

JAI PRAKASH NARAIN APEX TRAUMA CENTER
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
RAJ NAGAR, NEW DELHI : 110 029

Dt. 05.03.2011

CORRIGENDUM

Please refer to our GLOBAL TENDER NOTICE published on 9th & 11th January 2011 vide **Tender No. TC-667/GT/Surg/10-11/FSC** inviting tenders for “**MONOPLACE HYPERBARIC CHAMBER**” and the undersigned is directed to notify to all concerned that as per suggestions of various bidders and decision taken in the pre-bid conference held on 07.2.2011 the specification of the above equipment and its Turnkey project has been revised and published through our website at www.AIIMS.edu and www.tender.gov.in. The revised specification can be uploaded from the above website or can collect from the Stores Section (Basement), JPNA Trauma Centre, A.I.I.M.S., Raj Nagar, New Delhi-110029 **on or before 16.03.2011**.

The Last date of submission of Tender documents is also extended **upto 18.03.2011 at 4.00 P.M.** The technical bids will be opened **on 19.03.2011 at 10.30 A.M.**

The above corrigendum is issued without prejudice to other terms & conditions.

(STORES OFFICER)

JAI PRAKASH NARAIN APEX TRAUMA CENTER

RAJ NAGAR : NEW DELHI : 110 029
STORES SECTION

Amended specifications after Pre- Bid Meeting was held on dated the: 7th Feb. 2011

No.TC-667-GT/Surg./10-11/FSC

NAME OF THE ITEM:- Monoplace Hyperbaric Chamber

SPECIFICATIONS FOR INSTALLATION OF ONE MONOPLACE HYPERBARIC CHAMBER ON A TURNKEY BASIS

I. Specifications for construction of the site/ room for installation of Hyperbaric Chamber

1. Clearances and permissions: All clearances and permissions regarding the construction of the site from the requisite civic bodies (NDMC)/ Delhi Fire Service etc. will have to be taken by the bidder. The documents which will be required from the side of the Center will be provided.
2. Site preparation for the installation of HBC like :planning, scope of work and drawing is enclosed with amended specifications.

II. The Monoplace Hyperbaric Chamber should have following specifications:

1. The system should meet the integrative requirements of the National Fire Protection Association (NFPA) for hyperbaric and healthcare facilities.
2. The system should have a single compartment chamber having a clear, seamless, transparent cast acrylic structure and should provide excellent observation of the patient.
3. The chamber should have a minimum internal diameter of **33 inches** for placing the patient comfortably in supine position and propping up.
4. The Monoplace Hyperbaric Chamber System should have inbuilt 2 independent, fully redundant chamber control systems consisting of
 - Computer-Based electronic control for the primary automatic operation of the chamber, AND
 - Manual pneumatic system serving as backup with equal performances and control.
5. The control system should have the facility to select compression & decompression settings which are adjustable to patient comfort and tolerance, having both linear and non-linear curve settings
6. Gas-flow related operating parameters should be Pressurization Rate-Adjustable

Depressurization Rate-Adjustable

In case of Emergencies - Emergency Depressurization to ambient should be possible

Design working temperature is required to be upto 100⁰ F.

The Chamber should have safety interlock to prevent accidental door opening while chamber is under pressure.

7. Should have adjustable ventilation rate for the optimum use of oxygen.
8. Should be equipped with gas supply panel to select 100% oxygen or compressed air (mixed air/oxygen) as the gas supplied to the chamber.
9. The system should provide reproducible treatment protocols, should also store treatment records for review & analysis.
10. Should have facility to programme at least 10 Multiple or more treatment profiles
11. Should have inbuilt colour LCD touch screen for parameters setting and constant display of actual & planned treatment profile.
12. Should have a two-way voice communication and entertainment system ensuring that power levels in the chamber are safe for pure oxygen environment in accordance with international standards.
13. The chamber should have integrated facility for connectors and attachments for, and supplied with (price to be quoted separately. Price of 100 TCOM disposables to be used for comparison)
 - Monitors (ECG, RR)
 - Compatible Ventilator
 - TCOM – 2 modules with disposables
14. Should have monitor/ indicator, indicating that the patient is grounded to the chamber properly.
15. The system must be provided with adjustable-height trolley with litter complete with mattress and pillow made of the fire-resistant and anti-static material which is pressure reducing. Patient trolley should be equipped with castors with brakes.
16. Trolley should be equipped with side rails & IV Rod.
17. System should be supplied with a facility for raising patient's torso & head from horizontal.
18. The supplier should take responsibility
 - To install and start-up the system, and
 - To perform operational training that includes standard and contingency operation, as well as basic care of the system
19. Whole installation including manifold to be done on turnkey basis.
20. The tender is to be floated as a (Three part) tendering process including a pre-bid meeting.
21. The system should be designed, constructed and tested in accordance with the requirements of ASME PVHO-1, the safety standards for Pressure Vessels for Human Occupancy of the American Society of Mechanical Engineers and should meet the requirements of the National Fire Protection Association(NFPA) for Hyperbaric and healthcare facilities. The system should be CE/FDA approved. The system must be latest model.

**SITE PREPARATION FOR INSTALLATION OF
HYPERBARIC CHAMBER AT JAI PRAKASH NARAIN
APEX TRAUMA CENTRE,
ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI**

1.0 INTRODUCTION

This offer is for Turn-key site preparation for installation of Monoplace Hyperbaric Chamber unit and ancillary accommodation including planning, interior decoration and modification to the existing spaces complete with supply, installation and commissioning of support services.

The site earmarked for the installation is an open terrace on the Second floor of the Trauma Centre near Lab. Medicine.

2.0 PLANNING CONCEPT

The layout plan enclosed with this order shows the positioning of the equipment and the area required for proper installation of the equipment and services as well as the control room and other areas. The interior of the area will be aesthetically planned with appropriate lighting and functional furniture.

Vendor has to provide detailed plan with sectional details & safe design.

3.0 CONSTRUCTION

The open space should be covered using MS girders as beams and roofing the space with red sand stone slabs and concrete topping of the roof area. The internal spaces will be created by constructing brick walls as per the requirements. It should be completed water proof. Exterior should be match with the existing exterior finished of Trauma Centre.

3.1 INTERNAL FINISHES

Flooring in all the areas under scope of work will be with vitrified ceramic tiles. The entire area will have ceramic tiles dado upto 4" high and above the dado walls will be cement plastered and painted with plastic emulsion paint. For walls in other areas these will be cement plastered and painted with plastic emulsion paint. The false ceiling will be done with exposed metal grid with Armstrong acoustic mineral fibre tiles.

3.2 DOORS

The doors leading to the chamber will be laminate solid cored flush doors. Other doors will be aluminum partly glazed doors.

3.3 ELECTRICAL WORKS

The required electrical fittings and wiring including switch board and switches with power sockets for proper functioning of area have to be provided by vendor.

All general lighting will be with concealed fluorescent lights. The copper wiring in MS conduits will be done for general lighting and power. The switches will be ISI Marked branded make.

3.4 AIR CONDITIONING

Entire area should be maintained between 15-25degree C help of split Air conditions (AHU & Air Conditions will not be provided by Centre).

3.5 FIRE DETECTION AND FIGHTING

The fire detection system using smoke and heat detectors will be installed in the area. The connection of the fire fighting system will be done to the central fire panel at the nearest location.

To combat the accidental fire, four fire extinguishers will be provided.

3.6 FURNITURE

Following furniture will be provided :

- | | | | |
|----|----------------------------------------------------------------------|--------|-------|
| 1. | Patient waiting chairs (perforated steel 3 in one) with common stand | 3 Nos. | |
| 2. | Cupboards for storage | | 3 |
| | Nos. | | |
| 3. | Instrument (medicine) trolley | | 2 |
| | Nos. | | |
| 4. | Swivel chairs with armrests | 12Nos. | |
| | High Chairs at reception counter | 2 Nos. | |
| 5. | Computer tables | | 5 |
| | Nos. | | |
| 6. | Patient preparation table with storage space | 1 No. | |
| | | | |
| 7. | Examination stool | | 1 No. |

8. Collapsible wheel chair with rubberised swivel wheels
2 Nos.
9. Patient trolley
2 Nos.
10. Footsteps for patient
2 Nos.

4.0 TERMS AND CODITIONS FOR SITE PREPARATION TURN-KEY

4.01 SCOPE

The scope of work shall be confined to this offer.

If during course of execution of the above works any additions and/or alterations are required to be carried by vendor himself, such additions/alterations shall be executed at mutually agreed Terms & conditions. In such events the completion period shall also be suitably modified.

If during course of executing of the above works any pipes or any other kind of services are encountered, the cooperation for same would be provided by the Hospital Authorities.

4.2 COMMENCEMENT OF WORK

The work at site shall commence with the fulfillment of the following Placement of firm order,

- Approval of preliminary design,
- Approval/sanction/permission from local authorities/regulating bodies, if required, (to be arranged by the vendor himself)

4.3 COMPLETION PERIOD

Completion period required for planning, designing and required modifications shall be 6 months.

