

Bid Document

| Bid Details | |
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| Bid End Date/Time | 23-07-2020 12:00:00 |
| Bid Opening Date/Time | 23-07-2020 12:30:00 |
| Bid Life Cycle (From Publish Date) | 90 (Days) |
| Bid Offer Validity (From End Date) | 60 (Days) |
| Ministry/State Name | Ministry Of Railways |
| Department Name | Na |
| Organisation Name | N/a |
| Office Name | Eastern Railway |
| Total Quantity | 2 |
| Item Category | Potable water purification system with inbuilt water cooler. |
| MSE Exemption for Years of Experience and Turnover | No |
| Startup Exemption for Years of Experience and Turnover | No |
| Bid to RA enabled | No |
| Inspection Required | No |

EMD Detail

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| Required | No |
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ePBG Detail

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| Required | No |
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Splitting

Bid splitting not applied.

Potable Water Purification System With Inbuilt Water Cooler. (2 pieces)

Technical Specifications

* As per GeM Category Specification

| Specification | Specification Name | Values | Bid Requirement (Allowed Values) |
|-----------------------|--|---|--|
| Standard Parameter | Certification for the product | CE | CE, WQA, NSF, NA |
| | Certification No and Date | - | * |
| | Manufacturers Quality System Certifications | - | * |
| | Manufacturers Environment Management System Certifications | - | * |
| | Manufacturers Health and Safety Management System Certifications | - | * |
| | Conformity to Standard for Ultraviolet system | IS 14724 (latest) for water purification system with Ultraviolet disinfection | IS 14724 (latest) for water purification system with Ultraviolet disinfection, NA if UV not provided |
| | Output Water Conforming standard | IS 10500 (latest) | * |
| Performance Parameter | Type of water purification technology | RO +UV | RO +UV |
| | Power consumptions of system (with \pm 5% tolerance) (in watt) | 575 | 300, 400, 575, 775, 950, 1300, 1550, 2200 |
| | Maximum Input Water TDS allow to the system | 2000 | 1000, 2000, 3000 |
| | 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 | * |
| | Operation mode | Fully automatic with auto cut off | Fully automatic with auto cut off, Semi Automatic with External Auto Cut Off |
| | Availability of sediment and activated carbon filter | Yes | * |
| | Ultraviolet (UV) LAMP | Yes | Yes, No Or higher |

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| Ultraviolet (UV) Lamp power in watts (Hint put zero in case UV is not available) | 11 | * |
| Provision of Arsenic removal | Yes | Yes, No Or higher |
| Provision of Fluoride removal | No | Yes, No Or higher |
| Provision of Chloride removal | no | Yes, no Or higher |
| Alkaline filter | No | Yes, No Or higher |
| Storage tank | In-built | * |
| Material of water Storage Tank | Stainless Steel SS 304 | Stainless Steel SS 304, Clay Pot (Terracotta), Copper, ABS Food Grade, NA |
| Storage tank capacity up to float valve level (in liter) | 80 | 10, 25, 50, 80, 120, 150, Storage tank arranged by buyer |
| Stages of purification | 7 | * |
| No of RO Membranes provided | 4 | * |
| RO Membrane rating | 80 GPD | 75 GPD, 80 GPD, 100 GPD, 150 GPD, NA |
| RO Membrane flushing | 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, NA |
| No of Particulate filter provided | 4 | * |
| Particulate Filter size | 10 inch | 10 inch, 20 inch |
| Particulate Filter Porosity | 5 micron | 5 micron, 10 micron, 20 micron |
| No of Activated Carbon filter provided | 2 | * |
| Activated Carbon filter Size | 10 Inch | 10 Inch, 20 Inch |
| No of Antiscalant filter provided | 1 | * |
| Antiscalant- where silica is up to 10 ppm/where Mica is up to 100 ppm | Yes | Yes, No Or higher |
| Nano Silver leaching filtration | No | Yes, No Or higher |

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| | Minimum inlet pressure | 0.3 KG/CM2 | 0.3 KG/CM2, 0.6 KG/CM2, 1 KG/CM2 |
| | Maximum inlet pressure | 3.5 KG/CM2 | * |
| | Maximum Inlet water temperature | 35 degree celsius | * |
| | Digital display | No | Yes, No Or higher |
| | Real time TDS display | No | Yes, No Or higher |
| | Real time pH Display | No | Yes, No Or higher |
| | High pressure pump | Yes | Yes, No Or higher |
| | Raw water/Chemical Raw water/Chemical Cleaning pump | Yes | Yes, No Or higher |
| | Recovery percentage at 27 degree centigrade | 25-35 | 25-35, 30-40, 50-60, 70-80, 90-100 |
| | Filtration water capacity in liter/ hour | 50 | 25, 35, 50, 80, 100, 120, 150 |
| | TDS removal percentage from RO Membrane | 25% | 25%, 50%, 75%, 90%, NA for uv only |
| | Pressure vessel Sand Filter | Yes | Yes, No Or higher |
| | Pressure vessel Carbon Filter | Yes | Yes, No Or higher |
| | Pressure Vessel Dual Media Filter | Yes | Yes, No Or higher |
| | Body of filter | ABS Food grade | ABS Food grade, MS Powder Coating, Stainless Steel |
| | Membrane Housing | Yes | Yes, No Or higher |
| | Number of candles | 6 or more | 2, 3, 4, 5, 6 or more |
| Cooler Parameters | Type of compressor | Reciprocating | Rotary, Reciprocating |
| | Refrigerant Used | HFC-R-134/A | HFC-R-134/A, R22 |
| | Refrigeration temperature | 15 to 17 | 15 to 17 |
| | Type of Condenser | Fin type/tube type | * |
| | Evaporator material | Cooper | * |
| | Water Storage tank insulation | PUF thermal insulation | * |
| | Provision for Hot water | No | Yes, No Or higher |

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| | Number of Cold Water Faucets | 2 | 1, 2, 3, NA |
| | Number of Normal Water Faucets | 2 | 1, 2, 3, NA |
| | Number of Hot Water Faucets | Na | 1, 2, 3, Na |
| | Water flow rate through Faucets(in liter per hour) | 50 | * |
| | Cooling capacity at comfort level (17 ± 1 degree celsius) (in liter per hour) | 60 | 10, 20, 40, 60, 80 |
| | Installation Type | Floor Mounted | Floor Mounted, Floor Mounted and Enclosed, wall mounted, under sink |
| | Power supply | SINGLE PHASE (230 ± 10 % VOLT,%0 Hz) | SINGLE PHASE (230 ± 10 % VOLT,%0 Hz), Three phase (415 ± 10 % VOLT,%0 Hz) |
| | Maximum running current in ampere at rated condition | 4.5 ± 10 % | * |
| | Warranty in years including electronic ,electric parts, replacement of filters twice a year) | 1 | 1, 2, 3, NA |
| | Warranty period without Filter , electronic and electrical parts | Na | 1, 2, 3, Na |
| | Warranty period without Filter & inclusive of electronic and electrical parts | 1 | 1, 2, 3, NA |
| Additional Parameters | Availability of type test Test REPORT for Filtering Size of Particles | Yes | 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: | - | * |

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| Availability of Test Report on Microbial Efficacy from Govt/NABL/ilac Lab | Yes | Yes, No Or higher |
| Test certificate No and date for Microbial Efficacy | - | * |
| Name of the lab for Microbial Efficacy | - | * |
| Availability of type test certificate from NABL/ILAC Lab design evaluation report as per IS 14724 | Yes | Yes, No 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 | * |
| Availability of toll free centres for customer support | Yes | Yes, No Or higher |
| Installation and Commissioning inclusive in the scope of Supply* | Yes | Yes, no Or higher |
| Availability of NABL Accredited Laboratory Facility with OEM | Yes | Yes, No Or higher |
| Name and Address of NABL Accredited lab with OEM , If Not available put NA | - | * |
| Inlet Pipe & Fitting from raw water sources to water purification system | to be arranged by buyer / consignee | suitable pipe and fitting to be provided by seller up to 20 feet, to be arranged by buyer / consignee, Not applicable |
| Pipe & Fitting from Out let to purified water tank | To be arranged by buyer /consignee | to be arranged by seller (upto 20 feet), To be arranged by buyer /consignee, Not applicable |
| Pipe and pipe fitting material | PVC | * |

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| Electrical fitting and plug points | To be arranged by buyer /consignee | To be arranged by buyer /consignee, To be arranged by seller |
| ISI marked Electronic and electrical parts provided | Yes | Yes, No Or higher |
| Open installation of Water pipe fitting and waste water pipe line fitting provided | Yes | * |
| Scope Civil Work if any required during installation | All Civil work shall be responsibility of buyer | All Civil work shall be responsibility of buyer, All Civil work shall be responsibility of Seller |

* 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 | Moses Nag | 711204,Eastern Railway Liluah | 2 | 30 |

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
2. 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 7 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.

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

---Thank You---