

29-03-2019

### **Amendment No. 3**

**Sub: Amendment to the referred tender enquiry**

**Ref.: Tender Enquiry.: HITES/PCD/AIIMS-IV/14/MGPS/18-19 dated 14-02-2019 read with Amendment No. 01 dated 19-03-2019**

The following changes are being incorporated in the above referred Tender Enquiry Document

### **Section – VII** **Technical Specification**

#### **Added para under Technical Specification**

#### **RUNNING, OPERATION AND MAINTENANCE FOR INITIAL FIVE YEARS**

### **Operation and Maintenance of Medical Gas system at AIIMS**

#### **Scope of the work**

The primary objective of the bidder is to ensure safe and reliable MGPSs and their efficient Operation and use as per standards. Bidder will be responsible for operational management and maintenance of

- Medical oxygen System -Liquid oxygen system , Manifold and Control panels
- Nitrous oxide System-Manifold and Control Panel
- Medical and Surgical Air System-Compressor systems , Control panel,Dryers,Reservior ,Filters etc
- Medical vacuum System- Vacuum pumps, Control panel, Reservoir, Filters etc.
- Waste anesthetic gas scavenging systems (AGSS)
- Carbon dioxide manifold system
- Nitrogen manifold system
- Copper pipelines
- Area Valve Service Units
- Isolation Valves
- Area Alarm panels and Master alarm panels
- Gas Outlets
- Bed Head Panels
- Pendants

Staff responsible for plant operation should be aware of the activities necessary to ensure the continued safe operation of the system and what action should be taken in an emergency. The authorised person (MGPS) in particular should take a lead in explaining to users the function of the system and will have to be adequately trained and informed about the system. Operator will be responsible for safe cylinder handling, storage and

transportation. Any work involving alterations, extensions or maintenance work on the system should be subject to the permit-to-work procedure as per standards.

### **Operation of Medical Gas**

The contractor should provide manpower to operate the plant throughout the day, 365 days in an year. The duty of the worker should be limited to 8 hours per day.

Sl. No.	Designation	Shift-1 6AM-2 PM	Shift-2 2-10 PM	Shift-3 10PM- 6AM	General Shift 8-4 PM	Leave Substitut es	Total
1.	Supervisor (Diploma in Mechanical/Electrical) With 5 years Experience in installation maintenance & operation of MGPS				1		1
2.	Medical Gas Technicians (ITI) With 2 year Experience in installation maintenance & operation of MGPS	1	1	1		1	3
4	Helpers (8 <sup>th</sup> Standard or more with minimum 6 years experience in installation, maintenance & operation of MGPS	2	2	2			6
	<b>Minimum wages of manpower will be as per Government Rules.</b>						

The operators should ensure a trouble free supply at the outlets at the required pressure. They should Monitor the consumption of O<sub>2</sub> & N<sub>2</sub>O on hourly basis and submit a consolidated report weekly,. Timely intimation of cylinders refill due date, Timely intimation of oxygen plant refill due date based on consumption, and other service maintenance has to be done by the operator.

The contractors and operator should be fully aware of the safety regulation applied to Medical gas System. It is the mandatory responsibility of the contractor to conduct training sessions of adequate level to the workforce to keep them fit for handling the plants and associated systems. All tests to be conducted by authorized persons, competent persons, quality controller etc have to be arranged by the contractor additionally as required. The contractor may refer to relevant part of standers for details like responsibilities.

### **Routine Activity**

#### **1) Oxygen plant**

- Checking oxygen pressure and liquid level
- Ening details in the log
- Checking for leaks
- Checking the change over
- Intimating the preventive Maintenance one week ahead of the schedule
- Supervising Maintenance jobs and checking reports

#### **2) Manifold ( Oxygen and Nitrous oxide)**

- Inspection of working
- Checking for leakage
- Checking inlet and outlet pressure
- Checking the change over
- Loading the cylinder as required
- Replacement of defective parts
- Notifying breakdown
- Logging details

#### **3) Compressed Air**

- Checking change over
- Checking pressure
- Checking the dryer and change over
- Checking the receiver
- Checking the filter

**4) Medical Vacuum system**

- Checking vacuum pump
- Checking vacuum level
- Checking controls
- Checking change over
- Checking for drop in Vacuum level
- Checking the filters

**5) Medical Gas Lines**

- Checking for leakage
- Checking the isolation valves
- Checking the vacuum lines for block
- Checking alarms
- Replacing leaking lines

**6) Bed head Panels, Gas outlets, Pendants**

- Checking for leakage
- Checking for defective valves
- Replacement of defective parts

**All other contents of the tender enquiry including terms & conditions remain unaltered.**

**Note:**

- i. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**