

Running Contract Details	
Equipment Name	Deionized water plant
Running Contract Valid Till	18-01-2022
Tender Ref No	KMSCL/EP/T331/1464/2019
Tendered Quantity	15
Supplier Name	M/s Scientific Enterprises
GST No	32AAIFS7780D1Z4
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
PB No. 1951 Vytila Kochi â€“ 682019	Contact Person	Deepa
	Phone	
	Mobile No	9447717286
	Email	seqcochin@gmail.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	Deionized water plant <i>Model & Make : DIRECT-Q 3/ MERCK MILLIPORE</i>	385004.5 Incl.GST :18%	26950.32	411954.82
		385004.5	26950.32	411954.82

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
Deionized water plant							
Labour	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Comprehen sive	1,10,000.00	1,15,000.00	1,10,000.00	1,10,000.00	1,00,000.00	1,00,000.00	1,00,000.00

Other terms & conditions

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender

document).

2. The supplier shall submit performance security amounting to 5% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

Technical Specification

Equipment :Deionized water plant

1. Water purification system should be capable of producing 18.2 Mega ohm resistivity with pre- treatment cartridge, Reverse Osmosis and mixed bed ion exchange resins and activated carbon in a single pack, with feed water acceptance of up to 2000 micro Siemens conductivity.
2. Should have a fouling Index for SDI less than 10, and total Chlorine less than 0.5 ppm.
3. Unit should provide combination of technologies to produce ultrapure water from Tap water directly
4. The first stage of the process is RO pre filtration then RO Membrane then finally the DI cartridge filtration
5. The second stage should contain mixed bed ion exchange resin and organex for removal of organic contaminants.
6. Should have a flow rate of 3 Litre/h for Type 3 water
7. The Final stage should contain a 0.22 micron PES membrane filter or equivalent
8. Should be provided with storage tank of suitable capacity for storing the RO grade water and tap for dispensing RO water from the tank.
9. Should provide a pre-filter unit consisting of 5 micron filter, 1 micronfilter and activated carbon to remove the particulate matter from feed water.
10. Booster pump for maintaining the required feed pressure is essential .
11. Consumables, filters and cartridges required for the system should be provided free of cost during warranty and CAMC period.

I. Product water specifications

1. Should have a Resistivity of 18.2 Meg Ohm.cm (25 degree C) and conductivity less than 0.055 microS/cm
2. Should have a TOC less than 2 ppb
3. The Bacteria should be less than 0.1 cfu/mL
4. The Pyrogen content should be less than <0.001Eu/mL
5. The RNase should be less than 0.01ng/mL
6. The Flow Rate should be 0.5L/min
7. The Particulates (size greater than 0.22micron)
8. Should undertake calibration of the equipment as per the standards available.