

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

Tender for IF Switch Matrix (32x32)

Bids to be submitted online

Tender No.: MCF/PURCHASE-01/MC202600001301 dated 06-05-2026

A. Tender Details

Tender No : **MCF/PURCHASE-01/MC202600001301**

Tender Date : **06-05-2026**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE-01**

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

IF Switch Matrix (32x32)

1. This is an E-tender. Hence, correspondence through postal/fax/e-mail shall not be accepted.
2. Interested bidders may, at their option, login to <https://eproc.isro.gov.in/EProcInternetPortalStage/home.html.in> for registration under new vendor registration option in vendor login and submit offers. Vendor registration process and other related information is available under vendor information.
3. No Tender fees applicable.
4. Any clarification with respect to this tender shall be raised through clarification window in the portal. No e-mail enquires shall be entertained.

A.1 Tender Schedule

Bid Submission Start Date : **08-05-2026 15:45**

Bid Clarification Due Date : **20-05-2026 14:00**

Bid Submission Due Date : **03-06-2026 16:30**

Bid Opening Date : **04-06-2026 10:00**

Price Bid Opening Date : **08-06-2026 10:00**

B. Tender Attachments

Technical Write-up/Drawings

[Document : general_specifications](#)

Instructions To Vendors

2. 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. 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.

2. Clauses pertaining to GFR 144(xi):

I. 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.

II. Bidder (including the term tenderer, consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

III. Bidder (or entity) from a county which shares a land border with India for the purpose of this Order means:

- (a) An entity incorporated, established or registered in such a country; or
- (b) A subsidiary of an entity incorporated, established or registered in such a country; or
- (c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
- (d) An entity whose beneficial owner is situated in such a country; or
- (e) An Indian (or other) agent of such an entity; or
- (f) A natural person who is a citizen of such a country; or
- (g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

IV. The beneficial owner for the purpose of (iii) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation-

a. Controlling ownership interest means ownership of or entitlement to more than twenty-five per cent. Or shares or capital or profits of the company:

b. Control shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individual, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. [To be inserted in tenders for Works contracts, including Turnkey contracts] The successful bidder shall not be allowed to sub contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

VII. The registration shall be valid at the time of submission of bid and at the time of acceptance of bid.

VIII. If the bidder was validly registered at the time of acceptance/placement of order, registration shall not be a relevant consideration during contract execution.

3. Model Certificate:

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. [Where applicable, evidence of valid registration by the Competent Authority shall be attached].

4. Model Certificates 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. [Where applicable, evidence of valid registration by the Competent Authority shall be attached].

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

3. Instructions to Bidders - Import

1. A Proforma Invoice may be given which should contain the following information (Send the Proforma Invoice in a sealed cover super-scribing Tender Enquiry No. and due date address to Purchase & Stores Officer (Purchase), Salagame Road, Hassan-573201, Karnataka, India. Do not upload this information in the e-procurement portal):

(a) The FOB/FCA value, the C&F value for import by Sea freight / Air freight up to and for Air Parcel Post up to Master Control Facility, Hassan should be separately indicated.

(b) Agency Commission: The amount of commission included in the price and payable to the Indian Agent of the Contractor shall be paid directly to the Indian Agent by the Purchaser in equivalent Indian Rupees on the basis of an Invoice from him applying T.T. buying rate of exchange ruling on the date of placement of the Purchase Order and which shall not be subject to any further exchange variations. This payment will be released to the Indian Agent immediately after Customs clearance of the goods in India.

(c) The Contractor shall invoice only for the net amount payable to him, after deducting the amount of Agency Commission included in the invoice which will be paid to the Indian Agent directly by the Purchaser. However, the Contractor's invoice should separately reflect the amount of commission payable to his Indian Agent.

(d) The earliest delivery period and country of origin of the Stores.

(e) Banker's name, address, telephone/fax Nos. & e-Mail ID of the Contractor.

(f) The approximate net and gross weight and dimensions of packages /cases.

(g) Recommended spares for satisfactory operation for a minimum period of one year.

(h) Details of any technical service, if required for erection, assembly, commissioning and demonstration.

2. The FOB/FCA/C&F/any other INCOTERMS 2020 prices quoted should be inclusive of all taxes, levies, duties arising in the bidder's country. Please note that MCF is fully exempted from paying Customs Duty. Against notification No. 45/2015 dtd. 24.10.2025, we are not liable to pay custom duty for imported goods. At present the applicable percentage of Customs Duty and IGST on Custom Duty is NIL.

3. 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.
4. Samples, if called for, should be sent free of all charges.
5. The details of Import License will be furnished in the Purchase Order.
6. The authority of person signing the tender, if called for, shall be produced.
7. Instructions / Operation Manual containing all assembly details including wiring diagrams should be sent wherever necessary in duplicate. All documents / correspondence should be in English language only.
8. The Purchaser reserves the right to accept or reject the lowest or any offer in whole or part without assigning any reason.
9. It is expressly agreed that the acceptance of the Stores Contracted for is subject to final approval in writing by the Purchaser.
10. Part shipment is not allowed unless specifically agreed to by us. As far as possible stores should be despatched by Indian Flag Vessels through any Agency nominated by us.
11. Inspection / Test Certificate should be provided for the goods after testing it thoroughly at the Contractor's works. If any Inspection by Lloyds or any other testing agency is considered necessary, it shall be arranged by Contractors.
12. Where erection or assembly or commissioning is a part of the Contract, it should be done immediately on notification. The Contractor shall be responsible for any loss/damage sustained due to delay in fulfilling this responsibility.
13. For items having shelf life, those with maximum shelf life should be supplied if order is placed.
14. PO will be placed on technically and commercially suitable lowest offer basis and MCF reserve the right to split the order on L-1 basis.

4. Terms & Conditions - Import

1. DEFINITIONS:

- (a) The term 'Purchaser' shall mean the President of India or his successors or assignees.
- (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, representatives, heirs, executors and administrators unless excluded by the Contract.
- (c) 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 of plant, machinery or equipment of part thereof.
- (d) The term 'Stores' shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order.

2. PRICES:

Tenders offering firm prices will be preferred. Where a price variation clause is insisted upon by a bidder, quotations 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 variations.

3. TERMS OF PAYMENT:

- (i) Being a Department of the Government of India, the normal terms of payment are by Sight Draft. However other terms of payment like establishment of Letter of Credit may be considered by the Purchaser on such terms and conditions as may be agreed upon.
- (ii) The Sight Draft / Letter of Credit will be operative on presentation of the under mentioned documents:
 - (a) 90% Payment against Sight Draft or L/C payment. Balance 10% after receipt and acceptance of stores at MCF-Hassan.
 - (b) Original Bill of Lading / Airway Bill
 - (c) Commercially certified invoices describing the stores delivered, quantity, unit rate and their total value, in triplicate. The invoice should indicate the discounts, if any, and Agency Commission separately.
 - (d) Packing List showing individual dimensions and weight of packages.
 - (e) Country of Origin Certificate in duplicate.
 - (f) Test Certificate.
 - (g) Declaration by the Seller that the contents in each case are not less than those entered in the invoices and the quality of the Stores are guaranteed as per the specifications asked for by the Purchaser.
 - (h) Warranty and guarantee Certificate/s vide Clause 19 herein below

4. IMPORT LICENSE:

Reference to Import License No. & date and Contract number & date shall be prominently indicated in all the documents vide para 3(ii).

5. DEMURRAGE:

Supplier shall bear demurrage charges, if any, incurred by the purchaser due to delayed presentation of shipping documents as prescribed in para 3(ii) to the bankers within a reasonable time (say within 10-12 days) from the date of bill of lading for sea consignments and within 3-4 days from the date of Air Way Bill for air consignments.

6. GUARANTEED TIME DELIVERY:

The time for and the date of delivery stipulated in the Purchase Order shall be deemed to be the essence of the Contract. Delivery must be completed within the date specified therein.

7. INSPECTION AND ACCEPTANCE TEST:

- i) The Purchaser's representatives shall also be entitled at all reasonable times during manufacture to inspect, examine and test on the Contractor's premises the material and workmanship of all stores to be supplied under this Contract and if part of the said stores is being manufactured on other premises, the Contractor shall obtain for the purchaser's representative permission to inspect, examine and test as if the equipment were being manufactured on the Contractor's premises. Such inspection, examination and testing shall not release the Contractor from the obligations under this Contract.
- ii) For tests on the premises of the Contractor or of any of his sub- Contractors, the Contractor shall provide free of cost assistance, labour, material, electricity, fuel and instruments as may be required or as may be reasonably needed by the purchaser's representative to carry out the tests efficiently.
- iii) When the stores have passed the specified test, the purchaser's representative shall furnish a certificate to the effect in writing to the Contractor. The Contractor shall provide copies of the test/s certificates to the purchaser as may be required.

8. MODE OF DESPATCH:

Generally, stores should be despatched through Indian Flagged Vessel or through any other Agency nominated by the purchaser. A copy of the invoice and packing list should invariably be kept inside each of the packages.

9. PORT OF ENTRY:

PORT OF ENTRY: AIR FREIGHT TO KEMPEGOWDA INTERNATIONAL AIRPORT, BENGALURU
SEA FREIGHT TO CHENNAI PORT

10. CONSIGNEE:

Purchase & Stores Officer (Stores), Master Control Facility, Salagame Road, Hassan 573 201, Karnataka State, India.

11. SHIPPING MARKS.

The mark on the shipping documents such as invoice, bill of lading and on the packages should be as follow:

PURCHASE ORDER NO.: DATE:

GOVERNMENT OF INDIA, DEPARTMENT OF SPACE

MASTER CONTROL FACILITY

SALAGAME ROAD

HASSAN 573 201, KARNATAKA STATE, INDIA

DESTINATION: HASSAN, INDIA

12. INSURANCE OF THE STORES:

The necessity or otherwise of insurance will be as indicated in the Purchase Order.

13. CONTRACTOR'S DEFAULT LIABILITY:

The purchaser may upon written notice of default to the Contractor terminate the Contract in whole or in part in circumstances detailed hereunder:

- i. If in the judgement of the Purchaser the Contractor fails to make delivery of Stores within the time specified in the Contract/agreement or within the period for which extension has been granted by the Purchaser to the Contractor.
- ii. If in the judgment of the Purchaser the Contractor fails to comply with any of the other provisions of this Contract.

14. In the event the Purchaser terminates the Contract in whole or in part as provided in Clause 13 the Purchaser reserves the right to Purchase, upon such terms and in such a manner as he may deem appropriate, stores similar to that terminated and the Contractor shall be liable to the Purchaser for any additional costs for such similar stores and/or for liquidated damages for delay as defined in Clause 19 until such reasonable time as may be required for the final supply of stores.

If this Contract is terminated as provided in Clause 13 the Purchaser in addition to any other rights provided in this Article, may require the Contractor to transfer title and deliver to the Purchaser under any of the following clauses in the manner and as directed by the Purchaser:

Any completed stores.

Such partially completed stores, drawing, information and Contract rights (hereinafter called manufacturing material) as the Contractor has specifically produced or acquired for the performance of the Contract as terminated. The Purchaser shall pay to the Contractor the Contract price for completed stores delivered to and accepted, by the purchaser and for manufacturing material delivered and accepted.

In the event the Purchaser does not terminate the Contract as provided in Clause 14, the Contractor shall continue the performance of the Contract in which case he shall be liable to the purchaser for liquidated damages for delay as set out in Clause 18 until the stores are accepted.

15. REPLACEMENT:

If the stores or any portion thereof is damaged or lost during transit, the Purchaser shall give notice to

the Contractor setting forth particulars of such stores damaged or lost during transit. The replacement of such stores shall be effected by the Contractor within a reasonable time to avoid unnecessary delay in the intended usage of the Stores. In case the purchaser agrees, the price towards replacement items shall be paid by the purchaser on the basis of original price quoted in the tender or as reasonably worked out from the tender.

16. REJECTION:

In the event that any of the stores supplied by the Contractor is found defective in material or workmanship or otherwise not in conformity with the requirements of the Contract specifications, the purchaser shall either reject the stores or request the Contractor, in writing, to rectify the same. The Contractor, on receipt of such notification, shall either rectify or replace the defective stores free of cost to the purchaser. If the Contractor fails to do so, the purchaser may at his option either replace or rectify such defective stores and recover the extra cost so involved from the Contractor, or terminate the Contract for default as provided under clause 13 above, or acquire the defective stores at a reduced price considered equitable under the circumstances. The provision of this article shall not prejudice the Purchaser's rights under clause 18.

17. EXTENSION OF TIME:

If the completion of supply of stores is delayed due to reason of force majeure such as acts of god, acts of public enemy, acts of Government, fires, floods, epidemics, quarantine restriction, strikes, freight embargoes, etc., the Contractor shall give notice within 15 days to the purchaser in writing of his claim for an extension of time. The purchaser on receipt of such notice after verification, if necessary, may agree to extend the Contract delivery date as may be reasonable but without prejudice to other terms and conditions of the Contract.

18. DELAY IN COMPLETION / LIQUIDATED DAMAGES:

If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the purchaser shall recover from the Contractor as liquidated damages a sum of one-half of one percent (0.5 percent) of the Contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10 percent) of the Contract price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.

19. 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 are found to have developed under proper use arising from faulty materials, 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 parts thereof are faulty.

(c) If in the opinion of the purchaser it becomes necessary to replace or renew any defective stores, such replacements or renewals shall be made by the Contractor free of all costs to the purchaser, within reasonable period/as instructed in PO/Contract, 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 defects 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.

To fulfill warranty/guarantee conditions outlined in Clause 19 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser - Bank Guarantee format enclosed) in the form of Insurance Surety Bonds, Account Payee Demand Draft, FDR, or online payment in an acceptable form, 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.

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

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, and in such cases, the period of 14 months referred to in Clause 19 (b) and (c) shall be asked for guarantee period plus two months.

20. SECURITY DEPOSIT:

On acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, in the form of Insurance Surety Bonds, Account Payee Demand Draft, FDR, or online payment in an acceptable form, as the Purchaser may determine, security deposit not exceeding three percent (03%) of the value of the Contract as the Purchaser shall specify. Such deposits shall be interest free. 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.

Security Deposit of three per cent (03%) 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

21. REQUIREMENT OF ADDITIONAL NUMBERS OF THE STORES/SPARE PARTS ORDERED:

The Contractor shall also undertake the supply of additional number of items covered by the order as considered necessary by the purchaser at a later date, the actual price to be paid shall be mutually

agreed to after negotiations.

22. PACKING:

The Contractor wherever applicable shall pack and crate all stores for sea / air shipment as applicable in a manner suitable for export to a tropical humid climate, in accordance with internationally accepted export practices and in such a manner so as to protect it from damage and deterioration in transit by road, rail or sea for space qualified stores. The Contractors shall be held responsible for all damages due to improper packing.

The Contractor shall ensure that each box / unit of shipment is legible and properly marked for correct identification. The failure to comply with this requirement shall make the Contractor liable for additional expenses involved.

The Contractor shall notify the purchaser of the date of shipment from the port of embarkation as well as the expected date of arrival of such shipment at the designated port of arrival.

The Contractor shall give complete shipment information concerning the weight, size, content of each packages, etc.

Transshipment of equipment shall not be permitted except with the written permission of the purchaser.

Apart from the despatch documents negotiated through Bank, the following documents shall also be airmailed to the purchaser within 7 days from the date of shipment by sea and within 3 days in case of air-consignments:

Commercial Bill of Lading / Air Way Bill / Post parcel Receipt. (Two non-negotiable copies)

Invoice (3 copies)

Packing List (3 copies)

Test Certificate (3 copies)

Certificate of Origin.

The Contractor shall also ensure that one copy of the packing list is enclosed in each case.

23. ARBITRATION:

In the event of any dispute or difference arising out of or in connection with this Purchase Order, such dispute or difference shall be settled amicably by mutual consultants or through the good offices of the respective parties. If such resolution is not possible, then the unresolved dispute or difference shall be referred to the Sole Arbitrator appointed in accordance with provisions of the ICADR Arbitration Rules, 1996 of the International Center for Alternative Dispute Resolution, New Delhi. The Arbitration shall be conducted in India in accordance with the Rules & Procedures of the Arbitration and Conciliation Act of 1996 or any re-enactment or modification thereof. The expenses for the Arbitration shall be paid as may be determined by the Arbitrator. The 'Seat' for Arbitration shall be Bengaluru. The applicable language for Arbitration shall be 'English' only.

24. LANGUAGE AND MEASURES:

All documents pertaining to the Contract including specification, schedule, notice, correspondence, operating and maintenance instructions, drawings or any other writings shall be written in English

language. The metric system of measurement shall be used exclusively in the Contract.

25. 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 trade mark and shall at all times indemnify the purchaser against all claims which may be made in respect of stores for infringement of any right protected by Patent, Registration of design or Trade Mark, and shall take all risk of accident or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for the sufficiency of all the means used by him for the fulfillment of the Contract.

26. COUNTER TERMS AND CONDITIONS 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.

27. SECURITY INTEREST:

On each item to be delivered under this Contract, including an item of work in progress in respect of which payments have been made in accordance with the terms of the Contract, purchaser shall have a security interest in such items which shall be deemed to be released only at the time when the applicable deliverable item is finally accepted and delivered to the purchaser in accordance with the terms of the Contract. Such security interest of the purchaser shall constitute a prior charge as against any other charge or interest created in respect of such items by any entity.

28. BANK CHARGES:

While the purchaser shall bear the bank charge payable to his Bankers (State Bank of India), the Contractor shall bear the Bank charges payable to his Bankers including the cheques towards advising amendment commissions.

29. TRAINING:

The Contractor shall, if required by the purchaser, provide facilities for the practical training of Purchaser's engineering / technical personnel from India and for their active association on the manufacturing processes throughout the manufacturing period of the Contract / stores, number of such personnel to be mutually agreed upon

30. APPLICABLE LAW:

The Contract shall be interpreted, construed and governed by the laws of India.

31. Limitation of Liability: Except in cases of criminal negligence or wilful misconduct, the aggregate liability of the contractor to the Procuring Entity shall not exceed the total Contract Price. This limitation shall not apply to the cost of repairing or replacing defective equipment, or to any other obligation of the contractor to indemnify the Procuring Entity for IPR infringements etc.

32. PO will be placed on technically and commercially suitable lowest offer basis and MCF reserve the right to split the order on L-1 basis.

5. Instructions to Bidders - Indigenous

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

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

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

4. 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.

5. 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.

6. 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 bidders 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 bidders 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 bidders 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 bidders should address all such options.

Wherever specifically mentioned by us, the bidders could suggest changes to specifications with appropriate response for the same.

7. 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 bidders shall supply the same at the rates quoted.
8. 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.
9. The bidders 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.
10. The Purchaser reserves the right to place order on the successful bidders for additional quantity up to 25% of the quantity offered by them at the rates quoted.
11. The authority of the person signing the tender, if called for, should be produced.
12. PO will be placed on technically and commercially suitable lowest offer basis and MCF reserve the right to split the order on L-1 basis.

6. Terms and Conditions - Indigenous

1. 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.

2. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a bidder, 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.

3. 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 the form of Insurance Surety Bonds, Account Payee Demand Draft, FDR, or online payment in an acceptable form, as the Purchaser may determine, security deposit not exceeding three percent (3%) of the value of the Contract as the Purchaser shall specify. Such deposits shall be interest free. 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 10 (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.

4. 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 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) in the form of Insurance Surety Bonds, Account Payee Demand Draft, FDR, or online payment in an acceptable form, 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 4 (b) & (c) above shall be the asked for guarantee period plus two months.

5. 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.

6. 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.

7. TEST CERTIFICATE:

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

8. 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. 8 (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.

9. 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.

10. 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 10 (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.

11. 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 10(b) thereof.

12. 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.

13. PAYMENT:

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

14. MODE OF PAYMENT:

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

15. 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.

16. 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.

17. 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.

18. 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.

19. SECURITY FOR PURCHASE OF MATERIALS:

Successful bidder 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.

20. (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 bidder 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 bidder 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 bidder 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 bidder should address all such options.

Wherever specifically mentioned by us, the bidder could suggest changes to specifications with appropriate response for the same.

21. Limitation of Liability: Except in cases of criminal negligence or wilful misconduct, the aggregate liability of the contractor to the Procuring Entity shall not exceed the total Contract Price. This limitation shall not apply to the cost of repairing or replacing defective equipment, or to any other obligation of the contractor to indemnify the Procuring Entity for IPR infringements etc.

22. PO will be placed on technically and commercially suitable lowest offer basis and MCF reserve the right to split the order on L-1 basis.

7. Class I & Class II Local Supplier and Non Local Supplier (Make in India Order)

1. For this procurement, bids/tenders from Class I, Class II and Non Local Suppliers/Bidders are admissible. Offer will be evaluated & processed in conformation with GOI order (Specially mentioned below). The bidder shall provide compliance and undertaking as per order and subsequent amendments.

2. i) Compliance to the terms & Preference in purchase will be provided as per Make In India Guidelines order no: P-45021/2/2017-PP(BE-II) dated 04.06.2020 of Department for Promotion of Industry and Internal Trade (DIPP), Ministry of Commerce and industry.

ii) Make In India Guidelines Order no: F.No.6/18/2019 PPD dated 23.07.2020 of Department of Expenditure, Ministry of Finance Under Public procurement division for the General Financial rule (GFRs)

3. Bidder to mention in the certificate/compliance statement, the type of local supplier (Class I, Class II or Non Local Supplier) for the offered quote.

4. Bidder to give final compliance in strictly Yes or No form for the Bidder eligibility criteria: Class I, Class II or Non local supplier

5. If the technical offer is submitted under Class-I or Class-II Local Supplier category, following compliance to be provided:

i) Bidder to provide self certified document for Class I or Class II local supplier with self certification.

ii) Bidder shall clearly mention in the certificate, break up of local content in % without disclosing the actual price and the details of location(s) at which the local value addition is made.

iii) If bidder is not the OEM, bidder to obtain declaration from the named OEM that their product calls for such value addition locally for the stated end use of the equipment/component.

6. If bidder is non-local supplier, then the bidder shall provide Manufacturer Authorization Certificate (MAF) from the OEM.

7. The bidder shall be OEM/any authorized agent/ vendor for OEM or an organization/ a limited company, private company or any agency capable of taking up works of such nature and magnitude & shall produce an undertaking from OEM that the bidder is an authorized entity to quote for this tender and will provide support & spares directly to purchaser, if required, for the offered product and also offered product shall be supported by OEM for the period of minimum 5 years. The authorization shall be tender specific addressed to tender issuing authority

8. OEM/Vendor shall provide the list of customers where such units have been supplied for last 5 years along with satisfactory performance certificate.

8. Instructions for PT

1. Interested bidders may, at their option, login to <https://eproc.isro.gov.in/EProcInternetPortalStage/home.html.in> for registration under new vendor registration option in vendor login and submit offers. Vendor registration process and other related information is available under vendor information.
2. Indian agents while quoting on behalf of their principals are requested to attach necessary authorization letter from their Principals in their bid.
3. 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.
4. 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.
5. 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.
6. The quote should indicate quantity wise unit rates separately which have to be filled online. The taxes, duties etc. are to be calculated and indicated in the column provided in online forms explicitly.
7. Once the offer is submitted in online mode by the vendor, he will not be able to provide revised offer.
8. Purchase and Stores Officer, MCF, Hassan reserves the right to accept or reject any bid in part or full without assigning any reason thereof.
9. The exact date and time of opening of price bid of successful bidders will be intimated as and when the same is scheduled.
10. 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.

11. 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.

12. Suppliers can contact Master Control Facility with Tender Number for pre-bid technical discussions if required. They can contact through email psopurchase@mcf.gov.in or telephone 91 08172 273594 well in advance before due date.

13. TENDER DOCUMENT FEE IS NOT APPLICABLE FOR TENDER DOWNLOAD

9. 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.

3. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises Order 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders or Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer or OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L1 is not an MSE and MSE Seller have quoted price within L1 plus 15 percentage of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L1 price and contract will be awarded for 25 percentage of total quantity. The buyers are advised to refer the OM No. F1-4-2021-PPD dated 18.05.2023 OM No.1-4-2021PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement-Preference to Make in India Order, 2017. Benefits of MSE will be allowed only if seller is validated Udyam profile as well as validated and approved by Buyer after evaluation of documents submitted.

C. Bid Templates

C.1 Technical Bid - IF Switch Matrix (32x32)

1. IF Switch Matrix: Full-Fan-In (32x32) - supply to MCF Hassan

Item specifications for IF Switch Matrix: Full-Fan-In (32x32) - supply to MCF Hassan

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Capacity	32 inputs x 32 outputs, fully populated	Yes / No / Explain		
2	Routing	2.1 Combining and Non-blocking. 2.2 Individual card for each input and output. 2.3 Any input can be routed to any output. 2.4 Many inputs can be routed to each output. 2.5 Each input can only be routed to one output.	Yes / No / Explain		
3	Switching technology	Solid State switch-based technology for faster switching and more ON/OFF cycles	Yes / No / Explain		
4	Frequency Range	70±20 MHz (IF)	Yes / No / Explain		
5	Gain Flatness 50-90 MHz	±1 dB or better	Yes / No / Explain		
6	Gain	0 dB ± 1 dB nominal	Yes / No / Explain		
7	Input Return Loss	12 dB or better	Yes / No / Explain		
8	Output Return Loss	12 dB or better	Yes / No / Explain		
9	1 dB Compression	+2 dBm or better	Yes / No / Explain		
10	Noise Figure	24 dB or better	Yes / No / Explain		
11	OIP3	+12 dBm or better	Yes / No / Explain		

12	Port-Port Isolation	I/P – O/P: 75 dB or better I/P – I/P: 75 dB or better O/P – O/P: 75 dB or better	Yes / No / Explain		
13	Local Control	Via Front panel with touchscreen	Yes / No / Explain		
14	Remote Control	14.1 Ethernet (RJ45), 14.2 Protocols: TCP-IP/SNMP. web browser interface is optional 14.3 Individual Ethernet monitoring for each CPU must be possible. 14.4 Remote Monitoring & Control software should be provided.	Yes / No / Explain		
15	Operating temperature	0 to 45°C or better	Yes / No / Explain		
16	Matrix Cards	16.1 Single (one per input and one per output). 16.2 Hot-swappable. 16.3 Failure in input and output card shall affect only one input port and output port respectively.	Yes / No / Explain		
17	CPU	Dual redundant, Hot-swap	Yes / No / Explain		
18	PSU	Dual redundant, Hot-swap	Yes / No / Explain		
19	AC Power	Dual Input IEC AC Sockets 230 VAC 50Hz Suitable power chords to be supplied	Yes / No / Explain		
20	Power failure	In case of power failure in both AC sources, and shutting down of the matrix, on turning it back –the matrix should retain the same settings as earlier, i.e. prior to the power shutdown	Yes / No / Explain		

21	Alarms	Continuous monitoring of amplifiers, CPU and PSUs must be possible and any faults should result in an alarm on front panel and remotely.	Yes / No / Explain		
22	Dimensions	19" Rack mountable, not more than 6U	Yes / No / Explain		
23	Connectors and impedance	BNC-F, 50 ohms for all inputs as well as for all outputs	Yes / No / Explain		
24	Make and Model No.	Shall be mentioned in the technical bid	Yes / No / Explain		

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2. IF Switch Matrix : Full-Fan-Out (32x32) - supply to MCF Hassan

Item specifications for IF Switch Matrix : Full-Fan-Out (32x32) - supply to MCF Hassan

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Capacity	32 Inputs x 32 Outputs, Fully populated	Yes / No / Explain		
2	Routing	2.1 Individual card for each input and output. 2.2 Distributive, Non-blocking 2.3 Any input can be routed to any output. 2.4 Many outputs can be connected to one input. 2.5 Each output can only be routed to one input.	Yes / No / Explain		
3	Switching technology	Solid State switch-based technology for faster switching and more switching cycle	Yes / No / Explain		
4	Frequency Range	70 MHz \pm 20MHz (IF)	Yes / No / Explain		
5	Flatness 50-90 MHz	\pm 1 dB or Better	Yes / No / Explain		
6	Gain	0dB \pm 1dB	Yes / No / Explain		

7	Input Return Loss	12 dB or Better	Yes / No / Explain		
8	Output Return Loss	12 dB or Better	Yes / No / Explain		
9	1 dB Compression point	0 dBm or better	Yes / No / Explain		
10	Noise Figure	24 dB or Better	Yes / No / Explain		
11	Input Signal level	0 dBm to -80 dBm	Yes / No / Explain		
12	Port-Port Isolation	I/P - O/P : 75 dB or Better I/P - I/P : 75 dB or Better O/P - O/P: 75 dB or Better	Yes / No / Explain		
13	Local Control	Via Front panel with touchscreen	Yes / No / Explain		
14	Remote Control	Ethernet (RJ45), 14.2 Protocols: TCP-IP/SNMP. web browser interface is optional. 14.3 Individual Ethernet monitoring for each CPU must be possible. 14.4 Remote Monitoring & Control software should be provided.	Yes / No / Explain		
15	Operating temperature	0 to 45°C or Better	Yes / No / Explain		
16	CPU	Dual redundant, Hot-swap	Yes / No / Explain		
17	PSU	Dual redundant, Hot-swap	Yes / No / Explain		
18	AC Power	Dual Input IEC AC Sockets, 230 VAC 50Hz Suitable power chords to be supplied	Yes / No / Explain		

19	Power failure	In case of power failure in both AC sources, and shutting down of the matrix, on turning it back -the matrix should retain the same settings like routing path, IP Address etc. as earlier, i.e. prior to the power shutdown	Yes / No / Explain		
20	Alarms	Continuous monitoring of amplifiers, CPU and PSUs must be possible and any faults should result in an alarm on front panel and remotely.	Yes / No / Explain		
21	Matrix Cards	21.1 Single (one per input and one per output). 21.2 Hot-swappable. 21.3 Failure in input and output card shall affect only one input port and output port respectively.	Yes / No / Explain		
22	Dimensions	19" Rack mountable, size not more than 6U	Yes / No / Explain		
23	Connectors and impedance	BNC-F, 50 ohms for all inputs as well as for all outputs	Yes / No / Explain		
24	Make and Model No.	Shall be mentioned clearly	Yes / No / Explain		

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3. IF Switch Matrix: Full-Fan-In (32x32) - supply to MCF Bhopal

Item specifications for IF Switch Matrix: Full-Fan-In (32x32) - supply to MCF Bhopal

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Capacity	32 inputs x 32 outputs, fully populated	Yes / No / Explain		

2	Routing	2.1Combining and Non-blocking. 2.2Individual card for each input and output. 2.3Any input can be routed to any output. 2.4Many inputs can be routed to each output. 2.5Each input can only be routed to one output.	Yes / No / Explain		
3	Switches	Solid State switch-based	Yes / No / Explain		
4	Frequency Range	70±20 MHz (IF)	Yes / No / Explain		
5	Gain Flatness 50-90 MHz	±1 dB or better	Yes / No / Explain		
6	Gain	0 dB ± 1 dB nominal	Yes / No / Explain		
7	Input Return Loss	12 dB or better	Yes / No / Explain		
8	Output Return Loss	12 dB or better	Yes / No / Explain		
9	1 dB Compression	+2 dBm or better	Yes / No / Explain		
10	Noise Figure	24 dB or better	Yes / No / Explain		
11	OIP3	+12 dBm or better	Yes / No / Explain		
12	Port-Port Isolation	I/P – O/P: 75 dB or better I/P – I/P: 75 dB or better O/P – O/P: 75 dB or better	Yes / No / Explain		
13	Local Control	Via Front panel with touchscreen	Yes / No / Explain		

14	Remote Control	14.1 Ethernet (RJ45) connector 14.2 Protocols: TCP-IP socket based/SNMP. 14.3 web browser interface is optional 14.4 Individual Ethernet monitoring for each CPU must be possible. 14.5 Remote Monitoring & Control software should be provided.	Yes / No / Explain		
15	Operating temperature	0 to 45°C or better	Yes / No / Explain		
16	Matrix Cards	16.1 Single (one per input and one per output). 16.2 Hot-swappable. 16.3 Failure in input and output card shall affect only one input port and output port respectively.	Yes / No / Explain		
17	CPU	Dual redundant, Hot-swappable	Yes / No / Explain		
18	PSU	Dual redundant, Hot-swappable	Yes / No / Explain		
19	AC Power	Dual Input IEC AC Sockets 230 VAC 50Hz Suitable cord with Indian Standard to be provided	Yes / No / Explain		
20	Power failure	In case of power failure in both AC sources, and shutting down of the matrix, on turning it back –the matrix should retain the same settings as earlier, i.e. prior to the power shutdown	Yes / No / Explain		
21	Alarms	Continuous monitoring of amplifiers, CPU and PSUs must be possible and any faults should result in an alarm on front panel and remotely.	Yes / No / Explain		
22	Dimensions	19" Rack mountable, not more than 6U	Yes / No / Explain		

23	Connectors and impedance	BNC-F, 50 ohms for all inputs as well as for all outputs	Yes / No / Explain		
24	Make and Model No.	Shall be mentioned clearly	Yes / No / Explain		

Document : Specifications_full_fan_in

4. IF Switch Matrix : Full-Fan-Out (32x32) - supply to MCF Bhopal

Item specifications for IF Switch Matrix : Full-Fan-Out (32x32) - supply to MCF Bhopal

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Capacity	32 Inputs x 32 Outputs, fully populated	Yes / No / Explain		
2	Routing	2.1 Individual card for each input and output. 2.2 Distributive, Non-blocking 2.3 Any input can be routed to any output. 2.4 Many outputs can be connected to one input. 2.5 Each output can only be routed to one input.	Yes / No / Explain		
3	Switches	Solid State switch based	Yes / No / Explain		
4	Frequency Range	70 MHz \pm 20MHz (IF)	Yes / No / Explain		
5	Flatness 50-90 MHz	\pm 1 dB or Better	Yes / No / Explain		
6	Gain	0 dB \pm 1dB	Yes / No / Explain		
7	Input Return Loss	12 dB or Better	Yes / No / Explain		
8	Output Return Loss	12 dB or Better	Yes / No / Explain		
9	1 dB Compression point	0 dBm or better	Yes / No / Explain		
10	Noise Figure	24 dB or Better	Yes / No / Explain		

11	Input Signal level	0 dBm to -80 dBm	Yes / No / Explain		
12	Port-Port Isolation	I/P - O/P : 75 dB or Better I/P - I/P : 75 dB or Better O/P - O/P: 75 dB or Better	Yes / No / Explain		
13	Local Control	Via Front panel with touchscreen	Yes / No / Explain		
14	Remote Control	14.1 Ethernet (RJ45) connector 14.2 Protocols: TCP-IP socket based/SNMP. 14.3 web browser interface is optional 14.4 Individual Ethernet monitoring for each CPU must be possible. 14.5 Remote Monitoring & Control software should be provided.	Yes / No / Explain		
15	Operating temperature	0 to 45°C or Better	Yes / No / Explain		
16	CPU	Dual redundant, Hot-swappable	Yes / No / Explain		
17	PSU	Dual redundant, Hot-swappable	Yes / No / Explain		
18	AC Power	Dual Input IEC AC Sockets, 230 VAC 50Hz Suitable cord with Indian Standard to be provided	Yes / No / Explain		
19	Power failure	In case of power failure in both AC sources, and shutting down of the matrix, on turning it back -the matrix should retain the same settings like routing path, IP Address etc. as earlier, i.e. prior to the power shutdown	Yes / No / Explain		

20	Alarms	Continuous monitoring of amplifiers, CPU and PSUs must be possible and any faults should result in an alarm on front panel and remotely.	Yes / No / Explain		
21	Matrix Cards	21.1 Single (one per input and one per output). 21.2 Hot-swappable. 21.3 Failure in input and output card shall affect only one input port and output port respectively.	Yes / No / Explain		
22	Dimensions	19" Rack mountable, size not more than 6U	Yes / No / Explain		
23	Connectors and impedance	BNC-F, 50 ohms for all inputs as well as for all outputs	Yes / No / Explain		
24	Make and Model No.	Shall be mentioned clearly	Yes / No / Explain		

Document : [Specifications_full_fan_out](#)

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Demonstration	MCF reserves right to ask for the fully functional unit for demonstration for evaluation at its ground station located at Hassan, Karnataka for technical evaluation during technical evaluation stage -before placement of actual order. In this case, party shall be ready to supply one fully functional unit to MCF within 3 weeks of intimation from MCF. Demonstration unit shall be sent and revert back by bidders free of cost	Yes / No / Explain		

2	Unit under development will not be considered for evaluation	Shall be compliant	Yes / No / Explain		
3	Vendor shall ensure that the supplied systems are free from any malicious software (malware)/firm ware. Certificate regarding this shall be obtained from the OEM.	Shall be compliant	Yes / No / Explain		
4	Only original manufacturer or their authorized agents/distributor/dealers should submit quotation. If the quotation is from authorized agent/distributors/dealers, they should submit Letter of Authorization to that effect along with quotation.	Without Authorization letter, the offer will be rejected.	Yes / No / Explain		
5	Operation & Maintenance Manual	To be provided in English	Yes / No / Explain		
6	Interface Control Document (ICD) of the unit to integrate with our own Monitoring & Control Software shall be provided.	to be provided	Yes / No / Explain		
7	Supplier shall quote for the catalogue product only	Shall be compliant	Yes / No / Explain		

8	The offered product datasheet shall be provided	Shall be compliant	Yes / No / Explain		
9	Compliance statement shall be provided against all the tendered specification.	Shall be compliant	Yes / No / Explain		
10	Product shall be 'OFF-THE-SHELF' unit.	Shall be compliant	Yes / No / Explain		
11	Warranty: Minimum warranty period	2 years standard	Yes / No / Explain		
12	Onsite warranty shall be given to the units which are deployed at MCF, Hassan & at MCF, Bhopal	Shall be compliant	Yes / No / Explain		
13	The OEM shall provide the certification with respect to the guarantee supply of spares and maintenance support for at least 7 years from the date of acceptance of the system.	Shall be compliant	Yes / No / Explain		
14	Warranty shall start from the date of acceptance of the system	Shall be compliant	Yes / No / Explain		
15	All required interconnecting cables (if any) / accessories, CDs for Operating system/ MCS software if any shall be provided along with each system.	Shall be compliant	Yes / No / Explain		

16	The vendor or its local representative shall ensure the services of trained support engineers and required resources locally in India for quick response to any operation/main tenance requirement of these matrix units.	Shall be compliant	Yes / No / Explain		
17	1. At the time of installation and commissioning of the system if it is found that some additional hardware accessories or software items with licenses are required to complete the configuration	Shall be compliant	Yes / No / Explain		
18	2. to meet the total system requirement of the configuration which were not included in the vendor's original list of deliverables then vendor is required to supply such items to ensure the completeness of the configuration at no extra cost	Shall be compliant	Yes / No / Explain		

19	3. Vendor should ensure completeness of the list of deliverables in the offer to avoid such discovery during installation.	Shall be compliant	Yes / No / Explain		
20	1. Successful bidder shall ensure that the defects in the system reported during warranty period on any working day are attended to within 48 hours from the date of reporting and rectified within 15 days.	Shall be compliant	Yes / No / Explain		
21	2. In case, the system or any equipment cannot be repaired at the installed site within the stipulated period, and return the defective unit to service center at own cost.	the bidder shall provide identical replacement till the system/equipment is returned duly repaired	Yes / No / Explain		
22	For vendor qualification criteria terms and condition, refer to the attached generate terms and conditions document.	Please provide the comply for the same	Yes / No / Explain		

Supporting Documents required from Vendor

1. Class I/Class II Certification

2. Operation & Maintenance Manual

3. FAT test report shall be submitted

4. OEM Authorization Letter

5. Certification for Non malicious Firmware/Software content

6. Technical Datasheet

7. Compliance statement against all the specification as per the attached format

8. Self certification for compliance of GFR 144(xi)

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	desired delivery period from the date of PO : 16 weeks	Yes / No / Explain	
2	01 Nos. of Full-Fan-In matrix and 01 Nos. of Full-Fan-Out matrix shall be delivered at MCF-Bhopal	Yes / No / Explain	
3	02 Nos. of Full-Fan-In matrix and 02 Nos. of Full-Fan-Out matrix shall be delivered at MCF-Hassan	Yes / No / Explain	
4	Indicate applicable percentage (%) of GST or statutory duties (Mention if taxes are inclusive or exclusive explicitly. If nothing is mentioned, it will be considered as inclusive).	Yes / No / Explain	
5	Delivery Period (Indicate firm delivery period of 16 weeks from the date of award of PO/Contract considering all aspects).	Yes / No / Explain	
6	Delivery Term: (1) For indigenous supplies - F.O.R. MCF, Hassan/Bhopal (Ref. place of delivery) (2) In case of Supply, Installation & commissioning, Quote shall be on FOR-Destination basis only. (3) For Imports to MCF, Hassan - FOB/FCA (INCOTERMS2020) (4) For Imports to MCF, Bhopal - F.O.R. MCF, Bhopal (Use appropriate INCOTERMS-2020)	Yes / No / Explain	
7	P&F/ Freight or any additional charges (if any) with justification and breakup of statutory charges (taxes/duties)	Yes / No / Explain	
8	Payment Term: Kindly confirm 100% payment within 30 days from the date of receipt & acceptance of materials/items or services at our site.	Yes / No / Explain	
9	The validity of Tender is 90 days (in case One part) or 120-150 days (Two-part tender) from the date of opening of the tender. Validity below this time frame is invalid.	Yes / No / Explain	
10	Currency quoted	Yes / No / Explain	
11	Principal(s) Name, address, contact details like telephone no., fax, email etc.	-	

12	Provide compliance to Security Deposit as per Tender Terms & Conditions.	Yes / No / Explain	
13	Indian agent(s) Name, address, contact details like telephone no., fax, email etc.	-	
14	Provide compliance for Performance Bank Guarantee (PBG) as per Tender Terms & Conditions	Yes / No / Explain	
15	Order to be placed on (Provide complete name and address as per registered in E-Procurement portal. If other than registered address update the same in E-Procurement prior to the bid submission.)	Yes / No / Explain	
16	Provide compliance to Rule No. 144 (xi) of GFR, 2017 (Mandatory to submit Self declaration as per Model Certificate with mention of Country of Origin in Clause No. 5. of GFR Compliance to Rule 144 (xi) in Tender Document)	Yes / No / Explain	
17	MCF UIN No. 2918IND00020ONS. Indicate your GSTIN.	Yes / No / Explain	
18	Any other terms	Yes / No / Explain	
19	Indicate GeM Seller ID (For Domestic Suppliers)	Yes / No / Explain	
20	Liquidated Damages: The time for and the date of delivery of the stores stipulated in Purchase Order shall be the essence of the Contract and delivery must be completed on or before the specified dates. 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 to recover from the Contractor as agreed liquidated damages and not by the 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 maximum of 10%.	Yes / No / Explain	

21	Arbitration and Jurisdiction: Any dispute, controversy, or claim arising out of or relating to this Purchase Order shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. The seat of arbitration shall be Hassan, and the courts at Hassan shall have exclusive jurisdiction for all proceedings arising out of or relating to this agreement.	Yes / No / Explain	
22	Force Majeure: Neither party shall be liable for failure to perform any part of this contract where such failure is caused by an event of force majeure, including but not limited to acts of God, war, riot, civil disturbance, pandemic, fire, flood, or any governmental restriction. The affected party shall notify the other within ten days of the event, specifying the nature and expected duration. Obligations will be suspended only for the duration and to the extent affected by the force majeure event.	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Packing and Forwarding Charges	Customs Duties	Freight Charges	Remark
1	IF Switch Matrix: Full-Fan-In (32x32) - supply to MCF Hassan	2.00 Nos.		-					
2	IF Switch Matrix : Full-Fan-Out (32x32) - supply to MCF Hassan	2.00 Nos.		-					
3	IF Switch Matrix: Full-Fan-In (32x32) - supply to MCF Bhopal	1.00 Nos.		-					

4	IF Switch Matrix : Full-Fan-Out (32x32) - supply to MCF Bhopal	1.00 Nos.		-					
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Common charges (Applicable for all items)

Other Charges (if any, provide details in remarks)	
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