

**U.T. Administration of Daman and Diu,  
O/O Medical Superintendent,  
Government Hospital, Daman**

**Tender Notice No. GHD/DMN/E TENDER/MOT/2013-2014/4270**

**Date: 11.02.2014**

**RE-INVITE E-TENDER (ON LINE) NOTICE**

The Medical Superintendent, Government Hospital, Daman on behalf of president of India, invites tenders for following items through on –line on [http: Daman.nprocure.com](http://Daman.nprocure.com) from the manufacturer/Authorized Dealers/suppliers having valid License. The tender notice also available on [www.nic.daman.in](http://www.nic.daman.in)

| Sr. No. | Description Items   | Estimated cost    | EMD (in the form of FDR | Tender fees (Non Refundable)        |
|---------|---|-------------------|-------------------------|-------------------------------------|
| 1       | SUPPLY/ INSTALLATION/ FIXING/ COMMISIONING 4 NO.OF MODULAR OPERATION THEATRES | Rs. 3,30,00,000/- | Rs.9,90,000/-           | Rs. 5000/- (Rs. Five Thousand only) |

**Interested bidders should visit to see the project site & works to project site within any working day & hours.**

**Bid document downloading Start Date : 12.02.2014**

**Pre-Bid meeting**

**a. Date & Time : 20.02.2014, 10.00 am**  
**b. Venue : Conference Hall**  
**Director Medical & Health Services, PHC, Moti Daman**

**Presentation : 20.02.2014 15.00 hrs**

**Bid document downloading End Date : 04.03.2014,12.00 Hrs.**

**Last Date & Time for Physical Tender Documents Submission : 04.03.2014, 14.00 Hrs**

**Last Date of submission of Online Rates : 04.03.2014, 15.30 Hrs.**

**Preliminary Stage Bid Opening Date(if possible) : 04.03.2014,16.30 Hrs.**

**Technical Stage Bid Opening Date (if possible) : 04.03.2014,17.00 Hrs.**

**Commercial/Financial Stage Bid Opening Date(if possible) :05.03.2014 16.00 Hrs**

**Validity of Tender till : 31.12.2014**

**The bidder may download the tender online form, But the same properly filled Tender Form should be submitted after paying INR 5000/- only by D.D. to department at the time of site inspection and filling information's of Tender Bibber Information Form.**

**The company representative should come along with carrying their valid authority letters for submission of the same at site, duly authorized by their respective company managements, and should notify the department by signing on Tender Bidder Form duly available thereof, Without signing on Tender Bidder Information Form or submitting their respective company authorization letter their bid will not be consider.**

|  |
|--|
| <b>On line opening of price Bid: on 05.03.2014 by 16.00 hours (If possible)</b>  |
| <b>Bidders have to submit price bid in Electronic format only on <a href="http://www.nprocure.com">www.nprocure.com</a> till the last date and time for submission. Price bid in physical format shall not be accepted in any case.</b>  |
| <b>Submission of tender fees in the form of DD, EMD in the form of FDR and other supporting documents i.e. copy of valid license from competent authority, copy of VAT/ST Registration and copy of PAN/TAN of income Tax etc, and terms and condition duly signed in hard copy to the undersigned by RPAD/Speed post/by hand on or before 04.03.2014 up to 14.00 pm hours, however, Tender Inviting authority shall not be responsible for any postal delay.</b> |
| <b>The tender inviting authority reserves the right to accept or reject any or all the tenders without assigning any reasons thereof.</b>  |
| <b>Bidder shall have to post their queries on E-mail address: <a href="mailto:tushar.dcpa@gmail.com">tushar.dcpa@gmail.com</a> on or before dated 19.02.2014 upto 12.00hours.</b>  |
| <b>In case bidder needs any clarification or if training required for participating in online tender, they can contact the following office.<br/>(n) Code Solution-A Division, GNFC Ltd”<br/>403,GNFC Info Tower, Bodakdev,<br/>Ahmedabad- 380054, Gujarat (India)<br/>E-Mail ID : <a href="mailto:nprocure@ncode.in">nprocure@ncode.in</a> Fax +917926857321</b>  |
| <b>Website:www.nprocure.com</b>  |

**(Dr.B.R.Chand)**  
**Medical Superintendent**  
**Govt. Hospital, Daman**

**U.T. ADMINISTRATION OF DAMAN & DIU  
O/O THE MEDICAL SUPERINDENDENT,  
GOVERNMENT HOSPITAL, DEVKA BEACH ROAD, NANI DAMAN  
DAMAN(UT), INDIA**

**TENDER FOR SUPPLY/ INSTALLATION/  
FIXING/ COMMISSIONING OF 4 NO.OF  
MODULAR OPERATION THEATRES**

**IN GOVERNMENT HOSPITAL,DEVKA BEACH ROAD, NANI  
DAMAN  
DAMAN(UT), INDIA**

LAST DATE OF SALE OF TENDER DOCUMENTS: 04.03.2014 by 12.00 hours

LAST DATE OF ONLINE UPLOADING OF TENDER : 04.03.2014 by 12.00 hours

PHYSICAL SUBMISSION DATE OF TENDER DOCUMENTS: 04.03.2014 by 14.00 hours

DATE OF TECHNICAL BID DOCUMENTS OPENING: (If Possible): 04.03.2014 by 17.00 hours

DATE OF PRICE BID OPENING: : (If Possible) 05.03.2014 by 16.00 hours

**Brief Details about project of Design, Fixing & installation, Commissioning and maintenance of 4(Four) nos. of Modular Operation Theatres in Government Hospital, Devka Beach Road, Nani Daman, India,**

Government Hospital at Nani Daman, was started in the year pre-liberation time (before 1962) with a minimum OPD services and Indoor facility. This hospital later on equipped with enhanced OPD & Indoor Patient facilities, whereas most of the departments are equipped with modern technology & equipments. The hospital has a group of dedicated doctors, medical and paramedical staff. The Hospital consists of following facilities.

- The Hospital is having 135 bed IPD facility.
- The Hospital is having 12 bed facilities in ICU, The ICU is equipped with ventilators, Defibrillator and Multipara Monitor etc.
- Patients of CVA, AGE, IHD, RHD, Diabetic, Fever, Poisoning, Snakebite, TB, Tetanus, Rabies, Meningitis and any other epidemic or communicable diseases are treated. The IPD of hospital is having below described departments to take care of different diseases.

|                         |               |               |                   |
|-------------------------|---------------|---------------|-------------------|
| Medicine                | Pediatric     | Dental        | Public Health     |
| Surgical                | Radiology     | Physiotherapy | Dietetic          |
| Orthopedic              | Neonatology   | Dermatology   | STD & ICTC Clinic |
| Obstetrics & Gynecology | Ophthalmology | Psychiatry    |                   |

As ideally required, the Hospital is having a dedicated Male Surgical & Female Surgical ward just opposite to the Operation Complex, Around approximately 100 Surgeries are carried out in a month. The Hospital is having 6 Bedded Recovery Room with centralized Medical Gas Pipeline system.

**Description of available Facilities**

|  |                       |
|--|-----------------------|
| Year of Establishment                                  | : pre-liberation time |
| Number of Departments                                  | : 15                  |
| Number of ICU or equal department                      | : 12                  |
| Number of Operation Theatres                           | : 04                  |
| Operation Theatres available for surgeries (Yes / No.) | : Yes                 |
| Number of Administration Staff                         | : 06                  |
| Number of Nursing/Clinical Staff                       | : 40                  |
| Number of Doctors                                      | : 15                  |
| Number of Surgeon Available                            | : 10                  |

|   |       |
|---|-------|
| Number of Anesthetists Available                              | : 03  |
| Number of OT Staff/Technicians Available                      | : 20  |
| Total Numbers of beds available in IPD                        | : 135 |
| OPD Facility present (Yes / No)                               | : Yes |
| Major Equipments at Emergency Services are available (Yes/No) | : Yes |

### **Reason of renovation of existing Operation Theatres**

Presently the existing OTs are based on conventional technology & standards prior used in Hospitals, hence need to be equipped with modern technologies which are currently imbibe by modern super specialty hospitals all over the world in current era. The conventional structure can't deliver the expected positive results since the latest equipments need to be incorporated in the same. The Government of India itself constitutes a regulatory body with the name of National Accreditation Board for Hospitals & Healthcare Providers- "NABH", "NABH" itself recommends to implement modern technology operation theatres equipped with Laminar Air Flow system with other component & equipments and the same imposed statutory need of minimal health hazards of SSI(Surgical site Infections). The Modern Technology benefits all stake holders. Patients are the biggest beneficiary. The Modular OT system results in high quality of care and patient safety. The patients get services by credential medical facilities available for treatments. Patient safety & satisfaction is regularly evaluated.

Implementation of modern state of art Modular Operation Theatre stimulates continuous improvement. It enables the hospital in demonstrating commitment to quality patient care. It raises community confidence in the health services provided by the health care organization. It also provides opportunity to healthcare unit to benchmark with the best. Finally, Operation Theatre equipped with modern technology provides an objective system of empanelment by insurance and other third parties.

### **Scope of Work**

Medical Superintendent, Government Hospital, Nani Daman, India, has invited this Tender for the Design, Fixing & installation, Commissioning and maintenance of 4(Four) nos. of Modular Operation Theatres in Government Hospital, Devka Beach Road, Nani Daman, India, The four nos. of OTs and the VIP Room, Recovery room in the OT Block established on the ground floor of the above mentioned hospital building.

**Interested Vendors are mandatorily required to submit all the required documents(except Financial/Price Bid & AMC/CMC Price, as both of these should be submit online only) complete in all respects with one original, one authenticated copies along with one soft copy in MS Word/MS Excel on a CD duly attached with tender document.**

**(A) 1.0 Project Name:** Installation / Fixing / Commissioning of 4 nos. of Modular Operation Theatres at Government Hospital, Nani Daman, Daman(UT), INDIA

1.1 ESTIMATED COST : Rs 3,30,00,000/- only

1.2 EMD/SECURITY DEPOSIT MONEY(FDR/Demand Draft) from any of the Commercial Banks in an acceptable form payable at DAMAN) for the period of One years from the date of installation: Rs.9,90,000/- only in favour of "Medical Superintendent Government Hospital"

1.3 TENDER FEE : Tender Fee (Demand Draft) from any of the Commercial Banks in an acceptable form payable at DAMAN) : Rs.5000/- only "Medical Superintendent Government Hospital"

1.4 COMPLETION PERIOD : total 3 months(90 days) from the date of Placement of order.

**2.0 PREREQUISITE STATUS FOR APPLICANTS:**

2.1 Pre-Qualification will be based on meeting all the minimum criteria for pre qualification, Documents furnished & submitted by respective company/ firm, and other qualification criteria regarding the Applicant's work experience, personnel & equipment capabilities and financial position as demonstrated by the Applicant's responses in the forms attached to the Letter of Application.

2.2 Tendering is open to all the eligible agencies / firms having sound background and their own respective specialization in carrying out similar works of fixing, installation, manufacturing of Modular Operation Theatre with carrying status of being not blacklisted, non indicted with having no involvement found in fraudulent practices or illegal activities in any of the \State Government/Central Government/ Government of any Union Territory/PSU(Public Sector Undertaking) or Government Department/Ministry or any hospital/organization of repute.

2.3 Annual financial turnover during the last Five consecutive financial years should be at least Rs.4 Crore(Rs.Four Crore only) only or average of Five consecutive financial years turnover will be Rs. 4 crore(Rs.Four Crore) only.

**S.No.      Year**

1. 2008-2009
2. 2009-2010
3. 2010-2011
4. 2011-2012
5. 2012-2013

**(B) Instructions to Bidders :**

- 1) The Bidder Company should be a company registered in India as a Private Ltd or Limited company under the Indian Companies Act 1956 a copy to be attached.
- 2) The Company should have positive Net Worth and should not have incurred loss in any consecutive year in last Five years ending 31st March 2013, The balance sheets of all five consecutive years should be true notarized copy. Please note that the balance sheets should not carry a average financial turnover not less than Rs. 4 crore in five consecutive years and should not carry any financial losses,

Copy of Certified Balance sheets of all five consecutive years ending upto 31<sup>st</sup> march 2013 by chartered accountant should also be notarized by Notary, without the same, Bid will be summarily treated for disqualification.

**S.No.      Year**

1. 2008-2009
  2. 2009-2010
  3. 2010-2011
  4. 2011-2012
  5. 2012-2013
3. Before submitting a tender, It is applied on the bidder that they will be deemed to have satisfied himself by actual physical inspection of the site and Locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates enters in the tender are adequate and all inclusive to accord with the provisions of contract for the completion of works to the entire satisfaction of the respective authorized committee.
  4. All the Applicant/Bidders are instructed to submit Technical Bid Documents along with required documents/details & Financial Bid online, whereas the physical submission needs all technical bid documents along with all required details in two sets one as "Original", second as "COPY". All the Tenderer/Bidders are instructed to attend Technical Presentation on Dt.21.02.2014 by 15.00 hrs mandatorily. All the Tenderer/Bidders who successfully clear in evolution of both Technical Presentation & Tender Documents/Details duly submitted/furnished by them will only be considered as eligible to step ahead to enter in Financial/Price Bid in tendering process, only successful applicant/bidders can compete with tendering process, the complete tender documents can be downloaded from our mentioned website <http://www.nprocure.com>.. Any complaint/objection raised from ineligible/unsuccessful applicants/bidders will summarily be rejected and treated nullified.

## 5. **Sealing, Marking & Submission of Tender Bid**

The Tender Bid shall be submitted in accordance with the procedure detailed herein. Specified documents shall be enclosed in envelope of appropriate size each of which shall be sealed.

5.1 Envelope No. 1 : Shall contain the Bid Securities(EMD) + Tender Fee as indicated in tender documents.

5.2 Envelope No. 2 : Shall contain covering letter and the other Bid documents duly signed and notarized by notary public/gazetted officer, including the following :

5.2(a) Power of attorney of person authorized to sign the Bid duly signed and notarized by notary public/gazetted officer. In case the Bid is submitted by a joint venture, each of the partners of the joint venture to sign the Bid on their behalf and the Bid of the joint venture shall authorize the person signing the Bid to do so on their behalf.

5.2 (b) Original Bid documents (all pages) duly signed and stamped & notarized by notary public/gazetted officer.

5.2 (c) Documents regarding constitution of Bidder as indicated in tender documents duly signed and notarized by notary public/gazetted officer.

5.2 (d) Certificate of Company Registration/Incorporation duly signed and notarized by notary public/gazetted officer.

5.2 (e) Authorization Letters from Principle Company / Authorized Agency/Dealer duly signed and notarized by notary public/gazetted officer.

5.2 (f) Project Completion Certificates with Work Orders duly signed and notarized by notary public/gazetted officer

5.2(g) Project List carrying list of at least 100 projects completed duly signed and notarized by notary public/gazetted officer

5.2(h) Safety, Health & Environmental Policy(SHE Policy) duly signed and notarized by notary public/gazetted officer

5.2(i) All Annexure & Application Forms as mentioned/required in Tender duly signed and notarized by notary public/gazetted officer

5.2(j) Copy of Balance Sheets of all five consecutive years along with average financial turnover certificate of five consecutive years duly certified by Chartered accountant & duly signed and notarized by notary public/gazetted officer



- 5.2 (k) VAT/Work contract Tax Registration Certificate duly signed and notarized by notary public/gazetted officer
- 5.2(l) Notarized Affidavit for Not Blacklisted/work rescind/indicted & not found involvement in any of fraudulent practices duly signed and notarized by notary public/gazetted officer
- 5.2(m) Details of Litigation History with evidentiary proofs duly signed and notarized by notary public/gazetted officer
- 5.2(n) Details of Company Capabilities & Machinery duly signed and notarized by notary public/gazetted officer
- 5.2(o) Copy of Bank Solvency certificate of Rs.75 Lakhs only duly signed and notarized by notary public/gazetted officer
- 5.2(p)Product/Item wise Technical Specification Compliance Sheet etc. duly signed and notarized by notary public/gazetted officer
- 5.3 Envelope No. 3 : Shall contain only both the other envelopes i.e Envelop 1(Security Money/Tender Fee) & Envelop 2.Technical Bid). The Bill of Quantities and Rates/Prices/AMC/CMC Prices duly filled in anywhere in documents submitted physical in any conditions whatsoever are liable to be summarily rejected. Please note that the price should not be indicated in any of the documents enclosed in Envelope no. 1&2. Non-compliance shall entail rejection of the Bid.
6. At least 100 projects(including Government Projects + Non Government(Private Projects)) + PSU(Public Sector Undertaking Projects) of Supply/Installation/Fixing/Commissioning of Modular Operation Theatres should be completed by the applicant company over the past 5 years with no complaints/indict/objections from client/purchaser side.
7. The applicant should have sound technical capacities to undertake the assignment and it would be preferable if the senior officials possess the relevant experience and exposure to execute works. Outsourcing of technical capability shall be deemed cancellation of the bid.
8. Process to be Confidential : After the public opening of Bids, information relating to the examination, clarification, evaluation and comparisons of Bids and recommendations concerning the Award of Contract shall not be disclosed to Bidders or other persons not officially concerned with such process.

Any effort by any of the Bidder to influence the Tender Inviting Authority/Department/ or any concerned executive involved in the process of examination, clarification, evaluation and comparison of Bids and decision concerning Award of Contract will result the rejection of the Bidder's Bid.

9. The company should be engaged in both the fields i.e 1) Modular Operation Theatres & 2) Medical Gas Pipeline System since last five years from till date the relevant evidentiary documents should be submitted; the establishment tenure of company should at least be more than 5 years.
10. The applicant company should have ISO & CE certification and having relevant experience of relevant product is eligible.
11. At least 2 projects (Two Projects) worth of Rs. 1.5 crores either of supply, installation, fixing, commissioning of MGPS (Medical Gas Pipeline System) / Modular OT, should be completed by the applicant company.
12. Any joint Venture/Consortium/Foreign Joint Venture or Consortium/Foreign Investment is not allowed, if found, will disqualify for tender process without any prior notice.
13. The applicant/bidder company should complete/done any relevant government project with similar capacity job profile without any complaint/indicted or legal case from any Government or Non government Hospital/Organization/NGO.
14. The company /organization should work or working with other state/UT governments, if YES, adequate evidentiary documents should be attached.
15. The applicant company should not impose to pay any penalty/fine in any of the known form whether monetary level or any other type.
16. The applicant company should neither under any inquiry from vigilance nor their work should found indicted/rescind, The bidder/tenderer should not found guilty with any legal case or vigilance inquiry against them, No penalty/fine in any known form i.e. financial etc., will be imposed/levied on the applicant/bidder, it is also very clear that such bidder/applicant will be treated as ineligible and bid will be summarily rejected without any prejudice.
17. The applicant company should have exposure towards work execution of turnkey project having HVAC system with having HVAC workforce/consultant.
18. An incomplete and/or ambiguous and/or conditional and/or late response is liable to be ignored/ summarily rejected.

19. The Bidder should have an experience for similar nature work for a period of 5 years and shall submit documentary evidence of satisfactory performance of the Modular OTs & MGPS installed/manufactured/fixed by own only.
20. While submitting the sections duly filled in applicant shall enclose latest copies of brochures and technical documentation giving additional information about the applicant. The language for submission of application shall be English only.
21. Financial data, project costs, value of works, etc. should be given in Indian Rupees only.
22. Incomplete & inappropriately filled in application are liable to be rejected
23. Costs incurred by applicant(s)/bidder in preparation and submission of information/ documents in providing clarifications or attending discussions/meetings, on site visits or due to any other reasons will not be reimbursed by Government/UT Government/Department.
24. Firm will be short-listed based on technical presentation & documents furnished for proposed services. The short listed/successful firm will be required to participate in the e-tender floated by the department. Any objection for selection process will be summarily rejected
25. The UT Administration, reserves all rights to reject any or all the Tender without assigning any reason.
26. Each page of tender documentation shall be duly signed by the applicant or their own respective authorized representative.
27. The following documents also must be submitted along with the Tender Documentation should be notarised:
  - a. List of organization available on hand (own) and proposed to be engaged for the work.
  - b. List of plant and machinery available on hand (own) and proposed to be inducted (Own and hired to be given separately) for the work.
  - c. List of similar nature of works completed in the last 5(five) financial years giving description of work, organization for whom executed, date of award and date actual start, completion date of contract should also be given.
  - d. List of works on hand indicating description of work of balance work yet to be done and date of award.

## **( C ) Special Terms & Conditions/Information to Bidder/Tenderer**

1. **DELIVERY & INSTLLATION:** The ordered items shall be delivered & installed and commissioning within Three Months (90 days) from the date issue of supply order.
2. **PAYMENT TERMS & SECURITY DEPOSIT:** 100% payment shall be made After successful commissioning and taking over by the consignee and after submission of following article/clause:
  - a. **Certification of acceptance :** The Tender/Bidder should obtain the Certificate of Acceptance/Certificate of Project Handling Over to client, by the Medical Superintendent, Govt. Hospital and counter signed by the Director Medical Health Serives, Moti Daman
  - b. **Bank Guatantee:**10% Bank Guarantee as security deposit in the form of Bank Guarantee valid for 2 (Two) year.
3. **PENALTY CLAUSE (for supply):** The tenderer will be bound to supply the items within the stipulated period as mentioned above, failing which the following penalty will be levied on the tenderer (deducting from the EMD/Security Deposit).
  - a. **For delayed supply:-** A penalty of 0.5% of the total value of order per week will be imposed subject to a maximum of 10% of the total value of the order.
  - b. **For Non-Supply:-** Security Deposit of the firm shall be forfeited followed by blacklisting & debarking of respective Tenderer/Bidder company.
4. **SPECIAL INSTRUCTIONS:-**
  - a. Prices are firm & fixed
  - b. Prices accepted are FOR destination in Medical Superintendent, Government Hospital, Daman
  - c. You shall furnish original manufacturers test certificate.
  - d. Freight & insurance, loading / unloading and incidental expenses, installation & commissioning will be arranged by you at your own cost.
5. **COMPREHENSIVE WARRANTY:-** The following Guarantee/Warrantee Clause shall be applicable and binding on you: Comprehensive Warranty / Guarantee(Initial 5 years(60months) :- The seller declares / certify that the goods / stores / articles sold / supplied to the purchaser under this contract shall be New in all respects, are of the best quality, workmanship and shall be strictly in accordance with the specification and particulars contained/ mentioned in the contract. The contractor / seller further guarantees that the said goods / stores would continue to confirm to the given description and quality aforesaid for a period of 5 years(60 months) from the date of Installation / Commissioning of the said stores/ articles in the premises of the purchaser/ user department. The above guarantee / warrantee is not-withstanding to the fact that the purchaser may have inspected the store / article and / or not within a period of 60 months of thereafter. In case said

goods/stores / articles is discovered not to confirm to the description and quality aforesaid or not giving satisfactory performance or have deteriorated at subsequent stage, the purchaser may take such action or issue such directions as deems fit to Tenderer to bring the machine in conformity with prescribed specification / to make it operational and which shall be final and binding on the contractor/ seller.

The purchaser is entitled to call upon the contractor to rectify the goods/Stores/articles or such portion of store as found to be defective by the purchaser within a reasonable period/ or such specified period as may be allowed to the contractor failing which the losses, compensation, damages etc, including the cost of repairing of such store, the contractor is having alternate choice of rectify the same existing goods/stores/articles or he can replace the goods/stores/articles with same or superior quality goods/stores/articles, if the Store/ items/ machine is repaired from open market or such damages as assessed by purchaser, which indenter would suffer due to non-operation of the said article/ instrument, shall be recovered from the tenderer and the firms/ tenderer shall be blacklisted for breach of warranty.

**6. ANNUAL MAINTENANCE CONTRACT (Next 60 months after completion of Warrantee Period of 1 Year)**

The Tenderer shall further commit to provide unconditional AMC (labour only) for the next 60 Months (five years) to ensure satisfactory / flawless functioning of the stores to give the desired result. The indenter shall bear only the costs of spares at the prescribed prices, in case required as necessary / essential, to keep the above equipment functional.

**7. UPTIME GUARANTY:** During the Warranty / Guaranty period, you shall maintain the equipment with 95% uptime. You shall give a written commitment for 95% uptime of the equipment, calculated on annual basis, with penalty equivalent to double the amount of daily cost ( on total loss of revenue per day / running cost per day basis) of the unit for each day's delay in proper functioning of the unit beyond 5% down time per annum.

**8. PENALTY CLAUSE:-** The tenderer will be bound to get the equipments repaired within 48 hours of the receiving of the complaint from the indenting hospital failing which a penalty of @ 0.5% of the cost may be recovered from the Bank Guarantee before releasing the same after 2 years .

**9. CORRECTNESS AND COMPLETENESS OF THE STORES:-** The stores shall be correct and complete in every respect will all mounting fitting, fixtures , Standard, accessories which are normally supplied even through not specifically detailed to the specification.

**10. RECTIFICATION CLAUSE:** In the event of stores is given back to the manufacturer should ensure that the defect attended as soon as possible basis and without loss of time so that stores can be re-inspected as earliest. However, it should be noted that the manufacturer will not entitled to dispose off that stores which is given for rectification / rejecting without prior permission of the inspection.

11. **INSTALLATION:** The equipment shall be installed / demonstrated by you free of cost at consignee premises. You will provide 2 copies of the manual including electric circuit diagram design in free of cost along with the equipment.

12. **INTIMATION OF DISPATCH:** The documents should be in the name of consignee only. The information regarding shipment should be sent to the institution well in advance. Delay in submission of relevant information/ incorrect document, and any such information due to which the clearance of stores is delayed, the demurrage charges shall be to your accounts.

13. **LIABILITY:** Supplier's responsibility shall be up to consignee's warehouse/ premises. However, you will be responsible for any damages/ losses due to defective packing etc.

14. **TRAINING:** You shall provide onsite training to Medical & Technical Staff.

15. **INSURANCE:** You shall take cover from warehouse basis and shall keep it valid until store reach hospital at Daman leaving sufficient time for necessary installation and commissioning.

16. **AMC OR CMC SERVICE AFTER EXPIRY OF PERIOD OF WARRANTY OF 1 Year:** After the expiry of this period, you will enter **into A.M.C. OR C.M.C.** on mutually agreed terms & conditions for further maintenance of the whole equipment as per your tender.

17. **SAFETY, HEALTH & ENVIRONMENTAL POLICY(SHE POLICY) :** The Tender/Bidder documents should accompanied with a SHE( Safety, Health & Environment) Policy, Organization Chart(Flow chart), Project Organization (Duties and Responsibilities), Project Control and Administration Methodology of working, Self Test and inspection Plan, non conformity and corrective Actions, Safety , monitoring mechanism.

18. **INFORMATION ABOUT LITIGATION:** Information regarding any litigation, current or during the last five years in which the bidder is involved, the parties concerned, disputed amount.

**(D) Terms and Conditions for the Installation / Fixing / Commissioning of 4 nos. of Modular Operation Theatres at Government Hospital, Nani Daman, Daman(UT), INDIA**

- 1) The tenderer/bidder/bidder should specify the name of the manufacturer for the items quoted by him along with catalogue of the item and complete specification for the items quoted to be submitted in the Technical Bid.
- 2) The tenderer/bidder/bidder should match the quality mark certifications as given and specified in technical terms & conditions document.
- 3) The decision of the Tender Inviting Officer for acceptance/rejection of any articles supplied including the decision for quality mark certifications, standard and quality etc. as specified in technical bid document of articles shall be final.
- 4) The Tenderer/bidder/bidder should enclose EMD (in form of Demand Draft or FDR only) for Security Money of Rs.9,90,000/- (Rs. Nine Lakhs Ninety Thousand only) & Tender Fee of Rs.5000/- (Rupees Five Thousand only)(in form of DD only), along with the Technical Bid of tender in form above desirable form from any of the Commercial Banks in an acceptable form payable at DAMAN in favour of Medical Superintendent, Government Hospital. The EMD and Tender Fee should not be forwarded by Cash. Tender received without Earnest Money Deposit will be summarily rejected.
- 5) (a) The successful tenderer/bidder will have to pay within 10 days from the date of demand, an amount equal to 5% of the total value of articles, which may be ordered, as the amount of security deposit. Non receipt of Security Deposit within stipulated time will result in automatic cancellation of the order for supply without any intimation. However in case if any articles are received for which the Security Deposit may not have been deposited, the full Security Deposit as may be due from the supplier will be recovered from the bill(s) for such articles.
- 6) The amount of Earnest Money paid by the successful Tenderer/bidder(s) will be adjusted against the amount of Security Deposit to be paid by the successful tenderer/bidder(s) as per condition No.07 above.
- 7) The tender should be neatly typed only carries the name of supplier and the signature of the tenderer/bidder. No overwriting, correction or erasures will be considered. Handwritten/Filled Tender documents will be summarily rejected,
- 8) All bills should be in TRIPLICATE and should invariably mention the number and date of supply order. All bills for amount above Rs. 5000/- should be pre-receipted on a Revenue Stamp of proper value. Bills for amount exceeding Rs. 5000/- not pre-receipted on Revenue Stamp of proper value will not be accepted for payment.

- 9) Each bill in which Sales Tax is charged must contain the following certificates on the body of the bill: "CERTIFIED" that the goods on which Sales Tax has been charged have not been exempted under the Central Sale Tax Act or the Rules made there under and the amount charged on account of Sales Tax on these goods is not more than what is payable under the provisions of relevant Act or Rules made there under".
- 10) The Tenders shall be submitted in two-bid system, wherein the Technical bid and Commercial/ Financial Bid is to be filled online in [www.nprocure.com](http://www.nprocure.com) and the EMD and photocopy of the receipt of Tender Fee has to be submitted in Tender Box along with a covering letter. The envelope should be super scribing on the envelope as "Sealed Cover of Bid- for MODULAR OPERATION THEATRE for Medical Superintendent, Government Hospital, DAMAN". The EMD and Tender Fees should be enclosed with Technical BID only. The last date of submission will be 04.03.2014 up to 14.00 hours
- 11) The right to accept or reject without assigning any reasons or all tenders in part or whole is reserved with the Tender Inviting Officer and his decision(s) on all matters relating to acceptance or rejection of the tenders as a whole or in part will be final and binding to all.
- 12) The Purchase committee will open the Tenders(if possible) in presence of tenderer/bidders or their representatives, if any present in the Office of the Tender Inviting Officer. The Purchase Committee will first open the technical bid and considering the technical specification of MODULAR OPERATION THEARE. The Committee will open the financial bid only of those firms who are qualified for technical bid as per specifications given by the department.
- 13) The tender should furnish separate declaration regarding the Blacklisting/Debarring to participate in the Government tender on stamp paper of Rs. 100.00. If the information provided found false the tender will be rejected and EMD shall be forfeited. The tenderer/bidder should submit an affidavit of following points about their legal status duly notarized on.
  - a) Declaration of non involvement in any litigation with any Government in India and that the tenderer/bidder is not under a declaration of ineligibility for corrupt or fraudulent practices
  - b) Declaration of not been blacklisted or debarred or expelled or deregistered by any Central / State / UT Government// Public Under Taking company/Private Company or Hospital/Nursing Home.
  - c) Declaration of no penalty/fine imposed to pay by any Central / State / UT Government / Public Under Taking company/Private Company or Hospital/Nursing Home in any of the known form i.e. monitory level or any other type.
  - d) Declaration of non-political and non-denominational organization with no affiliation to any political parties.



- 14) In case, the supplier does not execute the supply order placed with him, the EMD of the supplier will be forfeited to the Government and the contract for the supply shall terminated with no further liabilities on either party to the contract.
- 15) No separate agreement will be required to be signed by the successful tender(s) for the purpose of this contract for supply. Rates tendered/offered in response to the concerned Tender Notice shall be considered as acceptance of all above terms and conditions for supply for all legal purpose.
- 16) The tender will be accepted during working hours up to 04.03.2014 at 14.00 hours and will open on the same day if possible in the office of the Medical Superintendent, Govt. Hospital, DAMAN.

### **(E) Conditions of Contract :**

- 1) Orders once placed should be delivered within the given time period and item should be door delivered.
- 2) No extra charge for packing, forwarding and insurance etc. will be paid on the rates quoted.
- 3) The rates should be quoted only for the items specified in the list of requirement and should be for the items of given special make/manufacture.
- 4) Rates quoted for items other than the required specification/ make/manufacture will not be considered.
- 5) The amount of Earnest Money paid by the tenderer/bidder(s) whose tenders are not accepted will be refunded to them by cheque or Demand Draft (as may be convenient to the Tender Inviting Officer if the amount is above Rs.5000/-) drawn on any branch of State of India or its subsidiary Commercial Bank. Where this mode of payment is not possible the amount will be refunded at the cost of the tenderer/bidder.
- 6) Only on satisfactory completion of the supply order for and on payment of all bills of the supplier, as to be admitted for payment, the amount of Security Deposit/Earnest Money will be refunded after expiry of guarantee/warranty period, if any, or any such date/period as may be mutually agreed upon.
- 7) The tender inviting officer will consider extension of time for remitting the Security Deposit as demanded. However, in case of denial to consider such extension the supplier is bound to abide by the limit given and liable to make good for the loss made to the Government on account of his failure to abide by the time limit.
- 8) Railway Receipt or other transport document should be drawn in the favour of Officer Inviting tender.

- 9) Railway Receipt or other transport document should not be send by VPP or through any Bank as this being a Government Office it is not possible to clear cash demands of Post Office/Bank for delivery of RR or other transport documents unless we have agreed to it as special arrangement.
- 10) The supplies, materials etc. of inferior quality standard or of different specifications, brand, manufacturer etc other than that ordered specified and/or incomplete or broken articles will not be accepted. The supplier has to replace the same at his own cost and risk. Intimation of non-acceptance of any materials etc will be sent to the supplier within 10 days from the date of receipt of the stores and the same will be returned to the supplier at his own cost and risk, if he so desires and intimates accordingly within 15 days from the date of dispatch of intimation of the non-acceptance. However, if no communication is received within 15 days from the date of communication the tender Inviting Officer will not be responsible for any damages, loss etc. of such rejected articles.
- 11) In case of failure to replace the accepted and rejected articles from the supplies made, as mentioned in the conditions the loss undergone by the Government will be recovered from the suppliers Security Deposit/Earnest Money or payment due of any bill(s) to the extend required.
- 12) In case of failure to supply the store, materials etc. ordered for, as per conditions and within the stipulated time, the name articles will be obtained from the tenderer/bidder who offered next higher rates or from any other sources, as may be decided by the tender inviting Officer and the loss to the Government on account of such purchases(s) shall be recovered from the former suppliers Security Deposit/Earnest Money or bills payable. The suppliers shall have no right to dispute with such procedure.
- 13) The successful bidder will have to supply along with installation of Modular Operation Theatre, which are accepted by the tender inviting authority within 90 days of issuing the order. In case of failure to supply the equipment ordered for, as per conditions and within the stipulated time, the same articles will be obtained from the Tenderer/bidder who offered next higher rates or from any other sources, as may be decided by the tender inviting Officer and the loss to the Government on account of such purchases(s) shall be recovered from the former suppliers Security Deposit/Earnest Money or bills payable. The suppliers shall have no any right to dispute with such procedure.
- 14) Extension of time limit for supplies shall be considered by the Tender Inviting Officer. The extension so granted may be with levy of compensation for delay in execution of supply order up to 5% of the cost of supplies ordered for at the discretion of the authority competent to grant extension of time limit provided such request is made well in time, depending upon the circumstances and such decision in the matter will be final.

- 15) Demurrage charges paid by the Tender Inviting Officer on account of delayed receipt of dispatch documents intimation will be recovered from the bills payable to the supplier.
- 16) If at any time after the order for supply of materials the Tender Inviting Officer shall for any reason whatsoever not require the whole or part of the quantity thereof as specified in the order the Tender Inviting Officer shall give notice in writing of the fact to the supplier(s) who shall have to claim to any payment of compensation what so ever on account of any profit or advantage which the supplier(s) might have derived from the supply of articles in full, but which did not derive in consequence of the full quantity of articles not having been purchased, nor shall have any claim for compensation by reasons of any alterations having been made in the original instructions which shall invoice any curtailment of the supply originally contemplated.
- 17) The Earnest Money(s)/Security Deposit(s) paid by the tender(s) earlier against any tender(s) or supply order(s) is/are not adjustable with Earnest Money or Security Deposit required by these conditions.
- 18) The tenders/offers received do not confirm with the terms and conditions of this office will be summarily rejected. If any firm desires to consider exemption from payment of Earnest Money Deposit, certified copies of its Registration with D.G.S. & D. should be attached to their tenders.
- 19) The items as mentioned in the list are the approximate estimates invited and actual purchase may more. Accordingly the successful tenderer/bidder has no right for any loss/damages with reference to approximate requirement shown in tender and actual requirement.
- 20) Supplier may ensure the goods at his own cost to safeguard the delivery of such goods dispatched by him to the consignee; the department will not be responsible for the damages or pilferage of goods during transit.
- 21) The tenderer/bidder should attached copies of certificate of experience in both the fields of 1) Modular Operation Theatre 2) MGPS (Medical Gas Pipeline system), proof of fulfilling the norms i.e. HTM 03-01, HTM 02-01, & NFPA 99 certificates of the manufacturer, copy of dealership/authority letter (as per Annexure I) , license for import, PAN No., User list of Tender items, Catalog of the item quoted etc. with his/their tender. The tenderer/bidders shall submit along with the tender, documentary evidence of their previous experience in carry out similar supply and of their eligibility in support of their claim for consideration in the matter of award of contract.

- 22) The bidder, for all equipments not manufactured by themselves directly, Authorization letter for supply for this project should be submitted by bidder for that particular equipment.
- 23) No vendor/supplier can submit two authorization letters for the same project & equipments.
- 24) The bidder should have done two similar contract worth Rs.1.5 Crore (Rs.One Crore Fifty Lakhs only). Over the past Five Years
- 25) Rates should be quoted online only on Commercial /Financial Bid Format issued by the department and as per the requirement asked for. Rates quoted are for Medical Superintendent, Govt. Hospital, DAMAN
- 26) The tenderer/bidder may be called for a Sample / demonstration of the items quoted for which he/she/they will be informed one week in advance for arranging the necessary Sample / demonstration in the hospital on a suitable date & time failing which the tender will be rejected.
- 27) The tenderer/bidders should give the guaranty/warranty for the period of not less than One year (12 months) from the date of installation against any manufacturing defect.
- 28) The price quoted in the financial bid should include 1 (One) years Warranty / Guarantee. After Complete of Warranty Period i.e. 1 (One) Year, the tenderer/bidder will have to quote the AMC & CMC Rates Separately. The Rate for AMC & CMC with details Terms & Conditions for Five Years. The discretion to accept the quotation for the item with or without A.M.C. rest with the Medical Superintendent
- 29) As and when necessary, any employee of this institution shall be given training for the use of equipments by the supplier at their cost.
- 30) The successful tenderer/bidders should install and commissioning the hospital equipment at the site suggested by the office.
- 31) The tender document shall be duly signed by the supplier.
- 32) The Tenderer/bidder has to submit the authorization letter from the principal manufacturing company as per the format prescribed in Annexure I.

- 33) The successful tenderer/bidders shall be bound to provide training if any required without any extra charges during commissioning. The tenderer/bidders shall be bound to give assurance for undertaking the annual maintenance contract after the expiry of guarantee/warranty period.

**Signature & Designation of  
Tender Inviting Officer...**

***Dr. B.R. Chand***  
**Medical Superintendent,**  
**Government Hospital,**  
**DAMAN**

**The above terms and conditions are accepted and are binding to me/us.**

**Place:**

**Signature of tenderer/bidder**

**Dated:**

**Name of tenderer/bidder with seal  
of the firm**

**NOTE: Please return One Copy of these terms and conditions duly signed with seal of firm along with the tender.**

## APPLICATION FORM NO. 1

### LETTER OF APPLICATION

[NOTE : On the letterhead paper of the applicant including full postal address, telephone no., fax no., telex no. and cable address]

Date : \_\_\_\_\_

To,  
Medical Superintendent,  
Government Hospital,  
Daman(UT)

Sirs,

1. Being duly authorized to represent and act on behalf of .....  
(hereinafter referred to as "the Applicant") and having reviewed and fully understood all the pre-qualification information provided, the undersigned hereby apply to be pre-qualified by yourselves as a bidder for the :

Design, Fixing & installation, Commissioning and maintenance of 4(Four) nos. of Modular Operation Theatres in Government Hospital, Devka Beach Road, Nani Daman, India

|               |  |
|---------------|--|
| Tender Number | Client Name  |
| -----         | Govt.Hospital, Devka Beach Road, Nani Daman, Daman |

2. Attached to this letter are copies of original documents defining:
  - (a) the applicants legal status
  - (b) the principal place of business
  - (c) the place of incorporation (for applicants who are corporations) or the place of registration and the nationality of the owners (for applicants who are partnerships or individually owned firms)
  - (d) application form no. 1 to 3 and Annexure i to Annexure viii.
3. Your agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This letter of application will also serve as authorization or any individual or authorized representative or any institution referred to in the supporting information, to provide such information deemed necessary and requested by yourselves to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the Applicant.

Your agency and its authorized representatives may contact the following persons for further information:

|   |               |
|---|---------------|
| General, Personnel, Technical and Financial Enquiries |               |
| Contact 1 :   | Telephone 1 : |
| Contact 2 :   | Telephone 2 : |

5. This application is made in the full understanding that:

- (a) Bids by pre-qualified applicants will be subject to verification of all information submitted for pre-qualification at the time of bidding
- (b) Your agency reserves the right to :
  - amend the scope and value of the contract / bid under this project ; in such event, bids will only be called/accepted from pre-qualified bidders who meet the revised requirements ; and
  - reject or accept any application, cancel the pre-qualification process, and reject all applications without assigning reasons or incurring any liability thereof ; and
- (c) Your agency shall not be liable for any such actions and shall be under no obligation to inform the Applicant

6. The undersigned declare that statements made and the information provided in the duly completed application are, true and correct in every detail.

|                      |
|----------------------|
| Sealed & Signed      |
| Name                 |
| For and on behalf of |

## APPLICATION FORM NO. 2

### GENERAL INFORMATION

All individual firms applying for pre- qualification are requested to complete the information in this form. Information to be provided for all owners or APPLICANTS who are partnerships or individually-owned firms.

|    |   |
|----|---|
| 1. | Name of firm  |
| 2  | Head office address   |
| 3  | Telephone   Contact   |
| 4  | Fax   E-mail No.  |
| 5  | Place of incorporation/   Year of incorporation/ registration<br>Registration  <br> |

**Authorized Signatory of bidder and stamp**



**APPLICATION FORM NO. 3****STRUCTURE AND ORGANIZATION**

1. Name & address of the applicant
2. Telephone No. / Telex No. / Fax No.
3. Legal status of the applicant (attach copies of original document defining the legal status)
  - (a) An individual
  - (b) A proprietor firm
  - (c) A firm in partnership
  - (d) A Limited Company or Corporation.
4. Particulars of registration with various Government bodies (attach attested photocopy)  
Organization /Place of registration/Registration No.
5. Name and Titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization
7. Was the applicant ever required to suspend the work for a period of more than six months continuously after you commenced the work? If so, give the name of the project and reasons of suspension of work.
8. Has the applicant ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.
9. Has the applicant ever been debarred / black listed for tendering in any organization at any time? If so, give details.
10. Has the applicant ever been convicted by a court of law? If so, give details.
11. Any other information considered necessary but not included above.

**Authorized Signatory of bidder and stamp**

## **ANNEXURE - I**

To,  
Medical Superintendent,  
Government Hospital,  
Daman(UT)

Respected Sir,

We hereby declare that **M/s. ....** is our authorized distributor for our products in India from date and they are authorized to quote and follow up on our behalf and the said agreement is valid in force as on date;.

2. I/We undertake to supply the drugs / items for which the quotations of following items are submitted by on our behalf in respect of Tender Enquiry No.

| <b><u>Sr. No.</u></b> | <b><u>Item No.</u></b> | <b><u>Name of Item</u></b> |
|-----------------------|------------------------|----------------------------|
| 01.                   |                        |                            |
| 02.                   |                        |                            |
| 03.                   |                        |                            |

3. I / We have read all the terms and conditions of the tender enquiry and the same are irrevocably binding upon us till the expiry of the contract signed & executed on our behalf;

4. I/We shall notify the Medical Superintendent, Government Hospital, Daman immediately if there is any change in the agreement between **M/s. ....** and us regarding authorized distributorship of our products and further undertake to supply the items quoted by the distributor on our behalf at the quoted in the tender enquiry in case of such a change of agreement.

5. This authority is applicable only for Tender Enquiry of Medical Superintendent, Government Hospital, Daman Annual E Tender for Year 2013-14 due on .....

Date:-

Signature of Authorized Signatory and stamp

**ANNEXURE - II****PERSONNEL CAPABILITIES**

| Sl. No. | Designation | Total Number | Number available for this work | Name | Qualification | Professional experience | Remarks |
|---------|-------------|--------------|--------------------------------|------|---------------|-------------------------|---------|
|         |             |              |                                |      |               |                         |         |

**Authorized Signatory of bidder and stamp**

**ANNEXURE - III****EQUIPMENT CAPABILITIES**

| Sl. No. | Name of Equipment | Nos. | Capacity or Type | Age | Condition | Remarks |
|---------|-------------------|------|------------------|-----|-----------|---------|
|         |                   |      |                  |     |           |         |

**Authorized Signatory of bidder and stamp**

**ANNEXURE – IV****FINANCIAL CAPABILITIES****(Rs. In lacs)**

| Financial Year                                   | Annual Turn Over in Indian Rupees ( or equivalent to Indian Rupees ) as per Audited Balance Sheet |
|--|---|
| 2008-2009  | Rs.   |
| 2009-2010  | Rs.   |
| 2010-2011  | Rs.   |
| 2011-2012  | Rs.   |
| 2012-2013  | Rs.   |
| Average Annual Turnover over the past five years | Rs.   |

| Financial Information in Rs. Equivalent | For year 2008-2009 | For year 2009-2010 | For year 2010-2011 | For year 2011-2012 | For year 2012-2013 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1. Total Assets                         |                    |                    |                    |                    |                    |
| 2. Current Assets                       |                    |                    |                    |                    |                    |
| 3. Total Liabilities                    |                    |                    |                    |                    |                    |
| 4. Current Liabilities                  |                    |                    |                    |                    |                    |
| 5. Profit before Tax                    |                    |                    |                    |                    |                    |
| 6. Profit after Tax                     |                    |                    |                    |                    |                    |
| 7. Net Worth                            |                    |                    |                    |                    |                    |

**NOTE : The above data is to be supported by audited balance sheets**

1. Attach copies of audited balance sheets for all five years (2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013).
2. Attach recent solvency certificate from bankers of at-least of Rs. 75 Lakhs).
3. Indicate financial arrangements for carrying out the proposed work.

**Authorized Signatory of bidder and stamp**

### ANNEXURE - V

#### EXPERIENCE OF COMPLETION OF PROJECTS OF SIMILAR NATURE & COMPLEXITY

(During last seven years ending last day of month previous to the one in which applications are invited)

| Sl. No. | Name of work / project and location | Owner or sponsoring organization | Cost of work in Lakhs | Date of commencement as per contract | Stipulated date of completion | Actual date of completion | Name and address/ telephone number of officer to whom reference may be made | Remarks |
|---------|-------------------------------------|----------------------------------|-----------------------|--------------------------------------|-------------------------------|---------------------------|---|---------|
|         |                                     |                                  |                       |                                      |                               |                           |   |         |

**NOTE : Please attach supporting documents (completion certificates along with order copies) for the above information**

**Authorized Signatory of bidder and stamp**

**ANNEXURE - VI**

Litigation Details  
Court Cases/arbitration

Name of Bidder

| Year | Name of the work | Name of the Client, with Address | Title of the court Case/Arbitration | Detail of the Court/ Arbitrator | Status Pending / Decided | Disputed Amount (Current Value, the equivalent) in case of Court Cases/arbitration | Actual Awarded Amount (Rs) in decided Court Cases/arbitration |
|------|------------------|----------------------------------|-------------------------------------|---------------------------------|--------------------------|--|---|
|      |                  |                                  |                                     |                                 |                          |  |   |
|      |                  |                                  |                                     |                                 |                          |  |   |
|      |                  |                                  |                                     |                                 |                          |  |   |
|      |                  |                                  |                                     |                                 |                          |  |   |
|      |                  |                                  |                                     |                                 |                          |  |   |
|      |                  |                                  |                                     |                                 |                          |  |   |

**Authorized Signatory of bidder and stamp**

### Annexure - VII

**Technical Compliance:** This information to be filled in as per the following format by all the bidders for each equipment bid by them and duly signed and to be submitted along with the techno-commercial / financial bid:

| Item Ref.<br>(1) | Tender Specifications<br>(2) | Compliance of<br>parameter/<br>specification<br>(3) | Non-Compliance of<br>parameter/<br>specification<br>(4) | Remarks for<br>Sr. No.(4)<br>(5) |
|------------------|------------------------------|---|---|----------------------------------|
|                  |                              |   |   |                                  |
|                  |                              |   |   |                                  |
|                  |                              |   |   |                                  |
|                  |                              |   |   |                                  |
|                  |                              |   |   |                                  |
|                  |                              |   |   |                                  |
|                  |                              |   |   |                                  |

The information given above is factual & based on product specification details as per the latest catalogues/ product data sheets and technical literature enclosed.

**Signature of the bidder & seal:**



**ANNEXURE-VIII**  
**Check-List**

| S.No | Criteria  | Requirements   | Cross Referencing / Page no. at which required information is available (To be mentioned) | Indicate Eligibility Y / N |
|------|---|--|---|----------------------------|
| 1    | Balance Sheet showing Financial Turnover along with certificate for average turnover last five years  | Balance Sheet showing Financial Turnover along with certificate for average turnover of Rs. 4 crore for five consecutive years ending to 31 <sup>st</sup> March 2013   |   |                            |
| 2    | Experience  | During last five years   |   |                            |
| 3    | Personnel Capabilities  | List of suitable qualified and experienced personnel in relevant field   |   |                            |
| 4    | Equipment Capabilities  | List of equipment required and proposed to be deployed & source of such equipments   |   |                            |
| 5    | Financial Capability  | Company should have positive Net Worth and should not have incurred loss in any of the consecutive year during in last Five years ending 31 <sup>st</sup> March 2013 carrying average turnover of Rs.4 crore only duly certified by the Chartered Account. |   |                            |
| 6    | Solvency Certificate  | Solvency certificate for Rs. 75 Lakhs only from applicant's bank for not older then 1 year   |   |                            |
| 7.   | Litigation History  | As per Annexure-V  |   |                            |
| 8.   | Abandoning / Blacklisting   | Affidavit as the participant company not abandoned /Black listed/Indicted for any work of Union Govt./State Govt./ PSU's etc. during last 5 years on non judicial stamp paper.   |   |                            |
| 9.   | Works Contract Tax/VAT Registration with the appropriate Authorities.                                 | In case the firm is not registered at the time of submission of bid, a declaration by the firm that they will get themselves registered with the concerned authorities in case they are awarded the work is submitted.                                     |   |                            |
| 10   | Item wise Technical Compliance Statement Wrt Technical Specification as published in Tender Documents | As per Annexure – VI   |   |                            |

**Note: Civil work & Plumbing work will be finished by Department as suggested by vendor and mutually agreed with Govt. Hospital – Daman authorities.**

**Authorized Signature of Bidder with stamp.**

## **MODULAR OPERATON THEATRE**

### **TECHNICAL SPECIFICATIONS**

#### **1) WALLS & CEILING SURFACES STERILE COATING SYSTEM**

- The internal surfaces of the theatre walls should be sprayed with water based, non-reflective liquid plastic, to a color approved by the architect, to adequate dry film thickness as per international standards. This plastic coating will overlap the floor covering, ceiling system and door frames by 25mm to provide a continuous sealed surface. The sprayed surface should have a smooth finish and should be void of any cracks on its surface.
- The sterile coating applied to a thickness of 60 microns of the already applied primer coating on the panels inner surface, should be water resistant, does not support bacteriological or fungicidal growth and should be resistant to most chemicals commonly used in hospital departments.
- The sterile coating should remain unaffected by radiation and other ionizing radiation at levels in excess of 1,000 mrad and should be classified to class 1 when tested in accordance with the requirements as specified under BS:476:part 7 ;1971, surface spread of flame test for materials. The coating should be SILVER Ion based.
- The coating system should be easily maintainable and should be able to withstand repeated cleaning with alkaline detergents, antiseptics and fumigation agents without any degradation to the surface finish or performance.
- This coating should be water resistant and should not support bacteriological or fungicidal growth and should be resistant to most chemicals commonly used in hospital departments. It should neutralize micro-organisms which come into contact and should prevent colonizing or sporing of micro-organisms.

- The sterile coating should be silver based and show resistance to a wide range of mixed species, including stubborn pathogens such as MRSA, Acinetobacter aerogenes, Bacillus subtilis, Escherichia coli, Listeria monocytogenes, pseudomonas aeruginosa, pseudomonas, putida, salmonella typhimurium, serratia marcescens, staphylococcus aureus.
- The sterile coating should remain unaffected by radiation, its anti-microbial system should not leach out and its anti-microbial properties should last for a minimum of 10 years. The sterile coating system should be easily maintained and should withstand repeated cleaning with alkaline detergents, antiseptics and fumigation agents without any degradation to the surface finish or performance.
- It should conform to standards HTM 08-01 / HTM 56.

## **2 PRE FABRICATED MODULAR OPERATION THEATRE – WALL & CEILING**

### **WALL & CEILING PANELLING:**

- The main requirements for any operation theatre wall system are such that they should be impact resistant, show resistance to solvents and chemicals and prevent colonising of micro-organisms or neutralize micro-organisms which come into contact with the wall surface and should be joint-less. The surface should be stable to prevent cracking and should be scrub-able and amenable to cleaning and have a completely sealed finish. It should have Biological attack resistance, hygienic finish and also have hydrothermal performance.
- The Pre-fabricated operating room should be free standing structure, constructed from composite, free standing insulated steel wall panels.
- These panels should be produced in a double band laminator, in which two continuously moving belts of Stainless Steel 304 sheets of 0.80mm thickness are firmly bonded together by the sprayed in insulating foam, which hardens during this process. All

panels should have a fifteen year de-lamination warranty.

- The core should consist of rigid polyurethane foam, which has been injected under high pressure, with a minimum density of  $40 \text{ kg / m}^3$ . The walls should be modular in construction, consisting of 1180 mm, 875 mm, 570 mm and 265 mm wide panels, together with corner panels 200 x 200 mm to achieve the desired false ceiling height. The thickness of the complete panel, including the core should be a minimum of 60 mm. Conform with respective certificate copy duly attached herewith having clearly mentioning of above, The modular wall panels are installed upon floor using a “U” channel. Each Pre-Fabricated Operating Room may optionally include sloping ceiling panels at an angle of 45 degrees from the straight wall panel edge. This options reduces the overall volume of the room, decreasing the running costs for air-conditioning and ventilation, while at the same time maintaining the necessary height at the center of the room for the installation of ceiling mounted equipment’s.
- All wall mounted equipment should be flush-mounted and sealed into theater wall buy means of durable sterile jointing system.
- The wall panel design and construction should allow for the installation and support of all equipments with provision of openings required for repair and maintenance without affecting rigidity and strength.
- The inner surface of the operation theatres should be seamless, free from visible joints and sharp edges. All internal corners and panel joints should be filled with a proprietary filler and sanded flush, or radiused (for corners) on site, ready to receive a sterile plastic finish.
- The total distance between the inside and outside surfaces of the theatre should vary to suit the architect’s layout; however the composite wall thicknesses should be 100mm or less. The cavity between the inner and outer walls should be left with minimum obstruction for the possible addition of equipments at a later date and to enable services, pipes, conduits etc. to be run within the cavity.
- The inner surface of the operating theatre should be seamless, free from visible joints and sharp edges. All internal corners and panel joints should be filled with proper Epoxy filler, Sanded flush or radiused on site, ready to receive the sterile plastic finish. All

panel joints should be invisible when the final plastic coating is applied.

- All wall-mounted equipment should be flush mounted and sealed into theatre wall by means of a sterile jointing system. The wall panel design and construction should allow for the installation and support of all equipment and the provision for openings required for the installations, without affecting the rigidity and strength.
- The internal surfaces of the theatre walls and ceiling should be sprayed with water based, non-reflective liquid plastic, to a color approved by the architect, to a minimum dry film thickness of 60 microns. The plastic coating should overlap the floor covering, ceiling system and door frames by 25 mm to provide a continuous sealed surface.
- The sterile coating applied to a thickness of 60 microns of the already applied primer coating on the panels inner surface, should be water resistant, does not support bacteriological or fungicidal growth and should be resistant to most chemicals commonly used in hospital departments.
- The sterile coating should remain unaffected by radiation and other ionizing radiation at levels in excess of 1,000 mrad and should be classified to class 1 when tested in accordance with the requirements as specified under BS:476:part 7 ;1971, surface spread of flame test for materials. The coating should be SILVER Ion based.
- The coating system should be easily maintainable and should be able to withstand repeated cleaning with alkaline detergents, antiseptics and fumigation agents without any degradation to the surface finish or performance.
- The thickness of the wall panels should be a minimum of 10mm and mounted on the existing Wall structure using the necessary steel frame work. The Wall panels should be easily removable for catering to service related needs.

### **Electrical Components**

Each modular panel should contain separate cable pathways for the routing of electrical services and a variety of openings and rear enclosures for the fixing of electrical components. Cable sizes for power sockets, earth and potential equalization wiring should be provided according to the specific requirements of the site. Separation of LV & ELV Supplies to BS7971, conforming to HTM 06-01 & HTM 06-02 standards.

### **Communication Components**

Each modular panel should contain separate cable pathways for the routing of communication services and a variety of openings and rear enclosures for the fixing of components. Internal wiring is executed according to the existing valid standards, running in a separated cable pathway up to an integrated services connection point.

### **Mechanical Components**

Medical gas outlets are connected to the wall panels from pipes running within. Piping for medical gases is segregated by means of a separate duct within the modular panel; the piping used will be medical grade copper tube according to EN737-3. The modular panel is delivered in a pre-piped configuration, including the CE-marked medical gas outlets of which all common brand types are available.

## **3 ESD VINYL FLOORING**

The flooring should be conforming to standards DIN EN 1081, DIN EN 1815, EN 12466, EN 425, EN 423 & EN 433. It should be carrying characteristics of fire resistant, scratch resistant, chemical resistant & resistance to fungi – bacterial growth.

As vinyl is the oldest effective ESD flooring material. Solid vinyl tile (SVT) should be able to deliver a facility that hospital look of cleanliness and shine at optimum level. The Flooring should be able to achieve general appreciations from technical facilities managers & they

should often favor vinyl flooring because of a reputation for being inexpensive, simple to repair and easy to clean. To achieve the same, joints between individual tiles should be welded by heat fusion process to get a seamless floor. The PVC welding bar should be of the same matching color as that of the tile and a hot air gun should be used for fusion of welding bar with flooring tile. Conductive flooring should be installed within the OT area to prevent damage to sensitive medical electronic equipment's, inadvertent movement of surgeons / technicians, accumulation of static dirt. Maintenance should be simple such as each individual tile can be replaced in very short down-time.

**The Conductive flooring should be having the following characteristics:**

- Should have low accumulation of electrostatic charges to people & Equipment.
- Should provide an enduring resistance to static and dynamic loads
- Should display excellent resistance to chemical products such as detergents, acids and alkaline products with carrying Low VOC emissions.
- Should have Fungi-static and bactreostatic treatment throughout the total thickness of flooring.
- Should non-absorbent, impervious and non-porus.
- The Conductive tiles should be static – conductive, flexible, homogenous vinyl floor covering with an electrical resistance of  $5 \times 10^4 \leq R_t \leq 10^6$  (EN 1081).
- The conductive flooring should ensure:
  - a) The protection of Electronic equipment and components
  - b) The protection of premises against explosive risks.
  - c) The protection of people against electro-static discharge risks

**SELF LEVELING COMPOUND (SLC) FOR FLOORING COMPATIBLE TO OPERATION THEATRE**

The SLC should be of Portland cement-based, It should be self-leveling underlayment formulated with a special blend of polymers used to level and smooth interior concrete, terrazzo, ceramic and quarry tile, epoxy coating systems, metal and non-water soluble adhesive residue on concrete prior to the installation of finished flooring – on, above or below grade. The SLC should provide a durable, flat, smooth floor surface with minimum labor and installation time. It should be pourable or pump-able when mixed with water and should seek its own level to produce a smooth, flat, hard surface.

**The SLC should be having following characteristics:**

- It should be Portland cement-based
- Should be able to Install up to 1 1/2" (4 cm) neat, 5" (12.7 cm) with aggregate
- It should be featheredged to meet existing elevations
- It should be walk-able in 2 to 3 hours
- It should be able to Install moisture-insensitive tile and stone after 6 hours, all other floor coverings after 16 hours
- It should be designed specifically for fast-track installations

**4. LAMINAR AIR FLOW CEILING SYSTEM – CONFORMING TO STANDARD HTM 03-01 & HTM 60**

The operating theatre should be equipped with a supply air ceiling to the following specification.

The ceiling should have been type tested and certified in accordance with the German standard DIN 4799.

The air-supply ceiling should provide optimum air distribution over the patient area, integrated with shadow less lighting.

The ceiling should be constructed with a plenum box supplied with conditioned air from the central system via "H-14" class. HEPA filters, The same should be mounted on the exit from the supply ducting.

The ceiling should include integral lighting and a composite air/light diffuser. The HEPA filters should be factory tested and certified. Test seals must be provided in the filter housing in accordance with DIN 1946 and DIN 4799.

The ceiling should incorporate supports to secure it to the main structural frame of the modular operating theatre.

The ceiling should be constructed from 1.6 mm thick aluminium sheet frame painted, white after manufacture.

Air should be diffused into the theatre uniformly over the total area.



The Laminar flow ceiling should also have illumination across its total area.

The lighting should be sufficient to provide an illumination level of 1500 Lux (with 40 Illumination lights) at the wound-site and should be dimmable down to 3% of full lighting, without flicker.

Lighting should be generated from high frequency electronic ballast's complete with colour corrected fluorescent tubes.

The air light diffusers should be installed in a manner, which allows them to be removed for access to the lamps and air filters.

Control equipment for the general lighting and the light dimming should be provided in the theatre control panel.

The Air, light diffusers should consist of two layers of monofilament precision woven polyester bonded to aluminium frames.

The screens should have uniform porosity, with an open area of sufficient resistance to create laminar airflow from the diffuser face.

The operating lamps should be secured directly to the framework of the supply ceiling in such a way as to minimise deflection.

This should contain a ring of high frequency fluorescent tubes to provide additional lighting outside the operating area to provide a minimum lighting level of 1000 Lux throughout the operating theatre.

Control equipment for the peripheral lighting should be provided in the theatre control panel to allow independent control of the lighting levels of both the central lighting and the peripheral lighting by the surgical team.

. The Laminar flow should be of following characteristics:

***4.A Planair Pleanum Size:2800mmx2800mm with 4000CFM capacity***

***Laminar Air Flow***

***4.B Planair Pleanum Size:1800mmx1800mm with 2000CFM capacity***

***Laminar Air Flow***

## **5. DOOR AND FRAME**

### **Hermetically Sealed Sliding Door – Automated**

The Hermetically Sealed Sliding Door should be outcome of an advanced manufacturing technology with the utilization of high-quality materials, the door system should consists of operator, door and door frames. It should be easy to install for both new construction and retrofit applications. Although the operator is should be compact in size and slim in appearance, it should be entirely suitable for the heavy duty applications. During the installation the operator should programmed to comply with the customer's specific requirements.

As clear/positive/sterile air is vitally important for good health, thus Hermetically sealed sliding doors should be comprises specially design to control the air pressure and should be able to reduce outflow of previous positive/sterile air, it should be having door blade which should be inherit quality of single leaf construction, which is of utmost importance in the hospitals i.e.Operation Theatres, Clean rooms, Laboratories. The success of the door should be a result of the hermetically sealing system. The door blade should suspended from an overhead track.

As the door closes, it should drops through an angle of 45°inwards and downwards. The rubber gasket should seals the door positively against the frame and the floor. These doors should be provided as inside sliding, outside sliding.

To permit safe passage between closing door and frame, the door should be immediately reverse/stops if an obstruction is detected, then it should resume its interrupted movement at low speed/programmed speed to check whether the obstruction has disappeared or not. If an obstruction is detected between the opening door and surrounding wall or interior fittings, the door should immediately stops and then closes after a time-delay programmed in accordance with user convenience. The safety should be further improved by using a 'Photocell' presence detection system. People or objects in the doorway should be detected and the door should then

prevented from closing until it is safe to do so. The operator microprocessor should have an integrated self-monitoring device, which should detect any interference or faulty signals in door operation and measures ensuring a safe operation. The electronics are grouped in plug-in units. Each unit should be subjected to programme of stringent quality tests before delivery. The door should also be able to operate manually opened by means of handles on both sides of the door. To make the manual opening easier, a push & go function will automatically control the opening and closing of the door. The Door system should have comprises with following specifications:

Automated operated hermetically sealing sliding main door on Operation Theatre of approximate size, 2100mm (H) X 1000 (W) and 2100mm (H) X 1500 (W)

It Door should be having a track system wherein the door blade is guided under a 45° angle with approximately 6mm deep indentations at the closed position.

The door should having a special inside & outside Stainless Steel lever handle that lifts out the door blade from its hermetic closing position, thus should allow even very heavy doors to be opened effortlessly, manually.

The door should be encased within an extruded anodized 2.5 mm thick aluminum profile frame all around the door blade, and should be with solid high pressure laminate on both sides bonding firmly for rigidity.

The door should have special nylon top rollers with double roller bearings, to enable the door to slide smoothly & silently.

The door blade should be having a special 3-tier specially designed 3 side heavy duty replaceable EPDM gaskets, for the hermetic sealing on the wall frame. The bottom sealing should be with a 2-tier heavy duty EPDM gasket to flush with the finished floor.

The door core should be 60 mm thick, built up with 4 mm thick HPL (High pressure compact laminate) skin on both sides of the door to provide better strength and rigidity. Having between the two sides of laminates – CFC free, high density polyurethane puff (density 40 Kg / m<sup>3</sup>), and thickness of 52mm.

Vision panels should be double glazed, laminated safety glass, flush finished on both sides with door blade should be provided in the doors.

The automation controller for the door should be microprocessor based with regulated electro-mechanical sliding door drive.

The automation should be able to operate a door with maximum door weight of 250Kg.

The wall frame should be high grade aluminum extrusion with natural anodized 15 micron finish wall frame profile. The wall frame profile should be 3 sided blind fixed with cladding on wall cut-out section from inside and outside of the room.

The automation should have variable / adjustable opening & closing speeds, with opening speed adjustable between 120mm / sec --- 800mm / sec and the closing speed adjustable between 120mm / sec ---- 500mm / sec.

The automation / door should be able controlled/operated using either push-button switch, Kick switch or Sensor (touch less – infra-red) switches OR all in combination.

## **6 Double Leaf SS Door**

Double Leaf Stainless Steel Door Single Side Open Flush Door with 49mm thickness of both door leafs, having size of 1800mm x 2100mm with view window of 300mm x 300mm duly complete with clean view glass, The Door should be having .8mm thick SS304 sheet on both faces while door core should be of PU, The Door should be hinge mounted and should complete with all necessary accessories i.e.Door closer, D type SS Door Handle etc.

## **7 Single Leaf Stainless Steel Single Side Open Flush Door**

Single Leaf Stainless Steel Single Side Open Flush Door with 49mm thickness, having size of 1000mm x 2100mm with view window of 300mm x 300mm duly complete with clean view glass, The Door should be having .8mm thick SS304 sheet on both faces while door core should be of PU, The Door should be hinge mounted and should complete with all necessary accessories i.e.Door closer, D type SS Door Handle etc.

## **WALL MOUNTED ITEMS:-**

### **8 Operation Theatre Control Panel**

- It should be a digital control panel consisting of a computer and a touch screen managed by a PLC. It should integrate all controls, signals and alarms of the operation theatre and offer several services addressed to the maintenance staff.
- The information management system should be managed by the programmable software – PLC and the visual and control parameters by the PC / Touch screen, IP64 protected, 15” (inches) in size. It should have a digital microphone and speakers, a 300K pixel camera, ambient light sensor and a wireless LAN 802.11 a Bluetooth V2.0.

Following frequent used functions should be available:

#### a) Controls:

- General Light Switch control, 3 controls in number, having dimming facility
- Temperature and humidity display
- Operation theater status – occupied / free / cleaning
- Stopwatch control
- OT surgical light switch (depending upon the make ,model of the light)

#### b) Alarms:

- Electrical Alarm (visual & Acoustic)
- Gases Alarm repeater (Visual & Acoustic)
- UPS charging status

#### c) Communications:

- Telephone / IP Telephone if line available
- Internet connection

## 9 **X-Ray Viewing Screens (Two Plates)**

- The theatre should be equipped with a twin plate X-Ray Viewing Screen, recessed in the wall and designed to provide a high level of control luminance, without flicker, from a unit that is easy to clean and maintain.
- The X-Ray viewing screen illumination should be by LED lamps, controlled by dimming ballast.
- The front panel diffuser is of a glare free type, sealed flush with the inside face of the operating theatre wall (or may as an option be integrated within the control panel fascia).
- The LED lamps should provide a uniform level of illumination across the entire front panel.
- Access for maintenance and lamp changing is from the front of the panel.
- All internal wiring is terminated in connectors with screw and clamp spring connections.
- Individual fuses or miniature circuit breakers protect all internal circuits.
- All internal wiring is of high temperature resistance and secured by propriety cable clips.
- It is flush mounted and sealed into theatre wall by means of a sterile jointing system.

## **10. Equipment Storage Unit**

- Equipment Storage Unit to be provided in operating theatre of dimensions approved by the user.
- It should be flush mounted into the theatre wall with a sterile jointing system.
- The cabinets should be made of Stainless Steel AISI 304 material.
- Doors of cabinet should open right to left and made of clear safety glass.
- It is suitably partitioned / shelved to allow storage of common endoscopic equipment's.
- It has the facility of secure locking.
- Conform to standard HTM 63

## **11 Operating List - Writing Board**

The Operating List – Writing Board should be flush mounted with a sterile jointing system, The Color of Writing Board should be White on front surface for dry wipe marker and green back for chalk, used material should be Rubber Magnet + Paper, the Operating List-Writing Board can bear Temperature up to 800° Celsius, The used sheet should be of Triple Acrylic Resin Coated Imported Steel Surface, while the writing board should have surface being 0.40mm. It attracts magnet, Smooth & One Stroke Erasing surface, Writing Board surface should have Chemical treatment surface totally Rust free/Crack Proof/Stain Resistance and should have Eco Friendly characteristics.

## **12 Cascade Pressure Stabilizer**

- Cascade pressure stabilizers should be a range of multi-bladed units specifically designed to control room air pressures in critical areas, such as operating theatre suites.
- Each stabilizer should comprise of carbon steel housing with up to for Grade 304 Stainless steel blades, which pivot upon sealed for life bearing assemblies.
- Balancing is carried out utilizing a proven balance weight assembly.
- These stabilizers should be accurate to a range of 1 Pascal over their working range of 5-35Pa.

## **13 Hatch Box**

A hatch should be provided to remove waste material from the operation theatre to dirty linen area just adjacent to the operation theatre. Each hatch should be equipped with two doors and the door should be operated electronically. The hatch should be designed in such a way that only one door should be opened at one time. The UV light should be so installed that it is kept on while both the doors are closed, this UV light should automatically turn “OFF” in case of opening of either of the doors. There shall be indicators on both sides of the OT such that door open / close status can be monitored from both ends.

## **14 Clean-room Illuminators**

Lamp covered with translucent Plexiglas with high transmission level (higher than 80%), held in a frame of white shell sheet, with integrated screw angles for fastening the lights to the panel system. Including closed mounting frame for the built-in LED lamps; the connection between the illuminator and the ceiling hollow space should be completely airtight. Clean-installed light should non-hygroscopic and be of IP 54 grade. Dimensions should approximately be 600 x 300mm (length x width).



## **15 Surgical Scrub Sink – Two Bay**

The Surgical Scrub Sink should be made of Stainless Steel of grade AISI 304. It should be destined to be used for operating theatres, where high hygienic standards are to be maintained. It should be free standing sink with wall mounted possibility, having a depth of 300 mm. It should be two bay, having standard 2 x drain traps, water and soap dispensers activated by sensor, touch less sensors with pre defined time settings of 30, 50, 60, 90 Seconds as per user requirements, water and soap time adjustable, water thermostat – temperature adjustable and having chrome faucets. It should have open able front panel with two latches for maintenance purposes, having approximate dimensions of 1600 (L) x 635 (w) x 1271 (H) in mm.

## **16 AHU (HVAC) System**

### **16.1 AHU - AIR HANDLING UNIT (DOUBLE SKIN TYPE)**

#### **Type**

The air-handling units are of double skin construction, draw-thru type comprising of various sections such as Pre-filter section, coil section, as shown on drawings and included in schedule of quantities. Unit must be able to work satisfactory in exposed atmosphere conditions.

#### **Casing**

Double skinned panels are fabricated with anodized extruded aluminum extrusion frame work bolted together with sandwich panel having powder coated 0.70 mm sheet for outer skin and plain GP 0.63 mm sheet for inner skin. 43 mm thick PUF insulation material is injected between the two panels (with U value no greater than  $0.85 \text{ W} / \text{m}^2/\text{k}$ )

The entire frame duly painted is mounted on sheet steel channel based. The panels are sealed to the framework by heavy-duty 'O' ring gaskets held captive in the framed extrusion. All panels are detachable or hinged. Hinges are made of die cast aluminum with stainless steel pivots, handles are made of hard nylon and be operational from both inside and outside of the unit. All fixing and gaskets shall be concealed.

### **Motor and Drive**

Fan motors are highly efficient and work on  $440 \pm 10\%$  volts, 50 cycles, three phase with explosion proof type with class F installation, with IP 55 protection. Motors are especially designed for quiet operation and motor speed does not exceed 1440 rpm. Drive to fan is provided through belt-drive arrangement. Belts are of the oil-resistant type.

### **Fan**

Fan are of centrifugal type, conforming to AMCA 210 and are double width, double inlet with forward- inclined airfoil blades, specially designed and suitable for the required operating pressure. Fan casing are made from galvanized steel sheet. Fan shaft is grounded C 40 carbon steel and supported in self-aligning plumber block operating less than 75% of first critical speed, grease lubricated bearings.

### **Cooling Coils**

DX coils have 12.5 to 15 mm dia tubes minimum 24G thick with sine wave aluminum fins firmly bonded to copper tubes assembled in zinc coated steel frame. Face and surfaces areas are such as to ensure rated capacity from each unit and such that the air velocity across the coil does not exceed 150 meters per minutes. Each coil is factory tested at  $21\text{-kg/m}^2$  air pressures under water. Tube is Hydraulically / mechanically expanded for minimum thermal contact resistance with fins. Fin spacing is 4 - 5 fins per cm.

### **Filter**

Each unit is provided with a factory assembled filter section containing washable synthetic type air filters having anodized aluminum frame. The media is supported with HDP mesh. Filter banks are easily accessible and designed for easy withdrawal and renewal of filter cells. Filter banks face velocities do not exceed 100 m/minutes. Differential pressure switch is to be fixed across the filter as part of AHU's system.

### **Ducting**

The duct supply system should be free of construction debris. Ducting shall be made of Aluminum with curves & bends where indicated for easy flow of air and ensured to be air tight by applying silicon sealant after fabrication. Hangers shall be provided to ducts & shall be suspended by means of G.I. coated rods & these shall not be more than 2.5mtrs apart. Thermal insulation with 9mm XPE for supply & return air ducts. Joints will be lapped with Nitrile rubber tape for better insulation.

## **16.2 Air Cooled Package Chiller / Condensing Units.**

### **Compressor**

The compressor shall be of screw, scroll / reciprocating type, hermetic, in accordance with ARI 520, direct driven with capacity control arrangement. The compressor casing shall be of cast iron and designed for 450 psig or higher. The compressor shall incorporate rolling element bearing to support rotating assembly. The rotor shall be higher steel alloy. We prefer the use of Copeland USA Compressors Hermetic Compressors.

Refrigerant circuit components shall include flexible pipe connectors, hot gas muffler, high side pressure switch, liquid line shut-off valves, suction and discharge shut-off valves, filter drier, moisture- indicating sight glass, electronic or **thermostatic expansion valve (EXV)**, heavy duty pressure gauge with cocks to monitor suction, discharge and oil pressure and complete operating charge of refrigerant and compressor oil.

### **Motor**

Compressor motor shall be of Hermetic / semi-hermetic direct drive, squirrel cage, two pole, induction type, refrigerant cooled motor suitable for 415V / 50 Hz. 3 phase supply. Hot gas motor cooling is not acceptable. We prefer the use of Copeland USA Compressors Hermetic Compressors.

### **Condenser**

Condenser shall be Air Cooled type. Tubing shall be copper, Aluminum fins high efficiency type. Tubes shall be nominal 19mm. Outer diameter and thickness shall not be less than 22 g. and rolled into tube sheets and shall be individually replaceable and also tubes shall be coated with corrosion resistant coating.

Condenser fans shall be direct coupled to motor and protected against overloading and with minimum 1.15 service factor.

Condenser shall design to allow isolating refrigerant charge when servicing the compressor.

With maintain the above said technical specifications, The Air Handling Unit with Air Cooled Package Chiller / Condensing Units should have following capacity:

- 16.1 (a) 17.5 tr with 5000CFM
- 16.2 (a) 11 tr with 3500 CFM

## 17 **Ceiling Pendants - Imported**

The idea of using ceiling mounts is such that they can be easily swiveled in place to have medical equipment or gases readily available for patient treatment or care. The benefits should translate to flexible positioning and optimal space utilization & in addition hygiene and safety advantages. In nutshell it should eliminate cable clutter and above all the unrestricted movement of all components in the space around the place of use. They should be CE marked / approved.

### **17.1 Ceiling Mounted Double Arm Surgical Pendant - Imported**

The Ceiling Mounted Surgical Pendant should have CE certification, the Surgical Pendant arm shall be double arm, each arm length of 800mm length. The arm should be able to swivel around each joint by 330 degrees. It should be able to withhold a weight of not less than 150kg. The surgical pendant should have the following features:

- Distributor heads / consoles should be modular of length 1200mm & capable of accepting a range of shelves ( 3 Nos.) and a drawer with a top shelf, each having weight carrying capacity of at least 30kg.
- Vertical front rails should offer easy, infinite height of shelves, drawers, extension arms and other Workstation Components
- The Surgical Pendant should have Rails for accessories.
- The extension of the Ceiling mounted Surgical Pendant should be made of extruded aluminum. The unique structure should be developed for guarantee of high-test loads. Long life cycle and extended service interval focus on cost containment and availability at all time. The internal diameter of the arms should be enlarged to enable safe insertion of cabling and also to anticipate a growing number of digital or analogical signals.
- The Ceiling Mounted Surgical Pendant should carry ambient LED lighting located on the two sides of the modules provides a gentle light. This inside LED should improves the effectiveness of operating unit by enable a more precise viewing of the images on the screens and completely reducing an glare effect. It should enables completely safe viewing of equipment installed on the shelves

- The distributor head should have 10 universal electrical sockets, 1 set of RJ45 / RJ11 Connectors have 2 \* Infusion poles with 4 bottle holders.
- The Ceiling Mounted Surgical Pendant should meet with Safety standards in accordance to Annex II of 93/42/EEC mentioned on medical devices.
- Four medical gas outlet terminals:
  - Oxygen – O<sub>2</sub>
  - Nitrous Oxide – N<sub>2</sub>O
  - Air (4 bar)
  - Vacuum

### **17.2 Ceiling Mounted Single Arm Anesthesia Pendant - Imported**

The Ceiling Mounted Anesthesia Pendant should have CE certification; the Pendant arm shall be single arm of length of 800 mm. The arm should be able to swivel around each joint by 330 degrees. It should be able to withhold a weight of not less than 300kg. The pendant should have the following features:

- Distributor heads / consoles should be modular of length 800mm long approx. & capable of accepting a range of shelves ( 2 Nos.) and a drawer with a top shelf, each having weight carrying capacity of at least 30kg.
- Vertical front rails should offer easy, infinite height of shelves, drawers, extension arms and other Workstation Components
- The Anesthesia Pendant should have Rails for accessories.
  - The extension of the Ceiling mounted Anesthesia Pendant should be made of extruded aluminum. The unique structure should be developed for guarantee of high-test loads. Long life cycle and extended service interval focus on cost containment and availability at all time. The internal diameter of the arms should be enlarged to enable safe insertion of cabling and also to anticipate a growing number of digital or analogical signals.
- The Ceiling Mounted Anesthesia Pendant should carry ambient LED lighting located on the two sides of the modules provides a gentle light. This inside LED should improve the effectiveness of operating unit by enable a more precise viewing of the images on the screens and completely reducing an glare effect. It should enable completely safe viewing of equipment installed on the shelves

- The Ceiling Mounted Surgical Pendant should meet with Safety standards in accordance to Annex II of 93/42/EEC mentioned on medical devices.
- The distributor head should have 8 universal electrical sockets, 1 set of RJ45 / RJ11 connectors, have 2 Infusion poles with 4 bottle holders.
- Four medical gas outlet terminals:
  - Oxygen – O<sub>2</sub>
  - Nitrous Oxide – N<sub>2</sub>O
  - Air (4 Bar)
  - Vacuum

**Bill of Quantity Cum Commercial /Financial Bid**  
**Modular Operation Theater**

| Sr. No. | Description   | Qty. | Unit    | Rate per | Amount |
|---------|---|------|---------|----------|--------|
| 1       | SUPPLY AND INSTALLATION OF WALLS & CEILING SURFACES STERILE COATING SYSTEM:-  | 357  | Sq. mtr |          |        |
| 2       | SUPPLY AND INSTALLATION OF PRE FABRICATED MODULAR OPERATION THEATRE WALL, CEILING & SLOPING PANELING:-                              | 357  | Sq. mtr |          |        |
| 3       | SUPPLY AND INSTALLATION OF ESD VINYL FLOORING   | 130  | Sq. mtr |          |        |
| 4       | <b><i>SUPPLY AND INSTALLATION OF IMPORTED PLANAIR VENTILATION CEILING / PLENUM / AIR &amp; LIGHT DIFFUSER / LAMINAR FLOW :-</i></b> |      |         |          |        |
| 4. A.   | <b>PLANAIR SYSTEM WITH LAMINAR AIR FLOW</b><br>Size : 2800mm x 2800mm with 4000CFM capacity Laminar Air Flow.                       | 3    | Set     |          |        |
| 4 B.    | <b>PLANAIR SYSTEM WITH LAMINAR AIR FLOW</b><br>Size : 1800mm x 1800mm with 2000CFM capacity Laminar Air Flow.                       | 1    | Set     |          |        |
| 5       | DOOR AND FRAME :<br>Hermetically Sealed Sliding Door – Automated  | 4    | Set     |          |        |
| 6       | Double Leaf SS Door   | 1    | Set     |          |        |
| 7       | Single Leaf Stainless Steel Single Side Open Flush Door   | 2    | Set     |          |        |
| 8       | OPERATION THEATRE CONTROL PANEL   | 4    | Set     |          |        |
| 9       | X-RAY VIEWING SCREENS<br>(TWO PLATES)   | 4    | No.     |          |        |
| 10      | EQUIPMENT STORAGE UNIT  | 7    | No.     |          |        |
| 11      | OPERATING WRITING BOARD   | 4    | No.     |          |        |
| 12      | CASCADE PRESSURE STABLIZER.   | 4    | No.     |          |        |
| 13      | HATCH BOX   | 4    | No.     |          |        |
| 14      | CLEAN-ROOM ILLUMINATORS   | 24   | No.     |          |        |

|      |  |    |     |  |  |
|------|--|----|-----|--|--|
| 15   | SURGICAL SCRUB SINK – TWO BAY  | 02 | No. |  |  |
| 16   | <b><u>AHU (HVAC) SYSTEM</u></b>  |    |     |  |  |
| 16.1 | AHU –SYSTEM AIR HANDLING UNIT (DOUBLE SKIN TYPE)<br>a) 17.5 tr with 5000 CFM | 3  | Lot |  |  |
| 16.2 | Air cooled Package Chiller/ Condensing Units<br>a) 11 tr with 3500 CFM       | 1  | Lot |  |  |
| 17   | <b><u>Ceiling Pendants - Imported</u></b>                                    |    |     |  |  |
| 17.1 | CEILING MOUNTED DOUBLE ARM SURGICAL PENDANT - IMPORTED                       | 3  | Set |  |  |
| 17.2 | CEILING MOUNTED SINGLE ARM ANESTHESIA PENDANT - IMPORTED                     | 4  | Set |  |  |



**AMC / CMC PRICE BID**

| <b>Sr.<br/>No.</b> | <b>Description</b>  | <b>Rate</b> |
|--------------------|---|-------------|
| 01                 | <b>Annual Maintenance Contract for Total<br/>MODULAR OPERATION THEATER Project<br/>After expiry of 1 Year Warranty</b>        |             |
|                    | 1 <sup>ST</sup> Year  |             |
|                    | 2 <sup>ND</sup> Year  |             |
|                    | 3 <sup>RD</sup> Year  |             |
|                    | 4 <sup>TH</sup> Year  |             |
|                    | 5 <sup>TH</sup> Year  |             |
| 02                 | <b>Comprehensive Maintenance Contract for<br/>Total MODULAR OPERATION THEATER<br/>Project After expiry of 1 Year Warranty</b> |             |
|                    | 1 <sup>ST</sup> Year  |             |
|                    | 2 <sup>ND</sup> Year  |             |
|                    | 3 <sup>RD</sup> Year  |             |
|                    | 4 <sup>TH</sup> Year  |             |
|                    | 5 <sup>TH</sup> Year  |             |