

### Bid Document

| Bid Details                               |                                                                                                                                                                                                                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bid End Date/Time                         | 27-07-2020 17:00:00                                                                                                                                                                                                                                                            |
| Bid Opening Date/Time                     | 27-07-2020 17:30:00                                                                                                                                                                                                                                                            |
| Bid Life Cycle (From Publish Date)        | 90 (Days)                                                                                                                                                                                                                                                                      |
| Bid Offer Validity (From End Date)        | 30 (Days)                                                                                                                                                                                                                                                                      |
| Ministry/State Name                       | Ministry Of Railways                                                                                                                                                                                                                                                           |
| Department Name                           | Na                                                                                                                                                                                                                                                                             |
| Organisation Name                         | N/a                                                                                                                                                                                                                                                                            |
| Office Name                               | Secr                                                                                                                                                                                                                                                                           |
| Total Quantity                            | 1                                                                                                                                                                                                                                                                              |
| Item Category                             | Potable water purification system with inbuilt water cooler.                                                                                                                                                                                                                   |
| Experience Criteria                       | 3 Year (s)                                                                                                                                                                                                                                                                     |
| MSE Exemption for Years Of Experience     | Yes                                                                                                                                                                                                                                                                            |
| Startup Exemption for Years Of Experience | Yes                                                                                                                                                                                                                                                                            |
| Document required from seller             | Experience Criteria,Certificate (Requested in ATC),OEM Authorization Certificate<br>*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 |
| Bid to RA enabled                         | No                                                                                                                                                                                                                                                                             |
| Inspection Required                       | No                                                                                                                                                                                                                                                                             |

### EMD Detail

|          |    |
|----------|----|
| Required | No |
|----------|----|

### ePBG Detail

|          |    |
|----------|----|
| Required | No |
|----------|----|

### Splitting

Bid splitting not applied.

1. 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 years as indicated 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 year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

## Potable Water Purification System With Inbuilt Water Cooler. ( 1 pieces )

### Technical Specifications

\* As per GeM Category Specification

| Specification         | Specification Name                                                                 | Values                                                                        | Bid Requirement (Allowed Values)                                              |
|-----------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Standard Parameter    | <b>Certification for the product</b>                                               | CE                                                                            | CE                                                                            |
|                       | Certification No and Date                                                          | -                                                                             | *                                                                             |
|                       | Manufacturers Quality System Certifications                                        | -                                                                             | *                                                                             |
|                       | Manufacturers Environment Management System Certifications                         | -                                                                             | *                                                                             |
|                       | Manufacturers Health and Safety Management System Certifications                   | -                                                                             | *                                                                             |
|                       | <b>Conformity to Standard for Ultraviolet system</b>                               | IS 14724 (latest) for water purification system with Ultraviolet disinfection | IS 14724 (latest) for water purification system with Ultraviolet disinfection |
|                       | Output Water Conforming standard                                                   | IS 10500 (latest)                                                             | *                                                                             |
| Performance Parameter | <b>Type of water purification technology</b>                                       | RO +UV                                                                        | RO +UV                                                                        |
|                       | <b>Power consumptions of system (with <math>\pm</math> 5% tolerance) (in watt)</b> | 575                                                                           | 575                                                                           |
|                       | <b>Maximum Input Water TDS allow to the system</b>                                 | 2000                                                                          | 2000                                                                          |
|                       | Input water hardness                                                               | 500 ppm or less                                                               | *                                                                             |
|                       | Input water pH                                                                     | 6.5 to 8.5                                                                    | *                                                                             |
|                       | Input water chlorine                                                               | 0.2 ppm                                                                       | *                                                                             |
|                       | Input water iron                                                                   | 0.2 ppm                                                                       | *                                                                             |
|                       | Input water turbidity                                                              | Less than 5 NTU                                                               | *                                                                             |
|                       | <b>Operation mode</b>                                                              | Fully automatic with auto cut off                                             | Fully automatic with auto cut off                                             |
|                       | Availability of sediment and activated carbon filter                               | Yes                                                                           | *                                                                             |
|                       | <b>Ultraviolet (UV) LAMP</b>                                                       | Yes                                                                           | Yes Or higher                                                                 |
|                       | Ultraviolet (UV) Lamp power in watts (Hint put zero in case UV is not available)   | 11                                                                            | *                                                                             |
|                       | <b>Provision of Arsenic removal</b>                                                | Yes                                                                           | Yes Or higher                                                                 |
|                       | <b>Provision of Fluoride removal</b>                                               | No                                                                            | Yes, No Or higher                                                             |
|                       | <b>Provision of Chloride removal</b>                                               | no                                                                            | Yes, no Or higher                                                             |
|                       | <b>Alkaline filter</b>                                                             | No                                                                            | Yes, No Or higher                                                             |
|                       | Storage tank                                                                       | In-built                                                                      | *                                                                             |

|                                                                              |                                                                       |                                                                       |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Material of water Storage Tank</b>                                        | Stainless Steel SS 304                                                | Stainless Steel SS 304                                                |
| <b>Storage tank capacity up to float valve level (in liter)</b>              | 80                                                                    | 80                                                                    |
| Stages of purification                                                       | 7                                                                     | *                                                                     |
| No of RO Membranes provided                                                  | 4                                                                     | *                                                                     |
| <b>RO Membrane rating</b>                                                    | 80 GPD                                                                | 80 GPD                                                                |
| <b>RO Membrane flushing</b>                                                  | Auto flush at every start,every stop and every one hour for 1 minutes | Auto flush at every start,every stop and every one hour for 1 minutes |
| No of Particulate filter provided                                            | 1                                                                     | *                                                                     |
| <b>Particulate Filter size</b>                                               | 10 inch                                                               | 10 inch                                                               |
| <b>Particulate Filter Porosity</b>                                           | 5 micron                                                              | 5 micron                                                              |
| No of Activated Carbon filter provided                                       | 2                                                                     | *                                                                     |
| <b>Activated Carbon filter Size</b>                                          | 10 Inch                                                               | 10 Inch                                                               |
| No of Antiscalant filter provided                                            | 0                                                                     | *                                                                     |
| <b>Antiscalant- where silica is up to 10 ppm/where Mica is up to 100 ppm</b> | Yes                                                                   | Yes Or higher                                                         |
| <b>Nano Silver leaching filtration</b>                                       | No                                                                    | Yes, No Or higher                                                     |
| <b>Minimum inlet pressure</b>                                                | 0.3 KG/CM2                                                            | 0.3 KG/CM2                                                            |
| Maximum inlet pressure                                                       | 3.5 KG/CM2                                                            | *                                                                     |
| Maximum Inlet water temperature                                              | 35 degree celsius                                                     | *                                                                     |
| <b>Digital display</b>                                                       | No                                                                    | Yes, No Or higher                                                     |
| <b>Real time TDS display</b>                                                 | No                                                                    | Yes, No Or higher                                                     |
| <b>Real time pH Display</b>                                                  | No                                                                    | Yes, No Or higher                                                     |
| <b>High pressure pump</b>                                                    | Yes                                                                   | Yes Or higher                                                         |
| <b>Raw water/Chemical Raw water/Chemical Cleaning pump</b>                   | No                                                                    | Yes, No Or higher                                                     |
| <b>Recovery percentage at 27 degree centigrade</b>                           | 90-100                                                                | 90-100                                                                |
| <b>Filtration water capacity in liter/ hour</b>                              | 50                                                                    | 50                                                                    |
| <b>TDS removal percentage from RO Membrane</b>                               | 90%                                                                   | 90%                                                                   |
| <b>Pressure vessel Sand Filter</b>                                           | No                                                                    | Yes, No Or higher                                                     |
| <b>Pressure vessel Carbon Filter</b>                                         | No                                                                    | Yes, No Or higher                                                     |
| <b>Pressure Vessel Dual Media Filter</b>                                     | No                                                                    | Yes, No Or higher                                                     |

|                       |  |                                                                                                     |                                       |                                       |
|-----------------------|--|-----------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
|                       |  | <b>Body of filter</b>                                                                               | ABS Food grade                        | ABS Food grade                        |
|                       |  | <b>Membrane Housing</b>                                                                             | Yes                                   | Yes Or higher                         |
| Cooler Parameters     |  | <b>Number of candles</b>                                                                            | 5                                     | 5                                     |
|                       |  | <b>Type of compressor</b>                                                                           | Reciprocating                         | Reciprocating                         |
|                       |  | <b>Refrigerant Used</b>                                                                             | HFC-R-134/A                           | HFC-R-134/A                           |
|                       |  | <b>Refrigeration temperature</b>                                                                    | 15 to 17                              | 15 to 17                              |
|                       |  | Type of Condenser                                                                                   | Fin type/tube type                    | *                                     |
|                       |  | Evaporator material                                                                                 | Cooper                                | *                                     |
|                       |  | Water Storage tank insulation                                                                       | PUF thermal insulation                | *                                     |
|                       |  | <b>Provision for Hot water</b>                                                                      | No                                    | Yes, No Or higher                     |
|                       |  | <b>Number of Cold Water Faucets</b>                                                                 | 2                                     | 2                                     |
|                       |  | <b>Number of Normal Water Faucets</b>                                                               | NA                                    | NA                                    |
|                       |  | <b>Number of Hot Water Faucets</b>                                                                  | Na                                    | Na                                    |
|                       |  | Water flow rate through Faucets( in liter per hour)                                                 | 50                                    | *                                     |
|                       |  | <b>Cooling capacity at comfort level (17 ± 1 degree celsius) (in liter per hour)</b>                | 10                                    | 10                                    |
|                       |  | <b>Installation Type</b>                                                                            | Floor Mounted                         | Floor Mounted                         |
|                       |  | <b>Power supply</b>                                                                                 | SINGLE PHASE ( 230 ± 10 % VOLT,%0 Hz) | SINGLE PHASE ( 230 ± 10 % VOLT,%0 Hz) |
|                       |  | Maximum running current in ampere at rated condition                                                | 4.5 ± 10 %                            | *                                     |
|                       |  | <b>Warranty in years including electronic ,electric parts, replacement of filters twice a year)</b> | NA                                    | NA                                    |
|                       |  | <b>Warranty period without Filter , electronic and electrical parts</b>                             | Na                                    | Na                                    |
|                       |  | <b>Warranty period without Filter &amp; inclusive of electronic and electrical parts</b>            | 1                                     | 1                                     |
| Additional Parameters |  | <b>Availability of type test Test REPORT for Filtering Size of Particles</b>                        | No                                    | Yes, No Or higher                     |
|                       |  | TYPE Test certificate No and date for Filtering Size of Particles                                   | -                                     | *                                     |
|                       |  | Name and Address of laboratory which conducted Test for Filtering Size of Particles:                | -                                     | *                                     |
|                       |  | <b>Availability of Test Report on Microbial</b>                                                     | No                                    | Yes, No Or higher                     |

|                                                                                                          |                                                 |                                                 |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>Efficacy from Govt/NABL/ilac Lab</b>                                                                  |                                                 |                                                 |
| Test certificate No and date for Microbial Efficacy                                                      | -                                               | *                                               |
| Name of the lab for Microbial Efficacy                                                                   | -                                               | *                                               |
| <b>Availability of type test certificate from NABL/ILAC Lab design evaluation report as per IS 14724</b> | Yes                                             | Yes Or higher                                   |
| Copies of certifications and reports to be given to buyer at time of supplies                            | Yes                                             | *                                               |
| User/Technical/Maintenance manuals to be supplied in English in hard and soft copy                       | Yes                                             | *                                               |
| <b>Availability of toll free centres for customer support</b>                                            | Yes                                             | Yes Or higher                                   |
| <b>Installation and Commissioning inclusive in the scope of Supply*</b>                                  | Yes                                             | Yes Or higher                                   |
| <b>Availability of NABL Accredited Laboratory Facility with OEM</b>                                      | Yes                                             | Yes Or higher                                   |
| Name and Address of NABL Accredited lab with OEM , If Not available put NA                               | -                                               | *                                               |
| <b>Inlet Pipe &amp; Fitting from raw water sources to water purification system</b>                      | to be arranged by buyer / consignee             | to be arranged by buyer / consignee             |
| <b>Pipe &amp; Fitting from Out let to purified water tank</b>                                            | To be arranged by buyer /consignee              | To be arranged by buyer /consignee              |
| Pipe and pipe fitting material                                                                           | PVC                                             | *                                               |
| <b>Electrical fitting and plug points</b>                                                                | To be arranged by buyer /consignee              | To be arranged by buyer /consignee              |
| <b>ISI marked Electronic and electrical parts provided</b>                                               | Yes                                             | Yes Or higher                                   |
| Open installation of Water pipe fitting and waste water pipe line fitting provided                       | Yes                                             | *                                               |
| <b>Scope Civil Work if any required during installation</b>                                              | All Civil work shall be responsibility of buyer | All Civil work shall be responsibility of buyer |

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

#### **Additional Specification Documents**

#### **Consignees/Reporting Officer and Quantity**

| S.No. | Consignee/Reporting Officer | Address                                                       | Quantity | Delivery Days |
|-------|-----------------------------|---------------------------------------------------------------|----------|---------------|
| 1     | Saroj Kumar Senapati        | 492008,Sr DMM SECR DRM Office<br>, South East Central Railway | 1        | 15            |

## **Bid Specific Additional Terms and Conditions**

- 1.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.
- 2.**Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.
- 3.Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
- 4.Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
- 5.Warranty period of the supplied products shall be 1 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
- 6.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 10 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.
- 7.Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

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

**---Thank You---**