duplex)
Media Interface Exchange	Auto MDI/MDI-X adjustment for all ports
LED Indicators	Per port: Link/Activity/Speed
Transmission Method	Store-and-forward
MAC Address Table	8K entries per device
MAC Address Learning	Automatic update
Packet Filtering/Forwarding Rates (half duplex)	
Ethernet:	14,880 pps per port
Fast Ethernet:	148,800 pps per port
Gigabit Ethernet:	1,488,000 pps per port
Interface	RJ45 10BASE-T, 100BASE-TX & 1000BASE-T
Power Supply	100-240VAC, 50/60 Hz Internal Universal Power.

Item No 37 8 Port Switch (Reputed Brand) Qty 20 No
Specifications

No. of Ports	8 Ports
Flow Control	IEEE 802.3x
Jumbo Frames:	1536 Bytes
QoS Support	Supports 802.1p QoS
Switching Fabric	1.6 Gbps
Standards	IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
Protocol	CSMA/CD
Data Transfer Rates	Ethernet :-10 Mbps (half duplex), 20 Mbps (full duplex) Fast Ethernet:- 100 Mbps (half duplex),200 Mbps (full duplex)
Media Interface Exchange	Auto MDI/MDIX adjustment for all ports
MAC Address Table	1K
Packet Filtering/Forwarding Rates	Ethernet: 14,880 pps per port Fast Ethernet: 148,800 pps per port
RAM Buffer	768 KBytes per device Per port: f fLink/Activity
LED Indicators	
MAC Address Learning	Automatic update
DC Input	External 5 V/1 A Level

Item No 38 LAN Maintenance tool kit Qty 19 No
Technical specifications

4P /3p/1p Crimping tool:-	1No.
Cable cutter	1No.
Cable stripper	1No.
Punch down tool	1No.
UTP Twin tester	1No.

F. Patch cable tester

1No.

Item No 39 Public Address Systems

Qty 04 No

Technical specifications

Power Output	200W + 200W RMS at 10% /THD, 300W Max., for each zone
Input Channels	i. Mic input = :6 ii.Aux: = minimum 2
Frequency Response (amplifier)	50 – 15000Hz ±3dB
Speaker Outputs	4 Ω, 8 Ω, 70V & 100V for each zone.
Digital Player	MP3 Player with USB ,SD & MMC Card Reader and Remote Control.
Power Supply	AC: 220 - 240V 50 / 60Hz DC: 24V (2 × 12V Car Battery)
Power Consumption	AC: 700VA DC: 9A. or better
05 Channel PA Mixer Preamplifier:-	

05 MIC / Aux inputs
Compact and easy to use
Selectable HI/LO Sensitivity for Aux inputs
Separate volume control for each MIC /AUX input
Peak LED for setting optimum distortion-free input levels.
Power source: AC & 12 volts DC.

Accessories:-

PA Microphone with Stand:- All purpose PA micro-phone reproducing intelligible, crisp and bright sound. Suitable for multipurpose PA installations. Should be supplied with quick detachable holder with 3- pin professional XLR connector and 6 meters twin core shielded low noise cable.

Frequency Response:	50- 15,000Hz.
Sensitivity:	2.2 mv/Pa
Impedance	500 Ω.
Stand type:	Table
Height:	130mm
Base dia	120mm

Goose MIC with Ring LED indication:-

Condenser	unidirectional.
Frequency Response	100- 15,000Hz
Sensitivity	7mV /Pa
Impedance	1000 Ω
Power source	3 volts – 9volts Dc
Length of goose MIC	1.5. feet

Base for Goose MIC:-

Heavy duty die-cast aluminium base suitable for electret condenser goose Microphone. 10 meters, Twin core shielded low noise cable with XLR connector.
Cell housing for 2x1.5v AA size
On /off switch , low noise switch

P A Wireless Microphones:-

Receiver	Audio Output:	Balanced 0-40mv Unbalanced HI/LO: 80/ 50- 15,000Hz
Frequency Response:		

Transmitter:-

RF Output power:	20mW (Max.)
Modulation mode:	FM Antenna For Diversity R
Power source	Ac: 220-240volts for Ac adopter.

PA Driver unit with Reflex horn complete:-

Wattage: 40 watt (XT)
Weatherproof and rugged construction.

Built-in 100V transformer with easily selectable power taps/impedance by changing the position of the rotary switch at the rear. Degree of protection IP 66 provided, when mounted on a reflex horn, against foreign particles such as dust and jets of water thus making them ideal for outdoor

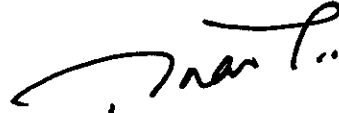
use Suitable Reflex horn complete

PA Column Speaker Complete:-

Wattage 30 watts rms / 100 volts

PA Speaker System with suitable tripod stand:-

Wattage	200 watt RMS
Impedance	8 Ω .
Frequency response	65-18,000Hz
speaker Stand height	2.5 – 3.5 feet
Load capacity	25kgs



Sheikh Junaid Mahmood
AIC Provision & Transport
For Director General of Police J&K
Jammu

