

### Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 13:00:00
Bid Opening Date/Time	21-07-2020 13:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	80 (Days)
Ministry/State Name	Ministry Of Coal
Department Name	Materials Management
Organisation Name	Mahanadi Coalfields Limited
Office Name	General Manager Materials Management Mcl Hqr
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
Document required from seller	OEM Authorization Certificate *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
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### ePBG Detail

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	<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>	Semi Automatic with External Auto Cut Off	Semi Automatic with External Auto Cut Off
	Availability of sediment and activated carbon	Yes	*

filter		
<b>Ultraviolet (UV) LAMP</b>	Yes	Yes Or higher
Ultraviolet (UV) Lamp power in watts (Hint put zero in case UV is not available)	16	*
<b>Provision of Arsenic removal</b>	Yes	Yes Or higher
<b>Provision of Fluoride removal</b>	Yes	Yes Or higher
<b>Provision of Chloride removal</b>	Yes	Yes Or higher
<b>Alkaline filter</b>	Yes	Yes 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>	120	120
Stages of purification	7	*
No of RO Membranes provided	4	*
<b>RO Membrane rating</b>	75 GPD	75 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	1	*
<b>Activated Carbon filter Size</b>	10 Inch	10 Inch
No of Antiscalant filter provided	1	*
<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>	Yes	Yes Or higher
	<b>Recovery percentage at 27 degree centigrade</b>	30-40	30-40
	<b>Filtration water capacity in liter/ hour</b>	80	80
	<b>TDS removal percentage from RO Membrane</b>	90%	90%
	<b>Pressure vessel Sand Filter</b>	Yes	Yes Or higher
	<b>Pressure vessel Carbon Filter</b>	Yes	Yes Or higher
	<b>Pressure Vessel Dual Media Filter</b>	Yes	Yes Or higher
	<b>Body of filter</b>	ABS Food grade	ABS Food grade
	<b>Membrane Housing</b>	Yes	Yes Or higher
	<b>Number of candles</b>	4	4
Cooler Parameters	<b>Type of compressor</b>	Rotary	Rotary
	<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

Number of Normal Water Faucets	1	1
Number of Hot Water Faucets	Na	Na
Water flow rate through Faucets( in liter per hour)	50	*
Cooling capacity at comfort level (17 ± 1 degree celsius) (in liter per hour)	80	80
Installation Type	Floor Mounted	Floor Mounted
Power supply	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 %	*
Warranty in years including electronic ,electric parts, replacement of filters twice a year)	1	1
Warranty period without Filter , electronic and electrical parts	1	1
Warranty period without Filter & inclusive of electronic and electrical parts	1	1
Availability of type test Test REPORT for Filtering Size of Particles	Yes	Yes 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:	-	*
Availability of Test Report on Microbial Efficacy from Govt/NABL/ilac Lab	Yes	Yes Or higher
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
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\* 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	N Ganesa Pandian	768216,Office of the General Manager, Ib-Valley Area, MCL, Brajrajnagar, Dist: Jharsuguda, ODISHA-768216	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 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.

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

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