

# **e-TENDER ENQUIRY DOCUMENT**

FOR  
SUPPLY, INSTALLATION, COMMISSIONING,  
RUNNING AND MAINTENANCE OF  
MEDICAL GAS PIPELINE SYSTEM

For  
**G. B. Pant hospital,  
Port Blair**  
Andaman & Nicobar Administration  
Directorate of Health Services

**HLL/PCD/GBPH/01/14-15**



**BY**

**HLL Lifecare Limited**

**(A GOVERNMENT OF INDIA ENTERPRISE)**

**Procurement & Consultancy Services Division**

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**SECTION I**  
**NOTICE INVITING TENDERS (NIT)**

from

**HLL Lifecare Limited**

(A GOVERNMENT OF INDIA ENTERPRISE)

Procurement & Consultancy Services Division

B-14 A, Sector-62, Noida-201 307

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FOR

**ANDAMAN AND NICOBAR ADMINISTRATION**  
**DIRECTORATE OF HEALTH SERVICES**

Tender Enquiry No.: HLL/PCD/GBPH/01/14-15

Dated 30.03.2015

**NOTICE INVITING e-TENDERS (NIeT)**

1. Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of Andaman and Nicobar Administration, Directorate of Health Services, invites **e-tenders**, from eligible and qualified tenderers for supply, installation, commissioning, running and maintenance of Medical Gas Pipeline System for G. B. Pant Hospital, Port Blair:

Sl. No.	e- Tender Ref. No. (Event No.)	Equipment Name	Total Quantity	EMD Details (Rs.)
1	3000000206	Medical Gas Pipeline System	1	17,28,000.00

2. **Tender No.: HLL/PCD/GBPH/01/14-15**

Sl. No.	Description	Schedule
a	Cost of the Tender Enquiry Document	<b>Rs. 5000/-</b> ( Rs. Five Thousands Only)
b	Pre-bid meeting date , time & Venue	<b>10.04.2015, 1500 hrs IST</b> , Directorate of Health Services, Andaman and Nicobar Administration, Port Blair
c	Closing date & time for submission of <b>tender fee and EMD in physical form</b>	<b>11.05.2015, 1230 hrs (IST)</b> Bidders have to submit Original Bank Instruments viz. DD/BC/BG of tender fee and EMD within the above mentioned date and time
d	Closing date & time for submission of online bids	<b>14.05.2015, 1230 hrs IST</b>
e	Time and date of opening of online bids	<b>15.05.2015, 1230 hrs IST</b>

Sl. No.	Description	Schedule
f	Venue for :- Submission of tender fee, EMD in physical form.	HLL Lifecare Limited, (A Government of India Enterprise), Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307
g	Venue for :- e-Tender opening, Price bid opening	Directorate of Health Services, Andaman and Nicobar Administration, Port Blair at 1500 hrs IST

**SPECIFIC Instructions for e-Tender Participation:-**

3. Bidders should have valid Class 3 Digital Signature Certificate with encryption.
4. Bidders are requested to read the bidders help document on e-tender web site link before proceeding for bidding.
5. The prospective bidders have to register with the E-procurement system of HLL at <https://etender.lifecarehll.com/irj/portal>. On completion of the registration process, the bidders will be provided user ID and password within 48 hours (excepting non-working days). In order to submit the bids electronically bidders are required to have a valid Class 3 Digital Signature Certificate (signing and encryption/ decryption certificates).
6. Post receipt of User ID & Password, Bidders can log on for downloading & uploading tender document.
7. **The tenderers shall submit tender fee and EMD in physical form at the scheduled time and venue.**
8. Tenderer may download the tender enquiry documents from the web site [www.lifecarehll.com](http://www.lifecarehll.com) or [www.eprocure.gov.in/cppp](http://www.eprocure.gov.in/cppp) or <https://etender.lifecarehll.com/irj/portal>.
9. The submission of tender online can only be done thru' <https://etender.lifecarehll.com/irj/portal> .
10. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated above.
11. Tenderers shall ensure that their tenders complete in all respects, are submitted **online through HLL's e-portal (as described above) ONLY. No DEVIATION is acceptable.**

**IMPORTANT NOTE :-Tender fee( Rs. 5,000/-) and EMD ( As applicable) should be deposited in the Tender Box located at HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh on or before 11.05.2015, 12.30 hrs (IST). Submission beyond stipulated date & time would result in REJECTION of BID.**

**Head (P&CD)  
HLL Lifecare Limited**

**SECTION - II**  
**GENERAL INSTRUCTIONS TO TENDERERS (GIT)**  
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## SECTION – II GENERAL INSTRUCTIONS TO TENDERERS (GIT)

### A. PREAMBLE

#### 1. Definitions and Abbreviations

1.1 The following definitions and abbreviations, which have been used in these documents shall have the meanings as indicated below:

#### 1.2. Definitions:

- (i) “Purchaser” means the organization purchasing goods and services as incorporated in the Tender Enquiry document.
- (ii) “e- Tender” means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.
- (iii) “Tenderer” means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender
- (iv) “Supplier” means the individual or the firm supplying the goods and services as incorporated in the contract.
- (v) “Goods” means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.
- (vi) “Services” means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- (vii) “Earnest Money Deposit” (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
- (viii) “Contract” means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- (ix) “Performance Security” means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- (x) “Consignee” means the Hospital (G. B. Pant Hospital)/Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that “another” person is the consignee, also known as ultimate consignee.
- (xi) “Specification” means the document/standard that prescribes the requirement with which goods or service has to conform.
- (xii) “Inspection” means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
- (xiii) “Day” means calendar day.

#### 1.3 Abbreviations:

- (i) “TE Document” means Tender Enquiry Document
- (ii) “NIT” means Notice Inviting Tenders.
- (iii) “GIT” means General Instructions to Tenderers
- (iv) “SIT” means Special Instructions to Tenderers
- (v) “GCC” means General Conditions of Contract
- (vi) “SCC” means Special Conditions of Contract

- (vii) “DGS&D” means Directorate General of Supplies and Disposals
- (viii) “NSIC” means National Small Industries Corporation
- (ix) “PSU” means Public Sector Undertaking
- (x) “CPSU” means Central Public Sector Undertaking
- (xi) “LSI” means Large Scale Industry
- (xii) “SSI” means Small Scale Industry
- (xiii) DELETED
- (xiv) “DP” means Delivery Period
- (xv) “BG” means Bank Guarantee
- (xvi) “ED” means Excise Duty
- (xvii) “CD” means Custom Duty
- (xviii) “VAT” means Value Added Tax
- (xix) “CENVAT” means Central Value Added Tax
- (xx) “CST” means Central Sales Tax
- (xxi) “RR” means Railway Receipt
- (xxii) “BL” means Bill of Lading
- (xxiii) “FOB” means Free on Board
- (xxiv) “FCA” means Free Carrier
- (xxv) “FOR” means Free On Rail
- (xxvi) DELETED
- (xxvii) DELETED
- (xxviii) “DDP” means Delivery Duty Paid named place of destination (consignee site)
- (xxix) “INCOTERMS” means International Commercial Terms as on the date of Tender Opening
- (xxx) ”MOH&FW” means Ministry of Health & Family Welfare, Government of India
- (xxxi) “Dte. GHS” means Directorate General and Health Services, MOH&FW.
- (xxxii) “CMC” means Comprehensive maintenance Contract (labour, spare and preventive maintenance)
- (xxxiii) “RT” means Re-Tender.
- (xxxiv) “DHS” means Directorate of Health Services

## 2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – “List of Requirements”, which also indicates, *inter alia*, the required delivery schedule, terms and place of delivery.
- 2.2 This section (Section II - “General Instruction Tenderers”) provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.
- 2.3 The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.
- 2.4 Before formulating the tender and submitting the same to the purchaser, the tenderer should read and examine all the terms, conditions, instructions, checklist etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.

## 3. Availability of Funds

- 3.1 Expenditure to be incurred for the proposed purchase will be met from the funds available with the purchaser/consignee.



#### **4. Language of Tender**

- 4.1 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, shall be written in the English language, unless otherwise specified in the Tender Enquiry. However, the language of any printed literature furnished by the tenderer in connection with its tender may be written in any other language provided the same is accompanied by an English translation and, for purposes of interpretation of the tender, the English translation shall prevail.
- 4.2 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, may also be written in the Hindi language, provided that the same are accompanied by English translation, in which case, for purpose of interpretation of the tender etc, the English translations shall prevail.

#### **5. Eligible Tenderers**

- 5.1 This invitation for tenders is open to all suppliers who fulfil the eligibility criteria specified in these documents.

#### **6. Eligible Goods and Services**

- 6.1 All goods and related services to be supplied under the contract shall have their origin in India or any other country with which India has not banned trade relations. The term “origin” used in this clause means the place where the goods are mined, grown, produced, or manufactured or from where the related services are arranged and supplied.

#### **7. Tendering Expense**

- 7.1 The tenderer shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The purchaser will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

### **B. e-TENDER ENQUIRY DOCUMENTS**

#### **8. Content of Tender Enquiry Documents**

- 8.1 In addition to Section I – “Notice inviting e-Tender” (NIeT), the TE documents include:

- Section II – General Instructions to Tenderers (GIT)
- Section III – Special Instructions to Tenderers (SIT)
- Section IV – General Conditions of Contract (GCC)
- Section V – Special Conditions of Contract (SCC)
- Section VI – List of Requirements
- Section VII – Technical Specifications
- Section VIII – Quality Control Requirements
- Section IX – Qualification Criteria
- Section X – Tender Form
- Section XI – Price Schedules
- Section XII – Questionnaire
- Section XIII – Bank Guarantee Form for EMD
- Section XIV – Manufacturer’s Authorisation Form
- Section XV – Bank Guarantee Form for Performance Security/CMC Security
- Section XVI – Contract Forms A & B
- Section XVII – Proforma of Consignee Receipt Certificate
- Section XVIII – Proforma of Final Acceptance Certificate by the consignee
- Section XIX – Instructions from Ministry of Shipping/ Surface Transport (Annexure 1 & 2)

- Section XX – Check List for the Tenderers
- Section XXI – Consignee List

8.2 The relevant details of the required goods and services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the standard formats to be used for this purpose are incorporated in the above-mentioned documents. The interested tenderers are expected to examine all such details etc to proceed further.

## 9. Amendments to TE documents

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified in writing by registered/speed post or by fax/telex/e-mail, followed by copy of the same by registered post to all prospective tenderers, which have received the TE documents and will be binding on them.
- 9.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

## 10. Clarification of TE documents

- 10.1 A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing. **The purchaser will respond in writing to such request provided the same is received by the purchaser ON OR BEFORE THE PRE BID MEETING (unless otherwise specified in the SIT). Representation sent after the pre bid meeting date will not be taken into cognizance.**

## C. PREPARATION OF e-TENDERS

### 11. Documents Comprising the e-Tender

- 11.1 The tender shall be submitted online **ONLY EXCEPT TENDER FEE & EMD** (in physical form) as mentioned below:
- (i) Technical Bid (Consisting of Eligibility Criteria & Technical Specifications viz. Product Specification Sheets/Brochures, OEM Certificate etc.). Bidders may name the files indicating the nature of content in pdf format which would be required to be attached in e-tender.
  - (ii) Price Bid (To be filled up in the Proforma, Signed, Stamped, Scanned to pdf mode & attach under PRICE BID.

### **DO NOT'S**

Bidders are requested **NOT** to submit the hard copy of Financial Bid along with the physical form of tender. In case the hard copy of financial bid is submitted in physical form, the tender shall be straightway rejected. Also, uploading of the price bid in prequalification bid or technical bid will **RESULT IN REJECTION** of the tender.

### A) **Technical Tender (Un priced Tender)**

**All Technical details (eg. Eligibility Criteria requested (as mentioned below)) should be attached in C-Folder of e-tendering module , failing which the tender stands invalid & REJECTED.**

**Bidders shall furnish the following information along with technical tender (in pdf format):**

- i. Earnest money Deposit (EMD) furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
- ii. Tender Form as per Section X (without indicating any prices).

- iii. Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
- iv. Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation Form. **While giving authorization to agent, to quote on their behalf, manufacturer has to give the reasons for not quoting directly against this tender.**
- v. Power of Attorney in favour of signatory of TE documents and signatory of Manufacturer's Authorisation Form.
- vi. Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
- vii. Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate.
- viii. Price Schedule(s) as per Section XI filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
- ix. Certificate of Incorporation.
- x. Checklist as per Section XX.
- xi. Cost of tender document should be payable by DD / pay order. Cheque will not be accepted.
- xii. Self Attested copies of VAT registration certificate and PAN Card.
- xiii. Non conviction / no pending conviction certification issued by Notary on judicial stamp paper for preceding three years.
- xiv. Self attested copies of quality certificates i.e. US FDA/ CE Certificate issued by competent authority, if applicable.
- xv. Documentary evidence stating the status of bidder.
- xvi. List of procurement agencies of repute to which the tendered product have been supplied during last 12 months.
- xvii. Self attested copies of annual report, audited balance sheet and profit & loss account for preceding three years from the date of tender opening.
- xviii. Notarized affidavit that tenderer does not have any relation with the person authorized to evaluate technically or involve in finalizing the tender or will decide the use of tendered items.
- xix. A self-declaration on Rs 10/ Non-judicial Stamp Paper that the rates quoted in the tender are the lowest and not quoted less than this to any Government Institution (State / Central / other Institute in India).
- xx. **Product catalogues / original Data Sheet must be enclosed of all quoted items.**

## **B) Price Bid:**

1. Prices are to be quoted in the attached Price Bid format online on e-tender portal in pdf format & apply digital signature certificate. **While uploading the price the tenderer has to ensure that the FILE NAME of the attached document SHOULD BE SAME as that of provided price bid format.**
2. The price should be quoted for the accounting unit indicated in the e-tender document.

**The bidder shall not submit hard copy of financial bid otherwise his tender shall be straightway rejected. Also, uploading the price bid in prequalification bid or technical bid will result in rejection of the tender.**

1. The information given at clause no.11.1 A) ii) & viii) above should be reproduced with the prices indicated.
2. All pages of the Tender should be page numbered and indexed.
3. It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any.
4. Information on Compact disc (CD)
5. Tenderer should quote firm and fixed rates.
6. Free goods will be incorporated in price comparison.

7. The specification and size of each product should be as per details given in tender.
8. Any variation may result in the rejection of the tender.
9. Plea of clerical error, typographical error etc., committed by the tenderer would not be accepted.
10. No correspondence will be entertained after opening of the price bid.
11. Any conditional price bid would not be entertained and tender will be treated cancelled.

**Note:**

**It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any. Any deviation would result in REJECTION of tender and would not be considered at a later stage at any cost by HLL.**

- 11.2 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.
- 11.3 A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.
- 11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

**12. Tender currencies**

- 12.1 The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.
- 12.2 DELETED
- 12.3 Tenders, where prices are quoted in **ANY OTHER WAY** shall be treated as **NON - RESPONSIVE AND REJECTED.**

**13 Tender Prices**

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as "NA" by the tenderer.
- 13.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.
- 13.3 Deleted
- 13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:
  - 13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:
    - a) The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;

- b) Any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
- c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
- d) The price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
- e) The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule;
- f) The rates quoted by the tenderer, shall be firm and fixed and inclusive of all taxes including work contract taxes, custom central duties and levies and all charges for packing forwarding, insurance, freight and delivery, installation , testing commissioning etc at site i/c temporary construction of storage, risk, overhead charges general liabilities/ obligations and clearance from local authorities. Rates shall be firm for the contractual period of time and for such time for which department shall grant extension of time till completion of work. Octroi duty shall be paid separately but the department on demand can furnish octroi exemption certificate. However the department is not liable to reimburse the octroi duty in case the concerned authorities do not honour exemption certificate.
- g) The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.4.2 For goods offered from abroad, the prices the prices are to be quoted in INR as per the price schedule:

- a) The price of goods quoted, as indicated in the List of Requirements and Price Schedule;
- b) Deleted**
- c) The price of goods quoted DDP (Delivery Duty Paid) in India as indicated in the List of Requirements, Price Schedule and Consignee List;
- d) Deleted**
- e) The charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery. Other local costs and Incidental costs, as specified in the List of Requirements and Price Schedule;
- f) The charges for Incidental Services, as in the List of Requirements and Price Schedule;
- g) The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- h) The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Duties and Taxes:

13.5.1 If the Tenderer desires to ask for sales tax/ VAT, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

13.5.2 Excise Duty:

- a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.
- b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.

- c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

#### 13.5.3 Sales Tax:

If a tenderer asks for sales tax/ VAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The sales tax / VAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax / VAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forth-with to the purchaser.

#### 13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions the local bodies (like town body, municipal body etc.), as per their regulations, allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser.

#### 13.5.5 Customs Duty:

**DELETED**

- 13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.
- 13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.
- 13.8 Unless otherwise specifically indicated in this TE document, the terms FCA, FOB, FAS, CIF, CIP, DDP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris
- 13.9 The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will no way restrict the purchaser's right to award the contract on the selected tenderer on any of the terms offered.
- 13.10 All sundry equipments, fittings, units assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespectively of the fact whether such items are specifically mentioned in the tender documents or not.
- 13.11 Tenderers are required to quote as per the specification of the stores. The deviation to specification if any must be brought out clearly giving a deviation statement. Detailed break up of prices for the main equipment and the accessory /optional item must be provided separately, item wise in the same serial order as listed in the technical bid.
- 13.12 Tenderers are required to submit the original proforma invoice in duplicate from their principals/ foreign suppliers clearly indicating the agency commission.

**14. Indian Agent**

14.1 If a foreign tenderer has engaged an agent in India in connection with its tender, the foreign tenderer, in addition to indicating Indian agent's commission, if any, in a manner described under GIT sub clause 12.2 above, shall also furnish the following information:

- a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
- b) The details of the services to be rendered by the agent for the subject requirement.
- c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.
- d) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be rendered by the agent and the precise relationship between them and their mutual interest in the business as laid out in section VII (Technical specifications).
- e) Principal/ manufacturer's original proforma invoice with the price bid

**15. Firm Price**

15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.

15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

**16. Alternative Tenders**

16.1 Alternative Tenders are not permitted.

16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.

16.3 If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

**17 Documents Establishing Tenderer's Eligibility and Qualifications**

17.1 Pursuant to GIT clause 11, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.

17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:

- a) In case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
- b) The tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
- c) In case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.
- d) In case the tenderer is an Indian agent/authorized representative quoting on behalf of a foreign manufacturer for the **restricted item**, the Indian agent/authorized representative is already

enlisted under the Compulsory Enlistment Scheme of Ministry of Finance, Govt. of India operated through Directorate General of Supplies & Disposals (DGS&D), New Delhi.

## **18. Documents establishing Goods' Conformity to TE document.**

- 18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.
- 18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.
- 18.3 If a tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

## **19. Earnest Money Deposit (EMD)**

- 19.1 Pursuant to GIT clauses 8.1 and 11.1(d) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.
- 19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification" etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).
- 19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:
- i) Account Payee Demand Draft
  - ii) Banker's cheque and
  - iii) Bank Guarantee
- 19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India in favour of the "HLL Lifecare Limited" payable at New Delhi. In case of bank guarantee, the same is to be provided from any commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents.
- 19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno – Commercial Tender opening date.
- 19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.
- 19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other



rights of Purchaser if it fails to furnish the required performance security within the specified period.

**19.8 Bank Guarantee furnished from foreign banks will not be accepted**

**20. Tender Validity**

20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, however, may not agree to extend its tender validity without forfeiting its EMD.

20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

**21. Digital Signing of e-Tender**

21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11. Tenders shall be uploaded with all relevant PDF format. The relevant tender documents should be uploaded by an authorised person having Class 3 B digital signature certificate.

## **D. SUBMISSION OF TENDERS**

**22. Submission of Tenders**

22.1 The tender shall be submitted online only.

(i) Pre-qualification and Technical compliance as per following documents (**ONLY Online submissions for all the documents.**)

- a) Manufacturer's authorization in case bid is submitted by an Indian agent (A declaration must be attached here in case directly quoted by a manufacturer or a document establishing the relation of the Indian office with the manufacturer in case quoted by Indian office of the manufacturer).
- b) Tender Form as per section X.
- c) Compliance of all terms and conditions of TED like- warranty, delivery period, delivery terms, payment terms etc
- d) Declaration regarding Fall Clause and Deregistration, debarment from any Govt Dept/ Agencies
- e) Copy of PAN.
- f) Certificate of Incorporation/Declaration being a proprietary firm.
- g) Abridged Annual report of last 03 years (Balance sheet and Profit & Loss Account) in pdf format.
- h) Name, address and details of account with respect to bidder and/or beneficiary of L/C.
- i) Quality Control Requirements as per Section VIII
- j) Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate as per section IX.
- k) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications along with product catalogue and data sheet in the tender enquiry.

(ii) **PRICE BID (ONLY ONLINE)**

22.2 The tenderers must ensure that they submit the on-line tenders not later than the closing time and date specified for submission of tenders.

Along with price bid recent purchase order copies for the same model and technical configuration issued by institute of National importance / reputed central / state government hospitals should be uploaded in pdf form for price reasonability.

### 23. Late Tender

- 23.1 There is NO PROVISION of uploading late tender beyond stipulated date & time in the e-tendering system.

### 24. Alteration and Withdrawal of Tender

- 24.1 The tenderer, is permitted to change, edit or withdraw its bid on or before the end date & time.

## E. TENDER OPENING

### 25. Opening of Tenders

- 25.1 The purchaser will open the e-tenders at the specified date and time and at the specified place as indicated in the NIT.

In case the specified date of tender opening falls on/ is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

- 25.2 Authorized representatives of the tenderers, who have submitted tenders on time may attend the tender opening provided they bring with them letters of authority from the corresponding tenderers.

The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives' names & signatures and corresponding tenderers' names and addresses.

- 25.3 Two - Tender system as mentioned in Para 21.6 above will be as follows. The **Techno - Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno - Commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified after the evaluation of the Techno – Commercial tender. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

## F. SCRUTINY AND EVALUATION OF TENDERS

### 26. Basic Principle

- 26.1 Tenders will be evaluated on the basis of the terms & conditions already incorporated in the TE document, based on which tenders have been received and the terms, conditions etc. mentioned by the tenderers in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.

### 27. Preliminary Scrutiny of Tenders

- 27.1 The Purchaser will examine the Tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed stamped and whether the Tenders are generally in order.

- 27.2 Prior to the detailed evaluation of Price Tenders, pursuant to GIT Clause 34, the Purchaser will determine the substantial responsiveness of each Tender to the TE Document. For purposes of these clauses, a substantially responsive Tender is one, which conforms to all the terms and conditions of the TE Documents without material deviations. Deviations from, or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 5), Warranty (GCC Clause 15), EMD (GIT Clause 19), Taxes & Duties (GCC Clause 20), Force Majeure (GCC Clause 26) and Applicable law (GCC Clause 31) will be deemed to be a material deviation. The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
- 27.3 If a Tender is not substantially responsive, it will be rejected by the Purchaser and cannot subsequently be made responsive by the Tenderer by correction of the nonconformity.
- 27.4 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non – responsive and will be summarily ignored.
- 27.5 **The following are some of the important aspects, for which a tender shall be declared non – responsive and will be summarily ignored;**
- (i) **The bidder has submitted hard copy of financial bid (only online submission price bids are allowed).**
  - (ii) Tender is unsigned.
  - (iii) Tender validity is shorter than the required period.
  - (iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
  - (v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
  - (vi) Tenderer has not agreed to give the required performance security.
  - (vii) Goods offered are not meeting the tender enquiry specification.
  - (viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
  - (ix) Poor/ unsatisfactory past performance.
  - (x) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
  - (xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
  - (xii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
  - (xiii) Tenderer has not agreed for the delivery terms and delivery schedule.

## **28. Minor Infirmary/Irregularity/Non-Conformity**

- 28.1 If during the evaluation, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, , the purchaser will convey its observation on such 'minor' issues to the tenderer by registered/speed post/courier/e-mail/fax etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

## **29 Discrepancies in Prices**

- 29.1 If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.
- 29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and

- 29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.
- 29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

### **30. Discrepancy between original and copies of Tender**

- 30.1 In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail. Here also, the purchaser will convey its observation suitably to the tenderer by register / speed post and, if the tenderer does not accept the purchaser's observation, that tender will be liable to be ignored.

### **31. Qualification Criteria**

- 31.1 Tenders of the tenderers, who do not meet the required Qualification Criteria prescribed in Section IX, will be treated as non - responsive and will not be considered further.

### **32. Deleted**

### **33. Schedule-wise Evaluation**

- 33.1 In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender. However, as already mentioned in GIT sub clause 13.2, the tenderers have the option to quote for any one or more schedules and offer discounts for combined schedules. Such discounts wherever applicable will be taken into account to determine the lowest evaluated cost for the purchaser in deciding the successful tenderer for each schedule, subject to tenderer(s) being responsive.

### **34. Comparison of Tenders**

- 34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted turnkey prices , CMC prices and running operation and maintenance will also be added for comparison/ranking purpose for evaluation.

### **35. Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders**

- 35.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:
- i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and
  - ii) Deleted.
- 35.2 The purchaser's evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.
- 35.3 The Purchaser reserves the right to give the price preference to small-scale sectors etc. and purchase preference to central public sector undertakings as per the instruction in vogue while evaluating, comparing and ranking the responsive tenders.
- i. In exercise of powers conferred in Section 11 of the Micro, Small and Medium Enterprises Development (MSMED) Act 2006, the Government has notified a new Public Procurement Policy for Micro & Small Enterprises effective from 1<sup>st</sup> April 2012. The policy mandates that 20% of procurement of annual requirement of goods and services by all Central Ministries / Public Sector Undertakings will be from the micro and small enterprises. The Government has

- also earmarked a sub-target of 4% procurement of goods & services from MSEs owned by SC/ST entrepreneurs out of above said 20% quantity.
- ii. In accordance with the above said notification, the participating Micro and Small Enterprises (MSEs) in a tender, quoting price within the band of L 1+15% would also be allowed to supply a portion of the requirement by bringing down their price to the L 1 price, in a situation where L 1 price is from someone other than an MSE. Such MSEs would be allowed to supply up to 20% of the total tendered value. In case there are more than one such eligible MSE, the 20% supply will be shared equally. Out of 20% of the quantity earmarked for supply from MSEs, 4% quantity is earmarked for procurement from MSEs owned by SC/ST entrepreneurs. However, in the event of failure of such MSEs to participate in the tender process or meet the tender requirements and the L 1 price, the 4% quantity earmarked for MSEs owned by SC/ST entrepreneurs will be met from other participating MSEs.
  - iii. The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or any other body specified by Ministry of Micro and Small enterprises in support of their being an MSE, failing which their tender will be liable to be ignored.

### **36. Tenderer's capability to perform the contract**

- 36.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.
- 36.2 The above-mentioned determination will, inter alia, take into account the tenderer's financial, technical and production capabilities for satisfying all the requirements of the purchaser as incorporated in the TE document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by the purchaser.

### **37. Contacting the Purchaser**

- 37.1 From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.
- 37.2 In case a tenderer attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by the purchaser.

## **G. AWARD OF CONTRACT**

### **38. Purchaser's Right to accept any tender and to reject any or all tenders**

- 38.1 The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.

### **39. Award Criteria**

- 39.1 Subject to GIT clause 38 above, the contract will be awarded to the lowest evaluated responsive tenderer decided by the purchaser in terms of GIT Clause 36.

**40. Variation of Quantities at the Time of Award/ Currency of Contract**

- 40.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" (rounded off to next whole number) without any change in the unit price and other terms & conditions quoted by the tenderer.
- 40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to twenty five (25) per cent, the quantity of goods and services mentioned in the contract (rounded off to next whole number) without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract.

**41. Notification of Award**

- 41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will be forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.
- 41.2 The Notification of Award shall constitute the conclusion of the Contract.

**42. Issue of Contract**

- 42.1 Promptly after notification of award, the Purchaser/Consignee will mail the contract form (as per Section XVI) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.
- 42.2 Within twenty one days from the date of the contract, the successful tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser/Consignee by registered / speed post.
- 42.3 The Purchaser/Consignee reserves the right to issue the Notification of Award consignee wise.

**43. Non-receipt of Performance Security and Contract by the Purchaser/Consignee**

- 43.1 Failure of the successful tenderer in providing performance security and / or returning contract copy duly signed in terms of GIT clauses 41 and 42 above shall make the tenderer liable for forfeiture of its EMD and, also, for further actions by the Purchaser/Consignee against it as per the clause 24 of GCC – Termination of default.

**44. Return of E M D**

- 44.1 The earnest money of the successful tenderer and the unsuccessful tenderers will be returned to them without any interest, whatsoever, in terms of GIT Clause 19.6.

**45. Publication of Tender Result**

- 45.1 The name and address of the successful tenderer(s) receiving the contract(s) will be mentioned in the notice board/bulletin/web site of the purchaser.

**46. Corrupt or Fraudulent Practices**

- 46.1 It is required by all concerned namely the Consignee/Tenderers/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
  - (i) “corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
  - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;
- (b) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (c) Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the purchaser if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

**SECTION - III**  
**SPECIAL INSTRUCTIONS TO TENDERERS**  
**(SIT)**

Sl. No.	GIT Clause No.	Topic	SIT Provision	Page No.
A	1 to 7	Preamble	No Change	24
B	8 to 10	TE documents	No Change	24
C	11 to 21	Preparation of Tenders	Change	24
D	22 to 24	Submission of Tenders	Change	24
E	25	Tender Opening	No Change	24
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change	24
G	38 to 45	Award of Contract	No Change	24

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

Rates:

The rates quoted by the tenderer shall be firm and inclusive of all taxes (including work contract taxes)

**SUBMISSION OF e-TENDERS**

- (i) All the necessary documents as prescribed in the NIT shall be prepared and scanned in different files (in PDF format as prescribed) and uploaded for on-line submission of Proposal.
- (ii) Except Tender Fee and EMD, all document(s)/ information(s) including the Financial Proposal (i.e. **FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL**) should be uploaded **online only** in the prescribed format given in the website. No other mode of submission shall be acceptable.
- (iii) The prospective bidders may **scan the documents in low resolution (75 to 100 DPI)** instead of 200 DPI. The documents may be scanned for further lower resolution (if possible). This would reduce the size of the Cover and would be uploaded faster.
- (iv) The prospective bidders may upload Drawing files, if any, in **“.dwf”** format so that the size of document is less. This is a generic format and all software supports this format.
- (v) The Individual file size of uploading is restricted up to 5 MB. Bidders may upload multiple files (Not exceeding 5 MB individually) & name the files in a way, which describes the contents.



**SECTION - IV**  
**GENERAL CONDITIONS OF CONTRACT (GCC)**  
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## SECTION - IV

### GENERAL CONDITIONS OF CONTRACT (GCC)

#### 1. Application

- 1.1 The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract prescribed under Section V, List of requirements under Section VI and Technical Specification under Section VII of this document.

#### 2. Use of contract documents and information

- 2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.
- 2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.
- 2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

#### 3. Patent Rights

- 3.1 The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.

#### 4. Country of Origin

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

#### 5. Performance Security

- 5.1 Within thirty (30) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum 30 months from the date of Notification of Award
- 5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:  
It shall be in any one of the forms namely Account Payee Demand Draft or Fixed Deposit Receipt drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in section XV of this document in favour of the Purchaser/Consignee. The validity of the Fixed Deposit receipt or Bank Guarantee will be for a period up to sixty (60) days beyond Warranty Period.

- 5.3 In the event of any failure /default of the supplier with or without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CMC security as per Proforma in Section XV, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within twenty-one (21) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 The supplier shall enter into Annual Comprehensive Maintenance Contract as per the 'Contract Form – B' in Section XVI with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CMC security in favour of Head of the Hospital/ Institute/ Medical College of the consignee as per the format in Section XV.

## **6. Technical Specifications and Standards**

- 6.1 The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections VII and VIII of this document.

## **7. Packing and Marking**

- 7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.
- 7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.
- 7.3 Packing instructions:

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections VII and VIII and in SCC under Section V, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a. contract number and date
- b. brief description of goods including quantity
- c. packing list reference number
- d. country of origin of goods
- e. consignee's name and full address and
- f. supplier's name and address

## **8. Inspection, Testing and Quality Control**

- 8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. The cost towards the

transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).

- 8.2 The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.
- 8.3 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.4 In case the contract stipulates pre-despatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.
- 8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.
- 8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.
- 8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.
- 8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognised/ reputed agency like SGS, Lloyd , TUV, BEARUE VERITAS prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

## **9. Terms of Delivery**

- 9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery and as per the delivery period specified in the contract. Please note that the time shall be the essence of the contract.

## **10. Transportation of Goods**

- 10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments and/or transshipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under DDP (Delivery Duty Paid) terms; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.

In case of airlifting of imported goods offered from abroad, the same will be done only through the National Carrier i.e. Air India wherever applicable. In case the National Carrier is not available, any other airlines available for early delivery may be arranged.

- 10.2 Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement:

In case no instruction is provided in this regard in the SCC, the supplier will arrange transportation of the ordered goods as per its own procedure.

## 11. Insurance:

- 11.1 Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

i) In case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from ware house to ware house (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.

ii) Deleted

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will be got extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

## 12. Spare parts

- 12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

b) In case the production of the spare parts is discontinued:

i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and

ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.

- 12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the goods so that the same are supplied to the Purchaser/Consignee promptly on receipt of order from the Purchaser/ Consignee.

## 13. Incidental services

- 13.1 Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services.

- i) Installation & commissioning, Supervision and Demonstration of the goods. Installation including integration with the OT pendants etc will be the responsibility of the supplier. All accessories like UPS cables ports and spares etc as necessary for complete smooth and breakdown free functioning of the entire system shall be provided by the supplier as a part of the project.
- ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- iii) Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
- iv) Supplying required number of operation & maintenance manual for the goods
- v) Running, operation and maintenance of goods supplied

#### 14. Distribution of Dispatch Documents for Clearance/Receipt of Goods

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract.

Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

A) For Domestic Goods, including goods already imported by the supplier under its own arrangement

Upon despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post/ courier (or as instructed in the contract):

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Certificate of origin;
- (vi) Insurance Certificate as per GCC Clause 11.
- (vii) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) Deleted

#### 15. Warranty

The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (*except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications*) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.

**The supplier is to assure uninterrupted service without compromising OT/ICU**

15.1 Complete system including labour & spares should have comprehensive onsite warranty for five years; commencing from the date of issue of installation certificate by the institute. Post guarantee annual comprehensive maintenance contract (CMC) to cover main equipment/ civil construction including all accessories supplied with the unit should be quoted separately for additional five years with year wise break up. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. The price comparison shall be made taking into

account on basic price and post warranty CMC.

- Incremental Cost (if any) for, up gradation, if required, should form part of the contract for the Warranty and Post Warranty period.
- The Supplier (manufacturer) shall set-up a maintenance base to provide maintenance service, of the entire turnkey system being offered, at short notice during the warranty and post warranty period. **The technical maintenance personnel of the supplier responsible for supervision and maintenance shall be available to reach the site(s) within 1 hour's notice.**
- If the performance of any individual equipment or system is not satisfactory, the same shall be replaced by the supplier free of cost.
- If it is found that to meet the performance criteria, any extra equipment is required the same will be provided free of cost by the supplier.
- All faults appearing and their rectification shall be periodically advised to the hospital, the period being not more than a month.
- Any lacuna or lacunae noticed in the functioning of the installation as a result of any design feature shall be rectified by the supplier free of cost.
- The Supplier shall fully associate the engineers and technicians of the Institute during installation, testing, commissioning, operation and maintenance period.

15.2 The **warranty** shall remain valid for 60 months from the date of installation & commissioning with a regular up gradation of newer technology as and when evolved followed by a CMC for a period of 5 (Five) Years for all the equipments after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser/CONSIGNEE in terms of the contract, unless specified otherwise in the SCC.

No conditional warranty will be acceptable.

- a. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work and it will also cover the following wherever applicable:-
  - Any kind of motor.
  - Plastic & Glass Parts against any manufacturing defects.
  - All kind of sensors.
  - All kind of coils, probes and transducers.
  - Printers and imagers including laser and thermal printers with all parts.
  - UPS including the replacement of batteries.
  - Air-conditioners
  - All kinds of painting, civil, HVAC and electrical work
- b. Replacement and repair will be under taken for the defective goods.
- c. Proper marking has to be made for all spares for identification like printing of installation and repair dates.

15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.

15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non rectification will be applicable as per tender conditions

15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended till the completion of the original warranty period of the main equipment.

15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to

take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.

- 15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods
- 15.8 The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.
- 15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.10 The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee.
- 15.11 The supplier has to maintain the MGPS system for 5 years from the date of installation. The detailed scope of work is attached with the technical specification.

## **16. Assignment**

- 16.1 The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.

## **17. Sub Contracts**

- 17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.
- 17.2 Sub contract shall be only for bought out items and sub-assemblies.
- 17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

## **18. Modification of contract**

- 18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
  - a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
  - b) Mode of packing,
  - c) Incidental services to be provided by the supplier
  - d) Mode of despatch,
  - e) Place of delivery, and
  - f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.
- 18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

## **19. Prices**



19.1 Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its tender and incorporated in the contract except for any price adjustment authorised in the SCC.

## **20. Taxes and Duties**

20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser.

20.2 Further instruction, if any, shall be as provided in the SCC.

## **21. Terms and Mode of Payment**

### **21.1 Payment Terms**

Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner.

#### **A) Payment for Domestic Goods Or Foreign Origin Located Within India.**

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

##### **a) On delivery:**

70 % payment of the equipment price shall be paid on receipt of goods in good condition at the consignee premises and upon the submission of the following documents:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Insurance Certificate as per GCC Clause 11;
- (vi) Certificate of origin.
- (vii) Manufacturer's warranty certificate

##### **b) On Acceptance:**

Balance 30% of the equipment price would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

**c) Payment of turnkey cost including civil, electrical & Incidental Services** (including Installation & Commissioning, Supervision, Demonstration and Training) will be paid in Indian Rupees upon issue of final acceptance certificate by the consignee.

##### **d) Payment of Indian Agency Commission:**

Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule.

## **B) DELETED**

### **C) Payment for Annual Comprehensive Maintenance Contract Charges:**

The consignee will enter into CMC with the supplier at the rates as stipulated in the contract. The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the consignee on receipt of bank guarantee for an amount equivalent to 2.5 % of the cost of the equipment as per contract valid till 2 months after expiry of entire CMC period.

- 21.2 The supplier shall not claim any interest on payments under the contract.
- 21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
- 21.4 Deleted.
- 21.5 The payment shall be made in the currency / currencies authorised in the contract.
- 21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.
- 21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- 21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.
- 21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
  - (b) Delay in supplies, if any, has been regularized.
  - (c) The contract price where it is subject to variation has been finalized.
  - (d) The supplier furnishes the following undertakings:

"I/We, \_\_\_\_\_ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We \_\_\_\_\_ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment.

## **22. Delivery**

- 22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.
- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
- (i) imposition of liquidated damages,
  - (ii) forfeiture of its performance security and
  - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

- 22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:
- (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
  - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
  - (c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.

22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.

22.6 Passing of Property:

- 22.6.1 The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.
- 22.6.2 Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the property does not pass until such thing is done.
- 22.6.3 Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser.

### **23. Liquidated damages**

23.1 Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.

During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.

### **24. Termination for default**

24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee ), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.

24.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.

24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

## **25. Termination for insolvency**

25.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/Consignee.

## **26. Force Majeure**

26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.

26.2 For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of , the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, acts of the Purchaser/Consignee either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees , lockouts excluding by its management, and freight embargoes.

26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

## **27. Termination for convenience**

27.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee 's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.

27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:

- a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or

- b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

## **28. Governing language**

- 28.1 The contract shall be written in English language following the provision as contained in GIT clause 4. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

## **29. Notices**

- 29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

## **30. Resolution of disputes**

- 30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of an officer in the Ministry of Law and Justice, appointed to be the arbitrator by the Director General (Health Services). The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)
- 30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., Port Blair, India.

## **31. Applicable Law**

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.

## **32. Withholding and Lien in respect of sums claimed**

Whenever any claim for payment arises under the contract against the supplier the purchaser shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of money arising out of under any other contract made by the supplier with the purchaser, pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above, by the purchaser, will be kept withheld or retained till the claim arising about of or under the contract is determined by the Arbitrator or by the competent court as the case may be, and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

## **33. General/ Miscellaneous Clauses**

- 33.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.

- 33.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- 33.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.
- 33.4 Each member/constituent of the Supplier/its Indian Agent/CMC Provider, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser/Consignee/Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.
- 33.5 The Supplier/its Indian Agent/CMC Provider shall at all times, indemnify and keep indemnified the Purchaser/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CMC or the Contract.
- 33.6 The Supplier/its Agent/CMC Provider shall, at all times, indemnify and keep indemnified the Purchaser/Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.
- 33.7 All claims regarding indemnity shall survive the termination or expiry of the contract.

## **SECTION – V**

### **SPECIAL CONDITIONS OF CONTRACT (SCC)**

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses. Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

**The warranty conditions will be as mentioned in the list of requirement as per section VI of the tender enquiry.**

**SECTION - VI**  
**LIST OF REQUIREMENTS**

**Part I**

Sl. No.	Equipment Name	Total Quantity	Institute Name	Warranty Required
1	Medical Gas Pipeline System incl. running , operation and maintenance for 10 years from the date of installation and commissioning	1	GBPH	5 Years

**Legend:**

GBPH: G. B. Pant Hospital

**Part II: Required Delivery Schedule:****a) For Indigenous goods or for imported goods if supplied from India:**

For all schedules: Delivery installation and commissioning should be completed within 180 days from the date of notification of award or handing over of site whichever is later. (Tenderers may quote earliest delivery period).

**Note:****Part III: Scope of Incidental Services:**

Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13

**Part IV:**

Turnkey (if any) as per details in Technical Specification.

**Part V:**

Comprehensive Maintenance Contract (CMC) as per details in Technical Specification.

**Part VI:****Required Terms of Delivery and Destination.****a) For Indigenous goods or for imported goods:**

At Consignee Site – On duty delivery paid basis

Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 6 months beyond date of delivery

**Part VII:**

**The bidder has to quote for running, operation and maintenance of MGPS for 10 years from the date of final installation, commissioning and acceptance.**

**Destination/Consignee details are given in Section XXI**



## **SECTION-VII**

### **TECHNICAL SPECIFICATIONS**

#### **Technical Specifications for Medical Gas Pipeline System for G . B. Pant Hospital**

Technical specifications of Centralized Medical Gas Pipeline system, Manifold System, Medical Vacuum Plant, Medical Air Plant, AGSS Plant and Suction + Oxygen Therapy for all G.B. Pant Hospital, Port Blair-Andaman Nicobar Island in India.

The system comprises of

1. Oxygen Generation, Oxygen supply system with automatic control panel and emergency manifold.
2. Nitrous oxide manifold with automatic control panel and emergency manifold.
3. Medical Vacuum (suction) supply system complete.
4. Medical Air supply system (4 bar & 7 bar) complete.
5. Distribution Medical Grade Copper piping complete with accessories.
6. Area Valve Service Unit.
7. Medical Gas Alarm Systems.
8. Bed Head Panels
9. Gas Outlets Points.
10. AGSS System.
11. Suction and Oxygen Therapy Equipments.
12. Construction of Gas Manifold & Plant Room

#### **RESPONSIBILITY OF BIDDER**

Bidder shall be responsible for complete design, supply, installation, testing and commissioning including turnkey works, demolition and construction as applicable. The bidders are required to survey the site before submitting the offer and pre-bid quarries.

Bidder shall execute all required civil, electrical, as maybe required for complete installation and trouble-free functioning as a part of the 'turnkey work'. Hospital will provide Single and 3 phase electrical supply with isolator in the plant room. Electrical Control panel for Vacuum system and Air plant system has to be supplied by the bidder. Installation and commissioning of area valve service unit and alarm unit for the operation theatre shall be done by the MGPS bidder. Medical gas pipe line inside the operation theatre has to be done by the MGPS bidder.

The bidder shall be responsible for the complete works including the submission of working Drawings, and isometric views, detailed work schedule and materials. Bidder shall be responsible for design, supply, installation, testing and commissioning of medical gas supply system in coordination with hospital authorities. Bidder shall be responsible for free maintenance of Gas pipeline system, other plants and manifolds during warranty period. All imported should be from single make, single standard and single source of supply. Complete Medical Bidder shall be responsible for supply, installation, testing and commissioning of Oxygen /N<sub>2</sub>O Manifold System, Medical Vacuum Plant, Medical Air plant, AGSS system, Medical Grade Copper Pipes, Area valve service units, Medical Gas Alarm Systems, Gas out lets points, Suction Oxygen Therapy Equipments as per HTM 02-01/NFPA 99C/DIN/EN standards. Bidder should provide factory test certificates for the materials supplied. Bidder should supply complete set of operating and user manuals for all the systems.

#### **1. OXYGEN SYSTEM**

- 1A. Imported Oxygen Generation/Concentrator Plant  
Oxygen Generator/Concentrator Module

Modular system according to ISO10083.

It should be based on Pressure Swing Adsorption (PSA) technology.

It should be fully automated, plug-and-play

It Should standard calibrated to produce 700ltrs/min

It should meets production requirements from 38.5 (95.0%) to 44.5 (90.0%) Nm<sup>3</sup>/hour

The oxygen supply be continuous and supplied through a single unit. The oxygen should be of medical grade and shall be able to supply through pipeline at 4.1bar pressure.

The oxygen concentrator should be supplied with oxygen surge tank having a capacity 2000 ltrs equipped with pressure gauges to display oxygen pressure.

Purity: (%) 90.0 to 95.0

Flow: (O<sub>2</sub> Nm<sup>3</sup>/hour) 44.5 to 38.5

Air requirements: (Nm<sup>3</sup>/minute) 8.50 to 8.20

Unit performance +/- 5%

Capacity at 90.0%: 44.5 Nm<sup>3</sup>/hour

Dew point: Inlet: +3°C

Outlet: -60°C

Outlet pressure: 4 bar

Inlet pressure requirement: 7.5 bar

Power supply: Oxygen Generator: 240-50 Hz

Power supply: Air Compressor: 440 V /- 50Hz

Oxygen Surge Tank Buffer size: 2000L

Compressor requirements: 8.50 Nm<sup>3</sup>/min

Operating conditions: Min 5°C - Max 45°C

Operating conditions: Dry and ventilated room

It should have PDP sensor for dryer outlet/generator inlet monitoring.

1no. Medical Air Compressor : Air compressor rotary screw compressor.

The oxygen concentrator should be supplied with compatible medical air compressor system to meet the peak load atmospheric air and pressure requirement. The compressor should be screw type, stationary, silenced package fitted.

1no. External Refrigerant Air Dryer,

1no. Purification Module :The duplexed filter and dryer module shall incorporate high efficiency oil filters, heatless regenerative desiccant dryers, impregnated activated carbon filters and bacteria filters.

The delivered air shall be independently verified by a third party for medicinal air, with maximum concentrations of contaminants as listed below:

H <sub>2</sub> O	67ppm v/v (-46°C atmospheric dew point)
Dry particulates	0.01 mg/m <sup>3</sup>
Oil (droplet or mist)	0.1 mg/m <sup>3</sup>
CO	5 ppm v/v
CO <sub>2</sub>	500 ppm v/v
SO <sub>2</sub>	1 ppm v/v
NO	2 ppm v/v
NO <sub>2</sub>	2 ppm v/v

Each dryer tower shall have the water concentration in the delivered air continuously monitored by a dedicated sensor providing an alarm indication for high dew point on the respective dryer as backup to the alarm provided by the hygrometer with digital display. The outlet air pressure shall be regulated through a duplex arrangement of non-relieving pressure regulators and protected from over-pressure by duplex pressure safety valves. The output of the both dryers shall be joined to a common pipe prior to entering the pressure regulators to allow either pressure regulator to be used with either dryer.

**Digital Dew Point Display:** The purification module shall incorporate a dew point hygrometer with an accuracy of  $\pm 1^{\circ}\text{C}$  in the range  $-20$  to  $-80^{\circ}\text{C}$  atmospheric dew point and 4-20 mA analogue output. Aluminium oxide or palladium wire sensors are not acceptable. An alarm condition shall trigger on the dryer control panel if the dew point exceeds a  $-46^{\circ}\text{C}$  atmospheric (67 ppm v/v) set point. Volt-free contacts shall be included to enable the dew point alarm signal (Plant Emergency) to be connected to a central medical gas alarm system and/or building management system (BMS). An additional set of voltfree alarm contacts shall be available on the dew point monitor for connection to an auxiliary alarm.

**Filtration system for compressed Air:** The feed air quality to the oxygen concentrator should be confirming to ISO8573-1 class 1-4-1 and should have filtration grade of 0.01 micron. The ambient temperature of compressed air should be 5 degree centigrade to 40 degree.

All vessels in the PSA System (Generator vessels and O<sub>2</sub> buffertank) should be compliant with European Pressure Directive Fluid Group 1 (hazardous gases). All vessels should be equipped manometers and safety relief valves approved for Oxygen.

### **1A. Supply, Installation, Testing and Commissioning of 12+12 Size Oxygen Manifold**

It shall be configured with 2 x 12 nos. of class D cylinders and will be suitable to withstand working pressure of 145 Kg/cm<sup>2</sup> along with 12 nos. of high-pressure copper annealed tail pipes with end brass adapter suitable for oxygen cylinders and manifold. 12 cylinder manifold bank as left side and 12 cylinder manifold bank as right side complete with 24 nos. of pig tail pipes and 24 nos. of non-return valves. Top frame will comprise of high pressure copper pipes of size 1/2" NB x 15 swg with high pressure brass fittings made of high tensile brass and connections through non- return valves, high pressure copper tail pipes, made of high pressure copper pipe of size 1/4" NB x 15 swg. The design of middle and bottom frames should be provided to fit both round and flat bottom cylinders safely. The manifold must be tested (hydraulically) at 150 bar and necessary test certificates should accompany along with the supply. The manifold system should conform to IS 12827 standard.

### **1B. Supply, Installation, Testing and Commissioning of Oxygen Emergency Reserve Manifold - 2 x 4 size Manifold:**

The Oxygen Emergency Reserve Manifold System shall have 4 cylinder manifold bank as left side and 4 cylinder manifold bank as right side complete with 8 nos. pig tail pipes and 8 nos. non return valves.

The emergency reserve manifold shall provide an uninterrupted supply of medical oxygen from equally sized high pressure cylinder banks via a suitable arrangement of pressure regulators, providing a constant downstream nominal pipeline gauge pressure of 400 kPa.

Each cylinder bank shall be fitted with an isolation valve to enable continuity of supply in the event of primary supply failure.

The emergency reserve manifold shall be provided with a lockable isolation valve to enable positive tamper-proof isolation for maintenance. The emergency reserve manifold shall be supplied fully assembled and tested.

The manifold system should conform to IS: 12827 standard.

### **1C. Supply, Installation, Testing and Commissioning of Oxygen Fully Automatic Changeover Control Panel of 1500lpm or more (IMPORTED):**

The fully automatic oxygen control panel should comply with HTM 02-01/NFPA 99C/DIN/EN/ISO-7396-1 standards. It should be European CE Certified or UL listed under Medical Devices Directive.

It shall be provided with a copy of the certificate of origin. The manifold control panel shall be designed and certified for use with oxygen at 200 bar and 60°C. Auto-ignition testing shall be carried out and a copy of the test report shall be provided for review. Piston or diaphragm type pressure switches are not acceptable. An electronic pressure switch shall continuously monitor line pressure; mechanically actuated pressure switches are not acceptable. There shall be two separate stages of pressure regulation to enable high peak flow rates without a reduction in line pressure. Multistage regulators combined into a single unit are not acceptable. The system shall be duplexed such that any single component failure will not affect the integrity of the medical gas supply. The manifold shall employ a fail-safe system in the event of power failure so that both bank isolation solenoid valves open and continuity of supply is assured. Upon restoration of the electrical supply, the original running bank shall return on line. All pressure regulators shall be protected from over-pressurization by relief valves that are vented to atmosphere. The line pressure relief valve shall be provided with easing gear. Two non-return valves, one for each bank, shall be provided within a line pressure manifold block and shall provide gas tight isolation and continuity of service in the event of any upstream component failure. The control panel shall be powered by an internal 24 V d.c. power supply. There shall be manual changeover button to provide simple selection of duty bank. The manifold control panel shall be provided with a lockable isolation valve to enable positive tamperproof isolation for maintenance. The automatic control panel shall be supplied fully assembled. The automatic manifold should have a selector switch for switching between banks for commissioning and servicing and an alarm latching switch to indicate bank changes. The heavy duty control panel should be provided with a flow capacity of 1500 LPM or more at 50 to 60 psi

### **1D. Supply, Installation, Testing and Commissioning of Oxygen flow meter with Humidifier Bottle:**

Back Pressure Compensated flow meter should be of accurate gas flow measurement with the following features and complies with CE or USFDA or UL approved. Control within a range of 0 - 15 LPM. It meets strict precision and durability standard. The flow meter body is made of brass chrome plated materials. The flow tube and shroud components are made of clear, impact resistant Polycarbonate/polysulfone. Inlet filters of stainless steel wire mesh to prevent entry of foreign particles. The humidifier bottle is made of unbreakable polycarbonate/ polysulfone material and autoclavable at 121<sup>0</sup> Centigrade temperature Should be supplied with suitable connector to match with oxygen outlets. *Humidifier Bottle should be covered under warranty & CMC.*

## **2. NITROUS OXIDE SYSTEM -**

### **2A. Supply, Installation, Testing and Commissioning of 2X4 Size Nitrous Oxide Manifold Supply System –**

The nitrous oxide manifold supply system shall consist of 4 cylinder manifold bank as left side and 4 cylinder manifold bank as right side complete with 8 nos. pig tail pipes and 8 nos. non return valves.

The permanently connected emergency reserve supply shall be brought into operation automatically via a non-return valve.

There shall be sufficient cylinder capacity within the emergency reserve supply to supply the average anticipated demand for a minimum of four hours.

The manifold system should conform to IS: 12827 standard.

## **2B. Supply, Installation, Testing and Commissioning of Nitrous Oxide Emergency Reserve Manifold 2x1 Cylinders**

The Nitrous Oxide Manifold Supply System shall consist of 1 cylinder manifold bank as left side and 1 cylinder manifold bank as right side complete with 2 nos. pig tail pipes and 2 nos. non return valves.

The emergency reserve manifold shall be designed and certified for use with nitrous oxide at 200 bar and 60°C.

A non-return valve shall be provided within a line pressure manifold block and shall provide gas tight isolation in the event of any upstream component failure.

The non-return valve shall automatically bring the emergency reserve manifold into service if the primary supply fail.

The emergency reserve manifold shall be provided with a lockable isolation valve to enable positive tamper-proof isolation for maintenance.

The manifold system should conform to IS:12827 standard.

## **2C, Supply, Installation, Testing and Commissioning of N2O Fully Automatic Changeover Control Panel of 500lpm (Imported)–:**

The fully automatic oxygen control panel should comply with HTM 02-01/NFPA 99C/DIN/EN/*ISO-7396-1 standards*. It should be European CE Certified or UL listed under Medical Devices Directive.

It shall be provided with a copy of the certificate of origin. The manifold control panel shall be designed and certified for use with nitrous oxide at 200 bar and 60°C. Auto-ignition testing shall be carried out and a copy of the test report shall be provided for review. Piston or diaphragm type pressure switches are not acceptable. Line pressure shall be continuously monitored by an electronic pressure switch; mechanically actuated pressure switches are not acceptable. There shall be two separate stages of pressure regulation to enable high peak flow rates without a reduction in line pressure. Multistage regulators combined into a single unit are not acceptable. The system shall be duplexed such that any single component failure will not affect the integrity of the medical gas supply. The manifold shall employ be a fail-safe system in the event of power failure so that both bank isolation solenoid valves open and continuity of supply is assured. Upon restoration of the electrical supply, the original running bank shall return on line. All pressure regulators shall be protected from over-pressurisation by relief valves that are vented to atmosphere. The line pressure relief valve shall be provided with easing gear. Two non-return valves, one for each bank, shall be provided within a line pressure manifold block and shall provide gas tight isolation and continuity of service in the event of any upstream component failure. The control panel shall be powered by an internal 24 V d.c. power supply. There shall be manual changeover button to provide simple selection of duty bank. The manifold control panel shall be provided with a lockable isolation valve to enable positive tamperproof isolation for maintenance. The automatic control panel

shall be supplied fully assembled. The automatic manifold should have a selector switch for switching between banks for commissioning and servicing and an alarm latching switch to indicate bank changes.

### **3. COMPRESSED AIR SYSTEM (Imported)–**

#### **3A. Supply, Installation, Testing and Commissioning of Quarterlaplex/Pentaplex 11 bar Medical Air Plant 5800 LPM (Package unit):**

It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE/UL approved product. It shall be provided with a copy of the certificate of origin. Plant should have EMC certificate

Medical Air Plant of 8.5bar for both 4bar Medical Air 4 Air supply and Surgical Air 7 Air supply. Quarterlaplex/Pentaplex SCREW compressors with duplex drier and filtration,

- 2 x 2500 liters capacity vertical air receiver as per BS 5169:1992
- 2 x air dryer.
- <74 dBA sound pressure level.
- 54mm OD pipe work.

Given MA4 is 100% flow rate requirement and SA7 is 66% flow rate support of the compressors.

Two/Three identical compressors screw air compressors should run as primary supply to provide free air delivery of 5800 lpm and the remaining two identical 5800lpm screw air compressors should be secondary supply. Medical quality air shall be delivered at a nominal pressure of 400 kPa (4 bar) or 700 kPa (7 bar) gauge for supply of the hospital medical air system. The medical air plant shall deliver both medical and surgical air, with a minimum total flow rate of 5800 l/min.

Compressors shall be directly driven by high efficiency electric motor. Two compressors shall be designated as standby, such that the specified volumetric flow is achieved with two compressors not running. The duty compressors shall be automatically rotated by the plant control system to ensure even wear. Compressors shall be supplied with a block and fin style after cooler with a dedicated quiet running fan to maximize cooling and efficiency. Each compressor shall be fitted with a multi-stage air/oil separator, capable of limiting oil carry over to a maximum of 3 ppm to minimize contamination and maintenance. Each desiccant dryer shall be provided with a dew point sensing switch that shall provide an alarm on the plant control panel and central hospital alarm system when the water concentration in the delivered air rises above  $-26^{\circ}\text{C}$  atmospheric dew point. A duplex desiccant dryer and filtration module shall be provided with three individual stages of filtration as follows:

Stage 1: Coalescing filter upstream of the desiccant dryer for removing liquid water, oil and oil aerosol down to 0.1mg/cu.m (0.1 ppm) and particles down to 1 micron.

Stage 2: Particulate filter after the desiccant dryer for dust protection, removing particles down to 1 micron.

Stage 3: Bacteria filter for removing particles down to 0.01 micron.

Total air receiver capacity shall be at least 50% of the plant capacity in 1 minute in terms of free air delivered at normal working pressure. Each air receiver shall be protected by a pressure relief valve, a

fusible plug and include a pressure gauge with isolating valve. The plant control and power management system shall monitor the safe operation of the plant, providing signaling into the alarm system as per the requirements of HTM/ NFPA.

**3B. Supply, Installation, Testing and Commissioning of Imported Duplex Pressure Reducing Station:** It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE approved/UL listed product.

Duplex Pressure Reducing Station (from reduction 1100KPA to 850KPA) ; 1no.

Duplex Pressure Reducing Station (from reduction 850KPA to 420KPA) : 1no.

Pressure relief valve, capable of passing the flow of the regulator will be installed downstream of the regulator. Isolation Valves - fitted upstream of the regulator and downstream of the pressure relief. Duplex pressure reducing station to have two branches, connected to the MGPS in parallel, in order to allow maintenance on the components of one branch while the gas flow is maintained in the other branch. Ball Valves - Full bore and operate from fully open to fully closed with a quarter turn of the handle. Complete pressure reducing station with base plate mounted for ease of installation. Padlocks available to allow locking of the valves in both open and closed positions and must have easy to read pressure gauges. Base plate mounted and supplied with copper stub pipes for ease of installation using inert jointing procedures.

#### **4. VACUUM SYSTEM (Imported)–**

**4A. Supply, Installation, Testing and Commissioning of Pentaplex Medical Vacuum Plant of 4100LPM (Package unit):**

It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE or UL approved product. It shall be provided with a copy of the certificate of origin. Plant should have EMC certified. Three identical vacuum pumps should be working and two standby and one reserve (third supply).

Comprising of Pentaplex rotary vane vacuum pumps (5 x 5.5 kw), 3 as duty and 2 as standby.

5 x 5.5 KW rotary vane vacuum pump base/floor mounted 1350 lpm flow rates of each pump).

2 x 2700 liters capacity vertical vacuum receiver tanks.

<77 dBA sound pressure level.

Medical Vacuum Plant should consist of 5 identical rotary vane vacuum pumps. Three identical vacuum pumps should run as primary supply to provide the full flow rate of 4100 l/min and the remaining two identical vacuum pumps should be secondary supply. Vacuum Plant shall comprise 5 Nos. 1350lpm flow rate capacity, air cooled, oil lubricated rotary vane vacuum pumps suitable for both continuous and frequent start / stop operation at inlet vacuum vessels between 525mm Hg and 700 mm Hg.

Vacuum pump inlets shall include a wire mesh filter and integral non-return valve to prevent oil suck back and pressure increases in the vacuum system. Each vacuum pump shall be fitted with anti-vibration pads between the pump foot and mounting frame. The plant shall be fitted with four equally sized bacteria filters arranged in two sets of two. Each individual filter shall have the capacity of deliver one third the design flow such that one filter can be isolated for maintenance whilst the plant is providing the

design flow rate. Bacteria filters shall have an efficiency at least 99.999%, utilizing particles in the 0.02 to 2 micron size range. Quadplex Bacteria filters shall be marked with the legend 'Bio-Hazard'. Each bacteria filter shall be provided with a transparent sterilisable collection jar to collect condensate. The total water capacity of the pressure vessels shall be at least 100% of the design flow rate of the plant in 1 minute in terms of free air aspired. The plant control and power management system shall monitor the safe operation of the plant, providing signaling into the alarm system as per the requirements of HTM/NFPA. Vacuum pump exhaust shall be piped out of the plant room and discharged outside the building at high level away from windows and any other air intakes.

#### **4B. Supply, Installation, Testing and Commissioning of Ward Vacuum Unit:**

Should be of light weight and compact.

The unit will consist of:

1. A regulator with 0 – 760 mm gauge
2. A 600 ml. reusable collection jar made of unbreakable polycarbonate / polysulfone material and fully autoclavable at 121 degree centigrade
3. A wall bracket for mounting the jar assembly on the wall. The vacuum regulator with instant ON / OFF switch should be infinitely adjustable and with vacuum gauge which will indicate suction supplied by the regulator. Safety trap must be provided inside the jar to safeguard the regulator from overflowing. It should be supplied with suitable connector to match with Vacuum outlets. It should comply with NFPA/HTM / EN / DIN standards. It should CE marked or UL Listed.

#### **4C. Supply, Installation, Testing and commissioning of Theater Vacuum Unit:**

It shall fully comply and meets with active medical device of class IIa and in compliance with the EN ISO 10079-3: 2009 standard. It should be duly CE marked/UL listed and comply with 93/42/EEC Medical Devices.

Vacuum Regulator : It should be continuous vacuum regulator, compact, strong and ergonomic device. It should have manual adjustment of the vacuum gauge from -45degree to +45degree for a better visibility. Vacuum gauge should be protected by a plastic housing. It should have on/off switch-button providing a quick restoration of the pre-adjusted vacuum level. It should have central regulation knob with a free rotation at the end of the course (impossible blocking). It should have quick adjustment :2.5turns are enough to reach the maximum vacuum level. It should have vacuum levels : 0-1000 mbar/hPa. The vacuum regulator should be 3-in-1 system. It should have a device with a metal outlet tubing nipple integrated in the body of the regulator for a better safety, emergency suction can even be processed. It should be supplied with a 100ml safety jar equipped with a mechanical anti-over flow safety valve and single use antibacterial plastic filter upfront. The safety jar should be made of polycarbonate, autoclavable up to 134degree C and unbreakable. The safety jar should be fixed by an easy-click rotation. The safety jar should be able to rotate to avoid any pinch of the tubing. Collection Jar of 2litres with lid : it should be unbreakable and auto-clavable upto 134° C must be fitted with an extremely simple anti overflow safety device, thereby ensuring easy maintenance. Should be totally transparent, they ensure perfect sucked liquid visibility.

#### **5. Supply, Installation, Testing and Commissioning of Anesthesia Gas Scavenging System (AGSS) (Imported) :**



**5A. Supply, Installation, Testing and Commissioning of Duplex AGSS System 1430lpm of 50Hz (Imported):**

It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE or UL approved product. Duplex AGSS System - Twin stand alone AGSS pumps of 3 phase 1430 l/min capacity each with built in flow indication and pressure regulation valve. Mounted on single frame with control panel and separate warning label. One pump will be standby with the other in operation. Nominal Motor Power Per Blower 3KW and will be single stage.

- 2" Pipe size and service connection 54mm OD pipe work.
- 24 volt control interface for controllers

The Package Consists :- Two oilless side channel blowers. One control panel with vacuum gauge and alarm indications.

AGSS Pump: Completely Dry, Permanently Lubricated, Sealed and Air Cooled Operation.

Control System: The duplex control system should conform to International Standards. The Control System - Provide automatic changeover from running to reserve with circuit breaker disconnects for each AGSS pump with external operators, Full Voltage Motor Starters with overload protection, Control Circuit Transformers, Visual Reserve Unit Alarm, Isolated Contacts for Remote Alarm. Duplex Format, Chassis Mounted. Duplex system in-line non-return valves to allow individual pump servicing. Active anesthetic gas scavenging systems - Designed to safely remove exhaled anesthetic agents from the operating environment and dispose of them to atmosphere, thus preventing contamination of the operating department and providing a safe and healthy workspace for the personal.

**5B. (Imported) AGSS Plastic Remote Indicator :** It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE approved/UL listed product. It shall be provided with a copy of the certificate of origin. It should be flush mounted, white ABS 24 volt on/off room controller indicating 'red' plant failed, 'amber' duty pump failed and 'green' mains airflow on.

**5C. (Imported) AGSS Reservoir**

It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE or UL approved product. The AGSS Receiver is the practical solution for waste anaesthetic gas discharges and is designed as an integral part of any waste anaesthetic gas system. The receiver comes complete with a transfer system, outlet hose assembly, and user instructions, making it ready for immediate use.

Transfer system- connects to the patient circuit or anaesthetic machine and comprises a 1.5 metre length of 30 mm clear disposable tube with a male 30 mm taper for connection to the side of the receiver, and a 30 mm female tapered breathing circuit connector. It should have air break which prevents suction from the disposal system being transferred to the patient -flow indicator. Under normal operating conditions the indicator should be visible. -gauze filter built into the top of the vessel to prevent gown fluff and other solid material from reaching and blocking the fixed extraction system.

Receiver vessel for active anaesthetic gas scavenging systems body - anodised aluminium, powder coated  
Collar and Cap - anodised aluminium Indicator Window - clear acrylic Indicator Float - low density polyethylene.

It should have flow indicator: Float lifts at approximately 70 L/min, and is visible at approximately 80 L/min

**5D. Imported AGSS outlet hose assembly:** It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE approved/UL listed product. It shall be provided with a copy of the certificate of origin. It conducts the waste gases to the fixed system outlet point and comprises a 4 metre length of reinforced clear tube (colour coded yellow and blue as per the standard). This is fixed to the top of the vessel allowing the tube unimpaired 360o motion to reduce strain on the unit, and tube occlusion. The other end of the tube terminates in an AGSS probe.

## **6. Supply, Installation, Testing and Commissioning of BSi Kite Mark Medical Grade Copper Pipe:**

The piped distribution system shall use copper pipes manufactured from phosphorous de-oxidised non-arsenical copper to BS EN 1412:1996 grade CW024A (Cu-DHP), manufactured to metric outside diameters and having mechanical properties in accordance with BS EN 13348:2008 in either R250 (half hard) or R290 (hard). It should be BSi Kite Mark Certified.

Degreasing of pipe shall be such that there is less than 20mg/m<sup>2</sup> (0.002mg/cm<sup>2</sup>) of hydrocarbons on the degreased surface when tested by the method specified BS EN 13348:2008.

### **6.2 Installation & testing**

Installation of piping shall be carried out with utmost cleanliness. Only pipes, fittings and valves that have been degreased and fittings shall be used at site. Pipe fixing clamps shall be of nonferrous or non-deteriorating plastic suitable for the diameter of the pipe.

Inert gas welding technique should be used by passing oxygen Free Nitrogen Gas inside the copper pipes during silver brazing, in order to avoid carbon deposition inside the copper pipes. Only copper-to-copper joints are permitted on site except threaded or flanged joints may be made where pipelines are connected to items such as valves and control equipment. No flux shall be used for joining Copper to Copper joints and on for joints made on site. Copper to copper joints shall be brazed using a 5% silver-copper phosphorous brazing alloy CP104. A total of 5 joints shall be cut out for examination to establish the quality of the joints being made on site. The insides shall be clean and free from oxides and particulate matter and the minimum penetration of the brazing alloy at any point shall be three times the wall thickness of the tube. If the joints examined do not conform to these requirements, then adjacent joints shall be cut out and examined until the extent of faulty workmanship has been made good. Copper-to-brass or gunmetal joints shall only be made under controlled conditions off site. The joints are ordinarily used to join short copper pipe tails to brass, gunmetal or bronze fittings to permit their connection into the pipeline. The sub-assemblies shall be degreased and individually sealed in bags or boxes before delivery to site.

Adequate supports should be provided while laying pipelines to ensure that the pipes do not sag. Suitable sleeves shall be provided wherever pipes cross through walls / slabs. All pipe clamps shall be non-reactive to copper.

After erection, the pipes are to be flushed with dry nitrogen gas and then pressure tested with dry nitrogen at a pressure equal to twice the working pressure or 150 psig, whichever is higher for a period of not less than 24 hours.

*Length and quantity of individual items (Copper pipes, AVSUs, Alarm panels, Isolation valves, Outlets, pendants etc.) are mentioned. However quantity will be calculated and paid at actuals. Bidder should quote unit price for all the items as detailed*

### 6.3 Painting

All exposed pipes should be painted with two coats of synthetic enamel paint and colour codification should be as per British standards.

Oxygen line.....White

Vacuum line....Yellow

Air line..... Black with white band

Nitrous Oxide....Blue

Outside Diameter (mm)	Maximum interval between supports (Horizontal and Vertical)..(m)
12	1.5
15	1.5
22	2.0
28	2.0
35	2.5
42	2.5
54	2.5
76	3.0
108	3.0

### 7. Supply, Installation, Testing and Commissioning of Area Valve Service Unit with NIST:

Area Valve Service Unit (Single Service Unit separate for each services) (Oxygen/N2O/MA4 Air/SA7/Vacuum). It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It shall be UL Listed or CE marked. It shall be provided with a copy of the certificate of origin.. The Area Valve Service Unit (AVSU) should incorporate a ball valve with NIST connectors either side, mounted in a lockable box with emergency access. The valve should be complete with copper stub pipes that extend to the outside of the box to enable easy connections to the Medical Gas Pipeline System (MGPS). The valve should operate from fully closed to fully open with a quarter turn of the handle. The spades should be injection molded and color coded to show through or blank identification. Should be full bore valves for minimum pressure loss and should have lockable in open or closed position. The Lockable Line Values shall comprise full-bore ball valve complete with copper stub pipes for ease of installation.

The values shall be connected to the copper stub pipes by means of flat faced unions fitted with nitrile O-ring seals, allowing removal of the valve without the need to distort the pipe work. Stub pipes for values up to 54 mm will be

connected to the valve body using screwed connectors, whilst valve above this size will use flanged connectors. The valve will have a brass body, end cap and stem, with a full bore chrome plated brass ball. The valve shall operate from fully closed to fully open with a quarter turn of the handle. All line valves will be supplied with a mechanism to enable the unit to be locked in the fully closed or fully open position. The stub pipes should have the appropriate coded NIST connectors fitted each side of the valve. The NIST check valves should have a metal seal, thus avoiding the possibility of digression over time. The valve box should have a universal back plate for first fix mounting and an injection molded, cover which fits over the installed valve. A color coded service identity label will be fitted behind the valve handle. The door should also be injection molded and will be common for all services. The door should incorporate a 'Break Glass' window or an optional quick release mechanism for emergency access to the valve. Should be reliable and easy to operate and must have NIST connectors facilitate easy purge, sample and pressure testing, and emergency, supply system. Should be easy site installation with pre-fitted stub pipes. All break access glass should be approved safety glass and not float glass as per HTM 02-01. The valve should have break glass emergency access fitted as standard. Should have optional quick release emergency access system. The Area Valve Service Unit (AVSU) should incorporate a ball valve with NIST connectors either side, mounted in a lockable box with emergency access. The valve should be complete with copper stub pipes that extend to the outside of the box to enable easy connections to the Medical Gas Pipeline System (MGPS).

### **8. Supply, Installation, Testing and Commissioning of Bed Head Panel: CE Marked/UL Listed.**

It should be made of extruded anodized aluminum. Separate ducts for gas pipe line and electrical with in built double aluminum rail. It should have 2 channels. It should be easy to open from top for servicing.

Horizontal Bed Head Panels TYPE-1 (1500MM SIZE) 02 = 1 & VAC = 1 AND 4NOS. ELECTRIC SWITCH & SOCKET FOR REGULAR SUPPLY and RJ-45=1,

Horizontal Bed Head Panels TYPE-2 (1500MM SIZE) 02 = 1, MA4=1 & VAC = 1 AND 4NOS. ELECTRIC SWITCH & SOCKET FOR REGULAR SUPPLY and RJ-45=1,

Horizontal Bed Head Panels TYPE-3 (1500MM SIZE) 02 = 2, MA4=2 & VAC = 2 AND 8 NOS. ELECTRIC SWITCH & SOCKET FOR REGULAR SUPPLY and RJ-45=1,

### **9. Supply, Installation, Testing and Commissioning of Imported Medical Gas Area Line Pressure Alarm:**

It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE approved product. It shall be provided with a copy of the certificate of origin. It should have anti microbial coating labels for touch control. It should be capable of monitoring up to 6 gas services by means of pressure sensors that detect deviations from the normal operating limits. The cover, backbox and bezel (if required) shall be polyester powder. A single tamperproof fastener shall be used to gain access to the hinged door. The hinge shall operate through a minimum of 120° to provide adequate access. It should have each gas service shall be displayed by coloured LED's to show 'Normal' (green), 'Low' and 'High' pressure (red) conditions. Medical vacuum systems shall be displayed in the 'Normal' (green) and 'Low' vacuum (red) conditions. Failure indicators shall be displayed by flashing lights and normal indications shall be steady. Each LED block indicator shall be a plug-in component with individual long life LED's connected in parallel in two banks to provide duplex circuits. An audible warning shall sound simultaneously with any failure indication and a mute facility shall be provided. Following a mute selection the audible will resound after approximately 15 minutes, or shall operate simultaneously should a further alarm condition occur. A "Mute" switch shall be provided inside the panel for use during any maintenance resulting in prolonged pipeline or plant shutdown. This facility shall automatically reset when the gas service returns to normal. The alarm panel shall have a 'Test' facility to prove the integrity of the internal circuits, LED's and audible warning. The alarm panel shall incorporate a volt free normally closed relay to allow for interconnection to either a medical gas central alarm system or an event recording circuit of a building management system. Each alarm shall provide a green LED to indicate that electrical power is available at the panel and a red LED to indicate 'System Alarm'. In the event of an electrical power supply failure the 'System Alarm' LED shall illuminate (flashing) and the audible warning shall be delayed for 30

seconds to enable standby generator tests. Line continuity monitoring circuits shall be provided to constantly monitor the integrity of the input sensors and interconnecting wiring. In the event of any fault the line continuity monitoring circuits shall initiate the specific gas service failure indication, a 'System Alarm' indication and an audible warning. Further aids to fault diagnosis shall be provided by means of varying flashing rates whilst operating the 'Test' switch. A simple data connection shall be provided to allow connection of up to 5 repeater panels, enabling the visual and audible alarm signals to be repeated at other locations within a department.

It should be connected through Pressure and Vacuum Switches: Pressure and vacuum switches shall be manufactured with brass wetted parts and house a PCBA with line continuity monitoring resistors. Electrical connectors shall be designed for frequent disassembly. Spade connectors are not acceptable. Pressure switches shall include both high and low pressure settings in the same switch, using only a single ¼" BSPP threaded pipeline connection to minimise the number of sealed joints. The body and housing of the pressure switch shall be manufactured from impact resistance, rigid and inherently corrosion proof materials. Coating or plating of mild steel is not acceptable. Pressure switches shall connect directly to the area alarm panel. It is not acceptable to fit a separate connection box to convert switch signals to a data signal.

#### **10. Supply, Installation, Testing and Commissioning of Imported Master Alarm Panel**

It should fully comply and meet with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) or NFPA-99C. It should be CE approved/UL listed product. It should have anti microbial coating labels for touch control. The Central Alarm should be flexible, customisable medical gas central alarm system, capable of carrying up to fifteen gas services and can consist of up to thirty two panels. The medical gas central alarm shall fully comply with the requirements of HTM /NFPA and BS EN ISO 7396-1. The cover, back box and bezel shall be finished in a polyester powder coat. A single tamperproof fastener shall be used to gain access to the hinged door. The hinge shall operate through to provide adequate access.

The Configuration of the Medical Gas Central Alarm panels shall be done via switches within the panel, allowing easy and flexible configuration. Each panel shall display and/or input up to five gas services or up to twenty point alarms. Each gas service shall consist of a bank of five dual circuit LED indicators, one green (for a 'Normal' indication) and three yellow and one red (for four input conditions) as standard, although panels shall be customisable for individual requirements. The gas service inputs shall be connected to a five way connector block. The alarm shall monitor the cable connection from the source equipment, and provide a fault alarm in the event of a short circuit or open circuit fault. This shall be distinguishable from a source equipment fault. There shall be a test facility to check the integrity of all the LED indicators on the panel, and the audible alarm. The test facility shall also provide diagnostic information to aid in fault finding. An adjustable volume audible alarm shall be fitted to the panel to allow installation in all environments, and there shall be a facility to connect the alarm to a remote sounding unit to repeat the audible alarm at other locations, for example a nurse base at the other end of a ward. There shall be a mute facility which silences the audible alarm for a period of fifteen minutes, or until another alarm condition occurs. There shall be a selectable option to indicate to other repeater panels around the system that an alarm condition has been acknowledged and appropriate action is being taken. A volt-free contact shall be provided to output normal/fault status for the panel. It should be wired on to a dedicated data transmission cable and shall be permanently connected to the "Essential Supply" within the hospital via a 3A fused spur. Each gas service will display a green 'Normal' indication when all four conditions are not in a fault condition. When an input condition faults, the respective LED shall indicate the type of failure. Any data communication errors shall cause a 'System Fault' alarm. A rechargeable battery shall provide a 'System Fault' alarm in the event of a power failure. Source equipment shall connect directly to the input alarm panel. It is not acceptable to install a separate connection box to convert switch signals to a data signal.

#### **11. Supply, Installation, Testing and Commissioning of Imported Lockable Line Valve Assemblies:**

It should fully comply and meet with the requirements of the HTM or NFPA. It should be CE approved/UL listed product. Lockable line valves and should comprise full-bore ball valve complete with copper stub pipes for ease of installation. Valve - connected to the copper stub pipes by means of flat faced unions fitted with nitrile O-ring

seals, allowing removal of the valve without the need to distort the pipe work. Stub pipes for valve up to 54 mm will be connected to the valve body using screwed connectors, while valve above this size will use flanged connectors.

Valve - Brass body, end cap and stem, with a full – bore chrome plated brass ball.

Valve - Operate from fully closed to fully open with a quarter turn of the handle.

All line valves - Supplied with a mechanism to enable the unit to be locked in the fully closed or fully open position. Supplied with copper stub pipes for ease of installation using inert gas jointing procedures. O-Ring Seals on the valve stub allow gas tight capping at a spur for further expression. Available with gas specific NIST connectors including check valves one or both stub pipes.

### **12. Supply, Installation, Testing and Commissioning of Imported Medical Gas Terminal Units (Gas Outlet Points)**

It should fully comply and meet with the requirements of the HTM or NFPA. It should be CE approved/UL listed product. Terminal units shall have gas indexing geometry to BS 5682:1998. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal units socket castings shall be permanently coated with a low friction fluoropolymer for maximum reliability and service life. The terminal unit socket die-casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the gas identity marking permanently stamped or cast into the component surface. The first fix shall be all metal construction, with a brass base block and copper stub pipe. The first fix shall incorporate an integral check valve to enable servicing of the second fix and valve seals without isolation of the gas supply. Probe roller pins shall be manufactured from stainless steel. Wall mounted terminal units shall be provided with white ABS mounting box with matching fascia. The mounting box shall have smooth rounded corners to avoid the possibility of injury. A bezel shall be available to cover the plaster edge, provide a neat and easily to clean finish.

### **13. Supply, Installation, Testing and Commissioning of Imported Medical Gas Hose Assemblies**

Medical gas hose assemblies shall comply with BS EN ISO 5359

PVC hoses and hoses containing phthalates are not acceptable.

Hoses shall be color coded throughout their length as specified in BS EN 5359 as follows:

Medical oxygen - white

Nitrous oxide - blue

Medical and surgical air - black & white

Vacuum - yellow

All hoses shall incorporate an anti-static inner core. Hose shall be permanently secured to all fittings with stainless steel crimped ferrules, and shall incorporate a window to enable verification that the hose is fully secured onto the hose barb.

### **14. Supply, Installation of Electrical Wiring inside the gas manifold and plant room**

Hospital will terminate required 3 phase at a point in the manifold room. All other work has to be provided by the supplier, Cable with distribution board inside the plant room. Electric cable with fixtures and fittings for

manifold room. All switch-gear and motor control centre e.g. switches statement etc. volt and ampere meters. Contactors shall be of reputed make e.g. L&T, Siemens, GEC or English Electric. All switch gear motor etc. shall be of the same make for interchangeability. All electrical equipment shall be earthed in an approved manner as per I.E.E. rules and acceptable to the local authority. Earthing station shall be provided. No medical gases pipe shall be used for electrical earthing. Entire installation shall be done taking care to follow all safety regulations for electrical installation of piped medical gases system. Two main supply of the required KW up to the electrical control panel. The wiring after the control panel has to be provided by the supplier as per IEE regulations. Following material must be inside the plant room. 1.Cables , 2.G.I Earth Wire, 3.Saddling, 3a.Thumbling,4.Gland, 5.Control Cable.

**15. Supply, Installation of Electrical Control Panel with phase preventer for vacuum air and air plant.**

**16. Supply, Installation of Electrical wiring for AGSS from each OT to AGSS Pump.**

**17. Supply, Installation of electrical panel for oxygen generation plant.**

**18. Supply, Installation of Servo stabilizer for oxygen generation plant.**

**19. Civil Construction of Gas Manifold & Plant Room.**

<b>Medical Gas Pipe Line System BOQ and Estimated with Oxygen Generation Plant.</b>			
<b>S. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>
	All Medical Gas Pipe Line Products should fully complies and meets with the requirements of the Health Technical Memorandum 02-01, C11 standards of Department of Health of UK OR NFPA-99C. It should be UL Listed or duly CE marked and comply with 93/42/EEC Medical Devices.		
<b>1</b>	<b>Oxygen system fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
*	<b>Imported Oxygen Generation/Concertrator Plant complete as per specifications</b>	set	1
a	12+12 size manifold with 24 No. pig tail pipe & 24No. non return valves. CE Marked.	Set	1
b	2 x 4 size Cylinder emergency oxygen manifold system. CE Marked.	Set	1
c	Imported Fully automatic oxygen control panel 1500lpm at 60 PSI pressure.	No.	1
d	Imported Oxygen terminal unit.	No.	348
e	Oxygen flow meter with humidifier bottle. CE Marked.	No.	348
f	Imported Oxygen HP antistatic tube, white	Meters	400
<b>2</b>	<b>Nitrous oxide system (fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
a	2+2 size manifold system for Nitrous oxide with 4 No. pig tail pipes with 4 No. non return valves. CE Marked.	Set	1
b	1x2 size cylinder emergency N2O manifold system with 2 No. tail pipe and 4 Nos. non return valves. CE Marked.	Set	1

c	Imported Fully automatic N2O control panel 500lpm at 60 psi pressure with heater system.	No.	1
d	Imported Nitrous oxide terminal unit	No.	9
e	Imported N2O H.P. tube with antistatic core, French blue.	Meter	50
<b>3</b>	<b>Imported Medical Air System (fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
a	Medical Air Plant 50 Hz Quarterlaplex 11 bar (Package unit) 5800 LPM. • 4 x 22KW each screw air compressor base frame mounted. Two identical air compressors working to produce 5800lpm and 2 identical as stand by. • 3 x 1500 liters capacity vertical air receiver as per BS 5169:1992. • 2 x air dryer. • <74 dBA sound pressure level.	Set 1	1
b	Imported Duplex Pressure Reducing Station	Set	2
c	Imported Terminal unit (Gas outlet points)		
	MA4	No.	134
	SA7	No.	9
d	H.P. antistatic tube black	Meters	200
<b>4</b>	<b>Imported Medical Vacuum Plant fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
a	Pentaplex Medical Vacuum Plant of 4100LPM (Package unit): Comprising of Pentaplex rotary vane vacuum pumps (5 x 5.5 kw), 3 as duty and 2 as standby. 5 x 5.5 KW rotary vane vacuum pump base/floor mounted 1350lpm flow rates of each pump). 2 x 2700 liters capacity vertical vacuum receiver tanks. <77 dBA sound pressure level.	Set 1	1
b	Imported Vacuum terminal units (outlets)	No.	348
c	Ward Vacuum unit. CE Marked	No.	348
d	Imported Theatre vacuum unit	No.	4
e	Imported H.P. antistatic tube (Yellow).	Meters	500
<b>5</b>	<b>Imported AGSS system (fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
a	Imported AGSS (Duplex) plant 1430lpm.	set	1
b	Imported AGSS outlets	No.	9
c	Imported AGSS hose assembly	No.	9
d	Imported AGSS remote indicator	No.	9
<b>6</b>	<b>Medical Grade Bsi Kite Mark Certified BS EN 13348:2008 complies Copper pipe (Outer Diameter Thickness)</b>		
a	12mm OD x 0.6mm thk	Mtr	2195
b	15mm OD x 0.7mm thk	Mtr	7900
c	22mm OD x 0.9mm thk	Mtr	8100
d	28mm OD x 0.9mm thk	Mtr	2500



e	42mm OD x 1.2mm thk	Mtr	1350
f	54mm OD x 1.2mm thk	Mtr	1250
g	76mm OD x 1.5mm thk	Mtr	450
<b>7</b>	<b>Bed Head Panel . CE Marked</b>		
a	Horizontal Bed Head Panels TYPE-1 (1500MM SIZE) 02 = 1 & VAC = 1 AND 4NOS. ELECTRIC SWITCH & SOCKET FOR REGULAR SUPPLY, RJ-45=1,	No.	33
b	Horizontal Bed Head Panels TYPE-2 (1500MM SIZE) 02 = 1,MA4=1 & VAC = 1 AND 4NOS. ELECTRIC SWITCH & SOCKET FOR REGULAR SUPPLY, RJ-45=1,	No.	63
c	Horizontal Bed Head Panels TYPE-3 (1500MM SIZE) 02 = 2,MA4=2 & VAC = 2 AND 8 NOS. ELECTRIC SWITCH & SOCKET FOR REGULAR SUPPLY, RJ-45=1,	No.	18
<b>8</b>	<b>Imported Medical Gas Area Line Pressure Alarms (fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
a	2 Gases (1 Gas+1 Vac)	No.	18
b	3 Gases (2Gas+ 1 Vac)	No.	12
c	5 Gases (4Gas + 1 Vac)	No.	5
<b>9</b>	<b>Imported Master Alarm for Gas Plant Room (fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>	Set	1
<b>10</b>	<b>IMPORTED SINGLE SERVICE AREA VALVE UNIT. (fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
a	AREA VALVE SERVICE UNIT FOR OXYGEN	Nos.	37
b	AREA VALVE SERVICE UNIT FOR NITROUS	Nos.	5
c	AREA VALVE SERVICE UNIT FOR MEDICAL AIR	Nos.	18
d	AREA VALVE SERVICE UNIT FOR SURGICAL AIR	Nos.	5
e	AREA VALVE SERVICE UNIT FOR VACUUM	Nos.	36
<b>11</b>	<b>Imported Line Lockable Valves (fully complies and meets with the requirements of NFPA-99C, UL Listed and HTM 02-01,C11 standards )</b>		
a	15mm	Mtr	60
b	22mm	Mtr	40
c	28mm	Mtr	30
d	42mm	Mtr	25
e	54mm	Mtr	16
f	76mm	Mtr	4

12	Electrical Wiring inside Gas manifold and plant room : Hospital will provide single phase and 3 phase electrical supply with cable at one source in the plant room	Set	1
13	Electrical Wiring inside Oxygen Generation Plant room : Hospital will provide single phase and 3 phase electrical supply with cable at one source in the Oxygen Generation Plant room	Set	1
14	AGSS Wiring from each OT to AGSS pump room	Set	1
15	Electrical control panel for vacuum and air plant	Set	1
16	Electrical control panel for oxygen generation plant	Set	1
17	Servo Stabilizer for Oxygen Generation Plant	Set	1
18	Construction of Oxygen Generation Plant Room	Set	1
19	Construction of Gas Manifold and Vacuum & Air Plant	set	1

**LIST OF OUTLET + DESIGN SCHEME**

S.NO.	FLOOR	LOCATION	OXYGEN	NITROUS	MEDICAL AIR	SURGICAL AIR	VACUUM	AGSS	FLOW METER	WARD VACUUM	THEATRE VACUUM	Horizontal Bed Head Panels TYPE -1 (1500 MM SIZE) 02 = 1 & VAC = 1 AND 4NOS . ELEC TRIC SWIT CH & SOC KET FOR REG ULA R SUPP LY, RJ-45=1,	Horizontal Bed Head Panels TYPE -2 (1500 MM SIZE) 02 = 1,MA 4=1 & VAC = 1 AND 4NOS . ELEC TRIC SWIT CH & SOC KET FOR REG ULA R SUPP LY, RJ-45=1,	Horizontal Bed Head Panels TYPE -3 (1800 MM SIZE) 02 = 2,MA 4=2 & VAC = 1 AND 8 NOS. ELEC TRIC SWIT CH & SOC KET FOR REG ULA R SUPP LY, RJ-45=1,	SINGLE SERVICE AREA VALVE UNIT FOR O2	SINGLE SERVICE AREA VALVE UNIT FOR N2O	SINGLE SERVICE AREA VALVE UNIT FOR MA4	SINGLE SERVICE AREA VALVE UNIT FOR SA7	SINGLE SERVICE AREA VALVE UNIT FOR VAC	AREA ALARM 2 GASES = 1 GAS + VAC 1	AREA ALARM 3 GASES = 2 GAS + VAC -1	AREA ALARM 5 GASES = 4 GAS + VAC -1	MAIN MASTER ALARM	
1	GROUND	GAS MANIFOLD & PLANTROOM TEST POINTS	1	1	1	1	1	1	1	1				1	1	1	1	1	1				1	
2		1 X 10 BEDDED ICU	20		20		20		10	10				10	1		1		1		1		1	
3		1 X ICCU	2		2		2		1	1				1	1		1		1		1		1	
4		1 X 7 BEDDED DIALYSIS UNIT	7		7		7		7	7				7	1		1		1		1		1	
5		1 X 28 BEDDED FEMALE WARD	14				14		14	14					1					1	1			
6		1 X 42 BEDDED MALE MEDICAL WARD	21				21		21	21					1					1	1			
7		1 X 30 BEDDED GENERAL LABOUR WARD	15				15		15	15					1					1	1			
8		1 X EMERGENCY ROOM	1		1		1		1	1					1					1	1			
9		1 X OBSERVATION ROOM	1				1		1	1					1					1	1			
10		1 X LABOUR ROOM	1				1		1	1					1					1	1			
11	1 X PP OT	4	2	2	2	4	2			1				1	1	1	1	1	1			1		

1 2	1 X BABY RESUSCIATION ROOM	1			1															
1 3	1 X 8 BEDDED POST OP WARD	8	8	8	8	8			8			1	1	1	1					
1 4	1 X 30 BEDDED FEMALE SURGICAL WARD (1 EMER)	1 6	1	1 6	1 6	1 6			1			1		1	1					
1 5	1 X 8 BEDDED EMERGENCY	8	8	8	8	8			8			1	1	1	1					
1 6	6 X SINGLE BEDDED NURSING HOME	6		6	6	6			5			1			1	1				
1 8	5 X SPECIAL WARD	5		5	5	5			5			1			1	1				
1 9	1 X 6 BEDDED BURNING WARD	6	6	6	6	6						1	1	1	1					
	1X31 PSYCHIATRY WARD	1 6		1 6	1 6	1 6						1			1					
	1X10 BEDED BURN WARD MALE	5		5	5	5														
	1X10 BEDED BURN WARD FEMALE	5		5	5	5														
	1X10 BEDED ISOLATION WARD	5		5	5	5						1			1					
1 9	1 X PICU	2	2	2	1	1					1	1	1	1	1					
2 0	1 X 27 BEDDED WARD	1 4		1 4	1 4	1 4						1			1	1				
2 1	1 X 2 BEDDED EMERGENCY ROOM	2	2	2	2	2						1	1	1	1					
2 2	1 X 2 BEDDED TREATMENT ROOM	2		2	2	2														
2 3	1 X 15 BEDDED NICU	3 0	3 0	3 0	1 5	1 5			15			1	1	1	1					
2 4	1 X 9 BEDDED MOTHERCHILD ROOM	9		9	9	9			9			1			1	1				
2 5	1 X 32 BEDDED MALE SURGICAL WARD (2 EMER)	1 7	2	1 7	1 7	1 7			2			1			1	1				
2 6	1 X 2 BEDDED EMERGENCY ROOM	2	2	2	2	2						1	1	1	1					
2 7	3 X OT	9	6	6	6	9	6		3			4	3	4	3	4				4
2 8	1 X 6 BEDDED PRE OP & POST OP	6	6	6	6	6			6			1	1	1	1					
2 9	1 X 6 BEDDED ICU	1 2	1 2	1 2	6	6					6	1	1	1	1					
3 0	1 X 30 BEDDED FEMALE SURGICAL WARD (4 EMER)	1 7	4	1 7	1 7	1 7			4			1			1	1				

3 1	1 X 30 BEDDED MALE ORTHO WARD (4 EMER)	1 7		4		1 7		1 7	1 7			4		1				1	1				
3 2	1 X 32 BEDDED MALE SURGICAL WARD (4 EMER)	1 8		4		1 8		1 8	1 8			4		1				1	1				
3 3	9 X NURSHING HOME ROOM	9				9		9	9			9		1				1	1				
3 4	5 X SPECIAL ROOM	5				5		5	5			5		1				1	1				
3 5	1 X 44 BEDDED MALE WARD	2 2				2 2		2 2	2 2					1				1	1				
3 6	1 X 32 BEDDED MALE SURGICAL (4 EMER)	1 8		4		1 8		1 8	1 8			4		1				1	1				
	1X26 BEDED TB & CHEST	1 3				1 3		1 3	1 3					1				1					
	<b>AS PER DWG. TOTAL =</b>	<b>3 9 2</b>	<b>9</b>	<b>1 3 4</b>	<b>9</b>	<b>3 9 2</b>	<b>9</b>	<b>3 4 5</b>	<b>3 4 5</b>	<b>4</b>	<b>33</b>	<b>63</b>	<b>18</b>	<b>3 9</b>	<b>5</b>	<b>1 8</b>	<b>5</b>	<b>3 9</b>	<b>1 8</b>	<b>1 2</b>	<b>5</b>	<b>1</b>	

## **Operation and Maintenance of Medical Gas system at G. B. Pant Hospital, Port Blair**

### **Scope of the work**

The primary objective of the bidder is to ensure safe and reliable MGPSs and their efficient Operation and use as per **HTM2022 PART B** standards. Bidder will be responsible for operational management and maintenance of

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

Staff responsible for plant operation should be aware of the activities necessary to ensure the continued safe operation of the system and what action should be taken in an emergency. The authorised person (MGPS) in particular should take a lead in explaining to users the function of the system and will have to be adequately trained and informed about the system. Operator will be responsible for safe cylinder handling, storage and transportation. Any work involving alterations, extensions or maintenance work on the system should be subject to the permit-to-work procedure as **per HTM standards.**

### **Operation of Medical Gas**

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

Sl. No.	Designation	Shift-1 6AM-2 PM	Shift-2 2-10 PM	Shift-3 10PM- 6AM	General Shift 8-4 PM	Leave Substitu tes	Total
1.	Supervisor (Diploma in Mechanical/Electrical) With 5 years Experience in installation maintenance & operation of MGPS				1		1
2.	Medical Gas Technicians (Diploma in Mechanical/Electrical) With 3 year Experience in installation, maintenance & operation of MGPS				3		3
3	Plant operator (SSLC with minimum 4 years experience or ITI with electrical/fitting/plumbing ) With Experience in installation maintenance & operation of MGPS	4	3	2		3	12
4	Helpers (8 <sup>th</sup> Standard or more) with minimum 6 years experience in installation, maintenance & operation of MGPS	4	3	2		3	12
	<b>Salary-per month</b>  Supervisor-20000 Medical gas technician-14000 Plant operator-10000-11000 Helpers-7000-8000						

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

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

#### Operational Policy

Refer Section: 5, **HTM 2022 Part B** (operational Management)

### Operational Procedures

Refer Section: 6, **HTM 2022 Part B** (operational Management)

- Permit to work procedure
- Test of work on MGPS
- Procedure for cleaning & contamination of vacuum systems

### Training & Communication

Refer Section: 7, **HTM 2022 Part B** (operational Management)

### Cylinder Management

Refer Section: 8, **HTM 2022 Part B** (operational Management)

### External safety and Fire Precautions

Refer Section: 9, **HTM 2022 Part B**

### Maintenance

Refer Section: 10, **HTM 2022 Part B**

- For
- : Organization
  - : General Work Procedures
  - : Competency of Contractor's staff
  - : Test equipment
  - : Records
  - : Emergency callout procedures
  - : Responsibility of the user to monitor the services
  - : Specific maintenance checks
  - : Medical Vacuum Bacterial filter change
  - : Schedule of Maintenance service
  - : General safety requirements

### Routine Activity

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

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

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

- Inspection of working
- Checking for leakage
- Checking inlet and outlet pressure



- Checking the change over
- Loading the cylinder as required
- Replacement of defective parts
- Notifying breakdown
- Logging details

### **3) Compressed Air**

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

### **4) Medical Vacuum system**

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

### **5) Medical Gas Lines**

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

### **6) Bedhead Panels, Gas outlets, Pendants**

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

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**GENERAL TECHNICAL SPECIFICATIONS****GENERAL POINTS:**

## 1. Warranty:

- a) Five years Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) from the date of installation, commissioning and Turnkey Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
- b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
- c) All software updates should be provided free of cost during Warranty period.

## 2. After Sales Service:

After sales service centre should be available at the city of Hospital/Institution/Medical College on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 8 hrs. The service should be provided directly by Tenderer/Indian Agent. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply.

## 3. Training:

On Site training to Doctors/ Technicians/ staff is to be provided by Principal/ Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the consignee.

## 4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Turnkey:

- a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) and Turnkey (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period
- b) The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- c) Cost of CMC will be added for Ranking/Evaluation purpose. The same will be taken at Net Present Value with a 10% discounting factor each year.
- d) The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.
- e) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- g) All software updates should be provided free of cost during CMC.
- h) Failure of the above [4. e) to 4. g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
- i) The payment of CMC will be made as stipulated in GCC Clause 21.

***Turnkey:***

Turnkey is indicated in the technical specification of the respective items, wherever required. The Tenderer shall examine the existing site where the equipment is to be installed, in consultation with HOD of Hospital/Institution/Medical College concerned. Turnkey details of each Hospital/Institution/Medical College are given at the end of Technical Specification. The Tenderer to quote prices indicating break-up of prices of the Machine and Turnkey Job of each Hospital/Institution/Medical College. The Turnkey costs may be quoted in Indian Rupee will be added for Ranking Purpose.

The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

The Turnkey Work should completely comply with AERB requirement, wherever applicable.

## **Section – VIII**

### **Quality Control Requirements**

(Proforma for equipment and quality control employed by the manufacturer(s))

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

- 01 Name of the manufacturer
  - a. full postal address
  - b. full address of the premises
  - c. telegraphic address
  - d. telex number
  - e. telephone number
  - f. fax number
  
- 02 Plant and machinery details
- 03 Manufacturing process details
- 04 Monthly (single shift) production capacity of goods quoted for
  - a. normal
  - b. maximum
  
- 05 Total annual turn-over (value in Rupees)
- 06 Quality control arrangement details
  - a. for incoming materials and bought-out components
  - b. for process control
  - c. for final product evaluation
- 07 Test certificate held
  - a. . type test
  - b. . BIS/ISO certification
  - c. . any other
- 08 Details of staff
  - a. technical
  - b. skilled
  - c. unskilled

**Signature and seal of the Tenderer**

## **Section – IX**

### **Qualification Criteria**

01. The Tenderer must be a Manufacturer or its authorized Agent.
02. a) Eligible bidders should have in the past seven years ending 31<sup>st</sup> March 2015 successfully completed similar project of MGPS works in India.

One single order value of similar nature of project for 80% of the tender estimated value

OR

Two single order value of similar nature of project for 50% of the tender estimated value

OR

Three single order value of similar nature of project for 40% of the tender estimated value

The copies of order alongwith the completion certificate indicating the specified work done indicated as above shall be submitted.

**( Tender Estimated Cost - Rs. 8 Cr. )**

b) Eligible bidders should have a solvency of not less than 30% of the tender estimated value from a Nationalized / Scheduled bank.

c) Eligible Bidders should have an average annual turnover for past consecutive three years ending 31<sup>st</sup> March 2014 for a minimum 30% of the estimated value in the immediate last 3 financial years. Tendered should not have occur any loss in any two consecutive financial year of the past three financial years. Audited Profit & Loss account and Balance Sheet for the immediate last three consecutive financial years should be submitted along with the bid. The bidders shall submit a copy of PAN card.

d) Eligible bidders should submit a mandatory letter of authority from the distributor of original Foreign Principal / Manufacturer for the quoted products.

e) Eligible Bidders should clearly mention country of origin with name of Mfg., company for each and every products quoted by them.

#### **Note**

1. In support of 2 (a), the Tenderer shall furnish Performance statement in the enclosed Proforma 'A'. The manufacturer as well as the Tenderer/ Indian Agent shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly notarized in the country of origin, alongwith the tender.
2. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.
3. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer's capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.
4. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.

**PROFORMA 'A'**  
**PROFORMA FOR PERFORMANCE STATEMENT**

(For the period of last seven years)

Tender Reference No. : \_\_\_\_\_

Date of opening : \_\_\_\_\_

Time : \_\_\_\_\_

Name and address of the Tenderer : \_\_\_\_\_

Name and address of the manufacturer : \_\_\_\_\_

Order placed by (full address of Purchaser/ Consignee)	Order number and date	Description and quantity of ordered goods and services	Value of order (Rs.)	Date of completion of Contract		Remarks indicating reasons for delay if any	Have the goods been functioning Satisfactorily (attach documentary proof)**
				As per contract	Actual		
1	2	3	4	5	6	7	8

**Signature and seal of the Tenderer**

**\*\* The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished.**

**\*\* The bidders are requested to submit the latest purchase order copies supplied to Premeire Institutes AIIMS, PGIMER, JIPMER, Institute of National importance for price justification.**

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**Section – X**  
**TENDER FORM**

Date \_\_\_\_\_

To

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**Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector - 62, Noida -201307, Uttar Pradesh**

Ref. Your TE document No. \_\_\_\_\_ dated \_\_\_\_\_

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. \_\_\_\_\_, dated \_\_\_\_\_ (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver \_\_\_\_\_ (Description of goods and services) in conformity with your above referred document **for the sum as shown in the price schedule(s), attached herewith and made part of this tender.** If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance as required in the GIT clause 20, read with modification, if any in Section - III – “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

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**(Signature with date)**

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**(Name and designation) Duly authorised to sign tender for and on behalf of**

**SECTION – XI PRICE SCHEDULE****A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA**

1	2	3	4	5							6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)							Total Price (at Consignee Site) basis (Rs.)
				Ex - factory/ Ex -warehouse /Ex-showroom /Off - the shelf (a)	Excise Duty (if any) [%age & value] (b)	Sales Tax/ VAT(if any) [%age & value] (c)	Packing and Forwarding charges (d)	Inland Transportation, Insurance for a period including 6 months beyond date of delivery, loading/ unloading and Incidental costs till consignee's site (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (f)	Unit Price (at Consignee Site) basis (g) =a+b+c+d+e+f	

Total Tender price in Rupees: \_\_\_\_\_

In words: \_\_\_\_\_

**Note: -**

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Place: \_\_\_\_\_

Signature of Tenderer \_\_\_\_\_

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

Seal of the Tenderer \_\_\_\_\_



**SECTION – XI PRICE SCHEDULE****C) PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD**

1	2	3	4					5
Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	
			a	B	c	d	e	

\* After completion of Warranty period NOTE:-

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. **“Whether service tax on CMC is inclusive or extra, if extra, indicate the present rate.....”**.In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. Cost of CMC will be added for Ranking/Evaluation purpose.
5. The payment of CMC will be made as per clause GCC clause 21.1 (D).
6. The uptime warranty will be 98 % on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the TE document.
7. All software updates should be provided free of cost during CMC period.
8. The stipulations in Technical Specification will supersede above provisions
9. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

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

Name \_\_\_\_\_  
Business Address \_\_\_\_\_  
Signature of Tenderer \_\_\_\_\_  
Seal of the Tenderer \_\_\_\_\_

**SECTION – XI PRICE SCHEDULE**  
**D) PRICE SCHEDULE FOR TURNKEY OTHER INCIDENTAL SERVICES**

Schedule No.	BRIEF TURNKEY DESCRIPTION OF GOODS	CONSIGNEE CODE	Price (Rs.)

**Note: -**

- 1.
2. The cost of Turnkey as per Technical Specification (Section VII) may be quoted on lump sum along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
3. Cost of Turnkey will be added for Ranking/Evaluation purpose.
4. The payment of Turnkey will be made as per clause GCC clause 21.1 (c).
5. The stipulations in Technical Specification will supersede above provisions

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Place: \_\_\_\_\_

Signature of Tenderer \_\_\_\_\_

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

Seal of the Tenderer \_\_\_\_\_

**PRICE SCHEDULE FOR RUNNING AND OPERATION:-**

<b>Schedule No.</b>	<b>CONSIGNEE</b>	<b>Running and Operation cost for initial 10 years from the date of Installation and commissioning as per the scope of work defined in the technical specification (Rs.)</b>

**Note: -**

1. The cost of running and operation need to be quoted in monthly lump sum manner inclusive of all statutory taxes.
2. Cost of running and operation will be added for Ranking/Evaluation purpose.
3. The payment will be made by consignee on quarterly basis on satisfactory performance before 7<sup>th</sup> in the following quarter.
4. No employee employed by the supplier can claim to be an employee of G.B. Pant hospital and the principal employer status will always be with the MGPS equipment supplier on whom the notification of award will be placed.

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Place: \_\_\_\_\_

Signature of Tenderer \_\_\_\_\_

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

Seal of the Tenderer \_\_\_\_\_

**SECTION – XII  
QUESTIONNAIRE**

**Fill up the Section XX – Check List for Tenderers and enclose with the Tender**

1. The tenderer should furnish specific answers to all the questions/issues mentioned in the Checklist. In case a question/issue does not apply to a tenderer, the same should be answered with the remark “not applicable”.
2. Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.
3. In case a tenderer furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its tender will be liable to be ignored.

**SECTION – XIII**  
**BANK GUARANTEE FORM FOR EMD**

Whereas \_\_\_\_\_ (hereinafter called the “Tenderer”) has submitted its quotation dated \_\_\_\_\_ for the supply of \_\_\_\_\_ (hereinafter called the “tender”) against the purchaser’s tender enquiry No. \_\_\_\_\_ Know all persons by these presents that we \_\_\_\_\_ of \_\_\_\_\_ (Hereinafter called the “Bank”) having our registered office at \_\_\_\_\_ are bound unto \_\_\_\_\_ (hereinafter called the “Purchaser) in the sum of \_\_\_\_\_ for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_. The conditions of this obligation are:

- (1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
  - a) fails or refuses to furnish the performance security for the due performance of the contract.
  - or
  - b) fails or refuses to accept/execute the contract.
  - or
  - c) if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

\_\_\_\_\_  
(Signature of the authorised officer of the Bank)

\_\_\_\_\_  
Name and designation of the officer

\_\_\_\_\_  
Seal, name & address of the Bank and address of the Branch

**To be enclosed with Techno-Commercial Bid**

**ANNEXURE-A**

**BIDDER PARTICULARS**

1. Name of the Bidder :
2. Address of the Bidder :
3. Name of the Manufacturer (s) :
4. Address(es) of the Manufacturer :
5. Name and address of the person: To whom all references shall be Made regarding this tender inquiry.

Telephone:

Telex : Fax

:

E-mail address :

Witness:

Signature

Name

Address

Designation

Company

Date

Company Seal

To be enclosed with Techno-Commercial Bid

**ANNEXURE-B**

**UNDERTAKING**

To,

.....  
.....  
.....

Sir,

Having examined the Bidding Documents of Tender No. \_\_\_\_\_  
undersigned offer to supply, install, commission, operate maintain  
and we undertake, if our bid is accepted, to complete delivery of  
all the items specified \_\_\_\_\_  
in the contract within \_\_\_\_\_ weeks calculated from the date of  
receipt of your  
Notification of Award and to complete the installation, testing commissioning \_\_\_\_\_

**Signature and Seal**

**(In the capacity of)**

**Only Authorized to sign bid for and on behalf of**

**To be enclosed with Techno-Commercial Bid**

**ANNEXURE-C**

**BIDDER PROFILE**

A. General Information:

(i) Location of Corporate Headquarters  
: (ii) Date and Country of Incorporation  
: (iii) Manufacturing Facility (S)  
Location Size Capacity  
(iv) No. of Service Facility(S) in India  
Location  
Strength  
Area Covered  
(v) Average yearly turnover for last three  
years: (vi) Geographical Distribution of the  
Supplier : No. of Offices  
Locations  
Staff strength  
(vii) Total No. of installations of the system  
offered. (viii) No. of Employees  
Total No. Manufacturing R&D (If  
any) Hardware Maintenance  
Software

B. Reference of Major installation with similar products (attach documents in support, if available)

\_\_\_\_\_ S. No. Customer Name, Address Product Description

Telephone  
Fax Number  
(No. of Machines installation year wise).

Date.....  
bidder

Signature and seal of



**SECTION – XIV**  
**MANUFACTURER’S AUTHORISATION FORM**

To

---

**Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector - 62, Noida -201307, Uttar Pradesh**

Dear Sir,

Ref: Your TE document No \_\_\_\_\_ dated \_\_\_\_\_

We, \_\_\_\_\_ who are proven and reputable manufacturers of \_\_\_\_\_ (*name and description of the goods offered in the tender*) having factories at \_\_\_\_\_, hereby authorise Messrs \_\_\_\_\_ (*name and address of the agent*) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also state that we are not participating directly in this tender for the following reason(s):  
\_\_\_\_\_  
(*please provide reason here*).

We further confirm that no supplier or firm or individual other than Messrs. \_\_\_\_\_ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorised agent

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly”

Yours faithfully,

[Signature with date, name and designation]  
for and on behalf of Messrs \_\_\_\_\_  
[Name & address of the manufacturers]

Note: 1. This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

2. Original Letter may be sent. Photocopy not acceptable.

**SECTION – XV**

**BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY**

To  
**Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector - 62, Noida -201307, Uttar Pradesh/ Hospital / Institution in case of CMC**

WHEREAS \_\_\_\_\_ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no \_\_\_\_\_ dated \_\_\_\_\_ to supply (description of goods and services) (herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of. \_\_\_\_\_ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to 66 (sixty six) months from the date of Notification of Award i.e. up to ----- (indicate date)

.....  
(Signature with date of the authorised officer of the Bank)

.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Branch

To be enclosed with Techno-Commercial

**ANNEXURE**

**PROFORMA OF GUARANTEE FOR SUPPLY OF SPARES DURING POST WARRANTY PERIOD**

To,  
.....  
.....  
.....

Sub: Tender No.....

Dear Sir,

In consideration of the (hereinafter referred to as "Purchaser" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assignees) having awarded to M/s..... with its Registered/Head office at ..... (hereinafter referred to as the "Supplier" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assignees), a contract by issue of the Purchaser's letter of Award no..... dated entering into a formal contract to that effect with the Purchaser on ..... vide agreement dated..... (hereinafter referred to as the contract).

We the supplier hereby give a guarantee for the supply of all necessary spares demanded for the routine and emergency maintenance of being supplied by us to for a period of not less than 5 years after the warranty period of 5 years and life time spares thereafter in case asked for by the purchaser.

We further clarify that for the first 5 years i.e. warranty period of 5 years, we are covered by the warranty clause as mentioned. For the remaining period of 5 Years and thereafter for the life time, a detailed list of spares will be supplied to the purchaser for the purpose of enabling him to decide spares needed for routine and emergency maintenance.

Dated..... day of.....20.....

Witness : (Name of manufacturers):

Signature and Seal:

(Signature) Name:

For & on behalf of M/s....

**SECTION – XVI  
CONTRACT FORM - A**

**CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS**

(Address of the Purchaser's/Consignee's office issuing the contract)

Contract No \_\_\_\_\_ dated \_\_\_\_\_

**This is in continuation to this office's Notification of Award No \_\_\_\_\_ dated \_\_\_\_\_**

1. Name & address of the Supplier: \_\_\_\_\_
2. Purchaser's TE document No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent Amendment No \_\_\_\_\_, dated \_\_\_\_\_ (if any), issued by the purchaser
3. Supplier's Tender No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent communication(s) No \_\_\_\_\_ dated \_\_\_\_\_ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

- (i) General Conditions of Contract;
- (ii) Special Conditions of Contract;
- (iii) List of Requirements;
- (iv) Technical Specifications;
- (v) Quality Control Requirements;
- (vi) Tender Form furnished by the supplier;
- (vii) Price Schedule(s) furnished by the supplier in its tender;
- (viii) Manufacturers' Authorisation Form (if applicable for this tender);
- (ix) Purchaser's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – 'General Instructions to Tenderers' of the Purchaser's TE document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

- (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of goods/services	Accounting unit	Quantity to be supplied	Unit Price	Total price	Terms of delivery

Any other additional services (if applicable) and cost thereof: \_\_\_\_\_

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

- (ii) Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control
  - (a) Mode(s), stage(s) and place(s) of conducting inspections and tests.
  - (b) Designation and address of purchaser's inspecting officer
- (v) Destination and despatch instructions
- (vi) Consignee, including port consignee, if any

- 6. Warranty clause
- 7. Payment terms
- 8. Paying authority

\_\_\_\_\_  
**(Signature, name and address  
of the Purchaser's/Consignee's authorised official)  
For and on behalf of \_\_\_\_\_**

Received and accepted this contract

\_\_\_\_\_  
(Signature, name and address of the supplier's executive  
duly authorised to sign on behalf of the supplier)

For and on behalf of \_\_\_\_\_

(Name and address of the supplier)

\_\_\_\_\_  
(Seal of the supplier)

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

Place: \_\_\_\_\_

**SECTION – XVI**  
**CONTRACT FORM – B**  
**CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT**

**Annual CM Contract No.** \_\_\_\_\_ **dated** \_\_\_\_\_  
Between \_\_\_\_\_

\_\_\_\_\_  
(Address of Head of Hospital/Institute/Medical College)  
And \_\_\_\_\_

\_\_\_\_\_  
(Name & Address of the Supplier)

**Ref: Contract No** \_\_\_\_\_ **dated** \_\_\_\_\_ **(Contract No. & date of Contract for supply, installation, commissioning, handing over, Trial run, Training of operators & warranty of goods)**

In continuation to the above referred contract

2. The Contract of Annual Comprehensive Maintenance is hereby concluded as under:

1	2	3	4					5
Schedu le No.	BRIEF DESCRIPTI ON OF GOODS	QUANTITY  (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>r</sup> d	4 <sup>th</sup>	5 <sup>th</sup>	
			a	b	c	D	e	

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

- b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from \_\_\_\_\_ (date of expiry of Warranty) and will expire on \_\_\_\_\_ (date of expiry of CMC)
- c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, \_\_\_\_\_ & \_\_\_\_\_) and Turnkey (if any).
- d) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- f) All software updates should be provided free of cost during CMC.
- g) The bank guarantee valid till \_\_\_\_\_ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. \_\_\_\_\_ [(fill amount) equivalent to 2.5 % of the cost of the equipment as per contract] shall be furnished in the prescribed format given in

Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.

- h) If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs. \_\_\_\_\_ (equivalent to 2.5 % of the cost of the equipment as per contract) shall be payable to the Consignee.
- i) **Payment terms:** The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.
- j) **Paying authority:** \_\_\_\_\_ (name of the consignee i.e. Hospital/  
Institute /Medical College's authorised  
official)

\_\_\_\_\_  
**(Signature, name and address  
of Hospital/Institute/Medical College's authorised official)  
For and on behalf of**\_\_\_\_\_

Received and accepted this contract

\_\_\_\_\_  
(Signature, name and address of the supplier's executive  
duly authorised to sign on behalf of the supplier)

For and on behalf of \_\_\_\_\_  
(Name and address of the supplier)

\_\_\_\_\_  
(Seal of the supplier)

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

Place: \_\_\_\_\_

**SECTION – XVII**  
**CONSIGNEE RECEIPT CERTIFICATE**  
**(To be given by consignee’s authorized representative)**

The following store (s) has/have been received in good condition:

- 1) Contract No. & date : \_\_\_\_\_
- 2) Supplier’s Name : \_\_\_\_\_
- 3) Consignee’s Name & Address with  
telephone No. & Fax No. : \_\_\_\_\_
- 4) Name of the item supplied : \_\_\_\_\_
- 5) Quantity Supplied : \_\_\_\_\_
- 6) Date of Receipt by the Consignee : \_\_\_\_\_
- 7) Name and designation of Authorized  
Representative of Consignee : \_\_\_\_\_
- 8) Signature of Authorized  
Representative of Consignee with  
date : \_\_\_\_\_
- 9) Seal of the Consignee : \_\_\_\_\_



**SECTION – XVIII**

**Proforma of Final Acceptance Certificate by the Consignee**

No \_\_\_\_\_

Date \_\_\_\_\_

**To**

M/s \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Subject: Certificate of commissioning of equipment/plant.

**This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good conditions along with all the standard and special accessories and a set of spares (subject to remarks in Para no.02) in accordance with the contract/technical specifications. The same has been installed and commissioned.**

- (a) Contract No \_\_\_\_\_ dated \_\_\_\_\_
- (b) Description of the equipment(s)/plants: \_\_\_\_\_
- (c) Equipment(s)/ plant(s) nos.: \_\_\_\_\_
- (d) Quantity: \_\_\_\_\_
- (e) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no \_\_\_\_\_ dated \_\_\_\_\_
- (f) Name of the vessel/Transporters: \_\_\_\_\_
- (g) Name of the Consignee: \_\_\_\_\_
- (h) Date of commissioning and proving test: \_\_\_\_\_

**Details of accessories/spares not yet supplied and recoveries to be made on that account.**

Sl. No.	Description of Item	Quantity	Amount to be recovered

The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

The supplier has fulfilled its contractual obligations satisfactorily ## or

The supplier has failed to fulfil its contractual obligations with regard to the following:

- a. He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to ‘Technical Specifications’.
- b. He has not supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

- c. The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is

The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.

The amount of recovery on account of failure of the supplier to meet his contractual obligations is \_\_\_\_\_ (here indicate the amount).

Signature

Name

Designation with stamp

**## Explanatory notes for filling up the certificate:**

- i) He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.
- ii) He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
- iii) Training of personnel has been done by the supplier as specified in the contract.
- iv) In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

**SECTION – XIX  
ANNEXURES**

**Deleted**

**SECTION – XX**  
**CHECKLIST**  
**Name of Tenderer:**  
**Name of Manufacturer:**

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
1. a.	Have you enclosed EMD of required amount for the quoted schedules?			
b.	In case EMD is furnished in the form of Bank Guarantee, has it been furnished as per Section XIII?			
c.	In case Bank Guarantee is furnished, have you kept its validity of 165 days from Techno Commercial Tender Opening date as per clause 19 of GIT?			
2. a.	Have you enclosed duly filled Tender Form as per format in Section X?			
b.	Have you enclosed Power of Attorney in favour of the signatory?			
3.	Are you a SSI unit, if yes have you enclosed certificate of registration issued by Directorate of Industries/NSIC			
4. a.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?			
b.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?			
5. a.	Have you submitted satisfactory performance certificate as per the Proforma for performance statement in Sec. IX of TE document in respect of all orders?			

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
b.	Have you submitted copy of the order(s) and end user certificate?			
6.	Have you submitted manufacturer's authorization as per Section XIV?			
7.	Have you submitted prices of goods, turnkey (if any), CMC etc. in the Price Schedule as per Section XI?			
8.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?			
9. a.	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			
b.	In case of Foreign Tenderer, have you furnished Income Tax Account No. of your Indian Agent as allotted by the Income Tax Department of Government of India?			
10.	Have you intimated the name and full address of your Banker (s) along with your Account Number			
11.	Have you fully accepted payment terms as per TE document?			
12.	Have you fully accepted delivery period as per TE document?			
13.	Have you submitted the certificate of incorporation?			
14.	Have you accepted the warranty as per TE document?			
15.	Have you accepted terms and conditions of TE document?			

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
16.	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?			
17	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?			

N.B.

1. All pages of the Tender should be page numbered and indexed.
2. The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.

22. It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

---

**(Signature with date)**

---

**(Full name, designation & address of the person duly authorised sign on behalf of the Tenderer)**  
**For and on behalf of**

---



---

**(Name, address and stamp of the tendering firm)**

---

**Section – XXI**  
**Consignee List**

<b>Consignee Code</b>	<b>Medical Institutions</b>	<b>Contact Address.</b>
GBPH	G. B. Pant Hospital	The Medical Superintendent Address: Street GB Pant Rd; Port Blair - 744101 Andaman and Nicobar Island Telephone: +91 3192 233473

**NB: The consignee will ensure timely issue of NMIC, CDEC, Octroi Exemption Certificates, Road Permits & Entry Tax Exemption Certificates, wherever applicable, to the suppliers.**