

**POLICE HEADQUARTERS**

{ PROVISION SECTION }

**J&K****JAMMU.**

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

(Sgr)Website: [www.jkpolice.gov.in](http://www.jkpolice.gov.in)  
Email: [phqjk@jkpolice.gov.in](mailto:phqjk@jkpolice.gov.in)

**Gist of e-tender notice No 04 of 2019****Dated: -****19. 01. 2019**

For and on behalf of the Governor of Jammu and Kashmir State, short terms e-tenders are hereby invited from registered OEM's or their authorised dealers to quote against this e-tender for Supply of Communication items for Expansion of APCO -25 Phase -II and augmentation of communication systems of J&K Police as mentioned in Annexure "A" of this tender notice .The download of the NIT shall start on 19 /01/2019 from 1600 hours. Tenders shall be submitted online on J&K State e-Procurement Portal [www.jktenders.gov.in](http://www.jktenders.gov.in) upto 02.02.2019 before 1800 hours. The tenders (technical bids only) will be opened online on 04.02.2019 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.

A pre bid conference shall be held at PHQ J&K Gulshan Ground Jammu on 24.01.2019 at 1630 hours , intending firms can participate in this conference to clarify any issue related to instant tender enquiry.

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

  
Mubassir Latifi JKPS  
(AIG Provision/Transport)  
For Director General of Police,  
J&K-Jammu

No: - Prov-II /WPR- 11/2018-19/ e-NIT04-2019/ 4815-28 Dated 19 : 01.2019

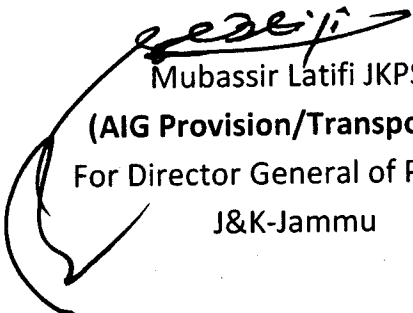
Copy to the:-

1. Principal Secretary to Govt. Home Department J&K Jammu
2. All ADsGPJ&K
3. All IsGPJ&K

....for favour of information.

4. DIG CKR Srinagar/DIG Jammu-Kathua& Samba Range Jammu.
5. Director Police Telecom J&K Jammu for information.
6. Director Industries Jammu/Srinagar for information.
7. Chief Accounts officer PHQ J&K Jammu for information
8. Director FSL 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. SSP PCR Srinagar for information
12. AIG Communication PHQ J&K Jammu for information with the request to arrange publication of Gist of the e.tender through information department.
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.

  
Mubassir Latifi JKPS  
(AIG Provision/Transport)  
For Director General of Police,  
J&K-Jammu

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

(Provision Section)

**J&K,****JAMMU.**

(Sgr)Website: [www.jkpolice.gov.in](http://www.jkpolice.gov.in)  
mail: [phqjk@jkpolice.gov.in](mailto:phqjk@jkpolice.gov.in)

**E-tender notice No 04. of 2019****Dated: - 19 .01. 2019****SBD**

|    |  |   |  |
|----|--|---|--|
| 1. | <p>For and on behalf of the Governor J&amp;K State, e-tenders are hereby invited from registered OEM's or their authorized dealers to quote against this e-tender for Supply of Communication items for Expansion of APCO -25 Phase –II and augmentation of communication systems of J&amp;K Police as mentioned in Annexure "A" of this tender notice. 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&amp;K State e-procurement portal <a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a> from 19 .01.2019 at 1600 hours to 02 .02.2019 up to 1800 hours. The online technical bids shall be opened on 04.02.2019 at 1100 hours. In case of unforeseen circumstances, the date of opening will be next working day</p> <p>A pre bid conference shall be held at PHQ J&amp;K Gulshan Ground Jammu on 24.01.2019 at 1630 hours, intending firms can participate in this conference to clarify any issue related to instant tender enquiry.</p> <p>Note: Only those firms should respond the tender enquiry which is capable to execute the supply, within shortest possible time to be specified in purchase order.</p> |   |  |
| 2. | Time/date and place for online opening of technical bid only   | <u>On 04.02.2019 at 1100 hours</u> at J&K Police Headquarters, J&K Jammu. |  |
|    | Validity of tender offer   | Upto 31.03.2020   |  |
| 3. | <p>All tender documents attached with this invitation to tender including the specifications are <b>SACROSANCT</b> for considering any offer as complete offer. It is important that scanned copies of each page of the <b>tender document duly completed, page numbered and signed are uploaded with your offer in a sequential manner and not haphazardly.</b></p>   |   |  |

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| 4. | <p>The tender fee has been fixed Rs 100/- only for SSI units of J&amp;K State and all other vendors have to pay Rs. 2000/- in the shape of scanned copy of Treasury Challan deposited into State Govt. Treasury under object head 0055-Police &amp; the same is non refundable . Treasury Challan should compulsorily mentioned (i) Name of Firm (ii) Tender No (iii) Date of opening of tender. Outside state firms where J&amp;K Govt. Treasury is not available are allowed to furnish DD in favour of CAO PHQ J&amp;K Jammu. However, the Govt/ Semi Govt. concerns of the J&amp;K State claiming exemption of tender fee shall append authenticated orders, certificates etc. issued by competent authority in support of their claim. However, granting exemption from furnishing of Tender fee shall be at the sole discretion of DGP J&amp;K Police or any officer authorized on his behalf. Tenders without stipulated tender fee shall be rejected.</p>   |
| 5. | <p><u>Earnest Money Deposit (EMD):-</u> Tender must be accompanied by a scanned copy of the Earnest Money for Rs 5000.00 in respect of SSI Unit holder of J&amp;K and for other Rs 1,00,000/- (one lakh) or approximately 2 % cost of the quoted items duly pledged to AIG (Prov/Tpt) PHQ J&amp;K without which tender will not be considered. The amount shall deposited in the shape of Call Deposit Receipt Valid at call/FDR/Bank Guarantee of any Nationalized Bank valid till 31.03.2020. However, all the participating bidders would upload scanned copy of the requisite EMD with the tender. The Earnest Money will be released to unsuccessful tenderer within one month of the final acceptance of the tender whereas in case of successful tender original EMD shall be obtained before awarding the contract &amp; it will be treated as part of security deposit. No interest shall be payable by purchaser on the EMD deposited by the tenderer. The original CDR/FDR/TDR/BG shall be sent by post by the successful bidder to the AIG Provision &amp; Transport c/o DGP J&amp;K before award of contract in pursuance to Govt. order issued under No OM No A/24(2017)/651 dated 7.6.2018.</p> <p>The Address is as under :-</p> <p>PHQ J&amp;K Peer Bagh Srinagar ( from May to October)</p> <p>PHQ J&amp;K Gulshan Ground Jammu (from November to April)</p> <p>J&amp;K Govt. rules with regard to furnishing of EMD in respect of local Registered SSI units of J&amp;K State shall be applicable in letter and spirit. Tenders without EMD shall be rejected.</p> |

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| 6.  | iii) Approximate completion time  | Within 25 days from the date of issue of supply order.   |
|     | v) Inspection authority / place of survey   | Survey of the items shall be conducted by the survey board constituted by PHQ J&K.   |
|     | vii) Payment terms  | Payment shall be released by the department after delivery of material and Survey by the board. However, mode of payment for Telephone exchanges would be 90 % after delivery / survey of the supplied material of the exchanges and 10 % after installation/commissioning of the Telephone exchanges. |
| 7.  | Rates quoted by the firms should be on firm price basis ie including all taxes/duties/charges if any.   |  |
| 8.  | i. If approved supplier backs out or fails to execute the supply order after placement of order within stipulated delivery period, the department will be at liberty to get the supplies executed 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 amount will be recovered from L-1 firm besides invoking other penalties which shall include black-listing of the firm etc. |  |
| 9.  | Firms shall clearly indicate different taxes, duties, charges which they propose to charge as per the format of Bill of quantity (BOQ) available with the e-tender.   |  |
| 10. | Conditional tender will not be accepted /entertained. It will be summarily rejected.  |  |
| 11. | Department reserves the right to change the quantity of sites as mentioned in the tender.   |  |
| 12. | Department reserves the right to get the executing capacity of all the firms re-verified/checked irrespective of the registration status or any other document / information.   |  |
| 13. | Department reserves the right to cancel/reject or scrap the tender, with no consequential liability   |  |
| 14. | TWO BID SYSTEM:-<br>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:-

|       |  |
|-------|--|
| i.    | Tender documents (viz technical compliance, registration/existence certificates of the firms / SSI Units & performance etc.) duly page numbered completed and signed BUT WITHOUT INDICATING THE RATES QUOTED.                                  |
| ii.   | 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.  |
| iii.  | Duplicate documents /pages shall not be uploaded by the bidders  |
| iv.   | 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.   |
| v.    | Tender fee and EMD documents must be scanned and placed in separate PDF files.   |
| vi.   | Bidders are advised not to upload any irrelevant /un-necessary documents on tender portal.   |
| vii.  | 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.   |
| viii. | Self attested copies of Income tax returns for the last 02 years   |
| ix.   | Chartered Accountant duly vetted financial statements comprising of P 2 LA/C balance sheet for the last 02 years latest GST return.  |
| x.    | Performance statement /turn over for last two years as APPENDIX-III of this NIT.   |
| xi.   | Acceptance of delivery/warranty & maintenance etc.   |
| xii.  | Acceptance regarding execution of supplies within the stipulated time frame.   |
| xiii. | PAN no/GST/TIN No. Self-attested photocopies thereof be appended.  |
| xiv.  | Check list for tenders as per APPENDIX-IV of this NIT.   |
| xv.   | Any other relevant document which the firms wishes to submit   |
| xvi.  | Samples of items as asked in Annexure 'A' should reach in Police Central Store Jammu should be deposited by the intending firms upto cut off time of opening of technical bid. No sample shall be accepted after cut off time of 1100 hours of |

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|     | <p>date of opening of technical bid. Incharge Police Central Store Jammu will furnish list of samples depositing by the participating firms indicating name of the firm &amp; item for which sample has been deposited in the store. In case firm intend to re-evaluate the sample already deposited in Police Central Store Jammu for previous tender, same shall be acceptable for re-evaluation of sample in this tender enquiry.</p>   |    |   |     |   |
| 15. | <p>(B) SECOND COVER (Commercial/Price Bid) should contain the following:-</p> <table> <tr> <td>i.</td><td> <p>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>(Rate quoted shall be final.</p> <p>The Zero basic cost quoted for any item in BOQ will be treated as Nil Quoted</p> </td></tr> <tr> <td>ii.</td><td> <p>Rates quoted shall be final till the validity of the contract i.e. upto 31.03.2020 with provision of further extension if finally approved by competent authority.</p> </td></tr> </table>                    | i. | <p>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>(Rate quoted shall be final.</p> <p>The Zero basic cost quoted for any item in BOQ will be treated as Nil Quoted</p> | ii. | <p>Rates quoted shall be final till the validity of the contract i.e. upto 31.03.2020 with provision of further extension if finally approved by competent authority.</p> |
| i.  | <p>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>(Rate quoted shall be final.</p> <p>The Zero basic cost quoted for any item in BOQ will be treated as Nil Quoted</p>  |    |   |     |   |
| ii. | <p>Rates quoted shall be final till the validity of the contract i.e. upto 31.03.2020 with provision of further extension if finally approved by competent authority.</p>  |    |   |     |   |
| 16. | <p>On due date of opening of tenders i.e.04.02.2019 at 1100 hours, technical bids only shall be opened and technical evaluation process of the technical bids /samples shall start. Those who qualify the technical bid on a/c documents uploaded by them shall be informed online with regard to opening of financial bids of the technically qualified firms.</p>  |    |   |     |   |
| 17. | <p>Security Deposit: - The approved tenderer will have to furnish security deposit @ 5% of the total value in the shape of CDR/FDR valid for one year issued by a Nationalized/Scheduled Banks pledged to AIG Provision &amp; Transport PHQ J&amp;K Jammu/Srinagar, at the time of signing of Deed of Agreement to ensure satisfactory performance of the contract, 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 department on the Security deposit). J&amp;K Govt rules for Security Deposit in respect of local SSI Units shall be applicable</p> |    |   |     |   |
| 18. | <p>Guarantee/Warranty</p> <p>Except as otherwise provided in the invitation to the tender, the approved supplier hereby declares that supplied items shall be in all respects strictly as per RFP/requirement of the department. The approved supplier hereby guarantees the warranty of the supplies items for a period of 02 years from the date of acceptance.</p>  |    |   |     |   |

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| 19. | <p><b>Liquidity Damages</b></p> <p>Successful tenderer shall have to complete the execution of supply, installation/commissioning of Telephone Exchanges within stipulated period as would be mentioned in the supply order. J&amp;K Police reserves the right to impose liquidity damages of 5% of the cost of un-supplied material if the supplies are not executed/installation is not completed in stipulated time frame.</p>  |
| 20. | <p>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&amp;K under the law for the time being in force in the State of J&amp;K.</p>  |
| 21. | <p>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.</p>   |
| 22. | <p>The tenderer are required to furnish an authenticated copy of latest GST return. The PHQ shall be at liberty to put to scrutiny, verification etc. the GST clearance so furnished by the successful tenderer.</p>   |
| 23. | <p>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.</p> |
| 24. | <p>If 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 execute the work, the security deposited will be forfeited besides imposing any other penal provisions as the department may decide to invoke.</p>  |
| 25. | <p>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.</p>  |
| 26. | <p>If at any stage of the tender process two or more bidders are found in</p>  |



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|     | 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.   |
| 27. | Either OEM himself or his authorized dealer/dealers can participate in the tendering process for any particular item/items .However, both OEM and his authorized dealer cannot participate for same items in any tendering process.   |
| 28. | 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.   |
| 29. | 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  |
| 30. | The supplier shall not sublet the contract or any part thereof to any other agency  |
| 31. | 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.  |
| 32. | 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.  |
| 33. | PHQ may call any bidder at any stage of the tendering process for seeking any clarification.  |
| 34. | 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 and has not been blacklisted by any Central /State Governments . If this is found to be incorrect, his/her tender would be liable to be rejected without any further notice. |
| 35. | The detailed NIT, SBD and BOQ are available on J&K State e-Procurement portal.  |
| 36. | The rates approved by this Hqrs in terms of this tender notice shall not be used as rate contract by other Government department.   |
| 37. | The approved supplier has to ensure the reasonability of rates quoted by the firm. If at any stage it is found that firm has charged lesser rates of the same item/ items from any other private State/Central Govt. organizations, as have been charged from J&K Police suitable action under rules shall be taken against approved supplier and excess amount charged from J&K Police shall be recovered.   |

*(Signature)*  
 ATG (Procurement)  
 PHQ, J&K

**APPENDIX-I**

**MANUFACTURER'S AUTHORIZATION LETTER/CERTIFICATE;**

To,

The Director General of Police  
J&K, Jammu/Srinagar.

**Subject:-** \_\_\_\_\_

Sir,

Please refer to your e-tender enquiry (NIT) No 04 of 2019 dated 19.01.2019 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 04 of 2019 dated- 19.01.2019.

To,

The Director General of Police  
J&K, Jammu/Srinagar.

Sir,

1. I \_\_\_\_\_ hereby state that I am not connected in any manner with any other bidder in this tender in sharing business information/documents and price 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 work executed                            |  |
| Quantity on order                                       |  |
| Value   |  |
| Original execution period                               |  |
| Whether executed in stipulated time frame or other wise |  |
| Extension sought for final execution                    |  |
| Reasons for delay in execution ( if any)                |  |
| Past performance in % age upto1 / 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><br><u>(Please indicate YES or</u><br><u>NO after complying</u><br><u>with the 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 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? |  |
| 6.          | Whether tender documents are submitted in two bid system i.e. Technical and Financial Bids separately as per tender enquiry or not?   |  |
| 7.          | Whether offer validity as required in tender enquiry is accepted and indicated in your tender document or not?  |  |
| 8.          | Whether terms of execution required in tender enquiry is accepted and indicated in your tender document or not?   |  |
| 9.          | Whether payment terms as required in the tender enquiry is accepted and indicated in your tender document or not?   |  |
| 10.         | 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?   |  |
| 11.         | 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?                                       |  |
| 12.         | The complete commercial quote should be in Indian Rupees only. Currency of price should be clearly mentioned (wherever  |  |

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|     | applicable).   |  |
| 13. | Tenderers are required to indicate Basic Rate, +GST in the relevant columns of the BOQ.  |  |
| 14. | Tenderer will attach justification of price quoted which should include the recently executed contracts with Govt/Semi Govt Organizations etc. |  |
| 15. | No column should be left blank. Wherever amount is not quoted, the column should be clearly marked as 'Nil'.                                   |  |
| 16. | Whether authorization certificate of the OEM (in case of authorized dealer of the OEM) has been uploaded or not?                               |  |
| 17. | Valid registration certificate of approved dealer with central/state sales tax department for the items quoted                                 |  |
| 18. | Whether latest GST return has been uploaded  |  |
| 19. | SSI unit -registration certificate<br>(local SSI units of J&K State only)  |  |
| 20. | Whether copy of Copy of latest Income tax returns has been uploaded.   |  |
| 21. | Govt. supply orders for same if any available have been uploaded or not  |  |
| 22. | Whether OEM registration/existence certificate has been uploaded or not?   |  |
| 23. | Whether other documents as asked in the SBD have been uploaded   |  |

## **Annexure A of e-tender No 04 of 2019 dated 19.01.2019**

### **Part –A APCO-25 Phase II Expansion**

**The intending bidder/bidders have to deposit samples of offered radios Hand Held/Static /Mobile in Police Central Store Jammu upto cut of time i.e. 4.2.2019 at 1100 hours,the date/time of opening of technical bids of this tender enquiry.**

#### **The bidder must qualify the following eligibility criteria :-**

- a) Bidders must be OEM or authorized distributor of OEM for the offered equipments. The bidder must have experience for installation and successful implementation of Trunking system APCO 25 Phase II in INDIA.
- b) Bidders should submit the tender specific authorization certificate from OEM along with valid Dealer Possession License from WPC. Without these documents, tender will be considered invalid.
- c) OEM for the offered items should have own registered office with Service centre in India. To ensure prompt services, the firm should keep services of expert engineers at both capital cities of Jammu & Srinagar during the onsite comprehensive warranty period with all essential spares.
- d) OEM should provide an undertaking/affidavit towards support to the bidder for essential spares after sales support of the offered product for a period of 08 to 10 years at least.
- e) On site comprehensive warranty for a period of 03 years. The warranty period shall start from the date of successful installation of APCO P-25 Radio Trunking equipment
- f) The offered radios should be of open standard to operate in other manufacturers Digital Open Standard APCO P25 Phase-II F-TDMA System and should have full Compatibility and Interoperability with Portable, Mobile and Desktop Radios of existing APCO 25 Phase II System of J&K Police Installed at two capital Cites. Compatibility with existing system alongwith features, Parameters and coverage area of 90% in the Capital cities of Jammu & Srinagar will be checked at the time of Technical evaluation of offered items.

**Item No 01 : Technical Specifications of P- APCO 03 watts or more Phase-II F-TDMA Trunking portable Radios with Helical antennas, Li-ion/ Ni-Mh batteries 1800 MAh, Belt clip and Desktop chargers with one spare battery pack with AES encryption.**

**Tentative quantity 150**

**Sets**

All Hand Held Portable Radios should have

- 1) Suitable Rugged Helical Antenna.
- 2) Full alphanumeric keypad.
- 3) Two No's of Li-ion/ Ni-Mh batteries. 1800 MAH or more
- 4) Compatible Rapid battery chargers for 230 Volt AC operations.
- 5) Carrying Case / Belt Clip.
- 6) Digital voice and data Operation
- 7) APCO 25 Phase-II F-TDMA Open standard

**Technical Parameters:-**

**General:-**

- |                           |                                  |
|---------------------------|----------------------------------|
| 1) Supply Voltage :       | Bidder to specify                |
| 2) Frequency Generation : | Synthesize                       |
| 3) Modulation :           | APCO 25 Phase-II F-TDMA Standard |
| 4) Temperature Range :    | -30°C to 60°C                    |

**Transmitter**

- |                         |  |
|-------------------------|--|
| 1) Frequency :          | (806 - 824 MHz) Band   |
| 2) RF Power             | 3 W. Programmable power control  |
| 3) Channel Spacing :    | 12.5 KHz for APCO 25 (12.5 or 25 KHz selectable<br>Selectable for conventional operation |
| 4) Frequency Stability: | ± 1.5 PPM or better at -30°C to 60°C   |
| 5) Output Impedance -   | 50 Ohms  |
| 6) Audio Distortion -   | < 3% at 1 KHz, at 3 KHz deviation (clear mode)   |

**Receiver:-**

- |   |   |
|---|---|
| 1. Frequency :                            | (851 - 870 MHz) Band  |
| 2. Sensitivity :                          | -116 dBm at 5% BER or better  |
| 3. Frequency Stability:                   | ± 1.5 PPM or better at -30°C to 60° C                                     |
| 4. Channel spacing -                      | 12.5 KHz for APCO 25 Phase II F-TDMA and<br>12.5/25 KHz for conventional. |
| 5. Adjacent Channel Rejection Selectivity | 60 dB or better   |
| 6. Spurious and Image:                    | better than 75 dB   |
| 7. Audio output                           | 500 milli watt or better  |
| 8. Audio Distortion -                     | Less than 3% at 1 KHz in conventional mode.                               |
| Trunk Talk Groups                         | ---100 Talk groups minimum.   |
| Conventional / Talk around                | ---25 Talk groups minimum.  |
| Dynamic Regrouping                        | ---10 Talk groups minimum.  |

**Features:-**

1. APCO 25 Trunk Mode Operation ( Digital voice & Data)
2. APCO 25 Conventional / Talk around.
3. Group Call (Digital & Encrypted)
4. Group scanning with priority selection
5. Individual Call ( Digital & Encrypted )
6. Multi-site group as well as individual call
7. Status Messaging
8. Late entry
9. Remote enable/disable facility
10. Calling, Talking radio number /alias display.
11. PC programmable
12. Display with backlight – Alphanumeric.
13. Tx-Rx mode indicator
14. Out of Contact Indication
15. Encryption AES FIPS 140-2 Level 3 certified Hardware based **AES 256 bits Encryption**. Bidder to submit the Certificate.
16. Text Message using keypad (Minimum 100 character)
17. Terminal to terminal file transfer operation
18. Ruggedness – Water, Dust and Vibration resistant MIL standard 810 C,D,E,F,G



19. Call history
20. Roaming Feature within RF coverage area of the Sites
21. Auto retry
22. Over The Air Programming (OTAP)
23. Over The Air Rekeying (OTAR)
24. Received Signal Strength Indicator (RSSI)
25. Port for External Speaker and Data Communication, radio programming.
26. Audio Visual Alerts ( Bidder shall Specify)
27. Ingress Protection IP 67 ( Battery & Radio)

**Programming kit:** 04 No's Software and Hardware Kit complete required for programming of the set independently for lifelong support with the consignment.

**Literature:** ) i) Users 'manual with each radio sets should be provided free of cost in soft as well as hard copy.  
ii) 02 No's Technical repairing & maintenance manual with complete block diagram, circuit layout ,PCB layout ,component & wiring diagram etc should be provided in soft as well as hard copy with the consignment.

**Item No 02: Technical Specifications of P-25, 25 watts or more Phase-II F-TDMA Trunking Mobile Radio with unity gain whip antenna complete with all accessories and AES encryption.**

**Tentative quantity 25 Sets**

All Mobile Radios should have

- 1) whip unity gain mobile Antenna with installation clamp, standard co-axial cable fitted with standard connectors.
- 2) Full alphanumeric keypad
- 3) Microphone
- 4) Internal / External speaker.
- 5) Battery cable
- 6) Vehicle operation mounting brackets & installation
- 7) Digital voice and data Operation.
- 8) Open standard APCO 25 Phase-II F-TDMA

**Technical Parameters:-**

**General:-**

- |                           |                                  |
|---------------------------|----------------------------------|
| 1) Supply Voltage :       | 12 V DC Nominal                  |
| 2) Frequency Generation : | Synthesize                       |
| 3) Modulation :           | APCO 25 Phase-II F-TDMA Standard |
| 4) Temperature Range :    | -30°C to 60°C                    |

**Transmitter:-**

- |                         |  |
|-------------------------|--|
| 1. Frequency :          | ( 806 - 824 MHz ) Band   |
| 2. RF Power             | 25 W. Programmable power control   |
| 3. Channel Spacing :    | 12.5 KHz for APCO 25 (12.5 or 25 KHz selectable for conventional operation |
| 4. Frequency Stability: | ± 1.5 PPM or better at -30°C to 60°C                                       |
| 5. Output Impedance -   | 50 Ohms  |
| 6. Audio Distortion -   | < 3% at 1 KHz, at 3 KHz deviation (clear mode)                             |

**Receiver:-**

- |   |  |
|---|--|
| 1. Frequency :                              | ( 851 - 870MHz )   |
| 2. Sensitivity : -                          | -116 dBm at 5% BER or better   |
| 3. Frequency Stability:                     | ± 1.5 PPM or better at -30°C to 60°C                                   |
| 4. Channel spacing -                        | 12.5 KHz for APCO 25 Phase II F-TDMA and 12.5/25 KHz for conventional. |
| 5. Adjacent Channel Rejection Selectivity : | 60 dB or better  |
| 6. Spurious and Image:                      | better than 75 dB  |
| 7. Audio output                             | 3 Watt or more   |
| 8. Audio Distortion                         | Less than 3% at 1 KHz in conventional mode, if provided                |
| Trunk Talk Groups                           | ---100 Talk groups minimum.  |
| Conventional / Talk around                  | ---25 Talk groups minimum.   |
| Dynamic Regrouping                          | ---10 Talk groups minimum.   |

**Features:-**

1. APCO 25 Trunk Mode Operation ( Digital voice & Data)
2. APCO 25 Conventional / Talk around.
3. Group Call (Digital & Encrypted)
4. Group scanning with priority selection
5. Individual Call ( Digital & Encrypted )
6. Multi-site group as well as individual call

7. Status Messaging
8. Late entry
9. Remote enable/disable facility
10. Calling, Talking radio number /alias display.
11. PC programmable
12. Display with backlight – Alphanumeric.
13. Tx-Rx mode indicator
14. Out of Contact Indication
15. Encryption AES FIPS 140-2 Level 3 certified Hardware based **AES 256 bits Encryption**. Bidder to submit the Certificate.
16. Text Message using keypad (Minimum 100 character)
17. Terminal to terminal file transfer operation
18. Ruggedness – Water, Dust and Vibration resistant MIL standard 810 C,D,E,F,G
19. Call history
20. Roaming Feature within RF coverage area of the Sites
21. Auto retry
22. Over The Air Programming (OTAP)
23. Over The Air Rekeying (OTAR)
24. Received Signal Strength Indicator (RSSI)
25. Port for headset attachment and data communication, radio programming.
26. Audio Visual Alerts ( Bidder shall Specify)

**Programming kit:** 04 No's Software and Hardware Kit complete required for programming of the set independently for lifelong support with the consignment.

**Literature:** ) i) Users 'manual with each radio sets should be provided free of cost in soft as well as hard copy.  
ii) 02 No's Technical repairing & maintenance manual with complete block diagram, circuit layout ,PCB layout ,component & wiring diagram etc should be provided in soft as well as hard copy with the consignment.

### **Item No 03**

**Technical Specifications of P- APCO 25 watts or more Phase-II F-TDMA Trunking Desktop Radios with 3dB gain antenna complete with all accessories and AES encryption**

**Tentative quantity 25 Sets**

All Desk top Radios should have

- 1) Minimum 3dB or high gain Omni directional GP Antenna with installation clamp, 30 meters UHF LDF RF cable fitted with standard connectors at its ends.
- 2) Full alphanumeric keypad
- 3) Microphone
- 4) Internal / External speaker.
- 5) Battery cable
- 6) Digital voice and data Operation
- 7) Open standard APCO 25 Phase-II F-TDMA

### **Technical Parameters:-**

#### **General:-**

- |                           |                                  |
|---------------------------|----------------------------------|
| 1) Supply Voltage :       | 12 V DC Nominal                  |
| 2) Frequency Generation : | Synthesize                       |
| 3) Modulation :           | APCO 25 Phase-II F-TDMA Standard |
| 4) Temperature Range :    | -30°C to 60°C                    |

#### **Transmitter:-**

- |                         |   |
|-------------------------|---|
| 1. Frequency :          | (806 - 824 MHz) Band  |
| 2. RF Power             | 25 W. Programmable power control  |
| 3. Channel Spacing :    | 12.5 KHz for APCO 25 (12.5 or<br>25 KHz selectable for conventional operation |
| 4. Frequency Stability: | ± 1.5 PPM or better at -30°C to 60°C  |
| 5. Output Impedance -   | 50 Ohms   |
| 6. Audio Distortion -   | < 3% at 1 KHz, at 3 KHz deviation (clear mode)                                |

**Receiver:-**

- |   |   |
|---|---|
| 1. Frequency :                              | (851- 870MHz)   |
| 2. Sensitivity :-                           | -116 dBm at 5% BER or better  |
| 3. Frequency Stability:                     | $\pm 1.5$ PPM or better at -30°C to 60°C                                  |
| 4. Channel spacing -                        | 12.5 KHz for APCO 25 Phase II F-TDMA and<br>12.5/25 KHz for conventional. |
| 5. Adjacent Channel Rejection Selectivity : | 60 dB or better   |
| 6. Spurious and Image:                      | better than 75 dB   |
| 7. Audio output                             | 3 Watt or more  |
| 8. Audio Distortion                         | Less than 3% at 1 KHz in conventional mode.                               |
| Trunk Talk Groups                           | ---100 Talk groups minimum.   |
| Conventional / Talk around                  | ---25 Talk groups minimum.  |
| Dynamic Regrouping                          | ---10 Talk groups minimum.  |

**Features:-**

1. APCO 25 Trunk Mode Operation ( Digital voice & Data)
2. APCO 25 Conventional / Talk around.
3. Group Call (Digital & Encrypted)
4. Group scanning with priority selection
5. Individual Call ( Digital & Encrypted )
6. Multi-site group as well as individual call
7. Status Messaging
8. Late entry
9. Remote enable/disable facility
10. Calling, Talking radio number /alias display.
11. PC programmable
- 12 .Display with backlight – Alphanumeric.
13. Tx-Rx mode indicator
14. Out of Contact Indication
- 15 .Encryption AES FIPS 140-2 Level 3 certified Hardware based **AES 256 bits Encryption**. Bidder to submit the Certificate
16. Text Message using keypad (Minimum 100 character)
17. Terminal to terminal file transfer operation
18. Ruggedness – Ruggedness – Water, Dust and Vibration resistant MIL standard 810 C,D,E,F,G
19. Call history
20. Roaming Feature within RF coverage area of the Sites
21. Auto retry
22. Over The Air Programming (OTAP)
23. Over The Air Rekeying (OTAR)
24. Received Signal Strength Indicator (RSSI)
25. Port for headset attachment and data communication, radio programming.
26. Audio Visual Alerts ( Bidder shall Specify)

**Programming kit:** 04 No's Software and Hardware Kit complete required for programming of the set independently for lifelong support with the consignment.

**Literature:** ) i) Users 'manual with each radio sets should be provided free of cost in soft as well as hard copy.  
ii) 02 No's Technical repairing & maintenance manual with complete block diagram, circuit layout ,PCB layout ,component & wiring diagram etc should be provided in soft as well as hard copy with the consignment.

**Part 'B' Augmentation of existing communication system**

**Item No 04      (a) VHF LOW BAND STATIC TRANSRECEIVER      Qty 15 No**

**(Sample to be deposited in Police Central Store Jammu upto cut off time of opening of technical bid ie 4.02.2019 1100 hours)**

| <b>S.No</b> | <b>Specifications</b>   |  |
|-------------|---|--|
| <b>1</b>    | <b>General</b>  |  |
|             | i) Frequency Range  | 66-88 MHz (Full Band)  |
|             | ii) No. of Channels   | 26 or more   |
|             | iii) Channel spacing  | 12.5 KHz & 25 KHz or better  |
|             | iv) Frequency stability   | <u>±2.5</u> PPM or better (Certificate Required)*  |
|             | v) Protocol & Technology  | FM   |
|             | vi) Type of Emission (Modulation)   | Analog: 11KOF3E  |
|             | vii) Type of Operation  | Simplex Press to talk  |
|             | viii) Type of Antenna   | 1. 3dB gain GP antenna with 30 meter RG 217 RF cable for static stations fitted with suitable connectors at its ends..<br>2. Handset mounting bracket with screws<br>3. Mounting bracket with screws for mobile radio. |
|             | ix) Antenna Impedance   | 50Ω  |
|             | x) Power Source   | 12V DC   |
|             | i) Speaker  | Inbuilt  |
|             | xii) Protection   | i. Reverse polarity protection<br>ii. Protection against high VSWR   |
| <b>2</b>    | <b>Transmitter (Certificate Required)*</b>  |  |
|             | i) R.F. Power Output  | 25 watt (programmable/ selectable)   |
|             | ii) FM Hum/Noise  | -40 dB or better   |
|             | iii) Modulation Limiting  | ±2.5 KHz @ 12.5KHz   |
|             | iv) Adjacent Channel Power  | 60dB or better   |
|             | v) Audio Distortion   | Less than 3%   |
| <b>3</b>    | <b>Receiver (Certificate Required)*</b>   |  |
|             | i) Sensitivity  | Analog: 0.30 μV or better  |
|             | ii) Selectivity (Adjacent Channel)  | 60dB or better   |
|             | iii) Inter Modulation   | 60 dB or better  |
|             | iv) Audio Output  | ≥ 3 Watt or better   |
|             | vi) Rated Audio Distortion  | Less than 3%   |
| <b>4</b>    | <b>Environmental Specifications (Certificate Required)*</b>   |  |
|             | 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   |
|             | v) Dust & Water Intrusion   | IP 54 or better (Certificate required)*  |
| <b>5</b>    | <b>Accessories</b>  |  |

|   |   |   |
|---|---|---|
|   | i) Battery Cable with fuse                | Should be available   |
|   | ii). Microphone hand set                  | Should be available   |
|   | ii) Programming Kit                       | 05 No's Programming software and hardware kit complete with the consignment   |
|   | iii) Literature                           | i) Users 'manual' with each radio sets should be provided free of costs<br>ii) 05 No's Technical repairing & maintenance manual with complete block diagram, circuit layout ,PCB layout ,component & wiring diagram etc should be provided with the consignment in soft as well as hard copy. |
| 6 | <b>Features &amp; Configuration</b>       |   |
|   | i) Caller ID display                      | Should be available   |
|   | ii) Scan                                  | Should be available   |
|   | iii) Transmitter Time Out Timer (TOT)     | Should be available   |
|   | iv) LCD Display                           | Should be available   |
|   | v) Remote Radio Kill/Stun/Revive facility | Should be available   |
|   | vi) Emergency Button                      | Should be available   |
|   | Vii) Programming                          | PC Programming  |

**Note:-**

\* 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 or from OEM certificate

1. The radio should be compatible with existing analog Radio Network of J&K Police.
2. Field Trial of the equipment will be conducted at the time of technical evaluation in presence of vendor / representative of firms to ascertain the user satisfaction with all required accessories provided by the participating firms on **"No Cost No Commitment"** basis.

**Item No. 04 (b) VHF LOW BAND MOBILE TRANSRECEIVER Tentative Qty 15 No**

(Sample to be deposited in Police Central Store Jammu upto cut off time of opening of technical bid ie 4.02.2019 at 1100 hours)

| S.No | Specifications                    |  |
|------|-----------------------------------|--|
| 1    | <b>General</b>                    |  |
|      | i) Frequency Range                | 66-88 MHz (Full Band)  |
|      | ii) No. of Channels               | 26 or more   |
|      | iii) Channel spacing              | 12.5 KHz & 25 KHz or better  |
|      | iv) Frequency stability           | +2.5 PPM or better (Certificate Required)*   |
|      | v) Protocol & Technology          | FM   |
|      | vi) Type of Emission (Modulation) | Analog: 11KOF3E  |
|      | vii) Type of Operation            | Simplex Press to talk  |
|      | viii) Type of Antenna             | 1. 0dB unity gain Whip antenna with 03 meter Co-axial cable fitted with suitable Connectors with mounting bracket / Magnetic Base for vehicle use.<br>2. Handset mounting bracket with screws<br>3. Mounting bracket with screws for mobile radio. |
|      | ix) Antenna Impedance             | 50Ω  |
|      | x) Power Source                   | 12V DC   |

|   |   |   |
|---|---|---|
|   | ii) Speaker   | Inbuilt   |
|   | xii) Protection   | iii. Reverse polarity protection<br>iv. Protection against high VSWR  |
| 2 | <b>Transmitter (Certificate Required)*</b>  |   |
|   | i) R.F. Power Output  | 25 watt (programmable/ selectable)  |
|   | ii) FM Hum/Noise  | -40 dB or better  |
|   | iii) Modulation Limiting  | ±2.5 KHz @ 12.5KHz  |
|   | iv) Adjacent Channel Power  | 60dB or better  |
|   | v) Audio Distortion   | Less than 3%  |
| 3 | <b>Receiver (Certificate Required)*</b>   |   |
|   | i) Sensitivity  | Analog: 0.30 µV or better   |
|   | ii) Selectivity (Adjacent Channel)  | 60dB or better  |
|   | iii) Inter Modulation   | 60 dB or better   |
|   | iv) Audio Output  | ≥ 3 Watt or better  |
|   | vi) Rated Audio Distortion  | Less than 3%  |
| 4 | <b>Environmental Specifications (Certificate Required)*</b>   |   |
|   | 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  |
|   | v) Dust & Water Intrusion   | IP 54 or better (Certificate required)*   |
| 5 | <b>Accessories</b>  |   |
|   | i) Battery Cable with fuse  | Should be available   |
|   | ii). Microphone hand set  | Should be available   |
|   | ii) Programming Kit   | 05 No's Programming software and hardware kit complete with the consignment   |
|   | iii) Literature   | iii) Users 'manual' with each radio sets should be provided free of costs<br>iv) 05 No's Technical repairing & maintenance manual with complete block diagram, circuit layout ,PCB layout ,component & wiring diagram etc should be provided with the consignment in soft as well as hard copy. |
| 6 | <b>Features &amp; Configuration</b>   |   |
|   | i) Caller ID display  | Should be available   |
|   | ii) Scan  | Should be available   |
|   | iii) Transmitter Time Out Timer (TOT)   | Should be available   |
|   | iv) LCD Display   | Should be available   |
|   | v) Remote Radio Kill/Stun/Revive facility   | Should be available   |
|   | vi) Emergency Button  | Should be available   |
|   | vii) Programming  | PC Programming  |

**Note:-**

\* 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 or from OEM

4. The radio should be compatible with existing analog Radio Network of J&K Police.
5. Field Trial of the equipment will be conducted at the time of technical evaluation in presence of vendor / representative of firms to ascertain the user satisfaction with all required accessories provided by the participating firms on "No Cost No Commitment" basis.

## Item No 05 VHF LOW BAND HAND HELD TRANSRECEIVER WITH CHARGER & SPARE BATTERY PACK.

Tentative Qty 300 No

(Sample to be deposited in Police Central Store Jammu upto cut off time of opening of technical bids ie 4.02.2019 1100 hours)

| S.No | Specifications  |  |
|------|---|--|
| 1    | <b>General</b>  |  |
|      | i) Frequency Range  | 66-88 MHz (Full Band)  |
|      | ii) No. of Channels   | 26 or more   |
|      | iii) Channel spacing  | 12.5 KHz or better   |
|      | iv) Frequency stability   | $\pm 2.5$ PPM or better (Certificate Required)*  |
|      | v) Protocol & Technology  | FM   |
|      | vi) Type of Emission (Modulation)   | Analog: 11KOF3E  |
|      | vii) Type of Operation  | Simplex Press to talk  |
|      | viii) Type of Antenna   | Rugged flexible Helical Antenna  |
|      | x) Power Source   | 01 No's Battery pack Lithium-Ion, Lithium-Polymer 2000mAh or more (Battery Back- up $\geq 8$ Hrs).or above with each radio set. with belt clip (Bidder shall mention DC voltage) |
|      | xi) Protection  | v. Reverse polarity protection<br>vi. Protection against high VSWR   |
| 2    | <b>Transmitter (Certificate Required)*</b>  |  |
|      | i) R.F. Power Output  | 1 to 5 watt (programmable/ selectable)   |
|      | ii) FM Hum/Noise  | -40 dB or better   |
|      | iii) Modulation Limiting  | $\pm 2.5$ KHz @ 12.5KHz  |
|      | iv) Adjacent Channel Power  | 60dB or better   |
|      | v) Audio Distortion   | Less than 3%   |
| 3    | <b>Receiver (Certificate Required)*</b>   |  |
|      | i) Sensitivity  | Analog: 0.30 $\mu$ V or better   |
|      | ii) Selectivity (Adjacent Channel)  | 60dB or better   |
|      | iii) Inter Modulation   | 60 dB or better  |
|      | iv) Audio Output  | 500mW or better  |
|      | vi) Rated Audio Distortion  | Less than 3%   |
| 4    | <b>Environmental Specifications (Certificate Required)*</b>   |  |
|      | 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   |
|      | v) Dust & Water Intrusion   | IP 57 or better  |



11. Housing: - Supporting Cabinet
12. MDF : - supports 128 ports with three layer IPMs.
13. Operator Consoles: - 02 Digital Operator Consoles working at a time having the following features:- Display of Busy Extensions on dialing, Status of all Busy/ Free junction Lines, Over Ride at Busy Extensions, Called No. display, Call. Queuing, Call Parking, Call Processing Indication, Call Rejection and Blocking and un blocking facilities.
14. Extension Loop Resistance = minimum 1200  $\Omega$ , Junction Loop Resistance = 1800  $\Omega$
15. The Company must provide onsite training to the operators/ Technical Staff regarding handling, operation and software programming.
16. The supplier company would have to install / commission the exchange at the locations earmarked by the department.
17. Xge must possess music port and compatible card for programming external music tone as per user's choice.
18. The Xge. Must have facility to integrate with the existing working Exchange's of J&K police for access of Extension numbers to and fro.
19. The power supply system of the Xge must provide backup of proper rating for at least two hours in Shape of FCBC or UPS of proper rating to run the Xge during mains failure .
20. Comprehensive onsite warranty for a period of at least 2 years for complete system including power backup .The warranty period shall begin from the date of its successful installation /commission at each earmarked site.
21. User and technical Manual for each exchange.

#### **ITEM No. 07 Telescopic Mast**

**Tentative Qty 20 No**

**(Sample to be deposited in Police Central Store Jammu upto 4.02.2019 1100 hours)**

#### **Technical specification**

Length of the Mast:- At least 30 feet adjustable comprising of 5 sections of 6 feet each.

2. Diameter of base tube 03 inches or more.
3. Diameter of the remaining 04 sections should be adjustable successively with the base tube.
4. Base tube should have 03 legs adjusted at 120 degrees angle for proper erection on ground.
5. All the tubes and legs of the mast should be properly galvanized for protection against rust and it should be made of

heavy duty light weight material to with stand high velocity winds and weather conditions.

#### **Complete installation kit / erection material should be comprising of:-**

- i. Steel Guy wires (06 numbers of suitable length) with Guy locks.
- ii. Base Plate.
- iii. Hammer  $\frac{1}{2}$  kg.
- iv. Steel Pegs
- v. Nails for Base Plate and legs.
- vi. Hooks fixed at appropriate points.
- vii. Mounting Clamp for fixing aerial.
- viii. Required Nuts and bolts.

**Test report:** Test report from any NABL Laboratory must be enclosed for Hot dip galvanizing as per IS-4759 and

structured **steel** used in the fabrication of telescopic mast.

**Certificate:** An ISO 9001 certification for manufacturer of Antenna Masts.

#### **Item No. 08 Mains Battery Charger 12 Volt 10 Ampere.**

**Tentative Qty 30 No**

**(Sample to be deposited in Police Central Store Jammu upto 4.02.2019 1100 hours)**

## Technical Specifications

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 Meters lengths with top.

**Warranty: -** At least 01 Year

**Note: -** There should be registered and authorized service Centre of the offered item in J&K.

## Item No. 09 Solar Battery Charger 12 volts 10 Amps

**Tentative Qty 20 No**

**(Sample to be deposited in Police central Store Jammu 4.02.2019 1100 hours)**

### Technical Specifications

|                        |   |
|------------------------|---|
| Type of Product        | Superior Polycrystalline Solar Panel  |
| Rated Power Range      | 200-240 W   |
| Capacity               | 200 W   |
| Voltage at P max ( V)  | 17.3V   |
| Module Voltage         | 12 V  |
| Rated voltage          | 12V 10 Amp panel Capacity   |
| Battery Type           | 7Ah to 150Ah  |
| Charge Controller type | Solar panel voltage control low 10.8 & high battery charge<br>14.8 cut of system battery charge |
| Load Type              | DC  |
| Application            | Solar System Controller for SMF Batteries   |
| Body Material          | Metal body  |
| Energy Generation      | Excellent in Weak Lights, Stable Performance  |


|  |   |
|--|---|
| Waterproof   | IP67 or better  |
| Current Range (Ampere)   | 12 volt 7Ah to 150Ah  |
| Cell Efficiency  | 0.176 or better   |
| Current at Maximum Power, Imp (A)  | 11.2 A  |
| Array Junction Box   | Complete with 20m / 2Core * 4 Sq mm Cables, Thimbles, lugs etc          |
| Features   | IEC & MNRE Approved, Glass Type- 4 mm or better                         |
| Short Circuit Current  | 12.28 A   |
| Open Circuit Voltage   | 21.6 V or Better  |
| Module Mounting Structure.   | Complete with the system  |
| Certificates: -  | IEC & MNRE Certificate, ISO 9001 Quality Management System certificate. |
| <b>Comprehensive Warranty-</b>   | 02 years on Charge controller and 3 years of Solar Module.              |
| These items would be having warranty beyond tender warranty clause owing to nature of item . |   |
| Note: - The system must be complete with all the required accessories as per standard.       |   |

**Item No. 10 Emergency light with Solar Panel Tentative Qty 20 No**  
**(Sample needs to be deposited in Police Central Store Jammu upto 4.02.2019)**


**Technical Specifications**

|                         |   |
|-------------------------|---|
| Make:                   | Made in INDIA, Reputed Brand  |
| Build from:             | Superior plastic body with 360 degree light output  |
| Number of LED:          | 40 or more  |
| Backup:                 | Discharge duration with intermittent use, more than 11 hours on low use, more than 9 hours on medium and more than 7 hours on high use. |
| High quality panel:     | Compatible solar panel to gain charge in cloudy weather   |
| Recharge Time:          | more than 10 hours  |
| Charging:               | Solar and mains.  |
| Battery in built:       | 3.6/06/12 volts with 2200mA or more Li-ion battery / 4.5ah /7ah or more sealed lead acid battery  |
| Protection:             | Built-in overcharge and undercharge protection  |
| Indicators:             | Charging and discharging indicator  |
| Comprehensive Warranty: | 01 year   |

Note: - The Emergency light with Solar Panel must be complete with all the required accessories

  
Mubassir Latifi JKPS

**AIG Provision & Transport,**  
**For Director General of Police ,**  
**J&K Jammu**

  
17/01/19