



District Programme Manager
 National Health Mission(NHM),Painavu
 PO, Kuyilimala ,
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SHORT QUOTATION NOTICE

No. DPMSU-IDKI/111/JC(BME)/2021/DPMSU

Dated: 20.01.2021

E - TENDER NOTICE

Online Bids are Invited from reputed firms for the following items on behalf of District Health and Family Welfare Society- National Health Mission ,Idukki for the use of District Hospital Idukki .

Sn.	Name of Item	Quantity
1	PROCUREMENT SUPPLY AND INSTALLATION OF OXYGEN GENERATING SYSTEM (200 LPM - 41 Cylinders/day)	1

SN	Particulars	Date and Time
1	Earnest Money Deposit (EMD)	Rs.50,040/-
2	Tender Fees	Rs.8400/-
3	Bid submission starting date & time	18.01.2021 05:00 PM
4	Last date and time of on line submission of tender	26.01.2021 5.00 PM
5	Date, time and venue of opening of the Technical Bid	28.01.2021 11.00 am at NHM Office, Idukki
6	Date of opening of the price bid	To be informed to the bidders qualifying in the Technical Evaluation

Dr Sujith Sukumaran
District Program Manager

The document is digitally approved. Hence signature is not needed.

4. DETAILS OF ITEMS TENDERED

4.1 Item details

Item/Description	Quantity
PROCUREMENT SUPPLY AND INSTALLATION OF OXYGEN GENERATING SYSTEM (200LPM- 41 Cylinders/Day)	1 no

4.2 Technical Specification

Sl. No	Technical specifications	Confirm each specifications– Please Tick (✓) in appropriate columns given below		Remarks
		Yes	No	
1	Application: Healthcare			
2	Oxygen Generator/Concentrator should have the capacity of 200 litre per minute. Equivalent to 12 m3/hour			
3	Generator Discharge Pressure should be 20 to 100 psig			
4	Process should have Pressure / Vacuum Swing adsorption Technology.			
5	Oxygen Quality: The generated oxygen purity should be 93% ±3% as per the Oxygen 93 specifications listed in the Indian Pharmacopeia.			
6	Plant Quality: The plant / technology should be approved & certified by US-FDA & CE.			
7	Compression Capacity: Air compressor / Blower must be mandatorily OIL FREE and free Reversible Air Blower. Oxygen Scroll Compressor of approved make. Blower motor: approved make, clockwise and anticlockwise			
8	Radiator / Cooling Tower: Air Compressor/ Blower must be AirCooled.			

9	Molecular Sieve Adsorber: The adsorber vessel filled with Synthetic Zeolites along with accessories must be warranted for minimum 10 years.			
10	<p>Operator panel with LCD display:</p> <p>The Operating Panel shall have controlling facilities such as START, SHUT DOWN, and Discharge Pressure Change.</p> <p>The following variables should be able to be monitored:</p> <ul style="list-style-type: none"> a) O2 Purity b) Frequency (HZ) c) Electrical Enclosure Temperature d) Cycle Count e) Cycle Duration f) Unit Hours g) Flow Estimate h) Pressure at Discharge, various vessels. 			
11	<p>Instrumentation:</p> <p>Product purity analyzer with alarm pack.</p> <p>Oxygen percentage purity Zirconia analyzer (0-96% range, with monitor & touch screen external audio visual alarm for purity, low Pressure, Low pressure emergency stop.</p> <p>The system should be equipped to sense the oxygen purity generated continuously and drain the generated oxygen outside valid purity range.</p>			
12	<p>Turn Down Capacity:</p> <p>The plants should be equipped with Variable Frequency Drives (VFD) to vary the speed of the motor, based on demand, i.e. thus providing automatic turn down upto 20% of the Plant capacity. (Turn down operational 11 between 20 -100% plant capacity)</p> <p>The Oxygen generator should have a load following feature, such as Variable Speed Drive (VSD) to slow down the main motor during period of low Oxygen consumption.</p>			
13	Operating Power: 415 VAC, 3-Phase, 50 Hz.			
14	Power Consumption to produce 200 LPM Oxygen: The Oxygen generator must be power efficient and bidder must quote the guaranteed average power consumption in Kwh/hr separately.			

15	Oxygen Plant Footprint should be Less than 2.5 m x 2.0 m			
16	Remote Monitoring: The generator should have the capability for installing integrated remote monitoring modem based support system to monitor the system functionality. The client will provide the required internet connection.			
17	Weight of the Oxygen: Total weight of the Oxygen Concentrator with all associated equipment should be within 1500 Kg. The machine should be skid mounted type, easily deployable.			
18	CAMC rates for 7 years for the equipment after completion of 3 years warranty period should be quoted separately.			
19	TURNKEY			

4.3 Criteria for Tender Evaluation

The bidders shall indicate the power consumption per hour (KWH).

Hospital shall evaluate between the different bidders by adding the Capital price of the Oxygen plant along with the 5 yearly Power expenses. The 5 yearly power expenses shall be calculated as per the following manner:

SCHEDULE FOR 5 YEARLY POWER EXPENSE

Power price that shall be considered for tender evaluation is Rs. 8 per KWH ----- (1)

Bidder's indicated hourly power consumption = "A" KWH ----- (2)

Hence, 5 Year Power Expense = "A" x 24 hrs x 365 days x 5 years x Power rate (1)

EXAMPLE

Power price that shall be considered for tender evaluation is Rs. 8 per KWH

Assuming Bidder's power consumption = "A" KWH say, 9 KWH

Hence, 5 Year Power Expense = 9 KWH x 24 hrs x 365 days x 5 years x 8 Rs/KWH

= Rs. 31,53,600/-

5. SPECIFIC CONDITIONS OF CONTRACT

5.1. Time Limits prescribed

Sl. No	Activity	Time Limit	
1	LOI/Purchase order	The supplier shall submit agreement, copy of LOI duly signed and sealed on all pages in token acceptance, required security deposit and other documents specified in the tender document. The supplier should submit the items specified in the Purchase order with in 30 days of receipt of Purchase Order	
2	Release of EMD	1	Unsuccessful EMD submitted online will be discharged/ refunded automatically to the bidders account after finalizing the tender.
		2	Successful bidders EMD submitted online will be released on signing the contract after furnishing of required Security Deposit. EMD submitted online may also be adjusted towards Security Deposit on request of the bidder.
	Release of security deposit /performance security	Three years from the date of execution of agreement	

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