

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

Tender for Automation of Anode coating Facility

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202400115301 dated 04-06-2024

A. Tender Details

| | |
|------------------------|---|
| Tender No : | VSSC/PURCHASE UNIT III (SPRE)/VS202400115301 |
| Tender Date : | 04-06-2024 |
| Tender Classification: | WORKS |
| Purchase Entity : | PURCHASE UNIT III (SPRE) |
| Centre : | VIKRAM SARABHAI SPACE CENTRE (VSSC) |

Automation of Anode coating Facility

This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same.

Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate break-up of components of main equipment, individual accessories and spares as desired. Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.

A.1 Tender Schedule

| | |
|------------------------------|-------------------------|
| Bid Submission Start Date : | 04-06-2024 10:00 |
| Bid Clarification Due Date : | 18-06-2024 12:00 |
| Bid Submission Due Date : | 09-07-2024 14:00 |
| Bid Opening Date : | 09-07-2024 14:05 |
| Price Bid Opening Date : | 22-08-2024 14:00 |

B. Tender Attachments

NA

Instructions To Vendors

1. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER (IG)

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.

(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 nonacceptance 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.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. 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. 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. (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.

(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 nonacceptance 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.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. 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. 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.

3. 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. (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.

4. 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.

5. a) Your offer should be valid for 90 days from the date of opening of the tender.

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

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

7. d) The term "Purchase Order" shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised 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.

8. 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 a period of 14 months 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 any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

9. 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.

10. Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination/delivery at site.

11. 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.

12. REJECTED STORES:

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

13. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

14. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent 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 regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

15. TERMS & CONDITIONS OF TENDER

16. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

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

18. 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.

19. 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.

20. 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.

21. 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.

22. The term Purchaser shall mean the President of India or his successors or assigns.

23. 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.

2. Instructions to Vendors

1. Last minute clarification on tenders will not be entertained.

2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.

3. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority.

Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

3.

Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

4. PPP Make in India(Non- Divisible Items-Class I & II Local Suppliers Only)

1. In line with Public Procurement (Preference to Make in India), Order 2017 & its amendments issued by Govt. of India from time to time with a view to support the Indian industries, ISRO has implemented "Purchase Preference Policy". The "Purchase Preference" is applicable for the "Class-I Local Supplier" for the goods/ services/ works covered in this tender, subject to the following terms & conditions:-

2. a) The subject item falls under Non-divisible category. b) The offers sought only from Class-I & Class-II local suppliers

3. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.

4. 'Local content' means the amount of value added in India (i.e. indigenous items/services added in the offered products/ services/ works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent.

5. The margin of Purchase Preference shall be up to 20%.

6. 'Margin of purchase preference' means the maximum extent to which the price quoted by the "Class-I local supplier" above the L1 (landed cost).
7. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).
8. Works means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'. Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.
9. Purchase Preference Policy:- Goods/Works which are not divisible (ie., required quantity is 1 or as a package) and Services:
- a) If L1 is from a 'Class-I local supplier', the contract will be awarded to L1 bidder.
- b) If L1 is not from a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price (inclusive of duties, taxes and freight & insurance).
- c) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and order/contract shall be awarded accordingly. In case where none of the 'Class-I local supplier' within the margin of purchase preference agree to match the L1 price, then the order/contract shall be awarded to the original L1 Bidder.
10. The 'Class-I & II local supplier' should provide a "Self Certification" along with technical offer indicating that the item offered meets the minimum local content [as per Sl. No.(3)] as called for in the tender and provide the percentage of local content along with details of the location(s) at which the local value addition is made. In case of two bid tenders, it is mandatory to indicate compliance to MLC(minimum Local Content) in technical bid zone.
11. The ink-signed certificate shall be provided on vendors letter head along with the offer (in case of online tender, copy of ink-signed certificate shall be uploaded along with your offer under concerned tab. Original in Hard copy shall be produced on request). In case of non-submission of certificate, the purchase preference shall not apply.
12. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.
13. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing

chartered accountant (in case of suppliers other than companies) giving the percentage of local content.

14. In case of a complaint received from any local supplier indicating a need for review / verification of Local content of successful vendor / awarded vendor, for accepting a complaint from such complainant (w.r.t the false declaration given by the successful vendor on the local content), a complaint fee of Rs.2Lakhs or 1% of the locally manufactured items being procured (subject to a maximum Rs. 5Lakhs), whichever was higher, to be paid by demand draft by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

15. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.

16. The Public Procurement (Preference to Make in India), Order 2017 issued by Govt. of India indicates that if there are any general or specific restrictive clauses to restrict participation of Indian companies in those countries procurement tenders, reciprocity clause need to be invoked as per the order. Hence, if ISRO or Govt. of India come across that Indian suppliers of an item are not allowed to participate and / or compete in procurement by your government, the bid submitted by you will be not be considered and excluded from eligibility for procurement. Please note this point.

5. Specific Terms and Conditions to Tender (MII Compliant)

1. (I) Please quote applicable GST separately.

2. (II) Our standard delivery term is FOR, VSSC. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.

3. (III) Our standard payment term is 100% within 30 days after receipt and acceptance of the items at our site (after installation and commissioning in cases where installation and commissioning is required).

4. (IV) Liquidated Damages: The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.

5. (V) Performance Bank Guarantee: Wherever products offered carry warranty, the warranty should be for one year or as per manufacturers standard warranty term. Against such cases, please confirm submission of Performance Bank Guarantee. The Performance Bank Guarantee should be for 3% of the order value covering the warranty period obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of the warranty period. Alternately vendors can request for withholding 3% payment till completion of the warranty period.
6. (VI) Security Deposit: Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 3% of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations. 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 case if Security Deposit is submitted and the contractor fails to execute the order, then the security deposit will be forfeited.
7. (VII) Note: SD, LD and PBG clauses are mandatory and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit. Only Govt Departments/PSUs/PSEs can submit Indemnity Bond instead of Bank Guarantee towards SD/PBG.
8. (VIII) Please upload the Technical Details / Catalogue / Data Sheets (wherever applicable)
9. (IX) The offer should be valid for a period of minimum 90 days from the date of opening of Tender and 180 Days for PT Two Part (120 Days for Technical Bid and 60 Days for Price Bid from the date of opening).
10. (X) In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / Udyog Adhar / NSIC Registration Certification along with your offer.
11. (XI) If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
12. (XII) Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.
13. (XIII) The other attached forms are our standard terms and conditions, which are to be complied with. If any conflict arise between the specific terms and standard terms, then in those cases, the

specific terms will prevail over the standard terms.

14. (XIX) Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.

15. (XV) Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

16. (XVI) Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.

17. (XVII) Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.

18. (XVIII) The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself.

19. (XIX) The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.

20. (XX) In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

21. (XXI) False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

22. (XXII) Purchase Preference Policy:- Goods/Works which are divisible in nature (required quantity is

greater than 1 or not a package basis): i. If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder. ii. If L1 bid is not from a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases 100% quantity shall be ordered on original L1 bidder. iv. In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor. v. In case L1 bidder (not a 'Class-I local supplier') is not accepting splitting of order on 50:50 basis, in that case the order/contract shall be awarded to such 'Class-I local supplier' for full quantity subject to matching the L1 price. vi. Regarding MSEs (Indian vendors): a) The following additional aspect as indicated below would be applicable for procurement which are falls under divisible category (i.e., not applicable for indivisible category), in case of participation of MSEs in the tendering who are also complying to the Minimum Local Content (MLC) stipulated in the tender. b) If any Indian vendor satisfies the requirement of MSEs stipulation and also falls within the purchase preference margin as called for in MSME policy (in case of matching L1 price) will be considered for ordering 25% of tendered quantity, the balance quantity / works will be considered for distribution amongst all bidders (including MSEs) as per the purchase preference policy. c) In case no MSEs qualifies for purchase preference or do not match with L1 price then the total tendered quantity will be distributed amongst all bidders as per the purchase preference policy.

23. Purchase Preference Policy:- Goods/Works which are not divisible in nature (required quantity is 1 or on a package basis):

(i). If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder. (ii). If L1 bid is not from a 'Class-I local supplier', then, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). (iii). In case such lowest eligible 'Class-I local supplier' fails to match the L1 price , the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases the contract shall be placed on original L1 bidder. (iv). In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor.

6. This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 16/09/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.
7. This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same.
8. Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate break-up of components of main equipment, individual accessories and spares as desired. Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.
9. The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.
10. In cases if the item(s) offered exceed Rs.10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
11. False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law
12. Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage.

C. Bid Templates

C.1 Technical Bid - Automation of Anode coating Facility

1. AUTOMATION OF ANODE COATING FACILITY AT APEP

Item specifications for AUTOMATION OF ANODE COATING FACILITY AT APEP

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------------------------------|--|--------------------|-----------------------|--------|
| 1 | INTRODUCTION | Supply, installation, testing and commissioning of PLC& SCADA system for Anode coating facility where 9 Nos of anodes are lead dioxide coated in a batch. This requirement is to automate the batch activities related with the pumping of hot electrolyte based on tank level and temperature control with an automatic continuous steam control valve. Charging of the powder raw materials will be in manual mode. All the data captured shall be displayed on SCADA screen and shall be available in printable format. | Yes / No / Explain | | |
| 2 | Details of Field Instruments required | As follows | Yes / No / Explain | | |

| | | | | | |
|---|---|---|--------------------|--|--|
| 3 | Field Instruments :- Level indicator on Overflow collection Tank | Type: Ultrasonic/Radar level Transmitter Quantity: 2 Nos(1+1 (redundent) Range: 0-2 Meter Accuracy : +/- 2% FS Frequency of logging :Data to be logged every 5 minutes. To be displayed continuously (1s interval) on SCADA screen during process. | Yes / No / Explain | | |
| 4 | Field Instruments :- Level indicator on Electrolyte Heating Tank | Type: Ultrasonic/Radar level Transmitter Quantity: 2 Nos(1+1 (redundent) Range: 0-2 Meter Accuracy : +/- 2% FS Frequency of logging :Data to be logged every 5 minutes. To be displayed continuously (1s interval) on SCADA screen during process. | Yes / No / Explain | | |
| 5 | Field Instruments :- .Temperature of Electrolyte Heating Tank | Type: Duplex Temperature Sensor Quantity: 1 Nos Range: 0-100degC Accuracy : ±0.1degC Frequency of logging :Data to be logged every 5 minutes. To be displayed continuously (1s interval) on SCADA screen during process. | Yes / No / Explain | | |
| 6 | Field Instruments:- .Temperature of Electrolyte Heating Tank | Type: Temperature Transmitter with sensor for over Temperature protection. Quantity: 1 Nos Range: 0- 100degC Accuracy : ±0.1degC Frequency of logging :Data to be logged every 5 minutes. To be displayed continuously (1s interval) on SCADA screen during process. | Yes / No / Explain | | |

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| 7 | Field Instruments :- Steam pressure & Temperature | Type: Pneumatically operated, proportional control Globe valve 1” Quantity: 1 Nos Range: Control Valve (0-100%) Frequency of logging :Data to be updated every 5 minutes. To be updated continuously (1s interval) on SCADA screen during process. | Yes / No / Explain | | |
| 8 | Field Instruments :- Voltage of Electrodeposition Tank- 9 Nos | Type: Voltage measurement through Analog Input cards & PLC Quantity: 9 channel Range: 0-5 V Accuracy : ±0.1 V Frequency of logging :Data to be logged every 15 minutes. To be displayed continuously (1s interval) on SCADA screen during process. | Yes / No / Explain | | |
| 9 | Field Instruments :- Temperature of Electrodeposition Tank- 9 Nos | Type: Digital Indicators with RTD sensors PT 100, 2 wire, 4-20mA Quantity: 9 Nos Range: 0-100degC Accuracy : ±0.1degC Frequency of logging :Data to be logged every 5 minutes. To be displayed continuously (1s interval) on SCADA screen during process. | Yes / No / Explain | | |
| 10 | Field Instruments :- ON/OFF of Rectifier | Type: Relay Quantity: 1 Nos Range: ON/OFF Frequency of logging :Schematically displayed on SCADA screen. | Yes / No / Explain | | |

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| 11 | Field Instruments :- DC Current O/P from Rectifier | Type: DC current transducer Quantity: 1 Nos Range: 0-250 Amps Accuracy : ±0.1 Amps Frequency of logging :Value to be displayed on SCADA screen in 1s interval. Data to be logged at 5 minutes interval. | Yes / No / Explain | | |
| 12 | Field Instruments :- DC Voltage O/P from Rectifier | Type: DC Voltage transducer Quantity: 1 Nos Range: 0-50 V Accuracy : ±0.1 V Frequency of logging :Value to be displayed on SCADA screen in 1s interval. Data to be logged at 5 minutes interval. | Yes / No / Explain | | |
| 13 | Field Instruments :- A4 Network printer , Laser jet for report printing | Type: Monochrome Qty: 1 Nos | Yes / No / Explain | | |
| 14 | 1. SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Detailed engineering and designing for the hardware shall be done by the vendor. This shall be submitted for clearance to department before start of work. | Yes / No / Explain | | |
| 15 | 2. SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Design should have provision to switch to manual mode of operation if need arises. | Yes / No / Explain | | |
| 16 | 3. SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Design should have provision for Emergency shutdown. | Yes / No / Explain | | |

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| 17 | 4. SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | The instruments are to be operated in highly acidic environment containing hot fumes of nitric acid and lead. Hence party should ensure compatibility of all instruments and parts with this chemical environment. Party should provide catalogues and technical details of the instruments before supply. | Yes / No / Explain | | |
| 18 | 5.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Party should ensure calibration of the instruments installed. Calibration certificate shall be supplied for all instruments. | Yes / No / Explain | | |
| 19 | 6. SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Data logged shall be transferred to the SCADA PC shall be displayed and saved into specified folder within the user defined frequency. | Yes / No / Explain | | |
| 20 | 7.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Graphical output of Temperature vs Time, Voltage Vs Time, Current vs Time and Level Vs Time shall be available. | Yes / No / Explain | | |
| 21 | 8.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | The party should supply all items to site, install, integrate and commission and test to Dept. satisfaction | Yes / No / Explain | | |
| 22 | 9. SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | The system performance should be satisfactorily demonstrated for 1 week from the date of energization and this will be considered for the date of commissioning. | Yes / No / Explain | | |

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| 23 | 10.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Party shall depute qualified man power for installation testing and commissioning to site. Electric power required for installation works will be provided free of cost. Training to Dept. personal on operation & maintenance, controller operations and SCADA to be provided. | Yes / No / Explain | | |
| 24 | 11.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | All the necessary instrumentation cabling, wiring, harnessing etc shall be under vendor's scope. | Yes / No / Explain | | |
| 25 | 12.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Panel enclosure shall be weather proof IP 65 type with SS316L | Yes / No / Explain | | |
| 26 | 13.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | All instrument cables shall be armored twisted pair Teflon make and properly routed from field to the control room. | Yes / No / Explain | | |
| 27 | 14.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Safety isolation barriers shall be provided for all the lines going to the control room from the power sources. | Yes / No / Explain | | |
| 28 | 15.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Supply of complete development and run time software including PLC ladder diagram and source code (with backup in CD & open license) along with full set operation manual | Yes / No / Explain | | |
| 29 | 16.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | The PLC software and the SCADA software developed for this application shall be property of VSSC. All such software shall be handed over to VSSC in CD/DVD media in duplicate. | Yes / No / Explain | | |

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| 30 | 17.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | All the licensed software used in the system shall have perpetual license issued in VSSC's name | Yes / No / Explain | | |
| 31 | 18.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | An image HDDs containing the software developed for this application shall be handed over to VSSC to avoid delay in starting the system in case of HDD failure. | Yes / No / Explain | | |
| 32 | 19. SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | The Vendor shall assure software modification/correction support for one year after the commissioning of the system without additional cost | Yes / No / Explain | | |
| 33 | 20.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | Training for operation and maintenance shall be provided. | Yes / No / Explain | | |
| 34 | 21.SPECIAL CONDITIONS TO BE ADHERED TO UPON PLACEMENT OF PO | The party should supply all items to site, install, integrate and commission and test to Dept. satisfaction. The system performance should be satisfactorily demonstrated for 1 week from the date of energization and this will be considered for the date of commissioning. Party shall depute qualified man power for installation testing and commissioning to site. Training to Dept. personal on operation & maintenance, controller operations and SCADA to be provided. | Yes / No / Explain | | |

Document : Annexure 2- Specification for automation

Document : ACF_SCADA screen

Document : Control Philosophy- Annex 1**Common Specifications (Applicable for all items)**

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|--------------------|--------------------|-----------------------|--------|
| 1 | SCOPE OF WORK BY BIDDER | As follows | Yes / No / Explain | | |
| 2 | Supply of main PLC (Siemens, Schneider, Alan Bradley etc.), i7 PC (Make:- HP, Dell, Lenovo etc), 16 GB RAM, 500GB SSD, 1 TB SATA HDD with monitor 24" Full HD ,IPS and panel with accessories (reputed make). | Party shall comply | Yes / No / Explain | | |
| 3 | Supply and installation of instruments with suitable accuracy and resolution for level, Temperature, voltage and current measurements . The instruments should be compatible with acidic environment. | Party shall comply | Yes / No / Explain | | |
| 4 | Supply and installation of Control valve, relays etc. | Party shall comply | Yes / No / Explain | | |

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| 5 | Design and detailed engineering required for the PLC system as per the control philosophy, attached as Annexure 1. | Party shall comply | Yes / No / Explain | | |
| 6 | Development of PLC program and logic for the system | Party shall comply | Yes / No / Explain | | |
| 7 | SCADA screen development as per the format attached as DWG No. VSSC-APEP-ACF-SCADA/01/2023.Provision to take out puts in graphical format. | Party shall comply | Yes / No / Explain | | |
| 8 | Alarms and indication for high/low value as mentioned in control Philosophy. | Party shall comply | Yes / No / Explain | | |
| 9 | Cables shall be laid and terminated properly with Glands through the cable trays. | Party shall comply | Yes / No / Explain | | |
| 10 | Test leads to the bus bars and fasteners shall be of SS316L. | Party shall comply | Yes / No / Explain | | |

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| 11 | Commissioning of the system to control the electrolyte pumping & heating, monitoring and logging of parameters like Current, Temperature and voltage to generate reports. | Party shall comply | Yes / No / Explain | | |
| 12 | Supply of computer table to place the monitor and CPU. | Party shall comply | Yes / No / Explain | | |
| 13 | Preparation and submission of P & ID | Party shall comply | Yes / No / Explain | | |
| 14 | SCOPE OF WORK BY APEP | As follows | Yes / No / Explain | | |
| 15 | 1. Drilling of holes in bus bars for connection of leads. | Under APEP's scope | Yes / No / Explain | | |
| 16 | 2. Centralized UPS power is available for powering the system. | Under APEP's scope | Yes / No / Explain | | |
| 17 | MODE OF TENDERING | TWO PART BID | Yes / No / Explain | | |
| 18 | UN-PRICED TECHNO-COMMERCIAL BID | The Un-Priced Techno-Commercial bid with following details shall be submitted (without disclosing price) to assess the scope of work considered by the bidder | Yes / No / Explain | | |

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| 19 | Techno-Commercial bid listing all sensing instruments, control valves, relays, PLC etc., along with brands/ make offered, datasheets, sensing range, material of construction and quantity . | Party shall comply | Yes / No / Explain | | |
| 20 | Bidder has to list the computer configuration (Storage capacity, processor etc), brand/ make offered | Party shall comply | Yes / No / Explain | | |
| 21 | Bidder has to submit documentary evidence of previous experience in handling similar projects. | Party shall comply | Yes / No / Explain | | |
| 22 | Note: There shall not be any mention on price in any pages of the Techno-Commercial bid. | Party shall comply | Yes / No / Explain | | |
| 23 | PRICE BID | Price Bid shall be submitted under the following heads. | Yes / No / Explain | | |
| 24 | Main PLC with panel and accessories | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 25 | Field instruments with cables and cable trays | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 26 | Installation of field instruments and cabling | Party shall mention the cost in price bid | Yes / No / Explain | | |

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| 27 | PLC Programming software with perpetual license | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 28 | SCADA Work station with i7 processor 16 GB RAM, 500GB SSD, 1 TB HDD with 24" Full HD monitor and printer | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 29 | Design and detailed Engineering required for PLC system | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 30 | PLC Programming & Logic development | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 31 | SCADA Screen development | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 32 | Commissioning of system for smooth operation of plant | Party shall mention the cost in price bid | Yes / No / Explain | | |
| 33 | ELIGIBILITY CRITERIA | Documentary evidence of previous experience of the party in handling similar projects to be submitted along with the bid. | Yes / No / Explain | | |
| 34 | PRE-BID VISIT | Interested parties can visit the site on working days, Monday to Friday (10.00 hrs to 16.30 hrs) to understand the nature and quantum of work. | Yes / No / Explain | | |
| 35 | WARRANTY/AMC | The total system shall be guaranteed for trouble free service for a minimum period of 3 years from the date of final acceptance by APEP including brought out items. Party should offer the AMC rates for 7 years following the warranty period, separately along with the price quote. This rate will be counted to grade L1 | Yes / No / Explain | | |

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| 36 | Documents to be supplied on completion of the work | Operation manual, Manuals for all brought out items, Programming manual for PLC and SCADA, Software with open license in CD media, Warranty certificate, Calibration certificate of all instruments | Yes / No / Explain | | |
| 37 | Payment terms:- Supply Portion | 60% on receipt of items on prorata basis ,30% after installation of instruments,10% After successful Commissioning | Yes / No / Explain | | |
| 38 | Payment Terms:- Service Portion | 60% on programming and screen development,30% on screen (SCADA) development, 10% After successful Commissioning | Yes / No / Explain | | |
| 39 | Payment Terms:- Commissioning of system for smooth operation of plant | 100 % on successful completion. | Yes / No / Explain | | |

Supporting Documents required from Vendor

1. Price split up Showing supply portion cost, Service portion cost and Commissioning cost as mentioned in SI No 4.3 of attached Annexure 2 (Price Bid Related)
2. Price split up Showing supply portion cost, Service portion cost and Commissioning cost as mentioned in SI No 4.3 of attached Annexure (Price Bid Related)
3. Unpriced techno commercial bid as mentioned in SI No 4.2 of attached Annexure 2
4. Acceptance of Payment terms as mentioned in SI No 10 of attached Annexure 2
5. Documentary evidence of previous experience of the party in handling similar projects
6. Self declaration with respect to local content(Make in India policy)

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|--|--------------------|--------------|
| 1 | The entire work shall be completed within 5 months from the date of getting approval from the department. | Yes / No / Explain | |
| 2 | After receipt of PO, detailed engineering and designing together with catalogues and technical details of the instruments, shall be submitted within 30 days for approval by the department. | Yes / No / Explain | |
| 3 | Taxes and other costs,[Note:- We are eligible for GST concession @ 5% as per Ministry of Finance, Dept. of Revenue Notification No. 25/2018 Integrated Tax (Rate) Schedule-I; Sl.No.243B dated 31.12.2018 (Amendment to Notification No. 7/2018 - Integrated Tax (Rate) dated 25.01.2018 and Notification No. 1/2017 - Integrated Tax (Rate) dated 28.06.2017] | Yes / No / Explain | |
| 4 | Security Deposit (Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 3% of Order Value valid till 60 days from the date of supply to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indentity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited). | Yes / No / Explain | |
| 5 | Delivery Terms. [FOR, APEP, ALUVA] | Yes / No / Explain | |
| 6 | Delivery Period a) [Time required for delivery (from the date of dispatch clearance). b. Time required for completing installation and commissioning (from the date of intimation from VSSC). Please mention each period as (a) and (b) separately. | Yes / No / Explain | |
| 7 | Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required). | Yes / No / Explain | |

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| 8 | Warranty [3 years] | Yes / No / Explain | |
| 9 | Performance Bank Guarantee (PBG) Bank Guarantee @ 3% of Order Value valid till the completion of warranty period plus 2 months claim period to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of warranty obligations, PBG will be forfeited). | Yes / No / Explain | |
| 10 | Payment Term: (Our Default payment term: For indigenous orders: 100% within 30 days after receipt and acceptance of item at our site. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER). | Yes / No / Explain | |
| 11 | Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) More than 20% but less than 50% : Class-II local supplier. c) Less than or equal to 20% : Non-local supplier. Mention your category. | Yes / No / Explain | |
| 12 | Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions. | Yes / No / Explain | |

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| 13 | The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself. Confirm attachment of Self declaration along with the offer. | Yes / No / Explain | |
| 14 | PO Placement Address (with Name and Contact Details of sales person concerned). | Yes / No / Explain | |
| 15 | Any Other Terms [01.VSSC 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. Confirm Acceptance. 02. There should be no variation between the price quoted in the price bid template and PDF format of the price bid. In the event of any variation, the price quoted in the E-proc price bid template shall be considered. CONFIRM. | Yes / No / Explain | |
| 16 | Offer Validity [180 days] | Yes / No / Explain | |

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | Remark |
|---------|--|----------|------------|----------|-------------|--------|
| 1 | AUTOMATION OF ANODE COATING FACILITY AT APEP | 1.00 Lot | | - | | |

Common charges (Applicable for all items)

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| AMC Charges for 1st Year after warranty period | |
| AMC Charges for 2nd Year after warranty period | |
| AMC Charges for 3rd Year after warranty period | |

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| AMC Charges for 4th Year after warranty period | |
| AMC Charges for 5th Year after warranty period | |
| AMC Charges for 6th Year after warranty period | |
| AMC Charges for 7th Year after warranty period | |
| Any Other Charges | |
| Packing and Forwarding Charges | |
| Freight charge | |