

Bid Document

Bid Details	
Bid End Date/Time	11-05-2022 11:00:00
Bid Opening Date/Time	11-05-2022 11:30:00
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Mines
Department Name	Na
Organisation Name	Jawaharlal Nehru Aluminium Research Development And Design Centre (jnarddc)
Office Name	West
Total Quantity	1
Item Category	Design, manufacture, Supply and installation of Anode current distribution system for aluminium electrolysis cell
BOQ Title	Anode current distribution system for aluminum electrolysis cell
Minimum Average Annual Turnover of the Bidder	6 Lakh (s)
OEM Average Turnover (Last 3 Years)	40 Lakh (s)
Years of Past Experience required	3 Year (s)
MSE Exemption for Years Of Experience and Turnover	Yes
Startup Exemption for Years Of Experience and Turnover	Yes
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,OEM Authorization Certificate,OEM Annual Turnover,Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Past Performance	20 %
Bid to RA enabled	No
Time allowed for Technical Clarifications during technical evaluation	2 Days
Evaluation Method	Total value wise evaluation

EMD Detail

Advisory Bank	IDBI Bank
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EMD Percentage(%)	3.00
EMD Amount	60000

ePBG Detail

Advisory Bank	IDBI Bank
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	18

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

Secretary cum Sr. Admin. Officer

West, NA, Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), Ministry of Mines (Raghupathy Srinivasan)

Splitting

Bid splitting not applied.

MII Purchase Preference

MII Purchase Preference	Yes
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MSE Purchase Preference

MSE Purchase Preference	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in

support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

5. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

6. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

7. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

8. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

9. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 20% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Design, Manufacture, Supply And Installation Of Anode Current Distribution System For Aluminium Electrolysis Cell (1 pieces)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Raghupathy Srinivasan	440023,Opp Wadi Police Station Amarawati Road	1	180

Buyer Added Bid Specific Terms and Conditions

1. Generic

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

2. Generic

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

3. Generic

OPTIONAL SITE VISIT:

1. The Bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne by the Bidder. all costs of visits including contract period will be borne by the bidder

2. The Bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the Bidder will release and indemnify the Buyer and Consignee against all liabilities arising out of such visit including death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such visit.

3. The Bidder shall not be entitled to hold any claim against Buyer for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

4. Generic

The buyer organization is an institution eligible for concessional rates of GST as notified by the Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.

Applicable Concessional rate of GST : 5%

Notification No.and date : 11/154/1989-TU-V DATED 18/10/2021 dated 18/10/2021

5. **Generic**

The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price: Design, manufacture, Supply and installation .

6. **Generic**

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

7. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name JNARDDC Account No. 041104000192392 IFSC Code IBKL0000041 Bank Name IDBI Branch address CIVIL LINES NAGPUR. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

8. **Scope of Supply**

Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

9. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

Additional terms and conditions:

These items are required for the R&D project which included Design, manufacture, Supply installation and demonstration of Anode current distribution system for aluminium electrolysis cell.

- 1) Bidder must have branch in **Nagpur** with required facilities for development of the system. If any bidder did not have branch /office while submitting the bid, they have to submit the certificate

that office will be established within one month after awarding the order.

(2) In this R&D project, bidder have to depute any person from his firm who have to accompany JNARDDC team for aluminium smelter plant visits to understand the requirements.

3) Also supplied instrument to be demonstrated and installed at any aluminium smelter plant in India. During contract **2 plant visits** to be carried out by the firm representative along with JNARDDC team. All expenditure has to be borne by the firm. Therefore, firm have to quote the lumpsum amount in price bid.

4. Bidder have to quote the **lumpsum price with 5% GST**. JNARDDC is eligible for concessional GST 5% applicable for R&D procurements.

5. Duration for the design, manufacture, Supply, installation and completion of project: **Six (6) months**. Same may be extended with mutual agreement .

6. GOI rules with reference to procurement policy for MSME GFR 2017 rules and public procurement (Preference to make in India) order 2017 shall be applicable”.

7. Bank details for online submission of EMD and performance guarantee

IDBI Bank, Civil Lines, Main Branch, Nagpur A/C no.
041104000192392

A/c name : Jawaharlal Nehru Aluminium Research Development & Design Centre, Nagpur (JNARDDC), Branch Code : 0041, MICR no. 440259002,IFSC Code IBKL0000041

8. Bidder should submit experience certificate of manufacture, supply and installation of similar type of works.

10. **Service & Support**

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

11. **Warranty**

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 15 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

12. **Past Project Experience**

For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:

- a. Purchase Order copy along with Invoice(s) with self-certification by the bidder that supplies against the invoices have been executed.
- b. Execution certificate by client with order value.
- c. Any other document in support of order execution like Third Party Inspection release note, etc.

13. **Past Project Experience**

The Bidder / OEM {themselves or through reseller(s)}, should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid, as per following criteria:

- (i) Single order of at least 35% of estimated bid value; or
- (ii) Two orders of at least 20% each of estimated bid value; or
- (iii) Three orders of at least 15% each of estimated bid value.

Satisfactory Performance certificate issued by respective Buyer Organization for the above Orders should be uploaded with bid. In case of bunch bids, the Category related to primary product having highest bid value should meet this criterion

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or

otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, 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. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---Thank You---

Jawaharlal Nehru Aluminium Research Development and Design Centre invites bids from Indian agencies for the **Design, manufacture, Supply and installation of Anode current distribution system for aluminium electrolysis cell.**

Introduction : In aluminium extraction process number of carbon anodes are immersed in electrolyte bath in a cell with cathode bottom. Anodes are fitted with metallic rods (aluminium alloy anode stem). The functions of the rods are to allow electric conduction to the Anodes, and to hold the Anodes to the Anode beam. Based on the principle of anode rod equidistant voltage drop sensing, JNARDDC is designing the Wi-Fi enabled system for online continuous measurement of anode current distribution. The system should be capable to measure the individual anode currents for 16 anodes of any aluminium electrolysis cell. Master unit captures the current data through radio frequency from all sixteen-slave units installed at individual anodes. After receiving the data from slave unit, master unit transmits the data to control room through Wi-Fi Network (which will be setup by JNARDDC). The surface temperature of anode stem (where slave unit will be hanged slightly away from the surface) is in the range of 120-150 degree Celsius. Magnetic field in that area will be in the range of 0.25 - 0.3 tesla. Aluminium electrolysis process temperature is in the range of 940-980 degree Celsius, so any inflammable material should be avoided or shielded properly.

Anode current distribution system for aluminium electrolysis cell

Comprises with following two items .

- (1) Anode Data Acquisition Unit Qty-16 No

Specifications for Anode Data Acquisition Unit

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|---------------------------------|--|
| 1. No of channels: | 1 |
| 2. Communication Interface: | Short Range Radio |
| 3. Power source: | Rechargeable Battery operable up to 75 Degree Celcius |
| 4. Energy Harvesting Source: | Field Generated by Anode Current.
The Energy harvested to be used to charge the above battery |
| 5. Operating Temperature: | 0 – 70 Degree Celsius |
| 6. Ambient Temperature Sensing: | Required |
| 7. Presence of magnetic field: | 0.25 Tesla |
| 8. Measurement parameter: | Anode Current |
| 9. Measurement range: | 20 Kilo Amperes DC |
| 10. Resolution required: | 10 Amps |

2. **Master DAQ (Master data acquisition unit) (Qty-01)**

Specifications for Master DAQ

- | | |
|---------------------------------|--|
| 1. Communication Interface: | Short Range Radio for communication with Anode DAQ unit
WiFi and Ethernet for network connectivity. |
| 2. Power Source: | Rechargeable battery |
| 3. Operating Temperature: | 0 – 55 Degree Celcius |
| 4. Presence of Magnetic Field: | 0.25 Tesla |
| 5. User Interface: | LCD Display & Keypad |
| 6. Memory: | 16MB |
| 7. Real Time Clock: | Required |
| 8. Ambient Temperature sensing: | Required |