

Bid Document

Bid Details	
Bid End Date/Time	09-07-2020 19:00:00
Bid Opening Date/Time	2020-07-09 19:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Coal
Department Name	Materials Management
Organisation Name	Northern Coalfields Limited
Office Name	Singrauli
Total Quantity	1
Item Category	RO Water Plant for Hemodialysis
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Past Performance,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
Past Performance	80 %
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.

1. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three 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 year) to be submitted along with bid in support of quantity supplied in the relevant year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

RO Water Plant For Hemodialysis (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
GENERAL FEATURES	Clinical Purpose	RO water for hemodialysis to be applied in therapies such as HD, SLED, HDF, HF	*
	Product name	RO Water Plant for Hemodialysis	*
	Plant capacity (Ltrs/Hr)	500	500
	Plant type	Microprocessor/microcontroller controlled Single stage RO water system (Feed water TDS less than 500 PPM)	Microprocessor/microcontroller controlled Single stage RO water system (Feed water TDS less than 500 PPM)
	Various stages in RO water treatment process	Pre-filter or Sediment filter, Carbon filter, Water softner, Reverse Osmosis system, Distribution system, Storage Tank, Ultraviolet disinfection, Final filtration, Final alarms, System monitoring and disinfection	*
	System type	Online	Online
	System shall have microprocessor based control panel for ease of operation and inbuilt process logic	Yes	*
	System shall have auto start/stop based on	Yes	*

PRE-TREATMENT	water level in the supply tank		
	System shall be equipped with Electrical panel/MCB for plant protection	Yes	*
	Raw water mesh filtering size to prevent big dust/sand particles with back wash control	50 to 200 microns	*
	Vertical water tank with automatic water float	Yes	*
	Raw water pump with automatic pressure control and run dry protection	Yes	*
	Raw water feed pump type	Centrifugal	*
	Double raw water pump (one active and the other stand by)	Yes	Yes
	Raw water feed pump capacity (LPH)	1500	1500
	Sand/iron filter with 20micron filter and sample valve	Yes	*
	Softener for one in operation while the other in standby and vice-versa with sample valve with brain tank and automatic regeneration capacity	Yes	*
	Double activated Carbon filter to remove Chlorine and Chloramines with sample valve	Yes	*
	Micron particle filter after activated Carbon filter for removing suspended particles more than micron size	1	1
	All pretreatment module should be programmable back wash and regeneration facility	Yes	*

RO UNIT FOR MAIN TREATMENT	Online rotameter for measuring flow	Yes	*
	Pressure monitoring facility of all filtering stages with glycerin filled SS pressure gauge	Yes	*
	Sample valve facility for all filtering stages	Yes	*
	Distribution of RO plant water sufficient for number of dialysis machines	5-10	5-10
	Monitoring facility for input and output water conductivity, feed water pressure and injection flow rate	Yes	*
	Alarm against low feed water, high output conductivity and high temperature of pump motor	Yes	*
	Unused water feed back facility to RO unit for saving on water injection in online mode	Yes	*
	The unit should be programmable and automatic rinsing/flushing facility at regular intervals when system is not in use, to prevent drying of filter media	Yes	*
	Emergency mode operation to run permeate output in case of electronic failure	Yes	*
RO MEMBRANE	Efficiency of unit with maximum saving of water (%)	55 to 75	*
	Sample valve for permeate	Yes	*
POST TREATMENT	Material of Booster pump (offline)	Stainless Steel 316	Stainless Steel 316
	Vertical storage water tank with automatic float	Yes	Yes

	control for filling and dry run protection for off-line system		
	Direct and indirect feed for full close loop distribution piping system	Yes	*
	Chemical disinfection and decalcification	Semi-automatic	*
	Provision of volume controlled heat disinfection of permeate loop complied with ISO 15883	Yes	Yes
	The permeate should be supplied to distribution loop through 0 point 2 micron bacteria filter for offline system using pex piping and high grade SS316 push pull connectors	Yes	Yes
	The distribution loop should contain loop pressure regulator to maintain the desired loop back pressure	Yes	*
USER INTERFACE	Digital display of values of Conductivity/permeable flow/reject flow/temperature/pressure monitoring	Yes	*
	Touch screen/button type illuminated display for easy to finger operation of user	Yes	*
	Signal and control lights with possibility to connect external lights	Yes	*
	Software update via SD Card or Ethernet	Yes	Yes
	Memory storage device	Yes	Yes
STANDARD CONSUMABLES AND ACCESSORIES	All media and consumables (membrane, cartidge filter, filter media, chemicals, softner salt) for setting up and	Yes	*

	standardization should be provided		
	Seller should ensure the availability of all consumables required to run the RO plant during complete warranty period to be purchased by the buyer independently at actual cost	Yes	*
	UPS of Suitable Capacity to be provided	Yes	Yes
CERTIFICATIONS & REPORTS	Submission of Test Report for permeate water quality as per AAMI/ISO-13959/13500 from Central Govt/NABL/ILAC accredited Lab to prove the conformity to declared specification after installation	YES	*
	Product certification	-	*
	Certificate No	-	*
	Certificate Date	-	*
	Certificate issuing authority	-	*
	Four digit number of notified body If product is EU-CE certified	-	*
	Certification, performance and safety standards specific to the device	IS:13450(Part 1)	*
	Submission of all the certifications and test reports to the buyer along with supplies on demand	Yes	*
PRE-INSTALLATION REQUIREMENT FOR THE BUYER	All Pre-installation requirements along with site preparation should be provided by the seller to the buyer well in advance before the supply of equipment	Yes	*
	All Pre-installation requirements should be	Yes	*

	done by the buyer		
	Minimum room size required for the plant (H x W x L) m	-	*
	Feed water line till RO room	Yes	*
	Number of drain outlets required	-	*
	Overhead tank for storage depending on plant size	Yes	*
	Door width required for RO room (cm)	-	*
	Airconditioning as per requirements	Yes	*
	Power requirements	220-240 VAC, single phase	*
INSTALLATION & TRAINING	Supplier to perform installation, safety and operation checks before handover	Yes	*
	Training of users in operation and basic maintenance shall be provided	Yes	*
WARRANTY & MAINTENANCE	Onsite Warranty (Yrs) without membranes and consumables	5	*
	User technical and maintenance manual detailing complete maintaining schedule with routine maintenance should be provided	Yes	*
	Contact details of manufacturer, supplier and local service agent to be provided	Yes	*

* 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

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S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Sanjay Kumar Gupta	486890, NEHRU SATABDI CHIKITSHALYA, PO - JAYANT, DISTT - SINGRAULI M.P.	1	60

Bid Specific Additional Terms and Conditions

1. 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)

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

---Thank You---