



RANCHI MUNICIPAL CORPORATION, RANCHI

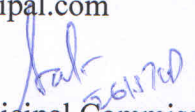
Letter No:- 1413

Date:- 26.05.18

Very sort tender notice for Installation commissioning & handing over the working model of VHF Repeater for Ranchi Municipal Corporation.

S. No	Information	Details
1	Particulars of the work	Installation commissioning & handing over the working model of VHF Repeater for Ranchi Municipal Corporation
2	Publication of RFP	By 29.5/2018
3	Period of availability of RFP for Bidding	From 30.5/18 to 31.5/18
4	Cost of Application Document	5000.00
5	Amount of Earnest Money to be Deposited	25000.00
6	Address for submission of written queries for clarifications	Enforcement Cell, Ranchi Municipal Corporation, Kutchery, Ranchi - 834001
7	Last date and time of receipt of proposals (through Speed Post /Registered post only/ Direct Submission at Office)	7/6/18..... till 4.00 pm
8	Date and Time of Bid Opening Validity of Bid	8/6/18... (will be decided later).
9	Validity of Bid	120 days from the date of opening

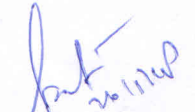
NOTE:- For Further information please visit website www.ranchimunicipal.com


Municipal Commissioner,
Ranchi Municipal Corporation

Memo No.....1413.....Ranchi/Date.....26.05.18

Copy to 1: Shri Amit Kumar GIS Specialist RMC for publishing in local Newspaper.

2: Shri Rajesh Kumar Computer Programmer for uploading in ranchi municipal website


Municipal Commissioner,
Ranchi Municipal Corporation



**Ranchi Municipal Corporation,
RANCHI**

PIN - 834001

TEL.NO.-

FAX NO. :.....

TENDER DOCUMENTS

SHORT TENDER ENQUIRY NO. : ...1413...- 2018/13
TENDER SUBMISSION DATE : (...07/06/18... BY 16.00 Hrs)
TENDER OPENING DATE : (...08/06/18... will be decided letter)
STORE/ITEM NAME : Installation commissioning & handing over
the working model of VHF Repeater
PRICE OF TENDER DOCUMENTS : Rs. 5,000/- (Rupees five Thousand
only in the form of Bank Draft addressed
to the undersigned).



OFFICE OF THE MUNICIPAL COMMISIONER,

Tender Documents

To,

M/s
.....
.....

Ref.:- Ranchi Municipal Corporation Tender Notice Number/2018-2019.

Subject: - Installation commissioning & handing over the working model of VHF Repeater for Ranchi Municipal Corporation.

Sealed tenders are invited, from Dealers / Manufacturer/Supplier/ Authorized agents of the firms in India who are GST registered in Jharkhand for supply of - Installation & commissioning handing over the working model of VHF Repeater) for Ranchi Municipal Corporation to reach, the office of the undersigned on or before..... by 16:00 hrs. The tender documents can be procured on any working day from the office of the undersigned on or before..... Between 11:00 hrs. & 16:00 hrs. after publication of this notice on payment of 5,000/- (non-refundable) through Demand Draft drawn on any scheduled bank, payable at Ranchi in favor of Municipal Commissioner, Ranchi Municipal Corporation. Tender must be complete in all respects. The Technical bid of the tender will be opened at 17:00 hrs on, in the office chamber of the undersigned in the presence of bidder or their authorized representatives.



Part A: Technical Specification

1. **Objective**

RMC is intended to install a Repeater unit for enhancing the frequency of hand held VHF

2. **Scope of work**

a. **Supply of item:** All items to be supplied have been listed in the technical specification in Section 3. In addition, sundry items that may be found necessary during the installation erection & commissioning of Repeater.

b. **Erection, installation & commissioning:** The party shall be responsible for arranging needed material and manpower resourced for erection, installation & commissioning of the LATTICE MAST with DMR repeater. All safety measures to be taken in order to prevent injury to people or damage to equipments during execution of work including erection, installation & commissioning.

c. **Completion Period**

The entire job as defined in scope of work must in section 2 must be completed within 6 weeks of the date of placement of order.

3. **Technical Requirements**

TECHNICAL SPECIFICATION OF 100 FEET GUY SUPPORTED LATTICE MAST

Sr.	Technical Specification	Requirements	Complied/Not Complied (Bidder should specify value of their product)
1	Type of MAST	Lattice type triangular MAST for VHF/MART antenna	
2	Height of Mast	100ft.	
3	Hot dip Galvanized (as per IS 4759) triangular lattice section of 10 ft. each with joining/coupling arrangement at both ends. Each arm of the triangle not less than 12 inches uniformly. Vertical members should be 33 mm dia. M.S pipe of minimum 1/8 inches wall thickness, bracing of dia. 3/8 inch bar at interval of 8 inches. Section after fabrication will be not dip galvanized as per IS 4759	10 Sections.	
4	M.S base plate 18"x18"x5/16" with hinge arrangement for easy erection, hot dip galvanized as per IS 4759	1 no.	
5	Top plane for VHF aerial with holes for pulley, plate of 1/2" in thickness	1 no.	
6	Foundation bolt for base plate size 5/8"x18"	15 no.	
7	Guy anchor with plate welded or threaded with nuts 5/8"x24"	5 no.	



8	Straining acrows 5/8"x12"	15 no.	
9	Dog Clamps	30 nos.	
10	Pulley single aluminium small withd each MAST for VHF aerial	1 no.	
11	Pulay steel rupe 4mm size for lifting of VHF (antenna for monkey pulley)	3 no.	
12	D-Sackle 3/8"	15 no.	
13	Thimble for guy ropes	30 nos.	
14	Guy rope ¼" steel GI with steel core	3 no. each at 30ft., 60ft., 80 ft., 90ft., & 100ft.	
15	Ladder to be provided on one face of the MAST for easy climbing up the top of the MAST	1 no.	
16	Aviation lamp	Aviation warning lamp (red) conform to ICAO regulation should be provided at the top of Mast	
17	Lightning arrestor	Must be provided at 3 meter height from the top of the mast	
18	Other accessories	All other required accessories i.e. suitable pully any wire. Elemps, holts, washers should be provided byh the supplier	
19	General tolerance in size and dimension for structure and raw materials used.	± 3%	

SPECIFICATIONS OF DMR REPEATER			
Sr. No.	Specifications	General	
1.	Frequency Range	VHF HB : 136MHz to 174MHz (Full Band)	
2.	Channel Capacity	30 Channels or more	
3.	Protocol	TDMA	
4.	Channel Spacing	a) Analog- 12.5 KHz	
		b) Digital – TDMA – 12.5 KHz	
5.	Type of Emission	a) Analog- FM- 11K0F3E	
		b) Digital – Bidder should specify	
6.	Frequency Stability	± 2.0 ppm or better	
7.	Antenna Port Impedance	50 Ohms	
8.	Type of Operation	Repeater Mode, Press to Talk	
9.	Indication	Separate LED indication for transmit, receive and Stand-by mode.	
10.	Duty Cycle	Continuous 100 % at 25 Watts & 50% at 50 Watts	



11.	Protection	(i) In case of impedance mismatch the final PA state should not be damaged.	
		(ii) The size of the heat sink shall be adequate to ensure heat sink temperature under steady condition does not rise more than 20°C above Ambient Temperature.	
12.	Repeater Configuration Facility	PC programming.	
13.	Power Source/ Operating Voltage	12 V DC +/- 10% or Mains Operation.	
Receiver			
1.	Sensitivity	Analog – 0.28 µV or better for 12 dB SINAD	
		Digital - 0.35 µV or better @ 3 % BER	
2.	Adjacent Channel Selectivity	Analog – 70 dB@ 12.5 KHz	
		70 dB @ 25 KHz	
3.	Inter modulation Distortion	80 dB or better	
4.	Spurious Response	90 dB or better	
5.	Audio Output	Ext Sp: 4 watt	
6.	Audio Distortion	Less than 5% at 1000 Hz	
7.	Speaker	Front mounted internal speaker and socket for external speaker	
8.	Hum and Noise	50 dB @ 12.5 KHz (analog)	
		55 dB @ 25 KHz (analog)	
Transmitter			
1.	RF Power Output	50 Watts output	
2.	Frequency Deviation	± 2.5 KHz Max for 12.5 KHz,	
		± 5KHz Max for 25KHz Channel spacing	
3.	Spurious & Harmonics Response.	Better than 80 dB	
4.	Modulation Distortion/ Audio Distortion.	Less than 1% @ 1 KHz	
5.	Modulation Sensitivity	Less than 10mV @ 1 KHz Mic input for +/- 1.5 KHz standard deviation for 12.5 Khz TDMA	
Features			
1.	Mode of operations	Repeater should operate in Analog/Digital/Mixed Mode. In Digital Mode Voice & Data Capabilities are required.	
2.	IP Compatibility	The repeater should support use of IP Network using leased lines, internet bandwidth or Microwave. Bidder will bid for Hardware/Software required for IP networking.	
Environmental Specifications			
1.	Operating Temperature Range	-20 °C to + 60° C	



		Accessories & Manuals	
1.	Battery Cable	Battery cable of suitable length	
2.	Handset	MIC with PTT	
3.	Loud Speaker	Suitable External Speaker (If no internal speaker is provide)	
4.	Programming Kit	All necessary hardware and software 2 nos.	
5.	Antenna and Feeder cable	6.5 dB Omni directional fiber glass Antenna with suitable fitting Clamps.	
		Duplexer with 50 watts power handling.	
		Low loss RG-217 cable of 30 meter length with connectors (As per the site requirement) with suitable connectors.	
6.	Power Supply	Power supply cum battery Charger Input 230 V AC +/- 10%, 50 Hz DC Output 13.5 V with required current rating.	
7.	Cabinet	19" Rack Mounting as well as desktop compatible.	
8.	Operation Manual	Manual Hard copy one for each repeater.	
9.	Technical Service Manual	Hard copy 2nos.	
Notes			
Bidders should provide ILAC/NABL approved Lab reports for parameters and environmental tests of the offered models of radios.			

Part B

1. TERMS & CONDITIONS

1. The Bidder should have valid Sales GST No. from Govt. of Jharkhand, PAN No. , up to date Sales tax clearance certificate, etc.
2. A duly signed and stamped Specification (as per Annexure) compliance/deviation chart must be submitted in the following format for each item separately he/she is bidding for:-

SL. No.	Specification as per Tender Document	Fully Complied		Remarks
		Yes	No	

3. All Tender Documents attached with this Invitation of tender including the specifications are SACROSANCT for considering any offer as complete offer. It is, therefore, important that ALL



TENDER DOCUMENTS DULY COMPLETD and signed on each page are returned along with your offer.

4. Written assurance that technical manual will be provided by the firm along with the equipment.
5. Authorization Certificate from original manufacturer must be attached by the bidder, in case bidder is an authorized agent or supplier.
6. Late Submissions for Any bid which is received after the dead line for submission of bid prescribed in the Tender will be rejected or returned unopened to the bidder / bidders authorized representative.
7. The bidder can participate for any/some or, all of the items mentioned above, they will have to deposit EMD accordingly.
8. At first, the technical bid of all the bidders will be opened and evaluated by the Technical Committee. The bidders may be asked for a technical presentation / demonstration / clarification before the Central purchase committee, at short notice, if the committee decides so.
9. The financial bids of these bidders who qualified technically will only be considered for opening of the price bid.
10. The price bid will be opened before the **PROCUREMENT COMMITTEE** and date of opening will be communicated to the qualified bidder to appear before the **PROCUREMENT COMMITTEE** in person or through their representative.
11. Only certified copies of documents should be submitted in support of claims made by the party.
12. The Bidder Firm should deposit the sample along with the tender.
13. Firms will have to deposit EMD with the tender as in the shape of Bank Draft/NSC/Postal saving pass book duly pledged in favor Municipal Commissioner, Ranchi Municipal Corporation of amount 25000/-.
14. Both the Earnest money and Security Money shall carry no interest.
15. It is mandatory for the bidder to extent the work order the under the period time fixed by the department.
16. Successful bidder firm will have to enter into an agreement with the department after depositing a sum equivalent to 5% of the total value of the purchase order as security money in the shape of Postal Saving Pass Book/NSC/Bank Guarantee duly pledged in favor of the undersigned.
17. In the event, the successful bidder fails to sign the agreement or accept the work order within specified time or withdraws his offer within the validity period or fails to accept the order for any reason whatever the earnest money deposited by the bidder shall be forfeited.
18. Payment will be made only after receipt of the material / equipment FOR Central Stores, Ranchi and inspection by the Departmental Inspection Team to their satisfaction.
19. The Department/Municipal commissioner, RMC reserves the right to reject any or all the tenders without assigning any reason thereof.



20. The Department/Municipal Commissioner, RMC also reserve the right to relax any terms and condition in the interest of the Govt.
21. Quantity of Equipments / Items may increase or decrease as per the requirement of Ranchi Municipal Corporation.
22. The Rate as quoted by the bidder shall be valid till 1 year From the date of agreement.
23. All legal disputes shall be settled under the jurisdiction of the Court at Ranchi.
24. Bidder should submit two sealed envelopes separately, one for technical bid (pre-qualification) and the other for financial bid. Both these envelopes should be put in one common sealed envelope and deposited at the place and time mentioned above. The envelopes should super scribe "**Technical Bid**" "**Financial Bid**" and item no./Tender no. in bold letter with name and address of Firm. Both these envelopes shall further be put in one envelope and shall be submitted together super scribe Tender No. and name of Firm.
25. Rate quoted by the bidder will be inclusive of all taxes, levies, duties, packing, forwarding, freight, installation of the system at any locations in the Ranchi and all expenses of marketing, commission etc.
26. Each page of the offer document should be signed & stamped by the bidder firm as a token of acceptance to terms and conditions mentioned herein.
27. The bidder must submit copies of order, if any previous orders has been received from Govt. /Semi Govt. in the recent past.
28. The bidder should not be black listed by any government/government bodies (Original copy of notarized affidavit be enclosed in this regard)
29. Firm should provide last three years ITR copy. The annual turnover of the firm should not be less than Rs 25 Lakhs in the last three financial years. The documentary evidence (attested photocopy of audited balance sheet) must be submitted along with the bid.
30. Firm should submit Rs 25 Lakhs worth of Bank solvency in any nationalized bank.
31. Manufacturing firm should provide SSI/NSIC Registration certificate.
32. Manufacturing firm should provide ISO Registration certificate.

**Municipal Commissioner,
Ranchi Municipal Corporation**



FINANCIAL BID FORMAT

**To,
The Municipal Commissioner
Ranchi Municipal Corporation
Ranchi Jharkhand**

Subject: Financial Bid for the Installation & commissioning handing over the working model of VHF Repeater for Ranchi Municipal Corporation. Ranchi

Dear Sir,

With reference to your Tender No.....dated.....I/we, having examined and thoroughly understood its contents, obligations and requirements, hereby submit my/our Financial bid as detailed in the table below for the aforesaid project. The Bid is unconditional and unqualified and as per the terms and conditions of the RFP document

Sr. No.	Item Head	Rate including all the taxes & other cost, if any
1	Installation & commissioning handing over the working model of VHF Repeater,	

Place:

(Signature of the authorized signatory)

Name and seal of Bidder