

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
MASTER CONTROL FACILITY (MCF)
HASSAN**

**Tender for Supply of RF Downlink switching unit for TTC earth station
at MCF Hassan**

Bids to be submitted online

Tender No.: MCF/PURCHASE-01/MC202100002601 dated 21-04-2021

A. Tender Details

Tender No : **MCF/PURCHASE-01/MC202100002601**

Tender Date : **21-04-2021**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE-01**

Centre : **MASTER CONTROL FACILITY (MCF)**

Supply of RF Downlink switching unit for TTC earth station at MCF Hassan

Supply of RF Downlink switching unit for TTC earth station at MCF Hassan

A.1 Tender Schedule

Bid Submission Start Date : **21-04-2021 10:00**

Bid Clarification Due Date : **26-04-2021 14:00**

Bid Submission Due Date : **19-05-2021 16:00**

Bid Opening Date : **20-05-2021 10:00**

Price Bid Opening Date : **21-06-2021 10:00**

B. Tender Attachments

NA

Instructions To Vendors

1. GFR Compliance to Rule 144 (xi)

1. As per Rule 144(xi) of General Financial Rules, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority (i.e., Department for Promotion of Industry and Internal Trade) in line with Order (Public Procurement No. 1, 2 and 3) dated 23/07/2020 and 24/07/2020 or any amendments thereon issued by the Public Procurement Division, Department of Expenditure, Ministry of Finance.

2.

Hence, Vendors or Agents of a Vendor (Indian or Others) from a country sharing land border with India shall submit the copy of Valid Registration made with DPIIT along with the tender mandatorily, without which the offer will be treated as invalid.

3. Model Certificate for Tenders:

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

4. Model Certificates for Tenders for Work involving possibility of sub-contacting:

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contracting from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contract form such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

5. Provide Compliance for the above in Vendor Specified Commercial Terms.

2. Exemption - Customs Duty & GST

1. MCF is eligible for availing Customs Duty Exemption under Notification No. 51/96 for imported components. The applicable Basic CD as of now is 5% + Social welfare charges under the scope of this Tender.

2. MCF is eligible for availing Concessional GST in terms of Government of India, Ministry of Finance, Department of Revenue Notification No. 45/2017-Central Tax [Rate] dated 14.11.2017 and Notification No. 47/2017-Central Tax [Rate] dated 14.11.2017 and as per the same applicable percentage of GST is 5% for supplies under the scope of this Tender

3. Instruction to Tenderers & Terms and Conditions

1. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

2. The authority of the person signing the tender, if called for, should be produced.

3.

TERMS & CONDITIONS OF TENDER

4. DEFINITIONS:

(a)The term Purchaser shall mean the President of India or his successors or assigns.

(b)The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

(c)The term Stores shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

(d)The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an Officer duly authorized intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

5. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

6. SECURITY DEPOSIT:

On acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding three percent (3%) of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause 23 (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

(a) Security Deposit of three percent (3%) of Purchase Order value is applicable, if PO value exceeds Rs. 500000/-. Same shall be submitted within 15 days from the date of award of PO/Contract

7. WARRANTY/GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within reasonable period from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfil guarantee conditions outlined in clause 7 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to three percent (3%) of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser's site.

(h) Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in para 7 (b) & (c) shall be the asked for guarantee period plus two months.

8. PACKING FORWARDING & INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

9. DESPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on said to contain basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

10. TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents

11. ACCEPTANCE OF STORES:

- (a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.
- (b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.
- (c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.
- (d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 11 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

12. REJECTED STORES:

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

13. INSTRUCTIONS TO TENDERERS:

14. Tenders should be submitted online and follow the activities as per the schedule.

15. Taxes and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown in the relevant fields.

16. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

17. The minimum validity of the tender shall be as follows:

(a) Public Tender/Global Tender (Two-Part) - 120 days from the date of Tender Opening (Part-I) and 60 days from the date of opening of Part-II.

(b) Limited Tender (Two-Part) - 120 days from the date of Tender Opening (Part-I) and 60 days from the date of opening of Part-II.

(c) Open/Public Tender (Single Part) - 90 days from the date of Tender Opening.

(d) Limited Tender (Single Part) - 90 days from the date of Tender Opening.

18. Prices are required to be quoted according to the units indicated. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

19. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer as attachments for which provision is made.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer and the same is attached.

(d) Specifications: Stores offered should strictly conform to our specifications. Deviations, if any, should be clearly indicated. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations as attachment. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

20. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the

tenderers shall supply the same at the rates quoted.

21. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

22. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

23. DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a maximum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorize the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

(c) In the event of action being taken under sub-clause (ii) & (iii) of clause 23 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to repurchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

24. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to

recover liquidated damages under clause 23 thereof.

25. ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

26. PAYMENT:

Contractor's bill will be passed for payment only after the stores have been received, inspected and accepted by the Purchaser.

27. MODE OF PAYMENT:

Normally payment will be made for the accepted stores within 30 days from the date of receipt of the materials.

28. RECOVERY OF SUM DUE:

Whenever any claim for the payment of, whether liquidated or not, money arising out of or under this Contract against the Contractor, the purchaser shall be entitled to recover such sum by appropriating in part or whole, the security deposited by the Contractor, if a security is taken against the Contract. In the event of the security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor under this or any other Contract with the purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the purchaser on demand the remaining balance due. Similarly, if the purchaser has or makes any claim, whether liquidated or not, against the Contractor under any other Contract with the purchaser, the payment of all moneys payable under the Contract to the Contractor including the security deposit shall be withheld till such claims of the purchaser are finally adjudicated upon and paid by the Contractor.

29. INDEMNITY:

The Contractor shall warrant and be deemed to have warranted that all stores supplied against this Contract are free and clean of infringement of any Patent, Copyright or Trademark, and shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent Registration of design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfillment of the contract.

30. ARBITRATION:

In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre - Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be "English" only.

Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.

31. COUNTER TERMS AND CONDITION OF SUPPLIERS:

Where counter terms and conditions printed or cyclostyled conditions have been offered by the supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof is obtained.

32. SECURITY FOR PURCHASE OF MATERIALS:

Successful tenderer will have to furnish in the form of a bank guarantee or any other form as called for by the purchaser towards adequate security for the materials and properties provided by the Purchaser for the due execution of the Contract.

4. Instructions for PT

1. Suppliers can contact Master Control Facility with Tender Number for pre-bid technical discussions if required. They can contact through email ps0-purchase@mcf.gov.in or telephone +91 8172 273594 well in advance before due date.

2. TENDER DOCUMENT FEE IS NOT APPLICABLE FOR TENDER DOWNLOAD.

3. Interested tenderers may, at their option, login to <https://eproc.isro.gov.in/EProcInternetPortalStage/home.html.in> and submit offers.

4. Indian agents while quoting on behalf of their principals are requested to attach necessary authorization letter from their Principals in their bid.

5. The vendors are requested to submit the bids online at least two days prior to closing date to avoid last minute computer network related problems. Request for the extension of the due date will not be considered.
6. This being a two-part tender - Technical and Commercial part separate, the tenders should not attach any documents containing Pricing information. Normally we do not open PART- II (Commercial Offer), if PART - I (Technical Offer) does not meet with our technical specification requirements.
7. Our Tender Enquiry contains technical requirements and specification. The detailed technical specification of your offer should be covered in this part. The Technical documents need to be attached online as a single PDF file without any price information. The tender attachment containing Price details will be treated as unsolicited offers and rejected.
8. The Commercial Terms to be covered in the first Part are Delivery Terms (INCOTERMS in case of imports), Delivery Period, Payment Terms (without mentioning the price or amount), acceptance of Bank Charges payable outside India to the account of supplier, Whether item needs Export License, Validity of the Offer, Warranty/Guarantee, Performance Guarantee, Liquidated Damages (for delayed supplies) etc., which have to be filled up on-line.
9. The quote should indicate quantity wise unit rates separately which have to be filled online. The Prices are to be mentioned both in figures as well as in words. The taxes, duties etc. are to be calculated and indicated in the column provided in online forms explicitly.
10. Once the offer is submitted in online mode by the vendor, he will not be able to provide revised offer.
11. Purchase and Stores Officer, MCF, Hassan reserves the right to accept or reject any bid in part or full without assigning any reason thereof.
12. The exact date and time of opening of price bid of successful tenderers will be intimated as and when the same is scheduled.
13. The technical bid / commercial bid opening date and time indicated is tentative. There may be changes / delay due to Network / Computer Server related problems the tender opening may get delayed by one or two days.
14. In a tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM themselves can bid. But both cannot bid simultaneously for the same item/product in the same tender.

5. Instruction on Two-Part Tender

1. This is two-part tender. Please do not attach price details in pdf or in any other form along with technical bid. If the same is attached, the offer shall be rejected.

2. All information in Vendor Specified Terms shall be provided without fail to avoid unnecessary correspondence / delay in process. The same should reach before technical bid opening date and time without fail.

C. Bid Templates

C.1 Technical Bid - Supply of RF Downlink switching unit for TTC earth station at MCF Hassan

1. C-band RF Downlink switching unit for TTC earth station

Item specifications for C-band RF Downlink switching unit for TTC earth station

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Frequency Range	3GHz-5 GHz	Yes / No / Explain		
2	Configuration	Typical representative block diagram of the unit is provided as per annexure-1. Vendor to the comply the requirements as per the diagram	Yes / No / Explain		
3	Power On/off state	Switch position should retain their original position with transition in power On and off condition.	Yes / No / Explain		
4	Impedance	50 Ohms	Yes / No / Explain		
5	No. of input port	Two at Rear panel	Yes / No / Explain		
6	No. of output port	Two at Front Panel and Three at rear panel	Yes / No / Explain		
7	VSWR input and output	1.6:1	Yes / No / Explain		
8	Insertion Loss @ Output Port	14 dB or better	Yes / No / Explain		
9	Isolation	Output to output (when set to same input) > 17 dB, Output to output (when set to different input) > 60 dB, Input to Output > 60 dB, Input to Input > 60 dB	Yes / No / Explain		
10	RF input power	Max 1 watts Avg (input ports)	Yes / No / Explain		

11	Switching speed	< 50 milli second	Yes / No / Explain		
12	Manual Control	Suitable front panel Control (Toggle or press Butten) shall be provided.	Yes / No / Explain		
13	Front Panel Indications	DC Power On/off, local / Remote, Switch Position Status to be provided.	Yes / No / Explain		
14	Switching life	> 100000 Operations	Yes / No / Explain		
15	Remote Control (Rear panel):	TCP/IP (LAN) based remote monitoring and control for device parameters to be provided along with the ICDs for the monitoring and control software development. Web based GUI is desirable.	Yes / No / Explain		
16	RF Connector	N- Type Female	Yes / No / Explain		
17	AC Supply	Power (Power On switch to be provided)	Yes / No / Explain		
18	Operating temperature	0 to 50 Deg C	Yes / No / Explain		
19	Physical Size:	19-inch Rack Mountable, 1RU or 2 RU Max and Depth not more than 750mm	Yes / No / Explain		
20	Warranty	One Year (Minimum)	Yes / No / Explain		
21	Spurious Switch changeover/spurious status indication change should not occur due to EMI/EMC interference.		-		
22	Make & Model No. of the offered product to be provided.		-		
23	Suitable power chord compatible to Indian standard shall be provided with each unit.		-		

24	All the optional items/modules for meeting the tendered technical specifications shall be part of the quote. Part/model number of the optional items shall be provided.		-		
25	Wherever Vendor is providing OEM manufactured item, vendor to provide Manufacturers Authorization Certificate from the OEM.		-		
26	Individual unit test data shall be provided along with the equipment at the time of supply.		-		
27	The items supplied against this order shall be warranted for trouble free services during the warranty period. (To be continued from below spec No.28)		-		
28	In case of any defects are noticed during the above period due to faulty design, poor workmanship, use of substandard material etc., the same shall be rectified/replaced by the vender/OEM free of all costs within a reasonable period.		-		
29	Compliance statement for each point should be provided for all the specifications along with the quote.		-		
30	Detailed product datasheet clearly indicating each offered specification of the offered Make/Model to be provided to substantiate the technical compliance statement.		-		

31	One set of Operation & Service manual (Soft & Hard) to be provided per unit.		-		
32	If required by MCF, one unit should be supplied for evaluation purpose. Then, subject to acceptance of first unit based on technical evaluation against the specifications, the remaining units shall be supplied. (To be continued from below spec No.33)		-		
33	If the first unit fails to qualify in technical evaluation, then the bid will be cancelled. Vendor to provide the compliance for this.		-		
34	Bid evaluation Criteria: Class-I and Class-II local supplier as per the Government of India Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP).(continued from spec No.35)		-		
35	Ministry of Commerce & Industries vide letter No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 and subsequent amendments.		-		

Document : Specification for Item-1

2. Ku-band RF Downlink switching unit for TTC earth station

Item specifications for Ku-band RF Downlink switching unit for TTC earth station

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Frequency Range	10.7GHz-12.75 GHz	Yes / No / Explain		
2	Configuration	Typical representative block diagram of the unit is provided as per annexure-1. Vendor to the comply the requirements as per the diagram	Yes / No / Explain		
3	Power On/off state	Switch position should retain their original position with transition in power On and off condition.	Yes / No / Explain		
4	Impedance	50 Ohms	Yes / No / Explain		
5	No. of input port	Two at Rear panel	Yes / No / Explain		
6	No. of output port	Two at Front Panel and Three at rear panel	Yes / No / Explain		
7	VSWR input and output	2.0:1	Yes / No / Explain		
8	Insertion Loss @ Output Port	16 dB or better	Yes / No / Explain		
9	Isolation	Output to output (when set to same input) > 17 dB, Output to output (when set to different input) > 60 dB, Input to Output > 60 dB, Input to Input > 60 dB	Yes / No / Explain		
10	RF input power	Max 1 watts Avg (input ports)	Yes / No / Explain		
11	Switching speed	< 50 milli second	Yes / No / Explain		
12	Manual Control	Suitable front panel Control (Toggle or press Butten) shall be provided.	Yes / No / Explain		
13	Front Panel Indications	DC Power On/off, local / Remote, Switch Position Status to be provided.	Yes / No / Explain		
14	Switching life	> 100000 Operations	Yes / No / Explain		

15	Remote Control (Rear panel):	TCP/IP (LAN) based remote monitoring and control for device parameters to be provided along with the ICDs for the monitoring and control software development. Web based GUI is desirable	Yes / No / Explain		
16	RF Connector	SMA Female (N-Type Female Desirable)	Yes / No / Explain		
17	AC Supply	Power (Power On switch to be provided)	Yes / No / Explain		
18	Operating temperature	0 to 50 Deg C	Yes / No / Explain		
19	Physical Size:	19-inch Rack Mountable, 1RU or 2 RU Max and Depth not more than 750mm	Yes / No / Explain		
20	Warranty	One Year (Minimum)	Yes / No / Explain		
21	Spurious Switch changeover/spurious status indication change should not occur due to EMI/EMC interference.		-		
22	Make & Model No. of the offered product to be provided.		-		
23	Suitable power chord compatible to Indian standard shall be provided with each unit.		-		
24	All the optional items/modules for meeting the tendered technical specifications shall be part of the quote. Part/model number of the optional items shall be provided.		-		
25	Wherever Vendor is providing OEM manufactured item, vendor to provide Manufacturers Authorization Certificate from the OEM.		-		

26	Individual unit test data shall be provided along with the equipment at the time of supply.		-		
27	The items supplied against this order shall be warranted for trouble free services during the warranty period. ...(To be continued from spec No.28)		-		
28	In case of any defects are noticed during the above period due to faulty design, poor workmanship, use of substandard material etc., the same shall be rectified/replaced by the vender/OEM free of all costs within a reasonable period.		-		
29	Compliance statement for each point should be provided in the attached format for all the specifications along with the quote.		-		
30	Detailed product datasheet clearly indicating each offered specification of the offered Make/Model to be provided to substantiate the technical compliance statement.		-		
31	One set of Operation & Service manual (Soft & Hard) to be provided per unit.		-		

32	If required by MCF, one unit should be supplied for evaluation purpose. Then, subject to acceptance of first unit based on technical evaluation against the specifications, the remaining units shall be supplied.(To be continued from spec No.33)		-		
33	If the first unit fails to qualify in technical evaluation, then the bid will be cancelled. Vendor to provide the compliance for this.		-		
34	Bid evaluation Criteria: Class-I and Class-II local supplier as per the Government of India Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP)..(continued from spec No.35)		-		
35	Ministry of Commerce & Industries vide letter No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 and subsequent amendments.		-		

Document : Specification for item-2

Supporting Documents required from Vendor

1. Product technical datasheet

2. Manufacturer authorization certificate if applicable as per the specification

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Provide compliance for Performance Bank Guarantee (PBG) as per Tender Terms & Conditions (Required).	Yes / No / Explain	
2	Provide compliance to Security Deposit as per Tender Terms & Conditions.	Yes / No / Explain	
3	Provide compliance to Rule No. 144 (xi) of GFR, 2017 (Refer Instruction)	Yes / No / Explain	
4	Any other terms (Restricted to Commercial Terms)	-	
5	MCF UIN 2918IND00020ONS. Indicate your GSTIN.	-	
6	Indicate applicable percentage (%) of Taxes and/or Duties (Extra/Inclusive).	Yes / No / Explain	
7	Warranty / Guarantee Period (Provide compliance as per Specifications/Tender T&C)	Yes / No / Explain	
8	Delivery Term: (1) F.O.R. MCF, Hassan/Bhopal (Ref. place of delivery) - for indigenous supplies. (2) In case of Supply, Installation & commissioning, Quote shall be on FOR-Destination basis only.	Yes / No / Explain	
9	Payment Term (Provide compliance as per Tender T&C)	Yes / No / Explain	
10	Validity of Tender (Provide compliance as per Tender instruction)	Yes / No / Explain	
11	Delivery Period (Indicate fixed period from the date of award of PO/Contract).	Yes / No / Explain	
12	Currency quoted	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Packing and Forwarding Charges	Freight Charges	Customs Duties	Remark
---------	------	----------	------------	----------	-------------	--------------------------------	-----------------	----------------	--------

1	C-band RF Downlink switching unit for TTC earth station	4.00 Nos.		-					
2	Ku-band RF Downlink switching unit for TTC earth station	3.00 Nos.		-					

Common charges (Applicable for all items)

Other Charges (If any)	
-------------------------------	--