

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

Tender for Supply, installation, Testing and commissioning of SCADA system at Power station #3, MCF, Hassan.

Bids to be submitted online

Tender No.: MCF/PURCHASE-01/MC202400004801 dated 13-06-2024

A. Tender Details

Tender No :	MCF/PURCHASE-01/MC202400004801
Tender Date :	13-06-2024
Tender Classification:	WORKS
Purchase Entity :	PURCHASE-01
Centre :	MASTER CONTROL FACILITY (MCF)

Supply, Installation, Testing and Commissioning of SCADA system at Power station 3, MCF, Hassan.

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 :	13-06-2024 16:00
Bid Clarification Due Date :	27-06-2024 14:00
Bid Submission Due Date :	10-07-2024 16:30
Bid Opening Date :	11-07-2024 10:00
Price Bid Opening Date :	15-07-2024 10:00

B. Tender Attachments

Technical Write-up/Drawings

Document : Technical specifications

Document : Layout

Instructions To Vendors

1. 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.

2. 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.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.
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.

3. 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.

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. 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 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. 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.

6. 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 from 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.

C. Bid Templates

C.1 Technical Bid - Supply, installation, Testing and commissioning of SCADA system at Power station #3, MCF, Hassan.

- 1. SCADA : PLC panel having programmable logic controller / CPU DI, DO , AI modules etc as per sl no. 1 of BOM (annexure-4) and detailed specifications as per table -8, Part-A , B & C , annexure-1 ,2 (sl no. 3.1 to 3.10) ,3 &4**
- 2. SCADA : Installation of the above mentioned PLC panel under sl no.1 including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of all types of cables etc.**
- 3. SCADA Optional Items : Field panel for SCES#8 as per sl no. 3 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1,2,3 and 4 and Table-1.**
- 4. SCADA Optional Items : Installation of the above mentioned panel under sl no.3 above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of cables etc.**
- 5. SCADA Optional Items :Field panel for SCES#9 as per sl no. 5 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1,2,3 and 4 and Table-2.**
- 6. SCADA Optional Items : Installation of the above mentioned panel under sl no. 5 above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of cables etc.**
- 7. SCADA Optional Items :Field panel for LCC as per sl no. 7 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1,2,3 and 4 and Table-3.**
- 8. SCADA Optional Items :Installation of the above mentioned panel under sl no. 7 above including supply and fixing of MS support channels and arranging for minor Civil works etc. .Work also including termination of cables etc.**
- 9. SCADA : Field panel for SCES#11 as per sl no. 9 of BOM (annexure-4) and detailed**

specifications as per Part-A , B , annexure-1,2,3 and 4 and Table-4.

10. SCADA :Installation of the above mentioned panel under sl no. 9 above including supply and fixing of MS support channels and arranging for minor Civil works etc. .Work also including termination of cables etc.

11. SCADA : Field panel for SCES#10 as per sl no. 11 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1,2,3 and 4 and table-5.

12. SCADA : Installation of the above mentioned panel under sl no. 11 above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of cables etc.

13. SCADA : Field panel for HITS as per sl no. 13 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1,2,3 and 4 and table- 6.

14. SCADA :Installation of the above mentioned panel under sl no. 13above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of cables etc.

15. SCADA : Field panel for PCC hall(PS#3) as per sl no. 15 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1,2,3 and 4 and table-7.

16. SCADA : Installation of the above mentioned panel under sl no. 13 above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of cables etc.

17. PVC INSULATED MULTI CORE COPPER CONDUCTOR CABLE : Supply of 6 Core x 1.5 sqmm cables as per the detailed specifications mentioned sl no. 17 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1, 2 (Sl no.10),3 and 4.

18. CABLE LAYING : Laying of 6 core x 1.5 sqmm Multi core cable mentioned in sl no.17 above including all the installation accessories and as per the details mentioned in sl no. 18 of the BOM (annexure-4) and detailed specifications as per Part-A , B ,

- 19. PVC INSULATED MULTI CORE COPPER CONDUCTOR CABLE :** Supply of 10 Core x 1.5 sqmm cables as per the detailed specifications mentioned sl no. 19 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure-1, 2 (SI no.10),3 and 4.
- 20. CABLE LAYING :** Laying of 10 core x 1.5 sqmm Multi core cable mentioned in sl no.19 above including all the installation accessories and as per the details mentioned in sl no. 20 of the BOM (annexure-4) and part-A,B
- 21. PVC INSULATED MULTI CORE COPPER CONDUCTOR CABLE :** Supply of 30 Core x 1.5 sqmm cables as per the detailed specifications mentioned sl no. 21 of BOM (annexure-4) and detailed specifications as per annexure-1, 2 (SI no.10),3 and 4.
- 22. CABLE LAYING :** Laying of 30 core x 1.5 sqmm Multi core cable mentioned in sl no.21 above including all the installation accessories and as per the details mentioned in sl no. 22 of the BOM (annexure-4) and detailed specifications as per annexure-1,2,3
- 23. SCADA :** Supply of suitable PLC development cum viewer software with necessary permanent license for the tags/ points mentioned in the sl no. 23 of BOM , different annexures of part-A, B & C and as per system requirements (For Both Ele and AC).
- 24. SCADA :** Installation of PLC development software supplied in sl no 23 above with all the necessary configurations, activating licenses etc as per sl no. 24 of BOM (annexure-4) and detailed specifications as per Part-A ,&C
- 25. SCADA :** Supply of suitable SCADA run time / viewer software with necessary permanent license for the tags/ points mentioned in the sl no. 23 of BOM , different annexures and as per system requirements (For Part-A & B electrical systems).
- 26. SCADA :** Installation of SCADA runtime / viewer software supplied in sl no 25 above with all the necessary configurations, activating licenses etc as per sl no. 26 of BOM (annexure-4) and detailed specifications as per annexure-1,2,3,4
- 27. SCADA Optional Items :**Supply of suitable SCADA run time / viewer software with necessary permanent license for Air conditioning sensors /tags/ points mentioned in Part-C and as per system requirements.

28. SCADA Optional Items : Installation of SCADA runtime / viewer software supplied in sl no 27 above with all the necessary configurations, activating licenses etc as per requirements of part-C (Air conditioning system)

29. COMPUTER WORKSTATION : Computer workstation for using as development and runtime / viewer servers having specifications as per sl no. 29 of BOM (Annexure-4) and detailed specifications as per annexure-1,2(Sl no.5),3,4

30. SCADA : Installation and configuration of computer workstation mentioned under sl no. 29 above and as per detailed specifications in Part-A and B and annexures 1, 2 &3

31. SCADA Optional Items : Supply of minimum 6 core fiber optic cable (FO) as per sl no. 31 of BOM and as per detailed specifications in Part-A and B and annexures 1, 2(sl no.7) , 3 &4

32. SCADA Optional Items : Laying of above mentioned FO cable (Sl no.31 above) and partially MCF supplied FO cable in existing trench /wall etc. through HDPE pipe (HDPE pipe to be supplied)

33. SCADA Optional Items :Supply of cat 6 /Ethernet communication cable having 3 pairs and with external PVC insulation as per sl no. 33 of BOM and as per detailed specifications in Part-A and B and annexures 1, 2(sl no.7) , 3 &4

34. SCADA Optional Items : Laying of above mentioned CAT6 cable (Sl no.33 above) and partially MCF supplied FO cable in existing trench /wall etc. through HDPE pipe (HDPE pipe to be supplied)

35. SCADA Optional Items : Charges towards preparation of ladder logic as per requirement of MCF and interfacing all the devices, connections etc as per sl no. 35 of BOM and as per detailed specifications in Part-A , B &C and annexures 1, 2 ,3 &4

36. SCADA Optional Items : Supply of one set of spares as per sl no. 36 of BOM and as per detailed specifications in Part-A and B and annexures 1, 2(sl no.11) ,3 &4

37. SCADA Optional Items : Any other components/ software required for completing the project as per the detailed specifications in Part-A and B and annexures 1, 2 ,3&4, but not mentioned in the tender shall be considered and details to be submitted.

- 38. SCADA Optional Items : Charges towards reading and configuration of OPC tags including all softwares, hardwares (if required) , license etc up to completion of work as per detailed specifications mentioned in Part-A, Annexure-2**
- 39. SCADA Optional Items : Non comprehensive annual maintenance charges for the first year after warranty (Necessary spares will be supplied by MCF) as per sl no. 38.1 of BOM and detailed specifications in Part-A and B and annexures1(sl no.8), 2 ,3 &4**
- 40. SCADA Optional Items : Non comprehensive annual maintenance charges for second year after warranty (Necessary spares will be supplied by MCF) as per sl no. 38.2 of BOM and detailed specifications in Part-A and B and annexures 1(sl no.8), 2 ,3 &4**
- 41. SCADA Optional Items :Non comprehensive annual maintenance charges for third year after warranty (Necessary spares will be supplied by MCF) as per sl no. 38.3 of BOM and detailed specifications in Part-A and B and annexures 1(sl no.8), 2 ,3 &4**
- 42. SCADA Optional Items : Non comprehensive annual maintenance charges for fourth year after warranty (Necessary spares will be supplied by MCF) as per sl no. 38.4 of BOM and detailed specifications in Part-A and B and annexures 1(sl no.8), 2 ,3 &4**
- 43. SCADA Optional Items : Non comprehensive annual maintenance charges for fifth year after warranty (Necessary spares will be supplied by MCF) as per sl no. 38.5 of BOM and detailed specifications in Part-A and B and annexures 1(sl no.8), 2 ,3 &4**
- 44. SCADA Optional Items :Wall mounting type temperature and relative humidity sensor/reader with Modbus communication protocol as per Part-C sl no. 3 of BOM and all other specifications (AC remote monitoring system)**
- 45. SCADA Optional Items : Wall mounting type temperature and relative humidity sensor as per Part-C sl no. 3 of BOM and all other specifications (AC remote monitoring system)**
- 46. SCADA Optional Items :Eight channel scanner / data logger as per part-C, sl no. 3 of BOM and all other specifications (AC remote monitoring system)**
- 47. SCADA Optional Items : RS 85 to Ethernet /LAN converter as per part-C, sl no. 3 of BOM and all other specifications (AC remote monitoring system)**

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	All the specifications of Part-A Annexure-1 to 4	To be satisfied	Yes / No / Explain		
2	Part_B configuration sketch for electrical works	To be considered	Yes / No / Explain		
3	PART-C , Air conditioning systems requirement	To be considered	Yes / No / Explain		
4	Warranty	24 months from the date of acceptance as per sl no.7 of Part-A, Annexure-1	Yes / No / Explain		
5	Annual Maintenance contract after 24 months warranty (Visiting attending preventive maintenance once in three months and any number of breakdown calls)	To be accepted as per as per sl no.8 of Part-A, Annexure-1	Yes / No / Explain		
6	Supply of spares	To be supplied as per sl no.9 of Part-A, Annexure-1	Yes / No / Explain		
7	Specifications for PLC and related DI/DO/AI etc	To be supplied as per sl no 1.2 to 1. 2.4 of Part-A, Annexure-2	Yes / No / Explain		
8	SPD's	To be supplied as per sl no 4 of Part-A, Annexure-2	Yes / No / Explain		
9	Work station/servers	To be supplied as per sl no 5 of Part-A, Annexure-2	Yes / No / Explain		
10	Field panels with all accessories	To be supplied as per sl no 6 of Part-A, Annexure-2 and table-1 to 8	Yes / No / Explain		
11	OFC	To be supplied as per sl no 7 of Part-A, Annexure-2	Yes / No / Explain		

12	CAt-6 cable with additional external PVC hard insulation to avoid rat bite	To be supplied as per sl no 8 of Part-A, Annexure-2	Yes / No / Explain		
13	Network / Ethernet switch	To be supplied as per sl no 9 of Part-A, Annexure-2	Yes / No / Explain		
14	PLC and DI/DO/AI make	Make and model for PLC and related I/O modules: ONE among the following Siemens / Rockwell / GE/ Schneider electric / ABB / Honeywell / Allen Bradley / Mitsubishi Eclectic All other items/ hardware's should have make & model and it should be catalogued one.	Yes / No / Explain		
15	Field panel and PLC panel/ racks Make	Rittal/ Schneider / Equivalent having catalog no. Detailed catalog to be submitted	Yes / No / Explain		
16	Multi core cable makes:	One among the following makes: Unistar/ Gloster/Polycab/Havells/RPG/CCi/Torrent/KEI/Finolex/Rhino/Ravin/Bonlon/Vicco/Sinco/Tera/Thermo cables/Unicab/V-Guard/Rallison/Avocab/Crystal cables/Elkay/Gemscab/Indocab/Cords cables/Insucon	Yes / No / Explain		
17	Supplier type	Should class 1 and 2 local supplier only. Declaration to be submitted as per make in India circular	Yes / No / Explain		
18	Payment	As per sl no. 12 of annexure-2, Part-A. Also payment will be made as per actual utilization at site	Yes / No / Explain		
19	Note to bidder	To be accepted as per sl no. 13 of annexure-2, Part-A	Yes / No / Explain		
20	Testing and acceptance	As per sl no. 14 of annexure-2, Part-A	Yes / No / Explain		

21	Project task, objective , report, trend graph, alarm, history , generation,	To be satisfied as per sl no. 1.2.5 to 1.2.9 of annexure-2, Part-A	Yes / No / Explain		
22	OPC (Open platform communication): (Optional item)	To be satisfied as per sl no. 1..2.10 of annexure-2, Part-A. This is an optional item.	Yes / No / Explain		
23	Both Electrical part of SCADA as per Part-A & B and Air conditioning part as per Part-c	All the work to be considered and executed	Yes / No / Explain		
24	If any of the components not mentioned in the tender specifications , but required for completing the work are to be considered and mentioned in the technical bid	To be considered based on system requirement and rates may be considered accordingly as per sl no.37 of the online price format of the tender	Yes / No / Explain		
25	Training	Training to be provided as per sl no. 3h of annexure-1, Part-A	Yes / No / Explain		
26	Factory acceptance test , On site test and final testing at site	To be co-ordinates by successful bidder as per requirements of the tender	Yes / No / Explain		
27	Documents , Catalogs, Interfacing Drawings , Test reports, Manuals etc	All documents to be submitted in hard copy (Minimum three copies) and soft format also to be handed over to MCF	Yes / No / Explain		
28	Site visit before submission of tender	If required site may be visited before bid submission date	Yes / No / Explain		
29	Tools, Instruments and man power for the work	All tools , Instruments for testing and Man power to be arranged by the bidder only	Yes / No / Explain		

30	Pre design review (PDR) meeting	To be conducted with in 15 days from the date of PO placement. All the design approval to be taken in the PDR meeting	Yes / No / Explain		
31	Work completion period	To be completed with in 6 months from the date of PO placement . This includes PDR with in 15 days from PO date	Yes / No / Explain		
32	Bidder to confirm the availability of PLC , Work station and related hard wares of PLC for next 10 years in the market and confirmation certificate from the OEM to be submitted for its life and support for next 10 years	Certificate to be submitted from OEM. Also certificate like protection from Malware from the OEM to be submitted	Yes / No / Explain		
33	Previous Work experience on SCADA system	Previous experience is required with executing at least one automation /SCADA work of total completion cost more than 96 lakh or two works of more than 72 lakh or three works of more than 48 lakh. Bidder to submit the satisfactory completion certificate from the previous customer along with TDS certificate for the work along with technical bid.	Yes / No / Explain		
34	Declaration regarding Class1 and 2 local supply	Planned to execute the work from class1 or class2 local suppliers only. Bidders to submit the declaration regarding percentage of local content.	Yes / No / Explain		

35	Preventive maintenance visits and breakdown maintenance visits during warranty and Annual maintenance contract period.	During both warranty period (24 months) and during Non comprehensive Annual maintenance period , four preventive maintenance visits per year (Once in three months) with prior intimation to MCF and any number of break down visits to keep the system in good healthy condition to be done.	Yes / No / Explain		
36	Confirmation letter from OEM for supporting next 10 years from the date of tender	Bidder to submit the confirmation letter from the OEM regarding availability of spares and service support for all the products at least next 10 years from the date of tender	Yes / No / Explain		
37	OEM certificate stating that the offered product is free from all kinds of “ Malicious contents”	Bidder to provide OEM certificate that the offered product is free from all kinds of “ Malicious contents”	Yes / No / Explain		
38	OEM confirmation regarding end of life for the offered products	Bidder to provide OEM confirmation that the particular product not be near end of life for next 05 years.	Yes / No / Explain		
39	BOM for electrical systems Part-A and BOM for AC systems Part-C	Both are to be considered.	Yes / No / Explain		
40	Tolerance for supply of cables	Tolerance for cables shall be with in +/- 5 % (Multi core cable OFC and other communication cables)	Yes / No / Explain		

Supporting Documents required from Vendor

1. Detailed catalogs for all the items

2. Detailed BOM with make and model for all the items

3. Compliance to all the points mentioned in general specifications

4. Declaration for calss1 and 2 local suppliers

5. Electrical contract license for executing electrical part of work from the bidder or their sub contractor

6. Previous work experience certificate as per the general specifications of tender

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	As per Tender annexures 1 to 4 of Part-A and B and Part-C	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, Hassan (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 (INCOTERMS-2020)	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 currency 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	SCADA : PLC panel having programmable logic controller / CPU DI, DO , AI modules etc as per sl no. 1 of BOM (annexure-4) and detailed specifications as per table -8, Part-A , B & C , annexure -1 ,2 (sl no. 3.1 to 3.10) ,3 &4	1.00 Sets		-					
2	SCADA : Installation of the above mentioned PLC panel under sl no.1 including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of all types of cables etc.	1.00 Sets		-					

3	SCADA Optional Items : Field panel for SCES#8 as per sl no. 3 of BOM (annexur e-4) and detailed specificat ions as per Part- A , B , annexure -1,2,3 and 4 and Table-1.	1.00 Sets		-					
4	SCADA Optional Items : Installatio n of the above mentione d panel under sl no.3 above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including terminati on of cables etc.	1.00 Sets		-					

5	SCADA Optional Items :Field panel for SCES#9 as per sl no. 5 of BOM (annexur e-4) and detailed specificat ions as per Part- A , B , annexure -1,2,3 and 4 and Table2.	1.00 Sets		-					
6	SCADA Optional Items : Installatio n of the above mentione d panel under sl no. 5 aboveincl uding supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including terminati on of cables etc.	1.00 Sets		-					

7	SCADA Optional Items :Field panel for LCC as per sl no. 7 of BOM (annexur e-4) and detailed specificat ions as per Part- A , B , annexure -1,2,3 and 4 and Table-3.	1.00 Sets		-					
8	SCADA Optional Items :Installati on of the above mentione d panel under sl no. 7 above including supply and fixing of MS support channels and arranging for minor Civil works etc. .Work also including terminati on of cables etc.	1.00 Sets		-					

9	SCADA : Field panel for SCES#1 1 as per sl no. 9 of BOM (annexur e-4) and detailed specificat ions as per Part- A , B , annexure -1,2,3 and 4 and Table-4.	1.00 Sets		-					
10	SCADA :Installati on of the above mentione d panel under sl no. 9 above including supply and fixing of MS support channels and arranging for minor Civil works etc. .Work also including terminati on of cables etc.	1.00 Sets		-					

11	SCADA : Field panel for SCES#10 as per sl no. 11 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure -1,2,3 and 4 and table-5.	1.00 Sets		-					
12	SCADA : Installation of the above mentioned panel under sl no. 11 above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including termination of cables etc.	1.00 Sets		-					

13	SCADA : Field panel for HITS as per sl no. 13 of BOM (annexur e-4) and detailed specificat ions as per Part- A , B , annexure -1,2,3 and 4 and table- 6.	1.00 Sets		-					
14	SCADA :Installati on of the above mentione d panel under sl no. 13above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including terminati on of cables etc.	1.00 Sets		-					

15	SCADA : Field panel for PCC hall(PS# 3) as per sl no. 15 of BOM (annexur e-4) and detailed specificat ions as per Part- A , B , annexure -1,2,3 and 4 and table-7.	1.00 Sets		-					
16	SCADA : Installatio n of the above mentione d panel under sl no. 13 above including supply and fixing of MS support channels and arranging for minor Civil works etc. Work also including terminati on of cables etc.	1.00 Sets		-					

17	PVC INSULATED MULTI CORE COPPER CONDUCTOR CABLE : Supply of 6 Core x 1.5 sqmm cables as per the detailed specifications mentioned sl no. 17 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure -1, 2 (Sl no.10),3 and 4.	2000.00 m		-					
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18	CABLE LAYING : Laying of 6 core x 1.5 sqmm Multi core cable mentioned in sl no.17 above including all the installation accessories and as per the details mentioned in sl no. 18 of the BOM (annexure-4) and detailed specifications as per Part-A , B ,	2000.00 m	-						
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19	PVC INSULATED MULTI CORE COPPER CONDUCTOR CABLE : Supply of 10 Core x 1.5 sqmm cables as per the detailed specifications mentioned sl no. 19 of BOM (annexure-4) and detailed specifications as per Part-A , B , annexure -1, 2 (Sl no.10),3 and 4.	500.00 m	-						
20	CABLE LAYING : Laying of 10 core x 1.5 sqmm Multi core cable mentioned in sl no.19 above including all the installation accessories and as per the details mentioned in sl no. 20 of the BOM (annexure-4) and part-A,B	500.00 m	-						

21	PVC INSULATED MULTI CORE COPPER CONDUCTOR CABLE : Supply of 30 Core x 1.5 sqmm cables as per the detailed specifications mentioned sl no. 21 of BOM (annexure-4) and detailed specifications as per annexure -1, 2 (Sl no.10),3 and 4.	250.00 m		-						
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22	<p>CABLE LAYING : Laying of 30 core x 1.5 sqmm Multi core cable mentioned in sl no.21 above including all the installation accessories and as per the details mentioned in sl no. 22 of the BOM (annexure-4) and detailed specifications as per annexure -1,2,3</p>	500.00 m	-						
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23	SCADA : Supply of suitable PLC development cum viewer software with necessary permanent license for the tags/ points mentioned in the sl no. 23 of BOM , different annexure s of part-A, B & C and as per system requirements (For Both Ele and AC).	1.00 Sets	-						
24	SCADA : Installatio n of PLC development software supplied in sl no 23 above with all the necessary configura tions, activating licenses etc as per sl no. 24 of BOM (annexur e-4) and detailed specificat ions as per Part-A ,&C	1.00 Sets	-						

25	SCADA : Supply of suitable SCADA run time / viewer software with necessary permanent license for the tags/ points mentioned in the sl no. 23 of BOM , different annexures and as per system requirements (For Part-A & B electrical systems) .	1.00 Sets	-						
26	SCADA : Installation of SCADA runtime / viewer software supplied in sl no 25 above with all the necessary configurations, activating licenses etc as per sl no. 26 of BOM (annexure-4) and detailed specifications as per annexure -1,2,3,4	1.00 Sets	-						

27	SCADA Optional Items :Supply of suitable SCADA run time / viewer software with necessar y permane nt license for Air conditioni ng sensors /tags/ points mentione d in Part- C and as per system requirem ents.	1.00 Sets	-						
28	SCADA Optional Items : Installatio n of SCADA runtime / viewer software supplied in sl no 27 above with all the necessar y configura tions, activating licenses etc as per requirem ents of part-C (Air conditioni ng system)	1.00 Sets	-						

29	COMPUTER WORKSTATION : Computer workstation for using as development and runtime / viewer servers having specifications as per sl no. 29 of BOM (Annexure-4) and detailed specifications as per annexure -1,2(Sl no.5),3,4	3.00 Sets	-						
30	SCADA : Installation and configuration of computer workstation mentioned under sl no. 29 above and as per detailed specifications in Part-A and B and annexures 1, 2 &3	3.00 Sets	-						

31	SCADA Optional Items : Supply of minimum 6 core fiber optic cable (FO) as per sl no. 31 of BOM and as per detailed specificat ions in Part-A and B and annexure s 1, 2(sl no.7) , 3 &4	500.00 m		-					
32	SCADA Optional Items : Laying of above mentione d FO cable (Sl no.31 above) and partially MCF supplied FO cable in existing trench /wall etc. through HDPE pipe (HDPE pipe to be supplied)	1200.00 m		-					

33	SCADA Optional Items :Supply of cat 6 /Ethernet communi cation cable having 3 pairs and with external PVC insulation as per sl no. 33 of BOM and as per detailed specificat ions in Part-A and B and annexure s 1, 2(sl no.7) , 3 &4	600.00 m	-						
34	SCADA Optional Items : Laying of above mentione d CAT6 cable (Sl no.33 above) and partially MCF supplied FO cable in existing trench /wall etc. through HDPE pipe (HDPE pipe to be supplied)	600.00 m	-						

35	SCADA Optional Items : Charges towards preparati on of ladder logic as per requirem ent of MCF and interfacin g all the devices, connecti ons etc as per sl no. 35 of BOM and as per detailed specificat ions in Part-A , B &C and annexure s 1, 2 ,3 &4	1.00 Lot	-						
36	SCADA Optional Items : Supply of one set of spares as per sl no. 36 of BOM and as per detailed specificat ions in Part-A and B and annexure s 1, 2(sl no.11) ,3 &4	1.00 Lot	-						

37	SCADA Optional Items : Any other componen ts/ software required for completi ng the project as per the detailed specificat ions in Part-A and B and annexure s 1, 2 ,3&4, but not mentione d in the tender shall be consider ed and details to be submitte d.	1.00 Lot	-						
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38	SCADA Optional Items : Charges towards reading and configura tion of OPC tags including all software s, hardware s (if required) , license etc up to completi on of work as per detailed specificat ions mentione d in Part- A, Annexur e-2	1.00 Lot		-					
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39	SCADA Optional Items : Non compreh ensive annual maintena nce charges for the first year after warranty (Necessa ry spares will be supplied by MCF) as per sl no. 38.1 of BOM and detailed specificat ions in Part-A and B and annexure s1(sl no.8), 2 ,3 &4	1.00 Yearly		-					
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40	SCADA Optional Items : Non compreh ensive annual maintena nce charges for second year after warranty (Necessa ry spares will be supplied by MCF) as per sl no. 38.2 of BOM and detailed specificat ions in Part-A and B and annexure s 1(sl no.8), 2 ,3 &4	1.00 Yearly	-						
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41	SCADA Optional Items :Non compreh ensive annual maintena nce charges for third year after warranty (Necessa ry spares will be supplied by MCF) as per sl no. 38.3 of BOM and detailed specificat ions in Part-A and B and annexure s 1(sl no.8), 2 ,3 &4	1.00 Yearly		-					
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42	SCADA Optional Items : Non compreh ensive annual maintena nce charges for fourth year after warranty (Necessa ry spares will be supplied by MCF) as per sl no. 38.4 of BOM and detailed specificat ions in Part-A and B and annexure s 1(sl no.8), 2 ,3 &4	1.00 Yearly		-					
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43	SCADA Optional Items : Non compreh ensive annual maintena nce charges for fifth year after warranty (Necessa ry spares will be supplied by MCF) as per sl no. 38.5 of BOM and detailed specificat ions in Part-A and B and annexure s 1(sl no.8), 2 ,3 &4	1.00 Yearly		-					
44	SCADA Optional Items :Wall mounting type temperat ure and relative humidity sensor/re ader with Modbus communi cation protocol as per Part-C sl no. 3 of BOM and all other specificat ions (AC remote monitorin g system)	2.00 Each		-					

45	SCADA Optional Items : Wall mounting type temperat ure and relative humidity sensor as per Part-C sl no. 3 of BOM and all other specificat ions (AC remote monitorin g system)	24.00 Each		-					
46	SCADA Optional Items :Eight channel scanner / data logger as per part- C, sl no. 3 of BOM and all other specificat ions (AC remote monitorin g system)	8.00 Each		-					
47	SCADA Optional Items : RS 85 to Ethernet /LAN converter as per part-C, sl no. 3 of BOM and all other specificat ions (AC remote monitorin g system)	10.00 Each		-					

Common charges (Applicable for all items)

Other Charges (if any, provide details in remarks)	
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