

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

**Tender for SUPPLY, INSTALLATION, TESTING AND COMMISSIONING
OF IP BASED AUDIO-VISUAL SWITCHER AT MCF- BHOPAL**

Bids to be submitted online

Tender No.: MCF/PURCHASE-01/MC202300008401 dated 10-04-2024

A. Tender Details

Tender No :	MCF/PURCHASE-01/MC202300008401
Tender Date :	10-04-2024
Tender Classification:	GOODS
Purchase Entity :	PURCHASE-01
Centre :	MASTER CONTROL FACILITY (MCF)

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF IP BASED AUDIO-VISUAL SWITCHER AT MCF- BHOPAL

1. This is an E-tender. Hence, correspondence through postal/fax/e-mail shall not be accepted.
2. Interested tenderers 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 :	10-04-2024 15:00
Bid Clarification Due Date :	24-04-2024 14:30
Bid Submission Due Date :	08-05-2024 16:30
Bid Opening Date :	09-05-2024 10:00
Price Bid Opening Date :	13-05-2024 10:00

B. Tender Attachments

Technical Write-up/Drawings

Document : RFP for SITC of IP based AV switcher at MCF-Bhopal

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.

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 country 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. 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.

4. 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].

5. 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].

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

3. Instructions to Tenderes - Indigenous

1. 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.

2. 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.

3. 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.

4. 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.

5. Taxes and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown in the relevant fields of Price Bid.
6. Tenders should be submitted online and follow the activities as per the schedule.
7. The authority of the person signing the tender, if called for, should be produced.
8. 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.
9. 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.
10. 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.
11. 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.

4. Terms and Conditions - Indegenious

1. (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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. MODE OF PAYMENT:

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

12. 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.

13. PAYMENT:

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

14. 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.

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. 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.

17. 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. 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.

18. 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.

19. TEST CERTIFICATE:

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

20. 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.

21. 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) 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 7 (b) & (c) shall be the asked for guarantee period plus two months.

5. Class I and Class II Local Supplier (Make in India Order)

1. For this procurement, bids/tenders from Class I and Class II 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 shall mention in the certificate/compliance statement, the type of local supplier (Class I or Class II Local supplier) for the offered quote.

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

5. 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. Instructions for PT

1. 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.

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

3. Interested tenderers may, at their option, login to <https://eproc.isro.gov.in/EProcInternetPortalStage/home.html> 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.
4. Once the offer is submitted in online mode by the vendor, he will not be able to provide revised offer.
5. 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.
6. Purchase and Stores Officer, MCF, Hassan reserves the right to accept or reject any bid in part or full without assigning any reason thereof.
7. Suppliers can contact Master Control Facility with Tender Number for pre-bid technical discussions if required. They can contact through email psa-purchase@mcf.gov.in or telephone +91 08172 273594 well in advance before due date.
8. TENDER DOCUMENT FEE IS NOT APPLICABLE FOR TENDER DOWNLOAD.
9. 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.
10. The exact date and time of opening of price bid of successful tenderers will be intimated as and when the same is scheduled.
11. 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.
12. 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.
13. 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.

7. Instruction on Two-Part Tender

1. 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.
2. 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.

C. Bid Templates

C.1 Technical Bid - SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF IP BASED AUDIO-VISUAL SWITCHER AT MCF- BHOPAL

1. Encoder:Supply of AV over IP based encoder

Item specifications for Encoder

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Input	1x HDMI	Yes / No / Explain		
2	Output	Twister Pair on RJ-45	Yes / No / Explain		
3	Resolution Support	Upto 4K (4096x2160) @ 60 Hz, UHD (3840x2160) @ 60 Hz 4:4:4	Yes / No / Explain		
4	EDID Management	Should be able to automatically manage the EDID communication between connected devices	Yes / No / Explain		
5	HDMI Data rate	18 Gbps	Yes / No / Explain		
6	Protocols Supported	HTTPS, IGMPv2/v3, IPv4, TCP, UDP	Yes / No / Explain		
7	HDCP Compliance	Minimum HDCP 2.2	Yes / No / Explain		
8	Operating Temperature	Should be operational upto 40 °C temperature	Yes / No / Explain		

9	Signal Transmission Distance	Upto 100m over CATx cable .The encoder shall transmit digital video and audio signals as well as control signals on a 1 Gigabit Ethernet link via a single CATx cable and shall support signal extension distance up to 100m with direct connection.	Yes / No / Explain		
10	Bandwidth support	1 Gbps or more	Yes / No / Explain		
11	Power Supply	PoE or PoE+ or External power supply	Yes / No / Explain		
12	Compliance	CE	Yes / No / Explain		

2. DECODERS-Supply of 1G AV over IP Scaling Decoder Type-I

Item specifications for DECODERS

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Input	Twister Pair on RJ-45	Yes / No / Explain		
2	Output	1x HDMI	Yes / No / Explain		
3	Resolution Support	Upto 4K (4096x2160) @ 60 Hz, UHD (3840x2160) @ 60 Hz 4:4:4	Yes / No / Explain		
4	EDID Management	Should be able to automatically manage the EDID communication between connected devices	Yes / No / Explain		
5	Built in scaling	Selectable output rates from 640x480 up to UHD 4096x2160 @ 60Hz	Yes / No / Explain		
6	HDMI Data rate	18 Gbps	Yes / No / Explain		

7	Protocols Supported	HTTPS, IGMPv2/v3, IPv4, TCP, UDP	Yes / No / Explain		
8	HDCP Compliance	Minimum HDCP 2.2	Yes / No / Explain		
9	Audio output	1 analog stereo, balanced/unbalanced	Yes / No / Explain		
10	Control Ports	1 or More RS-232 ports	Yes / No / Explain		
11	HDMI	HDMI 2.0	Yes / No / Explain		
12	Operating Temperature	Should be operational in upto 40 °C temperature	Yes / No / Explain		
13	Bandwidth support	1 Gbps or more	Yes / No / Explain		
14	Signal Transmission Distance	100m over CATx cable	Yes / No / Explain		
15	Power Supply	PoE or PoE+ or External power supply	Yes / No / Explain		
16	Compliance	CE	Yes / No / Explain		

3. DECODERS-Supply of 1G AV over IP Scaling Decoder Type-II

Item specifications for DECODERS

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Input	Multi-mode OFC on SFP connector OR Alternatively, a network switch (with SFP transceiver)/ Media converter (fiber to twisted pair with SFP transceiver) can be used by vendor with each unit to meet the requirement. their pricing to be included in the price of 1G AV over IP Scaling Decoder Type-II).	Yes / No / Explain		
2	Output	1x HDMI	Yes / No / Explain		

3	Resolution Support	Upto 4K (4096x2160) @ 60 Hz, UHD (3840x2160) @ 60 Hz 4:4:4	Yes / No / Explain		
4	EDID Management	Should be able to automatically manage the EDID communication between connected devices	Yes / No / Explain		
5	Scaling	Selectable output rates from 640x480 up to UHD 4096x2160 @60 Hz	Yes / No / Explain		
6	Video Data rate	18 Gbps	Yes / No / Explain		
7	Protocols Supported	HTTPS, IGMPv2/v3, IPv4, TCP, UDP	Yes / No / Explain		
8	HDCP Compliance	Minimum HDCP 2.2	Yes / No / Explain		
9	Audio output	1 analog stereo, balanced/unbalanced	Yes / No / Explain		
10	Control Ports	1 or More RS-232	Yes / No / Explain		
11	HDMI	HDMI 2.0	Yes / No / Explain		
12	Operating Temperature	Should be operational in upto 40 °C temperature	Yes / No / Explain		
13	Video Bitrate	1 Gbps or more	Yes / No / Explain		
14	Signal Transmission Distance	400 m over OM4 multimode optical fiber cable	Yes / No / Explain		
15	Power	PoE/PoE+ or in-built or External power supply through adaptor.	Yes / No / Explain		
16	Compliance	CE	Yes / No / Explain		

4. Audio Digital Signal Processor-Supply of AV Control Processor (If AV over IP System Manager is required, the same to be included with it.)

Item specifications for Audio Digital Signal Processor

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Description	Versatile, high-performance control processor with a secure, dedicated AV LAN port for managing large AV Systems	Yes / No / Explain		
2	Control Ports	Should have minimum One bidirectional RS-232 serial ports, one or more bidirectional RS-232/RS-422/RS-485 serial ports, One IR/Serial ports for one-way control of external devices, minimum Four I/O ports, two relays for controlling room functions, should support Ethernet monitoring and control. External boxes can be used to fulfil the required no. of ports.	Yes / No / Explain		
3	Touch / Button panel Support	Yes	Yes / No / Explain		
4	Memory	At least 512 MB RAM and 8 GB Flash memory	Yes / No / Explain		
5	Ethernet Control Data Rate	10/100Base-T, half/full duplex with auto detect.	Yes / No / Explain		
6	Wireless Support	Should include any extra application/ license required for control through wireless mobile device operating on iOS OR android.	Yes / No / Explain		
7	Ethernet Port	10/100Base-T Ethernet monitoring and control minimum 8 devices	Yes / No / Explain		
8	Operating Temperature	Should be operational in upto 40 °C temperature	Yes / No / Explain		
9	Protocols	TCP, UDP, HTTPS	Yes / No / Explain		
10	Compliance	CE	Yes / No / Explain		

5. APPLICATION SOFTWARE-License for centralized control

Item specifications for APPLICATION SOFTWARE

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	License for centralized control	License for centralized control	Yes / No / Explain		

6. HDMI cables-Supply of High Speed HDMI Cable**Item specifications for HDMI cables**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Cable length	6 feet	Yes / No / Explain		
2	Signal Type	HDMI 2.0	Yes / No / Explain		
3	Video Data rate support	18 Gbps or better	Yes / No / Explain		
4	Supported Resolution	4K or more	Yes / No / Explain		
5	Connector Type	Gold plated contacts.	Yes / No / Explain		
6	Compliance	UL.	Yes / No / Explain		

7. COMPUTER WORKSTATION-For centralized Control**Item specifications for COMPUTER WORKSTATION**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Chassis	Tower/Mini tower	Yes / No / Explain		
2	Processor	Intel i7, 12th Generation or higher processor	Yes / No / Explain		
3	Interface ports	USB 3.0 (min 2 Nos), USB 2.0 (min 4 Nos), Min. 2 HDMI ports	Yes / No / Explain		
4	Audio	Onboard support (built-in)	Yes / No / Explain		

5	RAM	16 GB DDR4 or higher	Yes / No / Explain		
6	Hard Disk	1 TB SSD	Yes / No / Explain		
7	Graphics Card	NVIDIA card RTX 3080 GeForce or better.	Yes / No / Explain		
8	Optical drive	DVD RW	Yes / No / Explain		
9	Ethernet	Gigabit Ethernet port(10/100/1000 Mbps)	Yes / No / Explain		
10	Monitor	IPS Display, 24" diagonal, anti glare, aspect ration16:9, 1 HDMI Port, 1 Display Port, Resolution: 1920 X 1080, Refresh Rate 60 Hz or better, Viewing Angle: 178deg/178 Deg.	Yes / No / Explain		
11	Keyboard	Wireless windows standard keyboard and wireless USB optical mouse.	Yes / No / Explain		
12	Mouse	USB Optical Mouse-Wireless	Yes / No / Explain		
13	Power Supply	230 V AC. 50 Hz	Yes / No / Explain		
14	Software	Windows 11 Professional or higher version, pre-installed with license	Yes / No / Explain		
15	Warranty	3 Years, on site by OEM	Yes / No / Explain		

16	Note	Catalog/data sheet to be provided along with quotation, Make and Model to be mentioned by vendor. During Warranty period the faulty Hard disk will not be returned to the vendor after replacement. (Defective Media Retention) Product must have 2 years of end of life support from the date of acceptance. Malicious Software declaration to be provided.	Yes / No / Explain		
17	Antivirus	Licensed antivirus with 3 years subscription to be provided with each unit.	Yes / No / Explain		

8. Network switch-AV over IP PoE Network switch with 10 G SFPs

Item specifications for Network switch

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Details of Ports	24 or more 10/100/1000 Base-T RJ-45 Ports having PoE+ , 2 or more independent 1000/10G Base-X SFP+ ports (1G,10G)	Yes / No / Explain		
2	Switching Capacity	Upto 128 Gbps or better	Yes / No / Explain		
3	Forwarding Rate (throughput)	90 Mpps or better	Yes / No / Explain		

4	Features	MAC Address Table,IPV4 and IPv6 support, IGMP Snooping (V1,V2 and V3) IGMP Querier, Multicast Listener Discovery(MLD), Spanning Tree Protocol (STP), Rapid Spanning Tree protocol (RSTP), Multiple Spanning tree Protocol(MSTP), Flow Control, Port Mirroring, IEEE 802.1 Q VLAN Support, Port based QoS, Broadcast, multicast, unknown unicast Storm control, Access Control List, Jumbo Frame Support, Auto Negotiation	Yes / No / Explain		
5	Management	Web based GUI,Telnet server, SNMP, RMON, Software/Firmware upgrade via Web Browser, Syslog, SNTP	Yes / No / Explain		
6	Operating Temperature	0 deg C to 50 deg C	Yes / No / Explain		
7	Power Supply	230V AC, 50Hz with tolerance of +-5 % or suitable power adapter, Redundant power supply in built in the switch chassis to be provided.	Yes / No / Explain		
8	Form factor	1U (19") rack mount full width with rack mount kit	Yes / No / Explain		
9	Preferred (optional)	AV Bridging features	Yes / No / Explain		
10	Specifications of SFP Modules	Each switch to be provided with 2 Nos. of SFP+ modules.	Yes / No / Explain		
11	Data rate of SFP Module	10 GE	Yes / No / Explain		
12	Interface in SFP Module	LC interface	Yes / No / Explain		

13	SFP module -Optical Fibre	Single mode	Yes / No / Explain		
14	Wavelength of SFP Module	1310nm	Yes / No / Explain		
15	Driving Distance of SFP Module	10 Km	Yes / No / Explain		

9. INSTALLATION AND COMMISSIONING (to include supply of additional cables and connectors as per site requirement)

Item specifications for INSTALLATION AND COMMISSIONING

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installation and commissioning	Installation and commissioning to be done at MCF-Bhopal	Yes / No / Explain		

Supporting Documents required from Vendor

1. Unpriced Bill of Material

2. MSME certificate (If applicable)

3. Signed and stamped RFP doc (as token of acceptance of all T&Cs)

4. Class-I/Class-II related declaration

5. The makes quoted in the tender should preferably have fully complied own service center in the country. Details to be provided.

6. The makes quoted in the tender must have been installed and functional in government departments, public undertaking company or reputed private institutes for more than 2 years. (copy of proof to be provided).

7. Data sheets of the products offered

8. Details of Income Tax PAN No.

9. Proof of GST Registration No.

- 10. CA Certified profit and loss account statement to prove that the agency is a profit making company during last 3 financial years.**
- 11. CA certified document containing annual turnover of last three financial years. Minimum annual average turnover of the vendor should be Rs. 50 Lakhs (Rupees Fifty Lakhs only).**
- 12. Details of PO and completion certificate for Last 5 years's experience**
- 13. Duly filled Annexure-6 (Malicious Code certificate)**
- 14. Duly filled Annexure-5 (Agreement with product vendors on Back to Back support-7 yrs.)**
- 15. Duly Filled Annexure-4 (OEM Authorization Certificate))**
- 16. Providing at least 03 PO of similar nature in preceding 3 (three) financial years (i.e. 2020-21, 2021-22 and 2022-23) and up to bid submission date, out of which at least one work order/PO should be of value Rs. 15 Lakhs or more in reputed institutions**

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

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

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Packing and Forwarding Charges	Customs Duties	Freight Charges	Remark
1	Encoder: Supply of AV over IP based encoder	7.00 Nos.		-					
2	DECODERS- Supply of 1G AV over IP Scaling Decoder Type-I	6.00 Nos.		-					
3	DECODERS- Supply of 1G AV over IP Scaling Decoder Type-II	2.00 Nos.		-					
4	Audio Digital Signal Processor-Supply of AV Control Processor (If AV over IP System Manager is required, the same to be included with it.)	1.00 Nos.		-					
5	APPLICATION SOFTWARE- License for centralized control	1.00 Nos.		-					
6	HDMI cables-Supply of High Speed HDMI Cable	20.00 Nos.		-					

7	COMPUTER WORKSTATION- For centraliz ed Control	1.00 Nos.		-					
8	Network switch- AV over IP PoE Network switch with 10 G SFPs	2.00 Nos.		-					
9	INSTALLATION AND COMMIS SIONING (to include supply of additiona l cables and connecto rs as per site requirem ent)	1.00 Sets		-					

Common charges (Applicable for all items)

Other Charges (if any, provide details in remarks)	
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