

Bid Document

Bid Details	
Bid End Date/Time	11-05-2022 13:00:00
Bid Opening Date/Time	11-05-2022 13:30:00
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	ULTRA PURE WATER PURIFICATION SYSTEM (Q3)
Minimum Average Annual Turnover of the Bidder	5 Lakh (s)
OEM Average Turnover (Last 3 Years)	60 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

Required	No
----------	----

ePBG Detail

Required	No
----------	----

Splitting

Bid splitting not applied.

MII Purchase Preference

MII Purchase Preference	Yes
-------------------------	-----

MSE Purchase Preference

MSE Purchase Preference	Yes
-------------------------	-----

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. 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.

ULTRA PURE WATER PURIFICATION SYSTEM (1 pieces)

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

Brand Type	Unbranded
------------	-----------

Technical Specifications

Buyer Specification Document	Download
------------------------------	--------------------------

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	25

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**

Scope of supply includes Training: Number of employees to be trained 2 , Place for Training NAGPUR and Duration of training 2 days.

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

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: SUPPLY ,INSTALLATION AND TRAINING .

6. **OEM**

IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

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. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

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

9. **Turnover**

Bidder Turn Over Criteria: 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 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.

10. **Turnover**

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. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

11. **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.

12. **Warranty**

Warranty period of the supplied products shall be 2 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

13. **Warranty**

Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

14. **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.

15. **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---

TECHNICAL SPECIFICATION FOR ULTRA PURE WATER SYSTEM

Ultra-Pure Water Purification System Technical Specifications:

Separate Water Purification Systems should be capable of producing pure water (Type II) with flow 10 L/hr and ultra-pure (Type I) water (18.2 mega ohm cm resistivity, up to 2L or more/min) with necessary accessories to produce Purified and Ultrapure Water.

Feed Water Acceptance:	
Conductivity	< 2000 μ S/cm
Fouling Index (SDI)	< 12
Total Chlorine	< 3 ppm
TOC	< 2000 ppb
Hardness	<300 ppm
Specifications of Type II systems:	
Production rate	10 L/hr
Conductivity	5 M Ω .cm
TOC	<30ppb
Specifications of Type I systems:	
Production rate	2L or more/hr
Conductivity	18.2 M Ω .cm
TOC	< 5 ppb
Bacteria	<0.01 cfu/ml
Requirement of Type II system	
Prefiltration Unit	2 bowls with inbuilt Pump to deliver required quantity of water to Type II system. Prefiltration unit must have capability to take feed water with TDS @ 5000 ppm and SDI @ 50. Vendor must provide Catalogue for Pre-filtration Unit mentioning above specifications

Pre-treatment Pack	Pre-treatment Pack should include Activate Carbon Beads, Polyphosphate Crystals and 0.5 µm depth filter to remove contaminations like Chlorine, Hardness and Suspended Particles respectively. It should come with RFID tag for traceability and to understand the volume of dispensed.
RO membrane	System should have RO membrane to remove organic and inorganic level with 90-99% ionic rejection ration efficiently. RO must have a recovery loop with Capillary Tubing to save feed water with 30 to 50%. To enhance life of RO membrane it should have automatic flushing and rinsing cycle. RO membrane must have conductivity cell before and after to have correct ration of rejection of ions. Flow diagram must have above details for Type II water system.
EDI (Electrodeposition module)	After RO, Type II system should have EDI (Electrodeposition module) for delivery of consistently Type II water quality to eliminate regular replacement of DI cartridges. EDI should be without Softening Cartridge to have lower running cost. Mixed bed resins should be regenerated automatically to enhance life of EDI. EDI must have activated carbon beads at cathode side for avoiding formation of scaling.
Storage Tank with sensor	A Separate tank of minimum size 30 ltr should be provided. Tank should come with level sensor to auto cut off. Material should be of Polyethylene selected for its minimum release of extractables. Opaque walls for blocking sunlight to prevent algae

	<p>development and smooth inner surface to prevent biofilm formation. Shape should be cylindrical which minimizes surface area in contact with water. Bottom should be conical which allows complete draining for cleaning and rinsing. Front valve should be provided which enables manual dispense of pure water. Sensor rod float switch system for automatic storage tank refill and indication of water level (% full). Overflow connected to the drain, in the unlikely event of a water system malfunction. Direct display of stored water level on water purification system units.</p>
Display	<p>Type II system having backlite LCD screen with changing color facility to showing ALERTS & ALARMS for easy maintenance. It should have BLUE, YELLOW and RED color as display. System must be able to show warning 15 days before so that customer can maintain inventory.</p>
Requirement of Type I system	
Polishing Cartridges	<p>System must have two polishing cartridges. These cartridges use combination of Jetpore Mixed Bed Ion Exchange Resins, Ion Exchange Nano Media with Activated Carbon to remove all ions. These cartridges must come facility with Twist & Lock for easy replacement by anyone in Lab.</p>
UV Lamp	<p>System must have 185 nm UV Lamp to reduce TOC and with span of life of 2 years life.</p>
Solenoid Valve	<p>system must come with Solenoid Valve and Recirculation Loop to keep water quality in good</p>

	condition. The system must have LAB CLOSE mode facility.
TOC Monitor	System should capable to show TOC value between 5-999 ppb.
Display	Type I system Display must of 7" colored touch screen installed on TOP of the system with intuitive organized menus. It must have facility to share system information, water quality, dispense options, easy data access and controls.
Dispensing Unit	<ol style="list-style-type: none"> 1. Type I system must come with separate flexible dispensing unit with 3 manually controlled flow rates i.e. Low, Medium & High, Flow rate to be adjust with thumb and with Volumetric dispensing from 100 ml to 25 L in increment of 100 ml. 2. Dispensing Unit must come with 3-meter length. It should be flexible to adjustable to match the height of any flask available in lab. It should be unhooking from its magnetic hold for easy handling. 3. Must have option to install with Foot Pedal to have hands free dispensing of water.
Monitoring and control	Type I system must have facility to connect Remotely with Ethernet Port or IP address for better monitoring & control, rapid data access and paperless data management. Must have facility to transfer data through USB Port on touchscreen.
Operation & Maintenance manual	Complete Instruction manual on operation / along with controller programming and Separate maintenance manual.

Authentication	Vendor must provide Catalogue & Flow Diagram for all above details for authentication purpose. Vendor attached Catalogue & Flow Diagram must match with website details.
Additional RO System	Bidder must provide additional RO System for feed the water. Capacity 25 Ltr per Hrs.

Terms and conditions:

1. The delivery, installation, commissioning and training of the purification system shall be at JNARDDC, Wadi Nagpur.
2. Warranty: 2 Years & back up of spare parts up to five years.
3. Technical service should be provided at JNARDDC during the warranty period free of cost.
4. Bidder have to submit the compliance sheet as per above said specifications with catalogue etc.