

Name of work: OPERATION AND MAINTENANCE OF RO PLANTS (18 Nos.) INSTALLED AT VARIOUS BUILDINGS IN BHEL, TRICHY FOR 2017-18.

Ref No: WCF/90317 00011 dt 08.09.17

PART- II PRICE BID

BILL OF QUANTITIES- 2 items

SL No	Qty	Description	Unit	Percentage Allocation
1	15	<p>Operation & Maintenance of 18 Nos of RO Plants (11 Nos of 500 LPH Capacity & 7 Nos of 250 LPH Capacity) installed at Various Locations in BHEL Trichy Factory Complex.</p> <p>The scope of work includes the following:</p> <ol style="list-style-type: none">1.Operation of the RO plants by employing qualified operator on all days of the Year excluding National Holidays.2. Cleaning the unit of the plant regularly, backwashing and dosing of anti scalant chemical time to time (as per manufacturer's recommendations and instructions of Engineer in-charge).Periodical Cleaning of the Raw water tanks & Treated water collection Tanks . Supply of anti scalant chemical will be paid under separate item3. Regular maintenance of pumps such as oiling,greasing, motor shaft, pipes, minor rectification and replacement of minor parts such as nuts & bolts etc, minor parts of pumps,electrical wiring etc., Supply & Replacement of damaged UPVC pipes & specials interconnecting the plant units of small quantities including consumables such as solvent cement,teflon tape etc. The scope also includes breakdown maintenance whenever necessary4.Replacement of spares listed under items 2a to 2t if necessary.The replacement and refixing of defective spare parts is part of operation an maintenance contract and only the cost of spares will be paid under item 2a to 2t at actuals5.Maintaining daily log sheets for the opeartion of RO Plants all as per instructions of Engineer In-Charge <p>Note : National Holidays 1. Republic Day 2. Independence Day 3. May Day & 4. Gandhi Jayanthi</p>	Month	45.58%

CONTRACTOR SEAL & SIGNATURE

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2		Supply of required spares at site of work in BHEL Trichy. Rate quoted shall include loading, transportation, unloading at site of work, all taxes, duties and any other incidental charges etc., complete. The replacement and refixing is part of maintenance contract (item No.1) and no separate payment will be paid. Only cost of spare parts found defective and actually replaced will be paid.		
a	18	Multi Port Valve	EA	2.72%
b	252	Micron Filter	EA	2.54%
c	4	Filter Housing - 20 " long, 2.5" dia with 3/4 " dia inlet & outlet - PP Housing	EA	0.36%
d	26	Pressure Switch (Low Pressure / High Pressure)	EA	1.18%
e	5	Rotometer - 1/2 " inlet & outlet with 600-1200 LPH rating, Acrylic	EA	0.95%
f	15	2.5 " dia, Glycerin filled, Panel Mount fitting type, SS Pressure Gauge (0-25 Kg/SQCM)	EA	1.13%
g	2	Control Panel With Conductive Meter mountable on RO kit, powder coated	EA	0.71%
h	18	4" dia, 40" long spiral wound RO membrane - FRP	EA	8.16%
i	4	PP Membrane housing for 4" dia, 40" long membrane	EA	1.21%
j	10	Dosing Pump - Electronic Dosing Pump with 6 LPH capacity at 4 KG /SQCM operating Pressure	EA	4.28%
k	300	Anti Scalant Chemical	KG	2.72%
l	2	High Pressure Pump - 3 M3 / Hr capacity -Vertical Multistage Centrifugal Pump - Impeller, Casing- Stainless Steel SS 304	EA	7.86%
m	9	Raw Water Pump - Centrifugal Regenerating Pump - 1 M3 / Hr Capacity. Material of Construction - Pump casing, Shaft, Impeller - Stainless Steel Grade SS 304	EA	9.98%
n	720	Filtering Sand (8-16)	Kg	0.64%
o	720	Coarse Silex	Kg	0.64%
p	3	Pressure Vessel - 13 x 54 with top & bottom Strainer	Ea	1.44%
q	51	Pressure Gauge - 0-7 kg/sqcm, 50 mm dial, bottom mounted	Ea	0.99%
r	1440	Fine Silex	Kg	1.28%
s	720	Activated Carbon IV 900	Kg	4.18%
t	12	UV Lamp	Ea	1.45%

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GRAND TOTAL i.e Total cost for the work including all the taxes,for all the items in the Bill of quantities (except applicable GST.i.e GST should not be included in the total cost here)

Figures Rs. _____ in words

01. Amount should be quoted in both figures and words and are to be identical. If not, the prices in the words will be considered as final and the same shall be valid and binding on the contractor.
- (a) If there is such discrepancy in an offer, the same will be conveyed to the bidder with target date up-to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
02. The amount should be quoted inclusive of any taxes and duties levied or to be levied both by Central and State Government authorities from time to time, except GST. GST will be paid extra on production of documentary evidence.
03. Quotation should be valid for a period of four months from the date of Tender opening
04. If in case of Price bid opening, if there is a tie in quoted L1 amount, then ranking will be decided based on Lot system
05. Evaluation of the offer shall be done on "Net Cash outflow to BHEL after taking into account applicable Taxes and Duties".
06. The amount quoted shall remain firm and valid during the entire period of contract (including extended period if any) and no extra payment will be reimbursed to the contractor by BHEL. Any increase of DA/ wages to the contract labor shall be absorbed by the contractor themselves during the period of contract.
07. The signature at the bottom of the rate schedule confirms that the Tenderer had read and accepted all the Terms and conditions in Tender Schedule, also amount quoted with inclusive of any taxes and duties levied and excluding GST etc. has been considered by the tenderer for the total contract period (including extended period if any) while quoting the above rates.
08. No other pre conditions along with your offer will be entertained by BHEL
09. The contractor shall quote only the lowest possible total amount that can be offered for the intended quantity. Rate for individual items of BoQ will then be arrived by BHEL, as per annexure- III in Technical bid
10. The contractor while quoting shall take care of units specified against every item in bill of quantities.

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