GLOBAL TENDER ENQUIRY DOCUMENT

FOR PROCUREMENT OF
Medical Gas Pipeline System
FOR SIX AIIMS

UNDER PMSSY Scheme
FOR

GOVT OF INDIA

MINISTRY OF HEALTH & FAMILY WELFARE

HLL/PCD/PMSSY/AIIMS-II/14/13–14

BY

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SECTION I

NOTICE INVITING TENDERS (NIT)
For Global Tender from
HLL Lifecare Limited
(A GOVERNMENT OF INDIA ENTERPRISE)

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FOR
GOVT OF INDIA
MINISTRY OF HEALTH & FAMILY WELFARE

Tender Enquiry No.: HLL/PCD/PMSSY/AIIMS-II/14/13-14 **Dated 03.03.2014**

NOTICE INVITING TENDERS (NIT)

(1) Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of Govt. of India, Ministry of Health & Family Welfare, invites sealed tenders, from eligible and qualified tenderers for supply of Medical Gas Pipeline System for six All India Institutes of Medical Science (AIIMS) – Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur, Rishikesh under PMSSY:

Sch No.	Equipment Name	Consignee Name	Qty.	EMD (Rs.)
1 (a)	Medical Gas Pipeline System with running and operation for 2 years	AIIMS - Bhopal	1	30,00,000
1 (b)		AIIMS - Bhubaneswar	1	30,00,000
1 (c)		AIIMS - Jodhpur	1	30,00,000
1 (d)		AIIMS - Patna	1	30,00,000
1 (e)		AIIMS - Rishikesh	1	30,00,000
1 (f)		AIIMS - Raipur	1	30,00,000

(2) **Tender No.: HLL/PCD/PMSSY/AIIMS-II/14/13-14**

Sl. No.	Description	Schedule
i.	Dates of sale of tender enquiry documents	**03.03.2014** to **16.04.2014**, 1600 hrs IST
ii.	Place of sale of Tender Enquiry Documents	HLL Lifecare Limited, (A Government of India Enterprise), Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307
iii.	Cost of the Tender Enquiry Document	Rs. 50,000/-

Sl. No.	Description	Schedule
iv.	Pre Tender Meeting Date & Time	**11.03.2014**, 1100 hrs IST
v.	Pre Tender Meeting Venue	Same as 2 (ii)
vi.	Closing date & time for receipt of Tender	**17.04.2014**, 1200 hrs IST
vii.	Time and date of opening of Techno – Commercial tenders	**17.04.2014**, 1230 hrs IST
viii	Venue of Opening of Techno Commercial Tender	Same as 2 (ii)

3. Interested tenderers may obtain further information about this requirement from the above office selling the documents. Tender Enquiry Documents may be purchased on payment of non-refundable fee of Rs 50,000/- per set in the form of account payee Demand Draft/Pay Order/Cashier's Cheque/Banker's Cheque, drawn on a scheduled bank in India, in favour of **"HLL Lifecare Limited"** payable at New Delhi**.**

4. If requested, the Tender Enquiry Documents will be mailed by Registered Post/Speed Post to the domestic tenderers and by international airmail to the foreign tenderers, for which extra expenditure per set will be Rs 500/- for domestic post and Rs 1000/- for international airmail. The tenderer is to add the applicable postage cost in the non-refundable fee mentioned in Para 3 above.

5. Tenderer may also download the tender enquiry documents from the web site www.lifecarehll.com or www.eprocure.gov.in/cppp and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 3 above.

6. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated in the Para 2 above.

7. Tenderers shall ensure that their tenders, complete in all respects, are dropped 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 the closing date and time indicated in the Para 2 above, failing which the tenders will be treated as late and rejected.

8. In the event of any of the above mentioned dates being declared as a holiday / closed day for the purchase organisation, the tenders will be sold/received/opened on the next working day at the appointed time.

9. The Tender Enquiry Documents are not transferable.

10. Purchaser reserves the right to go for reverse auction for the tender.

Head (P&CD)

HLL Lifecare Limited

SECTION - II

GENERAL INSTRUCTIONS TO TENDERERS (GIT)
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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 Ministry of Health & Family welfare Govt of India.
(ii) "Tender" means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.
(iii) "Tenderer" means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender
(iii) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.
(iv) "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.
(v) "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.
(vi) "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
(vii) "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.
(viii) "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.
(ix) "Consignee" means the Hospital (AIIMS)/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.
(x) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.
(xi) "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.
(xii) "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) "LC" means Letter of Credit
(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) "CIF" means Cost, Insurance and Freight
(xxvii) "CIP (Destinations)" means Carriage and Insurance Paid up to named port of destination. Additionally the 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.
(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.

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, *interalia*, 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. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

8.1 In addition to Section I – "Notice inviting Tender" (NIT), 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, to all prospective tenderers, who 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 TENDERS

11. Documents Comprising the Tender

11.1 The **Two Tender System**, i.e. "Techno – Commercial Tender" and "Price Tender" prepared by the tenderer shall comprise the following:

A) <u>Techno – Commercial Tender (Un priced Tender)</u>

i) Earnest money 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.
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 in the country of origin.
x) Checklist.
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.
xix) 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.
xx**)** 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).
xxiii) Product catalogues must be enclosed of all quoted items.

B) <u>Price Tender:</u>

The Price tender will be called through Reverse Bidding Mechanism. The Reverse auction / bidding will be done through authorised service provider. Only the successful bidders will be asked to get themselves registered with the service provider and will be given training.
The manual price bids of the successful bidders submitted along with the techno- commercial bids will be opened after the reverse bidding process is completed and the L1 price either through reverse bidding or manual price bid will prevail. Bidders should compulsorily quote price for all schedules and work will be awarded on the basis of best benefit to the purchaser. During online bidding also, bidders will be told the eligibility of schedules in advance (say for 1 schedule or 2 schedules) however they will have to bid for all the sites and the work will be awarded on the basis of least cost to the purchaser method. If the bidder does not submit price for all the schedules, his bid will be treated as non-responsive and summarily rejected.

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.

11.2 The authorized signatory of the tenderer must sign the tender duly stamped on all pages. If the tenderer deletes any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.

11.3 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 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed /undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.

12.3 Tenders, where prices are quoted in any other currency 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.

The bidders have to quote for all the schedules while quoting. Say if the bidder is quoting for Medical Gas Pipeline System the bidders have to quote for all six schedules. The purchaser will have the right to award the work to any site as per the eligibility and to the best benefit of the exchequer.

Price schedule for all six schedules to be kept in separate sealed envelope mandatorily.

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. 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 irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI. Detailed breakup of the prices for the main equipment and accessories/optional items must be provided separately, item wise in the same serial order as listed in the technical bid

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, Custom Duty, 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), a s 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.; and
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 in the corresponding price schedule shall be entered separately in the following manner:

a) The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
b) the price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List;
c) 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;

d) The charges for Incidental Services, as in the List of Requirements and Price Schedule;
e) The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
f) 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 excise duty, 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. The purchaser should issue the certificate to the supplier within 21 days from the date of receipt of request from the supplier.

However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.

13.5.5 Customs Duty:

The Purchaser will pay the Customs duty wherever applicable.

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.

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

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. Bidders are requested to quote BOQ wise unit price and total price. Item wise price will remain fixed. However actual payment will be based on final measurement.

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 good's 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 misguiding 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 A (i) 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 or country of the tenderer, 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 In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalised bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.

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, who

may not agree to extend its tender validity after the expiry of the original validity period the EMD furnished by them shall not be forfeited.

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. Signing and Sealing of Tender

21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.

21.2 Unless otherwise mentioned in the SIT, a tenderer shall submit two copies of its tender marking them as "Original" and "Duplicate". Duplicate tenders may contain all pages including Technical Literature/Catalogues as per in Original tenders. Tenders are requested to submit tenders duly page numbered and in a binding form. **Tenders submitted in loose sheets will not be accepted.**

21.3 The original and other copies of the tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender.

21.4 All the copies of the tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.

21.5 The tenderer is to seal the original and duplicate copy of the tender in separate envelopes, duly marking the same as "Original", "Duplicate", and writing the address of the purchaser and the tender reference number on the envelopes. The sentence "NOT TO BE OPENED" before _____ (The tenderer is to put the date & time of tender opening) are to be written on these envelopes. The inner envelopes are then to be put in a bigger outer envelope, which will also be duly sealed, marked etc. as above. If the outer envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.

21.6 TE document seeks quotation following **two Tender System**, in two parts. First part will be known as **'Techno - Commercial Tender'**, and the second part **'Price Tender'** as specified in clause 11 of GIT. Tenderer shall seal **'Techno - Commercial Tender'** and **'Price Tender'** separately and covers will be suitably super scribed. Both these sealed covers shall be put in a bigger cover and sealed and procedure prescribed in Paras 21.1 to 21.5 followed.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

22.1 Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh**. In case of bulky tender, which cannot be put into tender box, the same shall be submitted by the tenderer by hand to **Head (P&CD)** or his nominee, **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh**. The officer receiving the tender will give the tenderer an official receipt duly signed with date and time.

22.2 The tenderers must ensure that they deposit their tenders not later than the closing time and date specified for submission of tenders. It is the responsibility of the tenderer to ensure that their Tenders whether sent by post or by courier or by person, are dropped in the Tender Box by the

specified clearing date and time. In the event of the specified date for submission of tender falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be received up to the appointed time on the next working day.

23. Late Tender

23.1 A tender, which is received after the specified date and time for receipt of tenders will be treated as "late" tender and will be ignored.

24. Alteration and Withdrawal of Tender

24.1 The tenderer, after submitting its tender, is permitted to alter / modify its tender so long as such alterations / modifications are received duly signed, sealed and marked like the original tender, within the deadline for submission of tenders. Alterations / modifications to tenders received after the prescribed deadline will not be considered.

24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

E. TENDER OPENING

25. Opening of Tenders

25.1 The purchaser will open the 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. **Purchaser however reserves the right to go for online reverse auction through purchasers authorized service provider. Terms, conditions & business rules for online reverse auction will be communicated in advance to the techno commercially responsive bidders. In case of reverse auction mechanism the window for reverse auction will be opened at pre notified**

date and time. Sufficient time will be given to the successful bidders for submitting their bid online.

Subsequent to the reverse auction the Manual Price Bid of bidders whose offers (Techno-commercial/Technical bid) are found technically and commercially suitable (responsive) and comply with the Bid Documents will be opened and the L1 price either through reverse bidding or manual price bid will be considered for award of work.

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. 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 the 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 during the evaluation and will be ignored;

(i) Deleted
(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 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.
(vii) Deleted

(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 Infirmity/Irregularity/Non-Conformity

28.1 If during the preliminary examination, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser may waive the same provided it does not constitute any material deviation and financial impact and, also, does not prejudice or affect the ranking order of the tenderers. Wherever necessary, the purchaser will convey its observation on such 'minor' issues to the tenderer by registered/speed post 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. Conversion of tender currencies to Indian Rupees

32.1 In case the TE document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the exchange rates

established by the Reserve Bank of India for similar transactions, as on the date of 'Price Tender' opening.

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 and CMC prices will also be added for comparison/ranking purpose for evaluation. **"Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted for 5 years after the warranty period shall be added to the bid price for evaluation and will be calculated after discounting the quoted price by a discounting factor of 10% per annum."**

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) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.

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.

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, interalia, 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 or the lowest rate received as a result of reverse auction.

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 of 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 of 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 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 anything 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)

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C	11 to 21	Preparation of Tenders	No Change	25
D	22 to24	Submission of Tenders	No Change	25
E	25	Tender Opening	No Change	25
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change	25
G	38 to 45	Award of Contract	No Change	25

SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

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.

A **Preamble**

No Change

B **TE documents**

No Change

C **Preparation of Tenders**

No Change

D **Submission of Tenders**

No Change

E **Tender Opening**

No Change

F **Scrutiny and Evaluation of Tenders**

No Change

G **Award of Contract**

No Change

SECTION - IV

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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 66 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 transhipment (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 and lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, and if same is accepted by purchaser/consignee/PSA/PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."

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.

"On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser/consignee may remove the rejected stores and either return the same to the supplier at his risk and cost by such mode of transport as purchaser/consignee may decide or dispose of such goods at the suppliers risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for."

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, Bereau Veritas, TUV prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

8.9 **Following delivery of the items the joint inspection by HLL and respective AIIMS at site will be carried out to verify the quantity and quality of goods.**

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 schedule of requirement. 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 transhipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) 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) in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier from the port of entry to the consignee site for a period including 3 months

beyond date of delivery for an amount equal to 110% of the overall expenditure to be incurred by the purchaser from ware house to ware house (consignee site) on all risk basis.

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be 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 consumable 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
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

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

Within 24 hours of 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) For goods imported from abroad

Within 24 hours of 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 (or as instructed in the contract). Any delay or demurrage occurred during the customs clearance on account of the non-availability of technical support/ clarifications /documents from the supplier shall be borne by the supplier:

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Original and four copies of the negotiable clean, on-board Bill of Lading/Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
(iii) Four Copies of packing list identifying contents of each package;
(iv) Insurance Certificate as per GCC Clause 11.
(v) Manufacturer's/Supplier's warranty certificate;
(vi) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd, BEAUREU VERITAS, TUV prior to despatch
(vii) Manufacturer's own factory inspection report;
(viii) Certificate of origin
(ix) Port of Loading;
(x) Port of Discharge and
(xi) Expected date of arrival.

15. Warranty

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.
- 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.
- a. 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.

b. No conditional warranty like mishandling, manufacturing defects etc. will be acceptable.

c. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work

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.

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:

Fifty (50%) payment of the contract price shall be paid on receipt of goods in good condition 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 and documents also to be submitted for payment confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
(vi) Certificate of origin.
(vii) Manufacturers warranty certificate

b) Thirty (30%) payment of the contract price shall be paid on installation and commissioning upon submission of following document:-
Installation and commissioning certificate used by the consignee

c) On Acceptance:

Balance Twenty (20%) payment would be made against 'Final Acceptance Certificate'(FAC) 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.FAC need to be issued by the designated consignee after installation, commissioning, testing and one month of successful trial run of the equipment.

B) Payment for Imported Goods:

Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:

a) On Shipment:

Fifty (50)% of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Original and four copies of the negotiable clean, on-board Bill of Lading/ Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
(iii) Four Copies of packing list identifying contents of each package;
(iv) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
(v) Manufacturer's/Supplier's warranty certificate;
(vi) Manufacturer's own factory inspection report and
(vii) Certificate of origin by the chamber of commerce of the concerned country;
(viii) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd, BEAURU VARITUS and TUV prior to despatch.

b) Thirty (30)% of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of the following document

i) Installation and commission certificate issued by the end user

c) On Acceptance:

Balance payment of 20% of net CIP price of goods would be made against 'Final Acceptance Certificate'(FAC) as per Section XVIII to be issued by the consignees through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any. FAC need to be issued by the designated consignee after installation, commissioning, testing and one month of successful trial run of the equipment.

d) Payment of Incidental Costs till consignee site & Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) will be paid in Indian Rupees to the Indian Agent on proof of final installation, commission and acceptance of equipment by the consignee.

e) 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 (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

C) Payment of Turnkey, if any:

Turnkey payment will be made to the bidder/manufacturer's agent in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

D) 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 Irrevocable & non – transferable LC shall be opened by the purchaser. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.

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 the purchaser.

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, custom 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 Final Acceptance Certificate 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
(ii) 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, interalia 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 or install /commission 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, installation, commissioning 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, 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., New Delhi, India.

30.4 Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., New Delhi, 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

Sch No.	Equipment Name	Consignee Name	Qty.	Total Qty	Warranty required
1 (a)	Medical Gas Pipeline System with running and operation for 2 years	Bhopal	1	6	5 years
1 (b)		Bhubaneswar	1		
1 (c)		Jodhpur	1		
1 (d)		Patna	1		
1 (e)		Rishikesh	1		
1 (f)		Raipur	1		

Part II: Required Delivery Schedule:

a) For Indigenous goods or for imported goods if supplied from India:

200 days from date of Notification of Award to delivery, installation and commissioning at consignee site. The date of delivery will be the date of delivery at consignee site (Tenderers may quote earliest delivery period). If the bidder gets work order for more than one AIIMS, simultaneous deliveries need to be ensured by the bidder/ awardee to each AIIMS.

b) For Imported goods directly from foreign:

200 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Tenderers may quote the earliest delivery period). 200 days is inclusive of installation and commissioning. If the bidder gets work order for more than one AIIMS, simultaneous deliveries need to be ensured by the bidder/ awardee to each AIIMS.

For delayed delivery and/ or installation and commissioning liquidated damages will get applied as per GCC clause 23.

Note: Deleted

Part III: Scope of Incidental Services:

Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13. Five (5) persons each from each AIIMS need to be trained for CSSD and MGPS and Ten (10) persons for Modular Operation Theatre.

Part IV:

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

Part V:

Warranty period as per details in general technical specification and as specified in Part I above. Warranty period will be 60 months from the date of installation, commissioning and acceptance or 66 months from the date of last shipment/dispatch, whichever is earlier

Comprehensive Maintenance Contract (CMC) as per details in Technical Specification as specified in part I above

Part VI:

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:

At Consignee Site(s)

b) For Imported goods directly from abroad:

The foreign tenderers are required to quote their rates on CIP Named Port of Destination Basis giving breakup of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on CIP Named Port of Destination basis.

The shipping arrangements shall be made in accordance with the instruction of Ministry of Shipping & Transport, New Delhi, India as detailed in Annexure 1 at Section XIX.

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.

Destination/Consignee details are given in Section XXI

Section – VII
Technical Specifications

Note 1: Tenderer's attention is drawn to GIT clause 18 and GIT sub-clause 11.1 A (iii). The tenderer is to provide the required details, information, confirmations, etc. accordingly failing which it's tender is liable to be ignored.

Note 2: General: Bidders are requested to make sure that they should attach the list of equipments for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer / Tester for Medical equipments to periodically check the electrical safety aspects as per BIS Safety Standards IS-13540 which is also equivalent to IEC electrical safety standard IEC-60601 is a part of the equipments. If the Electrical Safety Analyzer/Tester is not available they should provide a commitment to get the equipments checked for electrical safety compliance with Electronic Regional Test Labs / Electronics Test and Development Centres across the country on every preventive maintenance call.

Note 3: Adequate training of personnel and non-locked open software and standard interface interoperability conditions for networked equipment in hospital management information system (HMIS)

The successful tenderer will be required to undertake to provide at his cost technical training for personnel involved in the use and handling of the equipment on site at the institute immediately after its installation. The company shall be required to train the institute personnel onsite for a minimum period of 1 month

All software updates should be provided free of cost during warranty period and CMC period

Note 4:

TECHNICAL SPECIFICATIONS

Schedule no. 1
Technical specification for Medical Gas Pipeline System

DOCUMENT FOR SUPPLY, INSTALLATION TESTING A AND COMMISSIONING OF GAS PIPELINE, LIQUID OXYGEN PLANT AND MANIFOLD SYSTEM

Part –A

Technical specifications of Centralized Medical Gas Pipeline system, Liquid Oxygen Plant and Manifold system for All India Institute of Medical Sciences (AIIMS).

The system comprises of
1. Liquid oxygen supply system and Oxygen manifold
2. Nitrous oxide manifold with automatic control panel and emergency manifold.
3. Vacuum (suction) supply system complete.
4. Air supply system (4 bar & 7 bar) complete.
5. Distribution piping complete with accessories.
6. Area Valve Service System.
7. Alarm Systems.
8. Pendants and bed head panels
9. Outlets.
10. AGSS system.
11. CO2 Systems

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 furnishing the quotations.

Bidder shall execute all required civil, electrical, plumbing, lighting, fire safety, exhaust systems and other works as maybe required for complete installation and trouble-free functioning as a part of the 'turnkey work'. Hospital will provide electrical supply with isolator in the plant. The wiring, peripheral lighting, fans, exhaust etc have to be done by the bidder. Control panel for Vacuum system and Air plant system has to be supplied by the bidder. Bidder will be responsible for trenching or other associated work related to installation and commissioning of complete MGPS system.
The MGPS bidder has to terminate all the medical gas lines outside the OT. 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 minor operation theatre has to be done by the MGPS bidder. Medical gas pipe line inside the modular operation theatre shall be done by the MOT bidder. MGPS bidder shall cooperate with the MOT bidder for the successful completion of MGPS inside the modular operation theatres.
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 AIIMS authorities. Bidder shall be responsible for free maintenance of Gas pipeline system, other plants and manifolds during warranty period. Bidder shall be responsible for supply, installation, testing and commissioning of Liquid Medical Oxygen tanks, Oxygen manifold system, Vacuum plant, Air plant ,AGSS system, Medical Gas lines, Area valve service units, Alarm systems Gas out lets and OT pendants, CO2 Systems ie MGPS complete as per HTM 02-01/NFPA 99C/DIN/EN standards.
Bidder should provide factory test certificates for the materials used. Bidder should supply complete set of part manuals, service manuals and user manuals for all the systems and subsystems to be supplied. Final electrical safety test, system test, and calibration should be done by authorized persons using calibrated test equipment as per standards. Bidder or his authorized agent should post a trained experienced engineer who should be available at site.

Bidder shall be responsible for connecting the existing pipeline system in the AIIMS to the main pipeline system.

1.1.1 SCOPE:

Supply and installation of Vacuum Insulated Evaporator (VIE)

One vessel of 1X20 KL Liquid oxygen VIE vessel system will be the primary (main) supply source and another vessel of 1X10 KL will be secondary source. The Two VIE vessel system should be interconnected with automatic change over. Each system should have separate tank, VIE, AV coil, controllers etc. Required pipe line including necessary accessories like isolation valves, non-return valves, line regulators etc. has to be supplied. Essential inter connection to the manifolds through automatic change over control should be provided. Manual change over is also to be provided.

The vendor should supply all the above items.

Scope and responsibility of the vendor

- Erection and commissioning of the VIE, AV coil, and the interconnection of LO plant to the manifolds of the hospital with suitable modifications is the vendors responsibility.
- Necessary maintenance of the VIE, AV coil, controllers etc. is the responsibility of the supplier.
- The vendor should liaise with the Chief Controller of Explosives, Nagpur to get the essential safety clearance certificate. Service charge required for this work should be paid by the vendor.

1.1.2 OXYGEN SUPPLY SYSTEM

LIQUID MEDICAL OXYGEN TANK (VACCUM INSULATED EVAPORATOR) AND ALLIED EQUIPMENTS

APPLICATION:

Storage of Liquid Oxygen and Supply of High purity Oxygen gas for medical use after conversion of liquid to gas through ambient atmospheric vaporizer.

LIQUID MEDICAL OXYGEN STORAGE TANK:

The double walled Vaccum Insulated Evaporator shall be constructed of stainless steel inner vessel contained within a carbon steel outer vessel. The annular space between the vessels shall be

filled with non-inflammable perlite insulation material to insulate under vacuum. The VIE should be self pressurizing type by partial evaporation of liquid oxygen through a pressure building coil by a non ferrous imported pressure regulator. The vessel shall be supplied as a functional whole with all materials of construction & the cleaning regime suitable for medical grade liquid oxygen.
Quantity : 20 KL X 1 No. and 10 KL X 1 No.

Installation	:	Outdoor
Type	:	Double walled, vertical
Capacity	:	Minimum 20,000 liters water capacity- 1no. Minimum 10,000 litres water capacity- 1 No
Design code	:	ASME Sec.VIII Div.I latest Edition / EN - 13458-2 Annexure-C/ AD2000 MARKBLATTER 2004 Edition
Max. working pressure	:	17 Bar G
Design temperature	:	–196ºC to +50ºC
Hydraulic Test Pressure	:	26 bar G
Type of Insulation	:	Vacuum, Perlite filled
Safety Valve Set pressure	:	17 Bar G (dual safety valve with three way diverter valve)
Bursting Disc Set Pressure	:	23 Bar G (Bursting disc)

Standard fittings : Pressure rising coil, pressure building regulator of adequate capacity and size, dual safety valve with imported three way diverter valve, bursting disc., pressure gauges, liquid over flow line, Liquid level gauge and adequate numbers of extended spindle glove valve etc.

Maximum Evaporation Rate	:	<0.35% of net value.
Material of Construction	:	Inner shell and wetted parts of SS 304 Outer shell of CS ASTMA 516 Gr. 70 / CGA 341 2002 EN13455 S275/S355
Joint Efficiency	:	100%
Radiography	:	100% for inner, for outer spot
External piping	:	From LMO Tank to Vaporizer SS304 From Vaporizer to inlet of Pressure Reducing Station SS304 From Outlet of Pressure Reducing Station to Main header Copper
Cryogenic Valves	:	Non ferrous (Imported)
Cryogenic Safety Valves	:	Imported

Pressure Building regulator	:	Non ferrous
Leak Detection test	:	Helium Leak detection
Painting	:	Primer and finish with White RAL 9010
Inspection	:	By 3rd party (SGS/LLOYDS/TUV)
Cleaning with Nitrogen.	:	Degreasing for Oxygen Service and Pressurize
Withdrawal rate	:	1000 cum per hr**.** at 12 Bar G

1.1.3 **ACCESSORIES:**

LMO Tank alongwith P&ID shall be fitted with the following accessories:

- Top Fill Valve
- Bottom Fill Valve
- Liquid charging line blow valve
- Liquid Delivery Valve
- Overflow Valve
- Gas blow valve
- Filling Coupling
- Vaporizer Coupling
- Liquid Level Gauge (Dial 100 mm).
- High Level Valve
- Equalizing Valve
- Low level Valve
- Pressure Gauge (100mm dial, Range 0-25 kg/cm2)
- Pressure Gauge Isolation Valve
- Pressurizing Valve
- Pressurizing Coil
- Filter
- Pressure Regulator
- Economizer
- Check Valve
- Evacuation Port
- Vacuum Gauge Connection Port/vacuum probe valve.

1.1.4 **SAFETY FITTING:**

- Two safety valves for inner vessel fitted on pipe line with flow divert valve.
- Rupture disc for inner vessel.
- Safety valve for inlet pipeline.
- Safety valve for pipeline of pressurizing evaporator.
- One rupture disc/ safety device on outer vessel.

1.1.5. **SUBMITTALS:**

The Liquid Medical oxygen tank shall accompany the Original Quality Test Certificate covering following Documents:

- Approval letter from CCOE along with approved drawing fromCCOE.
- Approval letter from CCOE for use of cryogenic vessel(s) at site.
- Certificate from the authorized inspection agency.
- Heat chart for pressure parts.
- Dimension checks report.
- Dished End reports.
- Mechanical properties test report for production test coupon.
- Visual inspection report.
- Radiography examination report.
- Liquid penetrant examination.
- Cleaning inspection report.
- Hydro-pressure test report.

1.2 Liquid Oxygen supply system

One vessel of 1X20 KL Liquid oxygen VIE vessel system will be the primary (main) supply source and another vessel of 1X10 KL will be secondary source. In case of failure in liquid oxygen supply, it should automatically switch over to an emergency oxygen manifold having 2 X 20 cylinders. Design should be state-of-the-art.

The unit should consist of a double walled vertical vessel (inner pressure vessel made of stainless steel and outer vessel of carbon steel).It should be fitted with standard accessories and should be "passed" the standard inspection requirement at factory for VIE. The copy of the certificate should be forwarded to HLL prior to shipping and original should be enclosed along with the shipping document. Bidder should follow international Standards.

1.2.1 Product and Service Specification:

- Proposed capacity of the primary liquid oxygen storage tank is 10X2 KL and secondary is 10 KL.
- Gas outlet pressure to be maintained at 4.2 kg/cm2.
- Space taken for installation should be as per regulations of Indian explosive controller and having easy access for LMO tank.
- The site would be protected by fence around, well lit by sodium vapour lamps and demarcated with proper signage.
- Indication of liquid oxygen level and outlet gas pressure should be provided.
- Automatic change over should be provided between the primary and secondary LMO tanks. In case of failure in liquid oxygen supply, it should automatically switch over to an emergency oxygen manifold having 2 x 20 cylinders

1.2.2 Specification of Components

Product: The liquid medical oxygen (LMO) supplied at site should be of IP grade. The LMO supplied should comply with all relevant SMPV regulations and standards under the preview of the Indian Drugs and Cosmetic Act rules. They should also satisfy the IP 2007 specifications.

Storage Tank Specifications

The storage tank and the vaporizer coils should be designed as per the ASME Sec.VIII Div.I latest Edition / EN -13458-2 Annexure-C/ AD2000 , MARKBLATTER 2004 Edition

The cryogenic vessel will be of cylindrical shape with vaporiser and the pressure control system. It should be provided with the essential components to fill the liquid, to build up pressure, to relieve pressure, to withdraw product and to evacuate the vessel. All protective, safety and alarm provisions mandatory to Liquid Medical Oxygen plants should be supplied.

The requirement of the Cryogenic Vessel should be:

1. Configuration: Vertical
2. Inner vessel maximum allowable working Pressure: 17 kg/cm2
3. Inner vessel hydrostatic test pressure: Greater than 26 kg/ cm2
4. Outer vessel material of construction: Carbon steel
5. Inner vessel material of construction: Stainless steel
6. Independent AV coil should be provided with each vessel.

Storage Tank Capacity

Vacuum insulated evaporator vessel should have a capacity of 10X2 kilo liters and other with 1X10 kilo litres. The AV coil should have adequate capacity to handle the gas flow requirements of the hospital.

Vaporiser Coil

1. Maximum operating Pressure: 20 kg/cm2
2. Design Pressure: 22 kg/cm2
3. Pneumatic test Pressure: Greater than 24 kg/cm2
4. Inlet temperature: - 196 to +40°C.
5. Duty cycle: Continuous duty
6. Flow rate : 1200 cubic metre/ hour

The fence, foundation, lighting, signage, approach gate etc are to be designed and installed by the vendor.

1.2.3 Safety

The vendor should ensure that all international safety norms and standards applicable as implemented and certified by the CCE.

Following are the mandatory provisions for vessel:

- Vessel low liquid level alarm
- Vessel low pressure alarm
- Pipeline low pressure alarm.
- Twin regulator
- Twin safety valve
- Non return valve and 3 way diverter (bypass) valve
- Automatic changeover to manifolds with control panel
- Alarm on indicating manifold in use in case the vessel is not in use.
- Alarm on low pressure back-up manifold cylinders

Statutory Requirements
All statutory requirements of the Chief Controller of Explosives of India and SMPV rules need to be followed, besides all regulations and guidelines put forward by the Govt. of
India from time to time should be followed.

Maintenance
All routine preventive maintenance and break-down maintenance of the liquid oxygen plant should be done by the vendor. Experienced personnel should be readily available.
Log of all works undertaken in the plant should be meticulously maintained by the vendor.

Bulk cylinders for the manifold will be arranged by the hospital. The hospital will ensure that the cylinders are full and ready to use during emergencies.

1.3 Emergency Oxygen Manifold – 2 x 20 Class-D type bulk cylinders

Manifold shall consist of two high pressure header bar assemblies to facilitate connection of 20nos of primary and 20nos of secondary cylinder supplies. Each header bar shall be provided with 20 numbers of cylinder pigtail connections to suit cylinder valves as per IS.3224 incorporating a check valve at the header connection. The high-pressure header bar shall be designed in such a manner that it can be extended to facilitate additional cylinder connections. Each header bar assembly shall be provided with a high pressure shut off valve.

Oxygen Manifold should consist of 2 rows of 20no of class D-type bulk oxygen cylinders. The manifold should be hydraulically tested to 3500 psig. The manifold should be so designed that it shall suit easy cylinder changing and positioning. The system should have non – return valves for easy changing of cylinders without closing the bank. The cylinder should be placed with the help of cylinder brackets and fixing chains which should be galvanized.

It shall confirm to HTM 02-01/NFPA 99C/DIN/EN

1.4 Fully Automatic Oxygen Control Panel:
Automatic control panel should be constructed in accordance with the requirement of international standards.

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

The manifold assembly should provide two stages of pressure regulation. A single stage primary regulator, one for each cylinder bank should be used to initially reduce cylinder pressure and two single stage pressure regulators should be provided in the control cabinet for final delivery pressure regulation. One delivery pressure regulator in service and one should be ready for service in a standby mode. The Manifold control panel should be digital, fully automatic type and switches from “Bank in Use” to “Reserve bank “ without fluctuation in delivery supply line pressure. Changeover should be performed by electrically/pneumatically operated valves contained in the control cabinet. In the event of an electrical power failure the valves should automatically open to provide an uninterrupted gas flow. It should be 100% automatic and should not require manual adjustment.
The automatic gas manifold control should include:

- supply pressure gauges x 2Nos
- delivery pressure gauge x 1No
- Line pressure regulators with bypass valve x 2Nos
- line pressure relief valve x 1No

- green in service LED indicators, one for each supply bank x 2Nos
- amber / yellow ready for service LED indicators, one for each supply valve x 2Nos
- red LEDs to indicate depleted cylinders, one for each supply bank x 2Nos
- Instruction for changing the cylinders should be clearly identified on the front of the control panel.
- All functional components should be enclosed in corrosion resistant robust material.

All components inside the Control Panel like Pressure Regulators, piping and control switching equipment should be cleaned for Oxygen Service and installed inside the cabinet to minimize tampering with the regulators or switch settings.

The Control Panel shall include two pressure relief valves, one high pressure approx.200psi and one low pressure approx.75 psi.

The heavy duty control panel should be provided with a flow capacity of 1500 to 2000 LPM at 50 to 60 psi

1.5 Oxygen Flow meter with Humidifier Bottle

Back Pressure Compensated flow meter for accurate gas flow measurement with following features:

A) Control within a range of 0-15 LPM.
B) It should meet strict precision and durability standard.
C) The flow meter body should be made of brass chrome plated materials.
D) The flow tube and shroud components should be made of clear, impact resistant polycarbonate.
E) Flow tube should have large and expanded 0-15 LPM range for improved readability at low flows.
F) Inlet filter of stainless steel wire mesh to prevent entry of foreign particles
G) The humidifier bottle is made of unbreakable & reusable polycarbonate /polysulfone material autoclavable at 121 degree centigrade .

1.6 High pressure tube for O2, N2O, Compressed Air, Nitrogen, CO2, & Vacuum

It should be colour coded for individual services i.e. white for Oxygen, Blue for N2O and Yellow for Vacuum, Black for air. Antistatic rubber tube should be as per ISO standards.

2. NITROUS OXIDE SYSTEM

2.1 Nitrous Oxide Manifold -2 X10 Class-D type bulk cylinders

Manifold shall consist of two high-pressure header bar assemblies to facilitate connection of primary and secondary cylinder supplies. Each header bar shall be provided with 10 number of cylinder pigtail connections to suit cylinder valves as per IS3224 incorporating a check valve at the header connection. The high-pressure header bar shall be designed in such a manner that it can be extended to facilitate additional cylinder connections. Each header bar assembly shall be provided with a high pressure shut off valve. The manifold should be so designed that it shall suit easy cylinder changing and positioning. The cylinder should be locked with the help of cylinder brackets and fixing chains which should be galvanized. It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN.

2.2 Fully Automatic Nitrous Oxide Control Panel

The fully automatic N2O control panel should comply with HTM 02-01/ NFPA 99 C/EN/DIN. It should be European CE Certified or UL listed under Medical Devices Directive.

The manifold assembly should provide two stages of pressure regulation. A single stage primary regulator, one for each cylinder bank should be used to initially reduce cylinder pressure and two single stage pressure regulators should be provided in the control cabinet for final delivery pressure regulation. One delivery pressure regulator in service and one should be ready for service in a Standby mode. The Manifold control panel should be digital, fully automatic type and switches from "Bank in Use" to "Reserve bank " without fluctuation in delivery supply line pressure. Changeover should be performed by electrically/pneumatically operated valves contained in the control cabinet. In the event of an electrical power failure the valves should automatically open to provide an uninterrupted gas flow. The manifold should not require any manual resetting or adjustments after the replacements of the depleted cylinders.

The automatic gas manifold control should include:

- supply pressure gauges x 2Nos
- delivery pressure gauge x 1No
- Line pressure regulators with bypass valve x 2 Nos
- line pressure relief valve x 1No
- green in service LED indicators, one for each supply bank x 2Nos
- amber / yellow ready for service LED indicators, one for each supply bank x 2Nos
- red LEDs to indicate depleted cylinders, one for each supply bank x 2Nos
- Instruction for changing the cylinders should be clearly shown on a metal plate attached on the front of the removable cover of the control panel.
- All functional components should be enclosed on fire resistant, robust synthetic polymer/SS.

The Control Panel shall include two pressure relief valves, one high pressure approx.200psi and one low pressure approx.75 psi.
The control panel should also have heaters to prevent ice formation on the regulators at high flow rates.
The Control Panel should be made to provide Heavy Duty and have a flow capacity of 1000 LPM at 50 to 60 psi.

2.3 Emergency N2O Manifold – 2 x 4 Class-D type bulk Cylinders

Manifold shall consist of two high-pressure header bar assemblies to facilitate connection of primary and secondary cylinder supplies. Each header bar shall be provided with 4 numbers of cylinder pigtail connections to suit cylinder valves as per IS 3224 incorporating a check valve at the header connection. The high-pressure header bar shall be designed in such a manner that it can be extended to facilitate additional cylinder connections. Each header bar assembly shall be provided with a high pressure shut off valve. Nitrous oxide manifold should consist of 2 rows of 4 cylinders. It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN.

The manifold should be hydraulically tested to 3500 psig. The manifold should be so designed that it shall suit easy cylinder changing and positioning. The system should have non – return valves for easy changing of cylinders without closing the bank. The cylinder should be placed with the help of cylinder brackets and fixing chains which should be galvanized.

3 CARBON DIOXIDE SYSTEM

Medical CO2 Manifold 2 x 4 Nos of Class-D type Cylinders

The Modular Manifold supply system shall provide carbon dioxide piped distribution system. It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN.

The Modular Manifold system should be in such a way that it increases flexibility and allows easy enlargement of the manifold capacity in case of future expansion. The system should comprise basic components and shall be constructed of i.e. Primary Header, Secondary Header, cylinder racks, non-return valve, blanking plug, and corner connector.

The primary head should be mounted on an 8 cylinder rack which can be connected to the left and right inlets of automatic Control Panel. Each header should have a class D type bulk cylinders with high pressure shut off valve. Corner connector should be available to enable installation of manifold headers around corners of the room. The manifold supply system cylinder rack should locate vertical gas cylinders which should be restrained by chains. It should be made from steel for durability and with powder coated paint finish.

Heater should be added to prevent freezing in the line and the line should be insulated properly.

Each Non-return valve shall have a hard seat ceramic ball. Soft seat Non-return valves are not acceptable. The non – return valves should be incorporated into the header assembly to protect the system in the event of tailpipe fracture. For better access and increased safety, the non-return valve block should be positioned on the header rack mid – way between the cylinder positions. Flexible copper tail pipes should be used to connect the gas cylinders and the manifold header connection points.

The CO2 manifold should be installed in a suitable location in OT complex.
A custom length corner connector shall also be available to enable header manifolds to be installed in a “U” configuration across 3 adjacent walls of the room. Manifold shall have specific tailpipe connections in accordance with HTM 02-01/ NFPA 99 C/EN/DIN.

3.1 Fully Automatic Control panel for CO2 System

The Manifold Control System should supply any type of medical gas from both left and right hand manifold banks. Operation and performance criteria should fully satisfy the requirements of HTM 02-01/ NFPA 99 C/EN/DIN. The fully automatic CO2 control panel should comply with the standard. It should be European CE Certified or UL listed under Medical Devices Directive.

The Manifold Control System shall supply on uninterrupted flow of **500 L/min**. to a 400 k Pa (4 bar) distribution system. Either the left or right hand manifold bank may be designated "Duty" and should automatically changeover to supply the distribution system from the "Standby" bank when pressure in the "Duty" bank falls to a predetermined level.

There should be a 2 stage duplex system of pressure regulation to provide a high flow rate. Each side should be capable of being fully isolated, via a full flow ball valve, in order to change any regulator without a cessation of supply. The inlet of the 1st stage regulator should be protected from the particulate matter by a moulded bronze filter.

All regulators should be protected from over-pressurization by relief valves which are vented to atmosphere. There should be a bypass valve fitted to the 2nd stage regulators to allow CO2 to be vented outside the manifold room during the commissioning stage. Regulators shall comply with BS EN ISO 10524-2 and shall have documented test reports available confirming successful completion of the oxygen ignition tests stated therein. Multi stage regulators combined into single unit is not acceptable.

To simplify installation there should be an installation bracket attached to the wall with four screws; the main panel then should locate on to this bracket and be secured. The Control Panel should be

housed in a single panel having a solid construction using epoxy technology in a glass reinforced polymer moulding for high strength, high chemical and corrosion resistance. The cover should hinge upwards but should remain facing outward for manual operation and maintenance accessibility. For added safety the voltage inside the panel should not exceed 12v dc. The mains supply transformer should be in its own housing in a moulded recess at the rear of the panel.

There should be a fail-safe system in the event of power failure so that solenoid valves open and there is full continuity of supply pressure and flow. Upon power restoration the unit should revert back to the original bank of cylinders being used. To avoid inadvertent resetting of the "change cylinder alarm" the solenoid valves should be latched so that once changeover has occurred and the cylinders have been replaced, a reset button must be operated to cancel the alarm condition.

To aid maintenance, the connections within the panel should be flat face/'O' ring design and facilitate easy removal of the regulators and pressure switches. There should be manual changeover buttons so that servicing either side of the system can be simply achieved. The PCB's should be linked with plug and socket connectors for easy removal. The manifold control systems should be 'CE' marked under the Medical Devices Directive (Lloyd's Register Quality Assurance).

4. VACUUM SYSTEMS

4.1 Oil Sealed Rotary Vane Medical Vacuum System

Rotary Vane Medical Vacuum System should comply with HTM 02-01/ NFPA 99 C/EN/DIN. It should be European CE Certified or UL listed under Medical Devices Directive for use in medical vacuum and dual Medical / Surgical applications. The unit shall consist of electric motor driven pumps vacuum receiver, electrical control system and interconnection piping and wiring. The components shall be modularly assembled for easy service.

4.1.1 Vacuum Pump Module

- It should fully comply and meets with the requirements of the standard.
- Designed flow capacity should be minimum 5000 LPM ± 10% variation in pentaplex/Quadraplex configuration.
- It should be European CE marked/UL listed. The medical vacuum plant shall **comprise pentaplex/Quadraplex, air-cooled, oil lubricated rotary vane vacuum pumps** to provide a flow rate of at least **5000 l/min ± 10%** with two pumps in standby to maintain a vacuum level of 450 mmHg at the plant connection point.
- The vacuum plant shall comprise five/four air-cooled; oil lubricated rotary vane vacuum pumps suitable for both continuous and frequent start/stop operation at inlet vacuum levels between 500mmHg and 660 mmHg.
- The control system should normally employ automatic rotation of the lead pump to maximize pump life and ensure even wear.
- 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 duplex bacteria filter system. Each individual filter shall have the capacity to deliver full design flow such that one set is designated duty and the other will be standby. Bacteria filters shall have efficiency at least 99.999% when tested by the sodium flame method in accordance with BS 3928:1969 utilising particles in the 0.02 to 2 micron size range. The pressure drop across each clean filter at 50% of the system design flow should not exceed 25 mm Hg (3 kPa) at a vacuum of 475mm of Hg (63 kPa). Bacteria filters shall be marked with the legend 'Bio-Hazard'.

- Each bacteria filter shall be provided with a transparent sterilizable 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 signalling into the alarm system as per the requirements of HTM 02-01/NFPA 99C. 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.

.4.1.2 Vacuum Receiver

The vacuum receiver shall be made of rust free corrosion resistant steel and fabricated as per IS:2825 for a vacuum pressure of 760mmHg. It should include bypass valves, manual drain valves, vacuum gauge. Vacuum reservoir shall have total volume of at least 100 % of plant output in one minute in terms of free air aspired at normal working pressure.

4.1.3 System Controls

The control include individual self-protected combination motor controls with short circuit, single phase and thermal overload protection, individual control circuit transformers with fuse less primary and secondary protection, pressure sensors, temperature switches with reset buttons, and an electronic controller to automatically change the operating sequence of the compressors. The system should have a status display to show the system pressure, elapsed time, maintenance interval, fault conditions, and silence button, lighted Hand-Off-Automatic selector switches and safety disconnect operating handles.

All required local alarm functions should be integrated into the packaged system. The circuitry should be designed so that the audible signal can be silenced and the visual indicator will remain until the fault has been cleared and the reset button resets. Local alarm functions should be annunciated for reserve pump in use.

4.1.4 Accessories

Accessories included for job site installation are inlet and discharge flexible connectors, vibration mounting pads, and source isolation valve, inlet check valve, oil temperature gauge, thermal malfunction switch and vacuum control switch. Flexible connectors on inlet and exhaust of each pump, exhaust tee with union as well as copper tubing with Shut-off-cock for gauge and vacuum switch etc.

4.1.5 Bacterial Filters

The filters should be designed for removal of solid, liquid and bacterial contamination from the suction side of vacuum pump systems, preventing damage to the pump and the potential biological infection of the surrounding environment. The dryer should be particulate filter dryer with ability to remove particles as small as 1micron.

4.2 Ward Vacuum Units

- It must consists of the following:- 1no of Suction Regulator and 1no of 1000 ml polysulfone /polycarbonate collection jar.
- Suction Regulator: Suction regulator should be supplied with a safety jar, including and antibacterial filter and an anti-overflow safety device. Should have wide membrane continuous suction controller
- Should have vacuum levels: 0-760 mm of Hg

- Should have vacuum gauge fitted with a protective bumper device.
- Should have on/off knob allowing for the quick restoration of a readjusted vacuum level.
- Must have central adjustment knob with a color coded for 0 to 760 mm of Hg. Should have Polysulfone/polycarbonate 1000cc safety jar, autoclavable at 121º C at 5mins, unbreakable, fitted with an anti-overflow safety device and equipped with a plastic antibacterial filter. It should be totally transparent, to ensure perfect sucked liquid visibility.

4.3 Theatre Vacuum unit

- It must consist of the following: - 1no. Suction Regulator and 2nos. 4000ml polysulfone/polycarbonate collection jar and both to be mounted on a trolley.
- Suction Regulator: Suction regulator should be supplied with a safety jar, including an anti-bacterial filter and an anti-overflow safety device. Should have wide membrane continuous suction controller
- Should have vacuum levels : 0-760 mm of Hg
- Should have vacuum gauge fitted with a protective bumper device.
- Should have on/off knob allowing for the quick restoration of a readjusted vacuum level.
- Must have central adjustment knob with a color coded for 0-760 mm of Hg. Should have polysulfone/polycarbonate safety jar, autoclavable at 121º C, unbreakable, fitted with an anti-overflow safety device and equipped with a plastic antibacterial filter.
- Collection jar should be totally transparent, to ensure perfect sucked liquid visibility.

5. MEDICAL AND SURGICAL AIR SYSTEM

Should have the following main features

- Air-cooled compressors for continuous duty application
- Highest output of compressed air per HP i.e. low power consumption
- Very low vibration resulting in low noise level

5.1 Air Compressor

- **Pentaplex /Qudraplex Rotary screw/scroll** Continuous duty Compressed Air System with Desiccant Dryers**.** Air compressor with multistage air/oil filters or oilfree compressor should be supplied**.**

5.1.1 Compressor Modules

It should be **Pentaplex /Quadruplex Medical Air Plant of 7000 lpm (Package unit**). The medical air plant shall fully comply with the requirements of the HTM 02-01/ NFPA 99 C/EN/DIN. It should be European CE/ UL listed.

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 7000 l/min.

Compressor plant should be designed in such a way that compressors will switch on in a sequential manner as per flow demand.

Three/two identical air compressors should run to provide a flow rate of 7000lpm and two identical air compressors will be standby. The compressors should be standalone ones with independent power supply

Each rotary screw/scroll compressors should be suitable for both continuous and frequent start/stop operation at a nominal outlet pressure of 13 bar shall be provided. 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. In the case of oil injected compressor, each compressor shall be fitted with a multistage 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 the limit. Duplex desiccant dryer and filtration modules 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 1micron.
Stage 2: Particulate filter after the desiccant dryer for dust protection and removing particles down to 1 micron.
Stage 3: Bacteria filter for removing particles down to 0.01 micron.

Purity should be tested as per the standard..

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 and a drain cock. The plant control and power management system shall monitor the safe operation of the plant, providing signal into the alarm system as per the requirements of the standard.

Pressure Reducing Station for 4 bar and 7 bar should fully comply and meet with the requirements of the standard. Simplex pressure reducing station shall comprise as in-line pressure regulator, with downstream pressure gauge. Isolation valves and pressure release valves should be provided as per the standard.

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 which operate from fully open to fully closed position 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.

The compressor system should have-

- Intake filter Check Valve Delivery pipe
- Mounting on air tank along with all standard fittings viz. safety valve, pressure gauge, delivery valve, drain valve etc.
- Bidder shall provide all electric control panels, starters etc required for proper functioning of motor.
- Desiccant Air Dryer – 2 nos.
- Twin 3-Stage Breathing Air Filters – 2 sets
- Outlet pressures for drills/equipment and ventilators should be a minimum of 7 bar and 4 bar respectively.

The compressor should be heavy duty, reliable with long MTBF. Each compressor cylinder is to be protected by a temperature switch, which will stop the drive motor and provide an alarm signal in the event of abnormal discharge air temperature. Each compressor module should include an inline filter with particle retention of 10 microns, inlet isolation valve, discharge isolation valve, and pressure relief valve. The capacity should be capable to take care of total load of all the outlets.

5.2 Vertical Air Receiver

The corrosion resistant coated receiver is to be equipped with tested safety pressure relief valve, sight glass pressure gauge, automatic drain, three-valve by-pass and source isolation valve. 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.

5.3 Air Treatment Module

The air treatment module should include dual dryers, dual filtration system and a dewpoint transmitter with local audible and visual signals and dry contacts for remote monitoring. The components should be mounted on a common base with interconnecting copper/brass piping and upstream and downstream isolation valves. The isolation valves must allow either set of components to be serviced without shutting down the system.

Dryers should be of heatless desiccant design and sized to provide for the peak calculated demand. The desiccant dryers should be equipped with dew point dependent switching feature to minimize the need for purge air.

The dual filtration system should remove liquid and particulate matter, consisting of 0.5micron coalescing filters with differential pressure indicators and automatic drain, airline pressure regulators with gauges, final pressure relief valve, and sampling valve.

Each bank should consist of three stage treatment. Digital dew point monitor is to be supplied with alarm contacts as per requirement of the standard.

5.4 System Controls

The electrical control should comply with HTM 02-01/NFPA 99C/EN/DIN standards. .The “Continuous on Demand” feature will stop the operation of the motors during periods of low or no demand. The control include individual self-protected combination motor controls with short circuit protection, single phase and thermal overload protection, individual control circuit transformers with fuseless primary and secondary protection, pressure sensors, temperature switches with reset buttons, and an electronic controller to automatically change the operating sequence of the compressors. The cabinet shall have status display to include system pressure, dew point pump operation, accumulated time, maintenance interval, fault conditions, and silence button, lighted Hand-Off-Automatic selector switches and safety disconnect operating handles. All required local alarm functions shall be integrated in to the packaged system.

The system should be designed to function even if the programmable controller fails.

5.5 Accessories

Accessories including for job site installation such as inlet and discharge flexible connectors, vibration mounting pads, and source isolation valve should be supplied.

6. DISTRIBUTION PIPING

6.1 Piping specifications

Copper pipe should be as per standard BS: EN 13348 :2008 standards; Solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe conforming to the standard. All copper pipes should be degreased & delivered capped at both ends. The pipes should be accompanied with manufacturers test certificate for the physical properties & chemical composition.

Copper pipe must have reputed third party inspection certificate (Eg. Lloyd's or TUV or SGS). Fittings should be made of copper and suitable for a working Pressure of up to 17bar and especially made for brazed socket type connections.

The isolation valve body shall be made of chromium plated brass with non lubricated ball-type. All valves shall be pneumatically tested for twice the working pressure and factory degreased for medical gas service.
Copper fittings should comply with EN 1254:1 factory degreased and brazing filler metals should comply with EN 1044. Fitting should be degreased, individually packed for medical use.

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

Should have Lloyds certification for pipes and other materials.
The Pipe Sizes to be used are from among as under:

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. ALARM SYSTEM

7.1 Master Alarm

Each Master Alarm should be modular in design and be fitted with required number of master alarm modules. The master alarms should be capable to monitor from 10 to 30points in a standard box or 10 to 50 points in a large box.

Each point represents an alarm condition that the source equipment might have. When an alarm condition exists, a red light flashes and the audible alarm sounds. If several alarm conditions occur simultaneously, the most recent alarm light should flash, while the other alarm lights should remain lit. When an alarm condition is created, an audible alarm should be actuated. A dry contact module should be available to interface with a building management system.

The box material should be of gauge steel of requisite thickness and equipped with mounting brackets that are adjustable up to a drywall thickness of 1-1/4” (32 mm). The emissions from alarms should conform with EMC standards.

Bidder shall be responsible for all cabling from local alarm panels to master alarm panel .

Features

- Complies with HTM 02-01 / NFPA 99C/EN/DIN.
- High visibility LED/LCD readouts
- Circuitry allows for Normally Open or Normally Closed.
- Adjustable audible alarm repeat (from 1 to 99 minutes)

- Can be interfaced with BMS
- Should be European CE Certified or UL listed under Medical Devices Directive.

7.2 Medical Gas Alarm (Main & Area)

The medical gas central alarms should be capable of monitoring 6 medical gas services by means of pressure sensors which detect deviations from the normal operating limits of either pressure or medical vacuum. The area alarm should have a digital/analogue display of pressures. The medical gas area alarm should fully satisfy the HTM 02-01/ NFPA 99 C/EN/DIN requirements and should be CE Certified or UL listed under Medical Devices Directive.

Each gas service should be displayed by coloured LED's to show 'Normal' (green), 'Low' and 'High Pressure' (red) conditions. Medical vacuum systems should be displayed in the 'Normal' (green) and 'Low Vacuum' (red) conditions only.

Failure indications should be displayed by flashing lights and normal indications should be steady light. An audible warning should sound simultaneously with any failure indication and a mute facility should be provided. Following a mute selection the audible should resound after approximately 15 minutes, or should operate simultaneously should a further alarm condition occur. A maintenance ‘Mute’ switch should be provided internally to the panel for use during maintenance which results in prolonged pipeline or plant shutdown. This facility should automatically reset when the gas service returns to normal.

The alarm panel should have a 'test' facility to prove the integrity of the internal circuits, LED's and audible warning. The alarm panel should 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.

The alarm should be microprocessor based with individual microprocessor on each module and should provide interface to Gas Delivery Management System. A centralised alarm in the manifold room is also essential.

8. AREA VALVE SERVICE UNIT

Area valve service units should fully comply and meet with HTM 02-01/NFPA 99C/EN/DIN .It Should provide a zone isolation facility for use either in an emergency or for maintenance purpose. The Area Valve Service Unit should incorporate a ball valve with NIST connectors either side mounted in a lockable box with emergency access. It should be reliable and easy to operate and must have NIST connectors facilitate easy purge, sample & pressure testing and emergency supply system.

The unit should be pre-piped, wired and tested ready for installation into a finished building. Medical gas/vacuum services should be fixed copper, piped to and from their respective area valve service units. A color coded service identity label should be fitted behind the valve handle. The unit should provide a zone isolation facility, for use either in an emergency or for maintenance purposes. The box shall be made from extruded aluminium to prevent corrosion. All wetted parts (except seals and gaskets) should be brass or copper. Each unit assembly should be factory tested for gas tightness. Rubber pipe grommets should be provided to ensure any leaking gas does not escape from the unit into a wall cavity. All visible aluminum surfaces should be powder coated.

9. PENDANTS AND BED HEAD PANELS

9.1 Single Arm Moveable Pendant for minor Operation Theatre

The Ceiling Pendants should comply with HTM 02-01/ NFPA 99 C/EN/DIN. The support arms should be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position. Pendant should be European CE Certified or UL listed under Medical Devices Directive.

The Pendant should be available as follows:

- 1000 mm moveable arm with 340 deg. Horizontal.
- The weight carrying capacity of the arm should not be less than 200 Kgs.
- Should have electromagnetic brakes.
- Arm should be capable of 300-340 degrees of rotation, which can be easily adjusted to suit the desired mode of operation.
- The Pendant Service Heads should have modular head. The head should be capable of accepting a range of shelves, and infusion poles or other accessories.
- The Pendant Head should support the range of Monitor Mounting Solutions.
- The Pendant Service Head should be supplied with medical gas terminal units and 5/15 Amps. Electrical Sockets.
- The medical gas outlets should be provided with pendant as per specification of gas outlets. Each pendant should have:

  Oxygen Outlets– 2,
  Nitrous Oxide Outlet – 2,
  Air (4 bar) Outlets– 2,
  Vacuum Outlets– 2,
  AGSS outlet - 1
  Electrical Sockets - 6 nos. (at least 3nos of UPS sockets).
  Two/Three Shelf with two rails one on each side – 1 no.
  Monitor rack

9.2 Horizontal Bed Head Panel.

It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN. It should have following features

- Efficient, Safe & Robust design in extruded aluminium section.
- Smooth curved surfaces, and choice of base colour and fascia plates.
- Unit should have integrated rail system to mount accessories
- The headwall system should be constructed of aluminium extrusions joined together to form a carcass to suit the particular application. Unit should be factory assembled for electrical and mechanical components.
- Segregation of services i.e. Low voltage supplies, High Voltage supply and Medical gases should be maintained throughout.
- Front fascia plate should be removable individually to access for respective service.
- Bed space management system with optional equipment rail. With all Equipment Rail mount Accessories.
- All down drops should be installed at one end preferably & Vertical drop installed at one end should be covered with Aluminum boxing with matching color.
- Entire pipe line should run in continuous horizontal panels with no break for each unit & length as per area where it has to be installed.

- Each bedhead unit shall be supplied with electrical and electrical outlets prefitted ,wired and certified. (wired up to the distribution box provided with leakage protection)
- Facility per unit as under:
  Oxygen – 2
  Vacuum – 2
  Medical Air-2
  Holder for vacuum collection jar –1
  Nurse call switch – 1
  Gooseneck lamp with flexible LED lighting – 1
  Infusion pump mount pole with adapter for mounting at least two infusion pumps
  5 /15 A combined Electrical outlets – 6.
  RJ-45 socket -01
  Two spare spaces
  Monitor Bracket

10. GAS OUTLETS

10.1 Terminal Units (Gas Outlets) with probes/Adaptors for O2, N2O, Compressed Air (4), AGSS, Vacuum & CO2 (CO2 can be optional depending on the requirement)

The Medical gas outlets shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN.Front Loading Type Terminal Outlets should be designed to dispense medical gases (or an inlet for medical vacuum) to the secondary equipment (flow meters, Suction regulators, etc.) at the point of use and is gas specific so that secondary devices cannot be "attached" to the wrong gas. When not in use the gas in a non-flowing state within the Outlet (Terminal unit) sealed by "O" ring. The adapter when inserted pushes the poppet inside and the gas starts flowing and sealing is ensured by the "O" ring or a seat. The Outlets are Quick Connect Type and gas specificity is accomplished by "Pin indexing." The outlets should have following features:

• Push to insert and press-to-release mechanism for probes.
• Allows plugging of probes from front.
• Self-sealing valve on disengaging the probe (Quick disconnect)
• Smooth quite action.
• Non return valve for on line servicing/ repairing
• Indexed to eliminate inter-changeability of gas services
• Color-coded gas specific front plate
• Flow rate exceeds the requirements of ISO 9170 – 1.
• Totally leak proof, safe & easy to operate
• Configurations possible: surface, flush & Bead-head.
Outlet should be European CE certified or American UL listed

11. AGSS (Anesthetic Gas Scavenging System) Plant –2500 LPM)

Duplex Anesthetic Gas Scavenging System (AGSS) of 2500 l/min. should be European CE Certified or UL listed under Medical Devices Directive. It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN. Duplex AGSS System with twin stand alone AGSS pumps of 3phase 2500 l/min capacity each with built in flow indication and pressure regulation valve. It should be mounted on single frame with control panel and separate warning label. One pump working and one stand by and vice versa. The package should consist of two rotary vane vacuum pumps, a control panel, and mounted on a common base frame.

AGSS pump: AGSS pump shall operate completely dry permanently lubricated and sealed. Each pump should be completely air cooled and have absolutely no water requirements.

Control System: The duplex control system should conform to International Standards. The control system should 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 and audible reserve unit alarm with isolated contacts for remote alarm. Should be in duplex format and must be chassis mounted ready for installation. Duplex system in-line non-return values should allow individual pump servicing. Active anesthetic gas scavenging systems should be 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. AGSS design should be dependent upon flow rate and pressure drop characteristics of the individual components of a systems, it is essential that terminal units, remote controls and pump units. AGSS Remote Control indicator must be provided for each OT with the system.

Installation should be on roof top. Piping, Non-Return-Valves (NRVs), and inlet nozzle should be suitably placed.

12. NITROGEN MANIFOLD SYSTEM

12.1 Nitrogen Manifold 2 x 4 Nos of Class-D Cylinders

The Manifold supply system shall provide Nitrogen piped distribution system. It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN.

The Modular Manifold system should be in such a way that it increases flexibility and allows easy enlargement of the manifold capacity in case of future expansion. The system should comprise basic components and shall be constructed of i.e. Primary Header, Secondary Header, cylinder racks, non-return valve, blanking plug, and corner connector.

The primary head should be mounted on an 8 cylinder rack which can be connected to the left and right inlets of automatic Control Panel. Each header should have a brass block with 2 non – return valves and brazed connection pipe. Corner connector should be available to enable installation of manifold headers around corners of the manifold room. The manifold supply system cylinder rack should locate vertical gas cylinders which should be restrained by chains. It should be made from steel for durability and with powder coated paint finish.

Each Non-return valve shall have a hard seat ceramic ball. Soft seat Non-return valves are not acceptable. The non – return valves should be incorporated into the header assembly to protect the system in the event of tailpipe fracture. For better access and increased safety, the non-return valve block should be positioned on the header rack mid – way between the cylinder positions. Flexible copper tail pipes should be used to connect the gas cylinders and the manifold header connection points.

The N2 manifold should be installed in a suitable location in OT complex.
A custom length corner connector shall also be available to enable header manifolds to be installed in a “U” configuration across 3 adjacent walls of the room. Manifold shall have specific tailpipe connections in accordance with HTM 02-01/ NFPA 99 C/EN/DIN

12.2 Fully Automatic Control panel for N2 System

The Manifold Control System should supply any type of medical gas from both left and right hand manifold banks. Operation and performance criteria should fully satisfy the requirements of HTM

02-01/ NFPA 99 C/EN/DIN. The fully automatic Nitrogen control panel should comply with the standard, CE Certified or UL listed under Medical Devices Directive.

The Manifold Control System shall supply on uninterrupted flow of **1500 L/min**. to a (7 bar) distribution system. Either the left or right hand manifold bank may be designated "Duty" and should automatically changeover to supply the distribution system from the "Standby" bank when pressure in the "Duty" bank falls to a predetermined level.

There should be a 2 stage duplex system of pressure regulation to provide a high flow rate. Each side should be capable of being fully isolated, via a full flow ball valve, in order to change any regulator without a cessation of supply. The inlet of the 1st stage regulator should be protected from the particulate matter by a moulded bronze filter.

All regulators should be protected from over-pressurization by relief valves which are vented to atmosphere. There should be a bypass valve fitted to the 2nd stage regulators to allow Nitrogen to be vented outside the room during the commissioning stage. Regulators shall comply with BS EN ISO 10524-2 and shall have documented test reports available confirming successful completion of the oxygen ignition tests stated therein. Multi stage regulators combined into single unit is not acceptable.

To simplify installation there should be an installation bracket attached to the wall with four screws; the main panel then should locate on to this bracket and be secured. The Control Panel should be housed in a single panel having a solid construction using epoxy technology in a glass reinforced polymer moulding for high strength, high chemical and corrosion resistance. The cover should hinge upwards but should remain facing outward for manual operation and maintenance accessibility. For added safety the voltage inside the panel should not exceed 12v dc. The mains supply transformer should be in its own housing in a moulded recess at the rear of the panel.

There should be a fail-safe system in the event of power failure so that solenoid valves open and there is full continuity of supply pressure and flow. Upon power restoration the unit should revert back to the original bank of cylinders being used. To avoid inadvertent resetting of the “change cylinder alarm” the solenoid valves should be latched so that once changeover has occurred and the cylinders have been replaced, a reset button must be operated to cancel the alarm condition.

To aid maintenance, the connections within the panel should be flat face/'O' ring design and facilitate easy removal of the regulators and pressure switches. There should be manual changeover buttons so that servicing either side of the system can be simply achieved. The PCB's should be linked with plug and socket connectors for easy removal. The manifold control systems should be 'CE' marked under the Medical Devices Directive (Lloyd’s Register Quality Assurance).

Part -B

Sufficient suitable trained operator for running and maintenance of MGPS for two years should be provided – Rate to be offered separately on monthly basis for two years which will be added for the comparison purposes. Also define the number of person.

Training – Training to be provided at site to five persons from each institute for 2weeks

BOQ FOR MGPS - AIIMS BHOPAL

SN.	Item Description	Quantity
1	**LIQUID OXYGEN FACILITY-20KL (1 No) and 10 KL (1 No)**	
1.1	Facility including 20KL and 10 KL vessels, VIE's, AV coils and accessories	**LS**
1.2	Installation and commissioning charges - One time lump sum charge	**LS**
1.3	Charges for laying of 1" copper line for Hospital block. (Any extra length will be charged as actuals at the rate quoted.)	100
1.4	Total Cost of civil construction for running the pipeline from LO plant to Hospital block either by trenching or by supporting poles if required.(Steel structure for exposed lines with PVC pipe protected(on 2" pole of 20 ft height, on concrete foundation at a spacing of 3 m. 1" copper tubing inserted in 1.5" PVC/ HDP heat resistant pipe clamped on support at the top of the pole. PVC pipes sealed by 1.5" PVC coupling & PVC cement)	**LS**
1.5	Total Civil Works cost a) Fencing in MS properly anchored and painted to withstand corrosion; b) Foundation for one number each 20 KL tank and 10 KL tank c) Gate 5m wide with double leaf & 1 m wicket gate d) 2 no: s of 10 kg DCP fire extinguishers e) 4 no. s of Fire buckets f) 8 no: s of sodium vapour lamps on poles g) Signage for the system	**LS**
1.6	Basic price of LMOs (including delivery charge)	-
1.7	Fully Automatic control Panel for switchning between Primary (20 KL), Secondary (10 KL) and emergency cylinder bank.	1
2	**Oxygen Supply Manifold System, (2x20 size**) : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.1	**Fully Automatic Oxygen Control Panel System** : Supply, Installation testing and commissioning of Fully Automatic Oxygen Control Panel System as per tender technical specifications and HTM 02-01/NFPA 99 C standards. Control panel should be able to meet the flow rate.	1
2.2	**Emergency Oxygen Supply Manifold System, (2x10 size**) : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1

2.3	**Oxygen Flow meter with Humidifier Bottle:** Supply installation, testing and commissioning of oxygen flow meter with humidifier bottle 0-15Litres. As per tender technical specifications	1000
3	**Fully Automatic Manifold Control Panel for Nitrous Oxide:** Supply installation testing and commission of fully automatic control panel for Nitrous Oxide as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
3.1	**Nitrous Oxide Manifold System, (2x10 size):** Supply installation testing and commissioning of (2x10 size) class D cylinder Nitrous Oxide Manifold system as per tender technical specifications.	1
3.2	**Emergency Nitrous Oxide Manifold System, 2x4 size:** Supply installation, testing and commissioning of (2x4 size) cylinder Emergency Nitrous Oxide supply System as per tender technical specifications.	1
4.1	**Fully Automatic Manifold Control Panel for Nitrogen:** Supply installation testing and commission of fully automatic control panel for N2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
4.2	**Nitrogen Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder Nitrogen Manifold system as per tender technical specifications.	1
5	**Medical Air Plant (Package Unit) with Pentaplex Air Compressor including electrical control panel:** Supply, Installation, testing and commissioning of Rotary Screw/Scroll type Pentaplex Medical Air Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification	2
5.1	Air Filtration System	4
5.2	Pressure reducing station	4
5.3	Desiccant Air Dryer	4
6	Medical Vacuum Plant Package Pentaplex vacuum pumps: **Supply, Installation, testing and commissioning of Rotary Vane type Oil-lubricated Pentaplex Medical Vacuum Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification**	1
6.1	Bacterial Filters as per tender technical specification	1
7	**Ward Vacuum Unit:** Suply installation testing and commissiong of Ward Vacuum Unit as per tender technical specifications.	1000
8	Theater Vaccum Unit for Operation Theaters: **Suply installation testing and commissiong of Theater Vacuum Unit as per tender technical specifications.**	40
9	**Fully Automatic Manifold Control Panel for CO2:** Supply installation testing and commission of fully automatic control panel for CO2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
9.1	**CO2 Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder CO2 Manifold system as per tender technical specifications.	1

10	**Duplex AGSS System:** Supply installation and commissioning of Duplex AGSS system as per technical specifications abd including wiring from plant room to MOTs.	2
11	**Copper Pipes**	
11.1	Solid drawn, seamless, deoxidised, non- arsenical, half hard, tempered and degreased copper pipes as per tender technical specifications	
	108 mm OD x 1.5 mm thick	100
	76 mm OD x 1.5 mm thick	700
	54mm OD X 1.2mm thick	1000
	42mm OD X 1.2mm thick	2000
	35mm OD X 1.2mm thick	1100
	28mm OD X 1 mm thick	4000
	22mm OD X 1 mm thick	14000
	15mm OD X 1 mm thick	11000
	12mm OD X 1 mm thick	14000
12	**Gas Outlet Points/ Terminal Units with probe:** Supply,Installation, testing and commissioning of Gas outlet points for Oxygen, Nitrous Oxide, Medical Air 4 Bar , Vacuum, CO2 , and AGSS .	
	Oxygen outlet with probe	1360
	Nitrous Oxide outlet with probe	12
	Medical Air 4 outlet with probe	450
	Vacuum outlet with probe	1360
	CO2 outlet with probe	4
	AGSS outlet with probe	12
	Nitrogen outlet with probe	4
13	AREA VALVE BOX (WITHOUT VALVES) : **Supply,Installation, testing and commissioning of Area Valve Boxes**	
	Valve Box - 3 Gas Service with NIST Connection	80
	Valve Box - 5 Gas Service with NIST Connection	60
	Valve Box - 6 Gas Service with NIST Connection	10
14	**MEDICAL GAS ALARM PANEL** : Supply, Installation, testing and commissioning of Medical Gas Alarm Panel.	
14.1	Medical Gas Area Alarm for 2 services (Oxygen,and Vacuum)	60
14.2	Medical Gas Area Alarm for 3 services (Oxygen, MA4 Air and Vacuum)	50
14.3	Medical Gas Area Alarm 5 services (Oxygen, N2O, MA4 Air , AGSS ,and Vacuum)	35
14.4	Medical Gas Area Alarm 6 services (Oxygen, N2O, MA4 Air ,AIR 7 bar AGSS ,and Vacuum)	10
14.5	Master Alarm Panel as per technical specifications.	1
15	**LINE ISOLATION VALVES**	
	12 mm ball valve	340
	15 mm ball valve	340

	22 mm ball valve	80
	28 mm ball valve	40
	35 mm ball valve	30
	42 mm ball valve	40
	54 mm ball valve	20
	76 mm ball valve	10
	108 mm ball valve	3
16	Supply installation testing and commissioning of Medical gas hose assemblies Hoses shall be color coded throughout their length as specified in British standards .	200
17	Supply of O2 cylinders-Class D type bulk	100
18	Supply of N2O cylinders-Class D type bulk	50
19	Supply of CO2 cylinders-Class D type	10
20	Supply of Nitrogen cylinders-Class D type	10
21	Bed Head Horizontal Wall Panel	420
22	Single Arm Movable Pendant	12
23	Electric wiring inside the gas manifold and plant room including control panel for Vacuum plant & Air plant	1

BOQ FOR AIIMS JODHPUR

SN.	Item Description	Quantity
1	**LIQUID OXYGEN FACILITY-20KL (1 No) and 10 KL (1No)**	
1.1	Facility charges including 20KL vessel, 10 KL vessel VIE's, AV coils and accessories	**LS**
1.2	Installation and commissioning charges - One time lump sum charge	**LS**
1.3	Charges for laying of 1" copper line for Hospital block. (Any extra length will be charged as actuals at the rate quoted.)	100
1.4	Total Cost of civil construction for running the pipeline from LO plant to Hospital block either by trenching or by supporting poles if required.(Steel structure for exposed lines with PVC pipe protected(on 2" pole of 20 ft height, on concrete foundation at a spacing of 3 m. 1" copper tubing inserted in 1.5" PVC/ HDP heat resistant pipe clamped on support at the top of the pole. PVC pipes sealed by 1.5" PVC coupling & PVC cement)	**LS**
1.5	Total Civil Works cost a) Fencing in MS properly anchored and painted to withstand corrosion; b) Foundation for one number each 20 KL tank and 10 KL tank c) Gate 5m wide with double leaf & 1 m wicket gate d) 2 no: s of 10 kg DCP fire extinguishers e) 4 no. s of Fire buckets f) 8 no: s of sodium vapour lamps on poles g) Signage for the system	**LS**
1.6	Basic price of LMOs (including delivery charge)	-

1.7	Fully Automatic control Panel for switchning between Primary (20 KL), Secondary (10 KL) and emergency cylinder bank	1
2	**Oxygen Supply Manifold System, (2x20 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.1	**Fully Automatic Oxygen Control Panel System** : Supply, Installation testing and commissioning of Fully Automatic Oxygen Control Panel System as per tender technical specifications and HTM 02-01/NFPA 99 C standards. Control panel should be able to meet the flow rate.	1
2.2	**Emergency Oxygen Supply Manifold System, (2x10 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.3	**Oxygen Flow meter with Humidifier Bottle:** Supply installation, testing and commissioning of oxygen flow meter with humidifier bottle 0-15Litres. As per tender technical specifications	710
3	**Fully Automatic Manifold Control Panel for Nitrous Oxide:** Supply installation testing and commission of fully automatic control panel for Nitrous Oxide as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
3.1	**Nitrous Oxide Manifold System, (2x10 size):** Supply installation testing and commissioning of (2x10 size) class D cylinder Nitrous Oxide Manifold system as per tender technical specifications.	1
3.2	**Emergency Nitrous Oxide Manifold System, 2x4 size:** Supply installation, testing and commissioning of (2x4 size) cylinder Emergency Nitrous Oxide supply System as per tender technical specifications.	1
4.1	**Fully Automatic Manifold Control Panel for Nitrogen:** Supply installation testing and commission of fully automatic control panel for N2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
4.2	**Nitrogen Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder Nitrogen Manifold system as per tender technical specifications.	1
5	**Medical Air Plant (Package Unit) with Pentaplex Air Compressor including electrical control panel:** Supply, Installation, testing and commissioning of Rotary Screw /scroll type Pentaplex Medical Air Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification	1
5.1	Air Filtration System	2
5.2	Pressure reducing station	2
5.3	Desiccant Air Dryer	2
6	Medical Vacuum Plant Package Pentaplex vacuum pumps: **Supply, Installation, testing and commissioning of Rotary Vane type Oil-lubricated Pentaplex Medical Vacuum Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification**	1
6.1	Bacterial Filters as per tender technical specification	1

7	**Ward Vacuum Unit:** Suply installation testing and commissiong of Ward Vacuum Unit as per tender technical specifications.	710
8	Theater Vaccum Unit for Operation Theaters: **Suply installation testing and commissiong of Theater Vacuum Unit as per tender technical specifications.**	34
9	**Fully Automatic Manifold Control Panel for CO2:** Supply installation testing and commission of fully automatic control panel for CO2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
9.1	**CO2 Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder CO2 Manifold system as per tender technical specifications.	1
10	**Duplex AGSS System:** Supply installation and commissioning of Duplex AGSS system as per technical specifications, including wiring from plant room to MOTs.	2
11	**Copper Pipes**	
11.1	Solid drawn, seamless, deoxidised, non- arsenical, half hard, tempered and degreased copper pipes as per tender technical specifications	
	108 mm OD x 1.5 mm thick	400
	76 mm OD x 1.5 mm thick	400
	54mm OD X 1.2mm thick	1500
	42mm OD X 1.2mm thick	2000
	35mm OD X 1.2mm thick	4000
	28mm OD X 1 mm thick	4000
	22mm OD X 1 mm thick	6000
	15mm OD X 1 mm thick	7000
	12mm OD X 1 mm thick	11000
12	**Gas Outlet Points/ Terminal Units with probe:** Supply,Installation, testing and commissioning of Gas outlet points for Oxygen, Nitrous Oxide, Medical Air 4 Bar , Vacuum, CO2 , and AGSS .	
	Oxygen outlet with probe	1060
	Nitrous Oxide outlet with probe	3
	Medical Air 4 outlet with probe	300
	Vacuum outlet with probe	1060
	CO2 outlet with probe	4
	AGSS outlet with probe	3
	Nitrogen outlet with probe	4
13	AREA VALVE BOX (WITHOUT VALVES) : **Supply,Installation, testing and commissioning of Area Valve Boxes**	
	Valve Box - 3 Gas Service with NIST Connection	40
	Valve Box - 5 Gas Service with NIST Connection	28
	Valve Box - 6 Gas Service with NIST Connection	6
14	**MEDICAL GAS ALARM PANEL** : Supply, Installation, testing and commissioning of Medical Gas Alarm Panel.	

14.1	Medical Gas Area Alarm for 2 services (Oxygen and Vacuum)	40
14.2	Medical Gas Area Alarm for 3 services (Oxygen, MA4 Air and Vacuum)	40
14.3	Medical Gas Area Alarm 5 services (Oxygen, N2O, MA4 Air , AGSS ,and Vacuum)	28
14.4	Medical Gas Area Alarm 6 services (Oxygen, N2O, MA4 Air ,AIR 7 bar, AGSS ,and Vacuum)	6
14.5	Master Alarm Panel as per technical specifications.	1
15	**LINE ISOLATION VALVES**	
	12 mm ball valve	300
	15 mm ball valve	220
	22 mm ball valve	80
	28 mm ball valve	35
	35 mm ball valve	10
	42 mm ball valve	10
	54 mm ball valve	20
	76 mm ball valve	10
	108 mm ball valve	2
16	Supply installation testing and commissioning of Medical gas hose assemblies Hoses shall be color coded throughout their length as specified in British standards .	50
17	Supply of O2 cylinders-Class D type bulk cylinders	100
18	Supply of N2O cylinders-Class D type bulk cylinders	50
19	Supply of CO2 cylinders-Class D type cylinders	10
20	Supply of Nitrogen cylinders-Class D type bulk cylinders	10
21	Bed Head Horizontal Wall Panel	250
22	Single Arm Movable Pendant	3
23	Electric wiring inside the gas manifold and plant room including control panel for Vacuum plant & Air plant.	1

BOQ FOR AIIMS BHUBANESWAR

SN.	Item Description	Quantity
1	**LIQUID OXYGEN FACILITY-20KL (1 No) and 10 KL (1 NO)**	
1.1	Facility charges including 20KL vessel, 10 KL vessel, VIE's, AV coils and accessories	**LS**
1.2	Installation and commissioning charges - One time lump sum charge	**LS**
1.3	Charges for laying of 1" copper line for Hospital block. (Any extra length will be charged as actuals at the rate quoted.)	100

1.4	Total Cost of civil construction for running the pipeline from LO plant to Hospital block either by trenching or by supporting poles if required.(Steel structure for exposed lines with PVC pipe protected(on 2" pole of 20 ft height, on concrete foundation at a spacing of 3 m. 1" copper tubing inserted in 1.5" PVC/ HDP heat resistant pipe clamped on support at the top of the pole. PVC pipes sealed by 1.5" PVC coupling & PVC cement)	**LS**
1.5	Total Civil Works cost a) Fencing in MS properly anchored and painted to withstand corrosion; b) Foundation for one number each 20 KL tank and 10 KL tank c) Gate 5m wide with double leaf & 1 m wicket gate d) 2 no: s of 10 kg DCP fire extinguishers e) 4 no. s of Fire buckets f) 8 no: s of sodium vapour lamps on poles g) Signage for the system	**LS**
1.6	Basic price of LMOs (including delivery charge)	-
1.7	Fully Automatic control Panel for switchning between Primary (20 KL), Secondary (10KL) and emergency cylinder bank	1
2	**Oxygen Supply Manifold System, (2x20 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.1	**Fully Automatic Oxygen Control Panel System** : Supply, Installation testing and commissioning of Fully Automatic Oxygen Control Panel System as per tender technical specifications and HTM 02-01/NFPA 99 C standards. Control panel should be able to meet the flow rate.	1
2.2	**Emergency Oxygen Supply Manifold System, (2x10 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.3	**Oxygen Flow meter with Humidifier Bottle:** Supply installation, testing and commissioning of oxygen flow meter with humidifier bottle 0-15Litres. As per tender technical specifications	760
3	**Fully Automatic Manifold Control Panel for Nitrous Oxide:** Supply installation testing and commission of fully automatic control panel for Nitrous Oxide as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
3.1	**Nitrous Oxide Manifold System, (2x10 size):** Supply installation testing and commissioning of (2x10 size) class D cylinder Nitrous Oxide Manifold system as per tender technical specifications.	1
3.2	**Emergency Nitrous Oxide Manifold System, 2x4 size:** Supply installation, testing and commissioning of (2x4 size) cylinder Emergency Nitrous Oxide supply System as per tender technical specifications.	1
4.1	**Fully Automatic Manifold Control Panel for Nitrogen:** Supply installation testing and commission of fully automatic control panel for N2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1

4.2	**Nitrogen Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder Nitrogen Manifold system as per tender technical specifications.	1
5	**Medical Air Plant (Package Unit) with Pentaplex Air Compressor including electrical control panel:** Supply, Installation, testing and commissioning of Rotary Screw/scroll type Pentaplex Medical Air Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification	1
5.1	Air Filtration System	2
5.2	Pressure reducing station	2
5.3	Desiccant Air Dryer	2
6	Medical Vacuum Plant Package Pentaplex vacuum pumps: **Supply, Installation, testing and commissioning of Rotary Vane type Oil-lubricated Pentaplex Medical Vacuum Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification**	1
6.1	Bacterial Filters as per tender technical specification	1
7	**Ward Vacuum Unit:** Suply installation testing and commissiong of Ward Vacuum Unit as per tender technical specifications.	760
8	Theater Vaccum Unit for Operation Theaters: **Suply installation testing and commissiong of Theater Vacuum Unit as per tender technical specifications.**	32
9	**Fully Automatic Manifold Control Panel for CO2:** Supply installation testing and commission of fully automatic control panel for CO2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
9.1	**CO2 Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder CO2 Manifold system as per tender technical specifications.	1
10	**Duplex AGSS System:** Supply installation and commissioning of Duplex AGSS system as per technical specifications, including wiring from plant room to MOTs.	2
11	**Copper Pipes**	
11.1	Solid drawn, seamless, deoxidised, non- arsenical, half hard, tempered and degreased copper pipes as per tender technical specifications	
	108 mm OD x 1.5 mm thick	300
	76 mm OD x 1.5 mm thick	600
	54mm OD X 1.2mm thick	200
	42mm OD X 1.2mm thick	2500
	35mm OD X 1.2mm thick	3000
	28mm OD X 1 mm thick	3000
	22mm OD X 1 mm thick	4000
	15mm OD X 1 mm thick	10000
	12mm OD X 1 mm thick	12000

12	**Gas Outlet Points/ Terminal Units with probe:** Supply,Installation, testing and commissioning of Gas outlet points for Oxygen, Nitrous Oxide, Medical Air 4 Bar , Vacuum, CO2 , and AGSS .	
	Oxygen outlet with probe	1100
	Nitrous Oxide outlet with probe	2
	Medical Air 4 outlet with probe	300
	Vacuum outlet with probe	1100
	CO2 outlet with probe	4
	AGSS outlet with probe	2
	Nitrogen outlet with probe	4
13	AREA VALVE BOX (WITHOUT VALVES) : **Supply,Installation, testing and commissioning of Area Valve Boxes**	
	Valve Box - 3 Gas Service with NIST Connection	50
	Valve Box - 5 Gas Service with NIST Connection	24
	Valve Box - 6 Gas Service with NIST Connection	6
14	**MEDICAL GAS ALARM PANEL** : Supply, Installation, testing and commissioning of Medical Gas Alarm Panel.	
14.1	Medical Gas Area Alarm for 2 services (Oxygen and Vacuum)	15
14.2	Medical Gas Area Alarm for 3 services (Oxygen, MA4 bar and Vacuum)	35
14.3	Medical Gas Area Alarm 5 services (Oxygen, N2O, MA4 bar , AGSS,and Vacuum)	24
14.4	Medical Gas Area Alarm 6 services (Oxygen, N2O, MA4 bar , AIR 7 bar AGSS,and Vacuum)	6
14.5	Master Alarm Panel as per technical specifications.	1
15	**LINE ISOLATION VALVES**	
	12 mm ball valve	240
	15 mm ball valve	210
	22 mm ball valve	70
	28 mm ball valve	30
	35 mm ball valve	35
	42 mm ball valve	20
	54 mm ball valve	10
	76 mm ball valve	5
	108 mm ball valve	2
16	Supply installation testing and commissioning of Medical gas hose assemblies Hoses shall be color coded throughout their length as specified in British standards .	50
17	Supply of O2 cylinders-Class D bulk cylinders	100
18	Supply of N2O cylinders-Class D bulk cylinders	50
19	Supply of CO2 cylinders-Class D bulk cylinders	10
20	Supply of Nitogen cylinders-Class D bulk cylinders	10
21	Bed Head Horizontal Wall Panel	300

22	Single Arm Movable Pendant	2
23	Electric wiring inside the gas manifold and plant room including control panel for Vacuum plant & Air plant.	1

BOQ FOR MGPS AIIMS PATNA

SN.	Item Description	Quantity
1	**LIQUID OXYGEN FACILITY-20KL (1 No) and 10 KL (1No)**	
1.1	Facility chargesincluding 20KL vessel, 10 KL vessel, VIE's, AV coils and accessories	**LS**
1.2	Installation and commissioning charges - One time lump sum charge	**LS**
1.3	Charges for laying of 1" copper line for Hospital block. (Any extra length will be charged as actuals at the rate quoted.)	100
1.4	Total Cost of civil construction for running the pipeline from LO plant to Hospital block either by trenching or by supporting poles if required.(Steel structure for exposed lines with PVC pipe protected(on 2" pole of 20 ft height, on concrete foundation at a spacing of 3 m. 1" copper tubing inserted in 1.5" PVC/ HDP heat resistant pipe clamped on support at the top of the pole. PVC pipes sealed by 1.5" PVC coupling & PVC cement)	**LS**
1.5	Total Civil Works cost a) Fencing in MS properly anchored and painted to withstand corrosion; b) Foundation for one number each 20 KL tank and 10 KL tank c) Gate 5m wide with double leaf & 1 m wicket gate d) 2 no: s of 10 kg DCP fire extinguishers e) 4 no. s of Fire buckets f) 8 no: s of sodium vapour lamps on poles g) Signage for the system	**LS**
1.6	Basic price of LMOs (including delivery charge)	-
1.7	Fully Automatic control Panel for switchning between Primary (20 KL), Secondary (10 KL) and emergency cylinder bank	1
2	**Oxygen Supply Manifold System, (2x20 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.1	**Fully Automatic Oxygen Control Panel System** : Supply, Installation testing and commissioning of Fully Automatic Oxygen Control Panel System as per tender technical specifications and HTM 02-01/NFPA 99 C standards. Control panel should be able to meet the flow rate.	1
2.2	**Emergency Oxygen Supply Manifold System, (2x10 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.3	**Oxygen Flow meter with Humidifier Bottle:** Supply installation, testing and commissioning of oxygen flow meter with humidifier bottle 0-15Litres. As per tender technical specifications	900

3	**Fully Automatic Manifold Control Panel for Nitrous Oxide:** Supply installation testing and commission of fully automatic control panel for Nitrous Oxide as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
3.1	**Nitrous Oxide Manifold System, (2x10 size):** Supply installation testing and commissioning of (2x10 size) class D bulk cylinder Nitrous Oxide Manifold system as per tender technical specifications.	1
3.2	**Emergency Nitrous Oxide Manifold System, 2x4 size:** Supply installation, testing and commissioning of (2x4 size) cylinder Emergency Nitrous Oxide supply System as per tender technical specifications.	1
4.1	**Fully Automatic Manifold Control Panel for Nitrogen:** Supply installation testing and commission of fully automatic control panel for N2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
4.2	**Nitrogen Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder Nitrogen Manifold system as per tender technical specifications.	1
5	**Medical Air Plant (Package Unit) with Pentaplex Air Compressor including electrical control panel:** Supply, Installation, testing and commissioning of Rotary Screw /scroll type Pentaplex Medical Air Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification	1
5.1	Air Filtration System	2
5.2	Pressure reducing station	2
5.3	Desiccant Air Dryer	2
6	Medical Vacuum Plant Package Pentaplex vacuum pumps: **Supply, Installation, testing and commissioning of Rotary Vane type Oil-lubricated Pentaplex Medical Vacuum Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification**	1
6.1	Bacterial Filters as per tender technical specification	1
7	**Ward Vacuum Unit:** Suply installation testing and commissiong of Ward Vacuum Unit as per tender technical specifications.	900
8	Theater Vaccum Unit for Operation Theaters: **Supply installation testing and commissiong of Theater Vacuum Unit as per tender technical specifications.**	36
9	**Fully Automatic Manifold Control Panel for CO2:** Supply installation testing and commission of fully automatic control panel for CO2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
9.1	**CO2 Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder CO2 Manifold system as per tender technical specifications.	1
10	**Duplex AGSS System:** Supply installation and commissioning of Duplex AGSS system as per technical specifications, including wiring from plant room to MOTs.	2

11	**Copper Pipes**	
11.1	Solid drawn, seamless, deoxidised, non- arsenical, half hard, tempered and degreased copper pipes as per tender technical specifications	
	108 mm OD x 1.5 mm thick	200
	76 mm OD x 1.5 mm thick	400
	54mm OD X 1.2mm thick	1000
	42mm OD X 1.2mm thick	1200
	35mm OD X 1.2mm thick	2000
	28mm OD X 1 mm thick	3000
	22mm OD X 1 mm thick	6000
	15mm OD X 1 mm thick	8000
	12mm OD X 1 mm thick	12500
12	**Gas Outlet Points/ Terminal Units with probe:** Supply,Installation, testing and commissioning of Gas outlet points for Oxygen, Nitrous Oxide, Medical Air 4 Bar , Vacuum, CO2 , and AGSS .	
	Oxygen outlet with probe	1100
	Nitrous Oxide outlet with probe	6
	Medical Air 4 outlet with probe	200
	Vacuum outlet with probe	1100
	CO2 outlet with probe	4
	AGSS outlet with probe	6
	Nitrogen outlet with probe	4
13	AREA VALVE BOX (WITHOUT VALVES) : **Supply,Installation, testing and commissioning of Area Valve Boxes**	
	Valve Box - 3 Gas Service with NIST Connection	20
	Valve Box - 5 Gas Service with NIST Connection	30
	Valve Box - 6 Gas Service with NIST Connection	6
14	**MEDICAL GAS ALARM PANEL** : Supply, Installation, testing and commissioning of Medical Gas Alarm Panel.	
14.1	Medical Gas Area Alarm for 2 services (Oxygen and Vacuum)	40
14.2	Medical Gas Area Alarm for 3 services (Oxygen, MA4 Air and Vacuum)	20
14.3	Medical Gas Area Alarm 5 services (Oxygen, N2O, MA4 Air , AGSS,and Vacuum)	30
14.4	Medical Gas Area Alarm 6 services (Oxygen, N2O, MA4 Air ,Air 7 bar AGSS,and Vacuum)	6
14.5	Master Alarm Panel as per technical specifications.	1
15	**LINE ISOLATION VALVES**	
	12 mm ball valve	320
	15 mm ball valve	220
	22 mm ball valve	120
	28 mm ball valve	20
	35 mm ball valve	25

	42 mm ball valve	15
	54 mm ball valve	10
	76 mm ball valve	12
	108 mm ball valve	2
16	Supply installation testing and commissioning of Medical gas hose assemblies Hoses shall be color coded throughout their length as specified in British standards .	100
17	Supply of O2 cylinders-Class D type bulk cylinders	100
18	Supply of N2O cylinders-Class D type bulk cylinders	50
19	Supply of CO2 cylinders-Class D type bulk cylinders	10
20	Supply of Nitrogen cylinders-Class D type bulk cylinders	10
21	Bed Head Horizontal Wall Panel	160
22	Single Arm Movable Pendant	6
23	Electric wiring inside the gas manifold and plant room including control panel for Vacuum plant & Air plant.	1

BOQ FOR MGPS AIIMS RAIPUR

SN.	Item Description	Quantity
1	**LIQUID OXYGEN FACILITY-20KL (1 No) and 10 KL (1 NO)**	
1.1	Facility charges including 20KL vessel, 10 KL vessel, VIE's, AV coils and accessories	**LS**
1.2	Installation and commissioning charges - One time lump sum charge	**LS**
1.3	Charges for laying of 1" copper line for Hospital block. (Any extra length will be charged as actuals at the rate quoted.)	100
1.4	Total Cost of civil construction for running the pipeline from LO plant to Hospital block either by trenching or by supporting poles if required.(Steel structure for exposed lines with PVC pipe protected(on 2" pole of 20 ft height, on concrete foundation at a spacing of 3 m. 1" copper tubing inserted in 1.5" PVC/ HDP heat resistant pipe clamped on support at the top of the pole. PVC pipes sealed by 1.5" PVC coupling & PVC cement)	**LS**
1.5	Total Civil Works cost a) Fencing in MS properly anchored and painted to withstand corrosion; b) Foundation for one number each 20 KL tank and 10 KL tank c) Gate 5m wide with double leaf & 1 m wicket gate d) 2 no: s of 10 kg DCP fire extinguishers e) 4 no. s of Fire buckets f) 8 no: s of sodium vapour lamps on poles g) Signage for the system	**LS**
1.6	Basic price of LMOs (including delivery charge)	-
1.7	Fully Automatic control Panel for switching between Primary (20 KL), Secondary (10 KL) and emergency cylinder bank	1

1	**Oxygen Supply Manifold System, (2x20 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
1.1	**Fully Automatic Oxygen Control Panel System** : Supply, Installation testing and commissioning of Fully Automatic Oxygen Control Panel System as per tender technical specifications and HTM 02-01/NFPA 99 C standards.Control panel should be able to meet the flow rate.	1
1.2	**Emergency Oxygen Supply Manifold System, (2x10 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
1.3	**Oxygen Flow meter with Humidifier Bottle:** Supply installation, testing and commissioning of oxygen flow meter with humidifier bottle 0-15Litres. As per tender technical specifications	900
2	**Fully Automatic Manifold Control Panel for Nitrous Oxide:** Supply installation testing and commission of fully automatic control panel for Nitrous Oxide as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
2.1	**Nitrous Oxide Manifold System, (2x10 size):** Supply installation testing and commissioning of (2x10 size) class D bulk type cylinder Nitrous Oxide Manifold system as per tender technical specifications.	1
2.2	**Emergency Nitrous Oxide Manifold System, 2x4 size:** Supply installation, testing and commissioning of (2x4 size) cylinder Emergency Nitrous Oxide supply System as per tender technical specifications.	1
3	**Fully Automatic Manifold Control Panel for Nitrogen:** Supply installation testing and commission of fully automatic control panel for N2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
3.1	**Nitrogen Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder Nitrogen Manifold system as per tender technical specifications.	1
4	**Medical Air Plant (Package Unit) with Pentaplex Air Compressor including electrical control panel:** Supply, Installation, testing and commissioning of Rotary Screw/scroll type Pentaplex Medical Air Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification	1
4.1	Air Filtration System	2
4.2	Pressure reducing station	2
4.3	Desiccant Air Dryer	2
5	Medical Vacuum Plant Package Pentaplex vacuum pumps: **Supply, Installation, testing and commissioning of Rotary Vane type Oil-lubricated Pentaplex Medical Vacuum Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification**	1
5.1	Bacterial Filters as per tender technical specification	1

6	**Ward Vacuum Unit:** Suply installation testing and commissiong of Ward Vacuum Unit as per tender technical specifications.	900
7	Theater Vaccum Unit for Operation Theaters: **Suply installation testing and commissiong of Theater Vacuum Unit as per tender technical specifications.**	33
8	**Fully Automatic Manifold Control Panel for CO2:** Supply installation testing and commission of fully automatic control panel for CO2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
8.1	**CO2 Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder CO2 Manifold system as per tender technical specifications.	1
9	**Duplex AGSS System:** Supply installation and commissioning of Duplex AGSS system as per technical specifications, including wiring from plant room to MOTs.	2
10	**Copper Pipes**	
10.1	Solid drawn, seamless, deoxidised, non- arsenical, half hard, tempered and degreased copper pipes as per tender technical specifications	
	108 mm OD x 1.5 mm thick	300
	76 mm OD x 1.5 mm thick	400
	54mm OD X 1.2mm thick	1000
	42mm OD X 1.2mm thick	1200
	35mm OD X 1.2mm thick	7000
	28mm OD X 1 mm thick	3000
	22mm OD X 1 mm thick	10000
	15mm OD X 1 mm thick	8000
	12mm OD X 1 mm thick	12000
11	**Gas Outlet Points/ Terminal Units with probe:** Supply,Installation, testing and commissioning of Gas outlet points for Oxygen, Nitrous Oxide, Medical Air 4 Bar ,Vacuum, CO2 , and AGSS .	
	Oxygen outlet with probe	1010
	Nitrous Oxide outlet with probe	2
	Medical Air 4 outlet with probe	160
	Vacuum outlet with probe	1010
	CO2 outlet with probe	4
	AGSS outlet with probe	2
	Nitrogen outlet with probe	4
12	AREA VALVE BOX (WITHOUT VALVES) : **Supply,Installation, testing and commissioning of Area Valve Boxes**	
	Valve Box - 3 Gas Service with NIST Connection	20
	Valve Box - 5 Gas Service with NIST Connection	24
	Valve Box - 6 Gas Service with NIST Connection	6
13	**MEDICAL GAS ALARM PANEL** : Supply, Installation, testing and commissioning of Medical Gas Alarm Panel.	

13.1	Medical Gas Area Alarm for 2 services (Oxygen and Vacuum)	40
13.2	Medical Gas Area Alarm for 3 services (Oxygen, MA4 Air and Vacuum)	20
13.3	Medical Gas Area Alarm 5 services (Oxygen, N2O, MA4 Air , and Vacuum)	24
13.4	Medical Gas Area Alarm 6 services (Oxygen, N2O, MA4 Air ,Air 7 bar and Vacuum)	6
13.5	Master Alarm Panel as per technical specifications.	1
14	**LINE ISOLATION VALVES**	
	12 mm ball valve	300
	15 mm ball valve	230
	22 mm ball valve	90
	28 mm ball valve	65
	35 mm ball valve	10
	42 mm ball valve	15
	54 mm ball valve	10
	76 mm ball valve	10
	108 mm ball valve	3
15	Supply installation testing and commissioning of Medical gas hose assemblies Hoses shall be color coded throughout their length as specified in British standards .	50
16	Supply of O2 cylinders-Class D	100
17	Supply of N2O cylinders-Class D	50
18	Supply of CO2 cylinders-Class D	10
19	Supply of Nitrogen cylinders-Class D	10
20	Bed Head Horizontal Wall Panel	160
21	Single Arm Movable Pendant	2
22	Electric wiring inside the gas manifold and plant room including control panel for Vacuum plant & Air plant.	1

BOQ FOR MGPS AIIMS RISHIKESH

SN.	Item Description	Quantity
1	**LIQUID OXYGEN FACILITY-20KL (1 No) and 10 KL (1 No)**	
1.1	Facility charges monthly rental for the facility including 20KL vessel, 10 KL vessel, VIE's, AV coils and accessories	**LS**
1.2	Installation and commissioning charges - One time lump sum charge	**LS**
1.3	Charges for laying of 1" copper line for Hospital block. (Any extra length will be charged as actuals at the rate quoted.)	100

1.4	Total Cost of civil construction for running the pipeline from LO plant to Hospital block either by trenching or by supporting poles if required.(Steel structure for exposed lines with PVC pipe protected(on 2" pole of 20 ft height, on concrete foundation at a spacing of 3 m. 1" copper tubing inserted in 1.5" PVC/ HDP heat resistant pipe clamped on support at the top of the pole. PVC pipes sealed by 1.5" PVC coupling & PVC cement)	**LS**
1.5	Total Civil Works cost a) Fencing in MS properly anchored and painted to withstand corrosion; b) Foundation for one number each 20 KL tank and 10 KL tank c) Gate 5m wide with double leaf & 1 m wicket gate d) 2 no: s of 10 kg DCP fire extinguishers e) 4 no. s of Fire buckets f) 8 no: s of sodium vapour lamps on poles g) Signage for the system	**LS**
1.6	Basic price of LMOs (including delivery charge)	-
1.7	Fully Automatic control Panel for switchning between Primary (20 KL), Secondary (10 KL) and emergency cylinder bank	1
2	**Oxygen Supply Manifold System, (2x20 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.1	**Fully Automatic Oxygen Control Panel System** : Supply, Installation testing and commissioning of Fully Automatic Oxygen Control Panel System as per tender technical specifications and HTM 02-01/NFPA 99 C standards. Control panel should be able to meet the flow rate.	1
2.2	**Emergency Oxygen Supply Manifold System, (2x10 size)** : Supply, Installation, testing and commissioning of (2x20 size) class D type bulk Oxygen cylinder Supply Manifold System as per technical specifications.	1
2.3	**Oxygen Flow meter with Humidifier Bottle:** Supply installation, testing and commissioning of oxygen flow meter with humidifier bottle 0-15Litres. As per tender technical specifications	620
3	**Fully Automatic Manifold Control Panel for Nitrous Oxide:** Supply installation testing and commission of fully automatic control panel for Nitrous Oxide as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
3.1	**Nitrous Oxide Manifold System, (2x10 size):** Supply installation testing and commissioning of (2x10 size) class D bulk cylinders Nitrous Oxide Manifold system as per tender technical specifications.	1
3.2	**Emergency Nitrous Oxide Manifold System, 2x4 size:** Supply installation, testing and commissioning of (2x4 size) cylinder Emergency Nitrous Oxide supply System as per tender technical specifications.	1
4.1	**Fully Automatic Manifold Control Panel for Nitrogen:** Supply installation testing and commission of fully automatic control panel for N2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
4.2	**Nitrogen Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder Nitrogen Manifold system as per tender technical specifications.	1

5	**Medical Air Plant (Package Unit) with Pentaplex Air Compressor including electrical control panel:** Supply, Installation, testing and commissioning of Rotary Screw/scroll type Pentaplex Medical Air Plant (Package Unit) having a capacity of 7000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification	1
5.1	Air Filtration System	2
5.2	Pressure reducing station	2
5.3	Desiccant Air Dryer	2
6	Medical Vacuum Plant Package Pentaplex vacuum pumps: **Supply, Installation, testing and commissioning of Rotary Vane type Oil-lubricated Pentaplex Medical Vacuum Plant (Package Unit) having a capacity of 5000LPM as per HTM 02-01/NFPA 99C standards and tender technical specification**	1
6.1	Bacterial Filters as per tender technical specification	1
7	**Ward Vacuum Unit:** Suply installation testing and commissiong of Ward Vacuum Unit as per tender technical specifications.	620
8	Theater Vaccum Unit for Operation Theaters: **Suply installation testing and commissiong of Theater Vacuum Unit as per tender technical specifications.**	24
9	**Fully Automatic Manifold Control Panel for CO2:** Supply installation testing and commission of fully automatic control panel for CO2 as per tender technical specifications and HTM 02-01/NFPA 99 C standards.	1
9.1	**CO2 Manifold System, (2x4 size):** Supply installation testing and commissioning of (2x4 size) class D cylinder CO2 Manifold system as per tender technical specifications.	1
10	**Duplex AGSS System:** Supply installation and commissioning of Duplex AGSS system as per technical specifications, including wiring frm plant room to MOTs.	2
11	**Copper Pipes**	
11.1	Solid drawn, seamless, deoxidised, non- arsenical, half hard, tempered and degreased copper pipes as per tender technical specifications	
	108 mm OD x 1.5 mm thick	250
	76 mm OD x 1.5 mm thick	300
	54mm OD X 1.2mm thick	600
	42mm OD X 1.2mm thick	2000
	35mm OD X 1.2mm thick	800
	28mm OD X 1 mm thick	3500
	22mm OD X 1 mm thick	8000
	15mm OD X 1 mm thick	6000
	12mm OD X 1 mm thick	8000
12	**Gas Outlet Points/ Terminal Units with probe:** Supply,Installation, testing and commissioning of Gas outlet points for Oxygen, Nitrous Oxide, Medical Air 4 Bar ,Vacuum, CO2 , and AGSS .	

	Oxygen outlet with probe	775
	Nitrous Oxide outlet with probe	2
	Medical Air 4 outlet with probe	122
	Vacuum outlet with probe	775
	CO2 outlet with probe	4
	AGSS outlet with probe	2
	Nitrogen outlet with probe	4
13	AREA VALVE BOX (WITHOUT VALVES) : **Supply,Installation, testing and commissioning of Area Valve Boxes**	
	Valve Box - 3 Gas Service with NIST Connection	20
	Valve Box - 5 Gas Service with NIST Connection	21
	Valve Box - 6 Gas Service with NIST Connection	4
14	**MEDICAL GAS ALARM PANEL** : Supply, Installation, testing and commissioning of Medical Gas Alarm Panel.	
14.1	Medical Gas Area Alarm for 2 services (Oxygen and Vacuum)	30
14.2	Medical Gas Area Alarm for 3 services (Oxygen, MA4 Air and Vacuum)	26
14.3	Medical Gas Area Alarm 5 services (Oxygen, N2O, MA4 Air , AGSS and Vacuum)	21
14.4	Medical Gas Area Alarm 6 services (Oxygen, N2O, MA4 Air , Air 7 bar, AGSS and Vacuum)	4
14.5	Master Alarm Panel as per technical specifications.	1
15	**LINE ISOLATION VALVES**	
	12 mm ball valve	170
	15 mm ball valve	120
	22 mm ball valve	30
	28 mm ball valve	15
	35 mm ball valve	5
	42 mm ball valve	20
	54 mm ball valve	15
	76 mm ball valve	5
	108 mm ball valve	2
16	Supply installation testing and commissioning of Medical gas hose assemblies Hoses shall be color coded throughout their length as specified in British standards .	50
17	Supply of O2 cylinders-Class D bulk cylinders	100
18	Supply of N2O cylinders-Class D bulk cylinders	50
19	Supply of CO2 cylinders-Class D cylinders	10
20	Supply of Nitrogen cylinders-Class D cylinders	10
21	Bed Head Horizontal Wall Panel	110
22	Single Arm Movable Pendant	2
23	Electric wiring inside the gas manifold and plant room (Hospital will provide three phase power cable at one point)	1

AIIMS BHOPAL							
			FLOW				
SN	ROOM DESCRIPTION	Qty	OXYGEN	AIR 4 BAR	VACUUM	N2O	AGSS
1	ICU BEDS	408	1841.5	16360	4110		
2	WARD BEDS	661	1000	0	1605.285714		
3	NICU BEDS	8	52	320	110		
4	TRIAGE	20	38.5	0	40		
5	OTs	45	540	480	1840	516	5850
6	Radiology/Radiotherapy/Procedure Room	18	35.5	62.5	40		
7	GI INTERVENTION	3	13	25	40		
8	DELIVERY ROOM	4	14.5	0	40		
9	ECLAMPSIA LABOUR ROOM	1	10	0	40		
10	POSTPARTUM	1	10	0	40		
12	ETO STERILIZER	1	0	40	0		
TOTAL			**3555**	**17287.5**	**7905.285714**	**516**	5850

AIIMS BHUBANESWAR							
			FLOW				
SN	ROOM DESCRIPTION	Qty	OXYGEN	AIR 4 BAR	VACUUM	N2O	AGSS
1	ICU BEDS	245	1108	9840	2480		
2	WARD BEDS	850	1283.5	0	2064.285714		
3	TRIAGE	10	23.5	0	40		
4	OTs	30	390	330	1240	297	3900
5	Radiology/Radiotherapy/Procedure Room	19	37	65	40		
6	DELIVERY ROOM	1	10	0	40		
7	ECLAMPSIA LABOUR ROOM	2	11.5	0	40		
8	POSTNATAL(2 BED)	2	11.5	0	40		
9	PRENATAL	1	10	0	40		
10	SEPTIC DELIVERY(4 BED)	4	14.5	0	40		
TOTAL			**2899.5**	**10235**	**6064.285714**	**297**	3900

AIIMS RAIPUR							
			FLOW				
SN	ROOM DESCRIPTION	Qty	OXYGEN	AIR 4 BAR	VACUUM	N2O	AGSS
1	ICU BEDS	157	712	6320	1600		
2	WARD BEDS	1049	1582	0	2547.571429		
3	NICU BEDS	8	52	320	110		
4	TRIAGE	6	17.5	0	40		
5	OTs	31	400	340	1280	330	4030
6	Radiology/Radiotherapy/Procedure Room	1	10	20	40		

7	DELIVERY ROOM	6	17.5	0	40		
8	ECLAMPSIA LABOUR ROOM	4	14.5	0	40		
9	LABOUR ROOM	6	17.5	0	40		
10	POSTPARTUM	10	23.5	0	40		
12	ETO STERILIZER	1	0	40	0		
	TOTAL		**2846.5**	**7040**	**5777.571429**	**330**	4030

AIIMS PATNA							
			FLOW				
SN	**ROOM DESCRIPTION**	**Qty**	**OXYGEN**	**AIR 4 BAR**	**VACUUM**	**N2O**	**AGSS**
1	ICU BEDS	156	707.5	6280	1590		
2	WARD BEDS	1063	1603	0	2581.571429		
3	NICU BEDS	8	52	320	110		
4	OTs	38	470	410	1560	399	4940
5	Radiology/Radiotherapy/Procedure Room	5	16	30	40		
6	LABOUR BED	8	20.5	0	40		
7	ETO STERILIZER	1	0	40	0		
8	TRIAGE	6	17.5	0	40		
9	ECLAMPSIA LABOUR ROOM	4	14.5	0	40		
	TOTAL		**2901**	**7080**	**6001.571429**	**399**	4940

AIIMS JODHPUR							
SN	**ROOM DESCRIPTION**	**Qty**	**OXYGEN**	**AIR 4 BAR**	**VACUUM**	**N2O**	**AGSS**
1	ICU BEDS	244	1103.5	9800	2470		
2	WARD BEDS	783	1183	0	1901.571429		
3	NICU BEDS	6	40	240	90		
4	OT	34	430	370	1400	342	4420
5	Radiology/Radiotherapy/Procedure Room	11	25	45	40		
6	LABOUR BED	6	17.5	0	40		
7	SEPTIC DELIVERY BED	2	11.5	0	40		
8	ETO STERILIZER	1	0	40	0		
	TOTAL		**2810.5**	**10495**	**5981.571429**	**342**	4420

AIIMS RISHIKESH							
SN	**ROOM DESCRIPTION**	**Qty**	**OXYGEN**	**AIR 4 BAR**	**VACUUM**	**N2O**	**AGSS**
1	ICU BEDS	106	482.5	4280	1090		
2	WARD BEDS	763	1153	0	1853		
3	NICU BEDS	6	40	240	90		
4	OT	27	360	300	1120	273	3510
5	TRIAGE BED	32	56.5	0	111		
6	Radiology/Radiotherapy/Procedure Room	6	17.5	32.5	40		
	TOTAL		**2109.5**	**4852.5**	**4304**	**273**	3510

GAS OUTLETS FOR AIIMS BHOPAL												
BLOCK	**FLOOR**	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**						**SINGLE ARM MOVABLE PENDANT**	**ICU BEDHEAD PANEL**
				OXYGEN	**VACUUM**	**AIR 4 BAR**	**AIR 7 BAR**	**NITROUS OXIDE**	**AGSS**		
Hospital	LOWER GROUND	Minor OT-Oncology	HB LG051	2	2	2	0	1	1	1	0
Hospital	LOWER GROUND	Chemo therapy treatment room	HB LG083	1	1	1	0	0	0	0	1
Hospital	LOWER GROUND	LINAC Bunker-1		1	1	1	0	0	0	0	1
Hospital	LOWER GROUND	LINAC Bunker-2		1	1	1	0	0	0	0	1
Hospital	LOWER GROUND	CT -Scan	HB LG125	1	1	0	0	0	0	0	0
Hospital	LOWER GROUND	ETO sterilizer		0	0	1	0	0	0	0	0
HOSPITAL	UPPER GROUND	RECOVERY ROOM - 3 BED	HB UG010	6	6	3	0	0	0	0	3
HOSPITAL	UPPER	MINOR OT	HB UG027	2	2	2	0	1	1	1	0

	GROUND										
HOSPITAL	UPPER GROUND	MINOR OT	HB UG072	2	2	2	0	1	1	1	0
HOSPITAL	UPPER GROUND	POST ANGIO ROOM - 6 BED	HB UG107	12	12	6	0	0	0	0	6
HOSPITAL	UPPER GROUND	HOLDING AREA (CATHLAB) - 4 BED	HB UG115	2	2	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	CATHLAB	HB UG116	2	2	2	0	0	0	0	1
HOSPITAL	UPPER GROUND	CATHLAB	HB UG118	2	2	2	0	0	0	0	1
HOSPITAL	UPPER GROUND	OT (PMR)	HB UG145	2	2	2	0	1	1	1	0
HOSPITAL	UPPER GROUND	RECOVERY ROOM (PMR OT) - 4 BED	HB UG153	8	8	4	0	0	0	0	4
HOSPITAL	UPPER GROUND	MRI ROOM	HB UG329	1	1	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	CT SCAN	HB UG333	1	1	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	CT SCAN	HB UG339	1	1	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	TRIAGE (EMERGENCY) - 10 BED	HB UG424	10	10	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	ISOLATION ROOM	HB UG439	2	2	1	0	0	0	0	1
HOSPITAL	UPPER GROUND	ISOLATION ROOM	HB UG440	2	2	1	0	0	0	0	1

HOSPITAL	UPPER GROUND	RECOVERY (OT) - 6 BED	HB UG468	12	12	6	0	0	0	0	6
HOSPITAL	UPPER GROUND	TRIAGE (TRAUMA) - 10 BED	HB UG480	10	10	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	CT SCAN	HB UG493	1	1	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	MRI ROOM	HB UG499	1	1	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	WARD - 4 BED	HB UG512	2	2	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	RESUSITATION ROOM-4 BED	HB UG514	8	8	4	0	0	0	0	4
HOSPITAL	UPPER GROUND	WARD - 4 BED	HB UG515	2	2	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	WARD - 4 BED	HB UG516	2	2	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	OBSERVATION - 4 BED	HB UG517	2	2	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	WARD - 4 BED	HB UG518	2	2	0	0	0	0	0	0
HOSPITAL	UPPER GROUND	WARD - 4 BED	HB UG519	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	MINOR OT	HB 1002 (C)	2	2	2	0	1	1	1	0
HOSPITAL	FIRST	MINOR OT	HB 1004	2	2	2	0	1	1	1	0
HOSPITAL	FIRST	PROCEDURE ROOM	HB1011	1	1	0	0	0	0	0	0
HOSPITAL	FIRST	MINOR OT	HB1012 ,HB1013	2	2	2	0	1	1	1	0
HOSPI	FIRST	MINOR OT	HB1027	2	2	2	0	1	1	1	0

TAL											
HOSPITAL	FIRST	MINOR OT	HB1037,HB1038	2	2	2	0	1	1	1	0
HOSPITAL	FIRST	MINOR OT	HB 1052	2	2	2	0	1	1	1	0
HOSPITAL	FIRST	HDU 4 BED	HB 1061	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	ISOLATION ROOM	HB 1063	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1066	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1072	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1075	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1095(A)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1095(B)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1095(C)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1095(D)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	HDU 4 BED	HB 1095(E)	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD(6 BED)	HB 1095(F)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1095(G)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1095(H)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1095(I)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1095(J)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1110-11	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	HDU 4 BED	HB 1113,HB 1117	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	ISOLATION ROOM	HB 1115(A)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1115(B)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ECLAMPSIA LABOUR ROOM	HB 1127(B)	1	1	0	0	0	0	0	0
HOSPITAL	FIRST	POSTPARTUM	HB 1128	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	DELIVERY ROOM	HB 1129	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	DELIVERY ROOM	HB 1131	2	2	0	0	0	0	0	0
HOSPI	FIRST	LABOUR	HB 1134	4	4	0	0	0	0	0	0

TAL		WARD(6 BED)									
HOSPITAL	FIRST	RECOVERY ROOM 3 BED	HB 1153	6	6	3	0	0	0	0	3
HOSPITAL	FIRST	NICU SICK 3 BED	HB 1156(A)	6	6	3	0	0	0	0	3
HOSPITAL	FIRST	NICU PRETERM 5 BED	HB 1156(B)	10	10	5	0	0	0	0	5
HOSPITAL	FIRST	WARD (STEPDOWN ICU)6 BED	HB 1165(A)	12	12	6	0	0	0	0	6
HOSPITAL	FIRST	HDU 4 BED	HB 1165(B)	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD (STEPDOWN ICU)6 BED	HB 1165(C)	6	6	3	0	0	0	0	3
HOSPITAL	FIRST	NURSERY 8 BED	HB 1172-73	6	6	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1174(A)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1174(B)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1175	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1177(A)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1204(A)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1205	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1208(A)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1208(B)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1208(C)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	HDU 4 BED	HB 1208(D)	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD(6 BED)	HB 1208(E)	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1237,HB 1238	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ICU 4 BED	HB 1239	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	ISOLATION ROOM	HB 1240	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ICU 4 BED	HB 1242	8	8	4	0	0	0	0	4
HOSPI	FIRST	ISOLATIO	HB 1243	2	2	1	0	0	0	0	1

TAL		N ROOM									
HOSPITAL	FIRST	ISOLATION ROOM	HB 1246	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ICU 4 BED	HB 1247	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	ICU 4 BED	HB 1253,HB 1245	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	SPECIAL PROCEDURE ROOM	HB 1261, HB 1262	1	1	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1283	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1284	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1285,HB 1287	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	HDU 4 BED	HB 1288	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD(6 BED)	HB 1290	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1291	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1302	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1305	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	ICU 6 BEDED	HB 1327,370,354	12	12	6	0	0	0	0	6
HOSPITAL	FIRST	ISOLATION ROOM	HB 1369,352	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1368,351	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ICU 6 BEDED	HB 1349,350	12	12	6	0	0	0	0	6
HOSPITAL	FIRST	ISOLATION ROOM	HB 1346,365,366	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ICU 6 BEDED	HB 1367,348,334	12	12	6	0	0	0	0	6
HOSPITAL	FIRST	ISOLATION ROOM	HB 1359	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ICU 6 BEDED	HB 1361,360,344,341	12	12	6	0	0	0	0	6
HOSPITAL	FIRST	ISOLATION ROOM	HB 1343	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ICU 6 BEDED	HB 1376	12	12	6	0	0	0	0	6
HOSPITAL	FIRST	HDU 4 BED	HB 1387	8	8	4	0	0	0	0	4
HOSPI	FIRST	ISOLATIO	HB 1389	2	2	1	0	0	0	0	1

TAL		N ROOM									
HOSPITAL	FIRST	ISOLATION ROOM	HB 1390	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1395	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1399	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	MINOR OT	HB 1411(B)	2	2	2	0	1	1	1	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1418	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1419-HB 1420	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	HDU 4 BED	HB 1422-HB 1423	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD(6 BED)	HB 1424	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1426,HB 1428	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1431	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1432	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD(6 BED)	HB 1439	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1440	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1452	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD(6 BED)	HB 1456	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	HDU 4 BED	HB 1465	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	ISOLATION ROOM	HB 1468(A)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1468(B)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	MINOR OT	HB 1473(A)	2	2	2	0	1	1	1	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 1474(B)	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	4 BED ICU	HB 1491,493,494	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	ISOLATION ROOM	HB 1495	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 1496	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	4 BED ICU	HB 1498,499,500	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOO	ISOLATION ROOM	HB 2006	2	2	1	0	0	0	0	1

	R										
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2008	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2011	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2014	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	4 BED ICU	HB 2019	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2021	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	CCU 4 BED	HB 2023	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	PROCEDURE ROOM	HB 2037	1	1	1	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2039	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2040	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2041	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	HDU 4 BED	HB2044	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2045	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ICU 4 BED	HB2077	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2079	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2082	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ICU 4 BED	HB2083	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2097	2	2	1	0	0	0	0	1
HOSPI	2ND	ISOLATIO	HB2098	2	2	1	0	0	0	0	1

TAL	FLOOR	N ROOM									
HOSPITAL	2ND FLOOR	GI INTERVENTION	HB2100	1	1	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	PROCEDURE ROOM	HB2101	1	1	1	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2099	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2104	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	HDU 4 BED	HB2105	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2108	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2109	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ERCP ROOM	HB2130	1	1	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2141 A	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2141 B	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2143	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2144	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	HDU 4 BED	HB2147	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2150	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2150 A	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2166	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2167	2	2	1	0	0	0	0	1

HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2168	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2169	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2172	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2175	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2191	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB2193	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2198	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB2199	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	HDU 4 BED	HB2204	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2209 A	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2209 B	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2210	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2212	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	HDU 4 BED	HB 2214	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2217	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2219	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2258, HB 2259	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOO	WARD(6 BED)	HB 2260	4	4	0	0	0	0	0	0

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HOSPITAL	2ND FLOOR	HDU 4 BED	HB 2263	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2265	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2266	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ENDOSCOPY ROOM	HB 2292	1	1	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2299	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2300	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2301	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2302	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	HDU 4 BED	HB 2303,HB 2304,2T55	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2305	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2306	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2307	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2308	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2309	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ICU 4 BED	HB 2326	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2328	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2329	2	2	1	0	0	0	0	1
HOSPI	2ND	ICU 4 BED	HB 2331	8	8	4	0	0	0	0	4

TAL	FLOOR										
HOSPITAL	2ND FLOOR	RECOVERY ROOM 12BED	HB 2427	12	12	6	0	0	0	0	6
HOSPITAL	2ND FLOOR	HOLDING ROOM 12 BED	HB 2432	12	12	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2452	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	HDU 4 BED	HB 2453	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	WARD(6 BED)	HB 2454	4	4	0	0	0	0	0	0
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2464	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2465	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	4 BED ICU	HB 2471	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2473	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2474	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	4 BED ICU	HB 2476	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	4 BED ICU	HB 2486	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2488	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2489	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	4 BED ICU	HB 2491	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	4 BED ICU	HB 2500	8	8	4	0	0	0	0	4
HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2502	2	2	1	0	0	0	0	1

HOSPITAL	2ND FLOOR	ISOLATION ROOM	HB 2503	2	2	1	0	0	0	0	1
HOSPITAL	2ND FLOOR	4 BED ICU	HB 2505	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	PRIVATE ROOM	HB 3003	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3004	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3005	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3006	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3007	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3008	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3009	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3010	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3011	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3014	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3015	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3016	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3017	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3018	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3019	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3020	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3021	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3026 B	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3027 B	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3028 B	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3029 B	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PROCEDURE ROOM	HB 3042	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3044	4	4	0	0	0	0	0	0
HOSPI	THIRD	WARD(6	HB 3046	4	4	0	0	0	0	0	0

TAL		BED)									
HOSPITAL	THIRD	ISOLATION ROOM	HB 3050	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3051	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	HDU 4 BED	HB 3052	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ICU 4 BED	HB 3081-82	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3084	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3086	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3088-89	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	PROCEDURE ROOM	HB 3097	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PROCEDURE ROOM	HB 3098	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3109	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3110	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	WARD(6 BED)	HB 3111	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3112	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3113	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3114	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3115	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3117	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3118	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	WARD 10 BED	HB 3127	6	6	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3138	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3138 B	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	HDU 4 BED	HB 3139	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	WARD(6 BED)	HB 3141	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3147	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3150	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3151	4	4	0	0	0	0	0	0

HOSPITAL	THIRD	WARD(6 BED)	HB 3162	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3165	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3166	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3168	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3169	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	WARD(6 BED)	HB 3171	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3183	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3185	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3189	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3190	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	HDU 4 BED	HB 3198	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3206	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3206 B	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	WARD(6 BED)	HB 3207	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3210	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3223	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3224	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3259	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3261	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ICU 4 BED	HB 3263	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3265	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	DIALYSIS UNIT 7 BED	HB 3283	14	14	7	0	0	0	0	7
HOSPITAL	THIRD	ISOLATION ROOM	HB 3285	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3290	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3291	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	WARD(6 BED)	HB 3292	4	4	0	0	0	0	0	0

HOSPITAL	THIRD	WARD(6 BED)	HB 3293	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3294	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3297	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3298	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3299	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3300	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	PROCEDURE ROOM	HB 3304	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PERITONIAL DIALYSIS ROOM 6 BED	HB 3305	12	12	6	0	0	0	0	6
HOSPITAL	THIRD	HDU 4 BED	HB 3306	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ICU 4 BED	HB 3328	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3330	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3331	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3333	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	RECOVERY WARD 10 BED	HB 3431-32	10	10	5	0	0	0	0	5
HOSPITAL	THIRD	HOLDING ROOM 10 BED	HB 3434	10	10	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3442 A	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3442 B	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3442 C	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3442 D	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3448 A	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3448 B	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3448 C	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3448 D	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3451	1	1	0	0	0	0	0	0

HOSPITAL	THIRD	PRIVATE ROOM	HB 3452	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3453	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3454	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3455	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3456	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3457	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3458	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3459	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3460	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3463	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3464	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3465	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3466	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3467	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3468	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3469	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3470	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3471	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PRIVATE ROOM	HB 3472	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	PROCEDURE ROOM	HB 3476	1	1	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3480	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	WARD(6 BED)	HB 3488	4	4	0	0	0	0	0	0
HOSPITAL	THIRD	ISOLATION ROOM	HB 3491	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3492	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3497	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3499	2	2	1	0	0	0	0	1
HOSPI	THIRD	ISOLATIO	HB 3500	2	2	1	0	0	0	0	1

TAL		N ROOM									
HOSPITAL	THIRD	ICU 4 BED	HB 3502	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ICU 4 BED	HB 3512	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3514	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3515	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3517	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3530	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3532	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ICU 4 BED	HB 3533	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3534	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3546	8	8	4	0	0	0	0	4
HOSPITAL	THIRD	ISOLATION ROOM	HB 3548	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ISOLATION ROOM	HB 3549	2	2	1	0	0	0	0	1
HOSPITAL	THIRD	ICU 4 BED	HB 3551	8	8	4	0	0	0	0	4
		TOTAL		**1351**	**1351**	**445**	**0**	**12**	**12**	**12**	**416**

GAS OUTLETS FOR AIIMS JODHPUR							
BLOCK	**FLOOR**	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**			**BEDHEAD PANEL**
				OXYGEN	**VACUUM**	**AIR 4 BAR**	
TRAUMA	GROUND	PR-3	TB1005	1	1	0	0
TRAUMA	GROUND	PR-1	TB1006	1	1	0	0
TRAUMA	GROUND	PR-4	TB1007	1	1	0	0
TRAUMA	GROUND	PR-2	TB1008	1	1	0	0
TRAUMA	GROUND	MRI	TB1038	1	1	0	0
TRAUMA	GROUND	RECOVERY 6 BEDDED	TB1060	12	12	6	6
TRAUMA	GROUND	WARD 6 BED	TB1065	4	4	0	0
TRAUMA	GROUND	WARD 6 BED	TB1066	4	4	0	0
TRAUMA	GROUND	CT	TB1068	1	1	0	0
TRAUMA	FIRST	PRIVATE WARD	TB 2001(A)	1	1	0	0
TRAUMA	FIRST	PRIVATE WARD	TB 2002	1	1	0	0
TRAUMA	FIRST	WARD 3 BED	TB 2005	2	2	0	0
TRAUMA	FIRST	WARD 6 BED	TB 2006	4	4	0	0

TRAUMA	FIRST	WARD 6 BED	TB 2009	4	4	0	0
TRAUMA	FIRST	WARD 6 BED	TB 2010	4	4	0	0
TRAUMA	FIRST	WARD 2 BED	TB 2011	1	1	0	0
TRAUMA	FIRST	ISOLATION 1 BED	TB 2014	2	2	1	1
TRAUMA	FIRST	HDU 6 BED	TB 2015	12	12	6	6
TRAUMA	FIRST	HDU 6 BED	TB 2018	12	12	6	6
TRAUMA	FIRST	WARD 6 BED	TB 2022	4	4	0	0
TRAUMA	FIRST	WARD 6 BED	TB 2034	4	4	0	0
TRAUMA	FIRST	WARD 6 BED	TB 2039	4	4	0	0
TRAUMA	SECOND	PRIVATE WARD	TB 3006	1	1	0	0
TRAUMA	SECOND	PRIVATE WARD	TB 3008	1	1	0	0
TRAUMA	SECOND	WARD 3 BED	TB 3010	2	2	0	0
TRAUMA	SECOND	WARD 6 BED	TB 3012	4	4	0	0
TRAUMA	SECOND	WARD 6 BED	TB 3015	4	4	0	0
TRAUMA	SECOND	WARD 6 BED	TB 3016	4	4	0	0
TRAUMA	SECOND	ISOLATION 1 BED	TB 3018	2	2	1	1
TRAUMA	SECOND	HDU 6 BED	TB 3020	12	12	6	6
TRAUMA	SECOND	PRE-OPERATION 5 BED	TB 3046	5	5	0	0
TRAUMA	SECOND	POST OPERATION ICU 12 BED	TB 3051	24	24	12	12
		TOTAL		**140**	**140**	**38**	**38**

GAS OUTLETS FOR AIIMS JODHPUR							
BLOCK	**FLOOR**	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**			**BEDHEAD PANEL**
				OXYGEN	**VACUUM**	**AIR 4 BAR**	
D & T	GROUND	MRI	DT1028	1	1	0	0
D & T	GROUND	CT	DT1033	1	1	0	0
D & T	GROUND	CT	DT1057	1	1	0	0
D & T	GROUND	GAMMA CAMERA	DT1088	1	1	0	0
D & T	2ND FLOOR	PRE OP & RECOVERY 4 BED	DT 3007	4	4	0	0
D & T	2ND FLOOR	PRE OP 2 BED	DT 3008	1	1	0	0
D & T	2ND FLOOR	PRE LABOUR 4 BED	DT 3009	1	1	0	0
D & T	2ND FLOOR	ECLAMPSIA 2 BED	DT 3020	1	1	0	0
D & T	2ND FLOOR	SEPTIC DELIVERY 2 BED	DT 3032	2	2	1	0
D & T	2ND FLOOR	BABY RESUSCITATION	DT 3033	2	2	1	1
D & T	2ND FLOOR	BABY RESUSCITATION	DT 3034	2	2	1	1

D & T	2ND FLOOR	PRE ECLAMPSIA 4 BED	DT 3037	2	2	0	0
D & T	2ND FLOOR	LABOUR 1 BED	DT 3038	2	2	1	0
D & T	2ND FLOOR	LABOUR 1 BED	DT 3039	2	2	1	0
D & T	2ND FLOOR	LABOUR 1 BED	DT 3040	2	2	1	0
D & T	2ND FLOOR	POSTPARTUM 4 BED	DT 3041	4	4	0	0
D & T	2ND FLOOR	LABOUR 1 BED	DT 3042	2	2	1	0
D & T	2ND FLOOR	LABOUR 1 BED	DT 3045	2	2	1	0
D & T	2ND FLOOR	LABOUR 1 BED	DT 3046	2	2	1	0
D & T	2ND FLOOR	NURSERY 4 BED	DT 3049	4	4	0	0
D & T	2ND FLOOR	NICU 6 BED	DT 3053	12	12	6	6
D & T	2ND FLOOR	EMERGENCY OBST. 6 BED	DT 3054	4	4	0	0
D & T	2ND FLOOR	EMERGENCY OBST. 1 BED	DT 3058	1	1	0	0
D & T	2ND FLOOR	EMERGENCY OBST. 1 BED	DT 3059	1	1	0	0
D & T	3RD FLOOR	POST OPERATIVE ICU 8 BED	DT 4015	16	16	8	8
D & T	3RD FLOOR	PATIENT HOLDING AREA 6 BED	DT 4016(A)	4	4	0	0
D & T	3RD FLOOR	ICU 8 BED	DT 4025	16	16	8	8
D & T	3RD FLOOR	ISOLATION ROOM	DT 4026	2	2	1	1
D & T	3RD FLOOR	ISOLATION ROOM	DT 4027	2	2	1	1
D & T	4TH FLOOR	POST OPERATIVE ICU 8 BED	DT 5015	16	16	8	8
D & T	4TH FLOOR	PATIENT HOLDING AREA 6 BED	DT 5016(A)	4	4	0	0
D & T	4TH FLOOR	ICU 8 BED	DT 5025	16	16	8	8
D & T	4TH FLOOR	ISOLATION ROOM	DT 5026	2	2	1	1
D & T	4TH FLOOR	ISOLATION ROOM	DT 5027	2	2	1	1
D & T	5TH FLOOR	POST OPERATIVE ICU	DT 6015	16	16	8	8

		8 BED					
D & T	5TH FLOOR	PATIENT HOLDING AREA 6 BED	DT 6016(A)	4	4	0	0
D & T	5TH FLOOR	ICU 8 BED	DT 6025	16	16	8	8
D & T	5TH FLOOR	ISOLATION ROOM	DT 6026	2	2	1	1
D & T	5TH FLOOR	ISOLATION ROOM	DT 6027	2	2	1	1
D & T	6TH FLOOR	RECOVERY 4 BED	DT 7010	8	8	4	4
D & T	6TH FLOOR	PRE OP 2 BED	DT 7011	1	1	0	0
D & T	6TH FLOOR	PRE/POST ANGIO 6 BED	DT 7029	12	12	6	6
D & T	6TH FLOOR	POST ISOLATION	DT 7036	2	2	1	1
D & T	6TH FLOOR	POST ISOLATION	DT 7038	2	2	1	1
D & T	6TH FLOOR	CTVS ICU 10 BED	DT 7039	20	20	10	10
D & T	6TH FLOOR	CATH LAB	DT 7054	2	2	2	0
D & T	6TH FLOOR	CATH LAB	DT 7056	2	2	2	0
		TOTAL		**226**	**226**	**95**	**84**

GAS OUTLETS FOR AIIMS JODHPUR											
BLOCK	**FLOOR**	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**						**SINGLE ARM MOVABLE PENDANT**	**BEDHEAD PANEL**
				OXYGEN	**VACUUM**	**AIR 4 BAR**	**AIR 7 BAR**	**NITROUS OXIDE**	**AGSS**		
WARD1	GROUND	ETO STERLIZER	1WD 1013	0	0	1	0	0	0	0	0
WARD1	FIRST	WARD(6 BED)	1WD 2003	4	4	0	0	0	0	0	0
WARD1	FIRST	WARD(6 BED)	1WD 2004	4	4	0	0	0	0	0	0
WARD1	FIRST	WARD(2 BED)	1WD 2005	1	1	0	0	0	0	0	0
WARD1	FIRST	ISOLATION	1WD 2007	2	2	1	0	0	0	0	1
WARD1	FIRST	WARD(6 BED)	1WD 2009	4	4	0	0	0	0	0	0

WARD1	FIRST	HDU(WARD)(6BED)	1WD 2011	12	12	6	0	0	0	0	6
WARD1	FIRST	ISOLATION	1WD 2013	2	2	1	0	0	0	0	1
WARD1	FIRST	WARD(2 BED)	1WD 2015	1	1	0	0	0	0	0	0
WARD1	FIRST	WARD(6 BED)	1WD 2016	4	4	0	0	0	0	0	0
WARD1	FIRST	WARD(6 BED)	1WD 2017	4	4	0	0	0	0	0	0
WARD1	FIRST	WARD(6 BED)	1WD 2021	4	4	0	0	0	0	0	0
WARD1	FIRST	WARD(3 BED)	1WD 2022	2	2	0	0	0	0	0	0
WARD1	FIRST	PRIVATE WARD	1WD 2028	1	1	0	0	0	0	0	0
WARD1	FIRST	PRIVATE WARD	1WD 2030	1	1	0	0	0	0	0	0
WARD1	FIRST	PRIVATE WARD	1WD 2034	1	1	0	0	0	0	0	0
WARD1	FIRST	PRIVATE WARD	1WD 2035	1	1	0	0	0	0	0	0
WARD1	FIRST	WARD(3 BED)	1WD 2040	2	2	0	0	0	0	0	0
WARD1	FIRST	WARD(6 BED)	1WD 2042	4	4	0	0	0	0	0	0
WARD2	FIRST	WARD(6 BED)	2WD 2001	4	4	0	0	0	0	0	0
WARD2	FIRST	ISOLATION(M)	2WD 2003	2	2	1	0	0	0	0	1
WARD2	FIRST	WARD(2 BED)	2WD 2005	1	1	0	0	0	0	0	0
WARD2	FIRST	WARD(6 BED)	2WD 2006	4	4	0	0	0	0	0	0
WARD2	FIRST	WARD(6 BED)	2WD 2007	4	4	0	0	0	0	0	0
WARD2	FIRST	WARD(6 BED)	2WD 2011	4	4	0	0	0	0	0	0
WARD2	FIRST	WARD(3 BED)	2WD 2013	2	2	0	0	0	0	0	0
WARD2	FIRST	PRIVATE WARD	2WD 2018	1	1	0	0	0	0	0	0
WARD2	FIRST	PRIVATE WARD	2WD 2019	1	1	0	0	0	0	0	0
WARD2	FIRST	PRIVATE WARD	2WD 2023	1	1	0	0	0	0	0	0
WARD2	FIRST	PRIVATE WARD	2WD 2025	1	1	0	0	0	0	0	0
WARD2	FIRST	WARD(3 BED)	2WD 2031	2	2	0	0	0	0	0	0

WARD2	FIRST	WARD(6 BED)	2WD 2032	4	4	0	0	0	0	0	0
WARD2	FIRST	WARD(6 BED)	2WD 2036	4	4	0	0	0	0	0	0
WARD2	FIRST	WARD(6 BED)	2WD 2037	4	4	0	0	0	0	0	0
WARD2	FIRST	WARD(2 BED)	2WD 2038	1	1	0	0	0	0	0	0
WARD2	FIRST	ISOLATIO N(F)	2WD 2040	2	2	1	0	0	0	0	1
WARD2	FIRST	HDU(WA RD)(6BED)	2WD 2042	12	12	6	0	0	0	0	6
WARD1	SECOND	WARD(6 BED)	1WD 3003	4	4	0	0	0	0	0	0
WARD1	SECOND	WARD(6 BED)	1WD 3004	4	4	0	0	0	0	0	0
WARD1	SECOND	WARD(2 BED)	1WD 3005	1	1	0	0	0	0	0	0
WARD1	SECOND	ISOLATIO N	1WD 3007	2	2	1	0	0	0	0	1
WARD1	SECOND	HDU(WA RD)(6BED)	1WD 3009	12	12	6	0	0	0	0	6
WARD1	SECOND	WARD(6 BED)	1WD 3011	4	4	0	0	0	0	0	0
WARD1	SECOND	ISOLATIO N	1WD 3013	2	2	1	0	0	0	0	1
WARD1	SECOND	WARD(2 BED)	1WD 3015	1	1	0	0	0	0	0	0
WARD1	SECOND	WARD(6 BED)	1WD 3016	4	4	0	0	0	0	0	0
WARD1	SECOND	WARD(6 BED)	1WD 3017	4	4	0	0	0	0	0	0
WARD1	SECOND	WARD(6 BED)	1WD 3021	4	4	0	0	0	0	0	0
WARD1	SECOND	WARD(3 BED)	1WD 3022	2	2	0	0	0	0	0	0
WARD1	SECOND	PRIVATE WARD	1WD 3028	1	1	0	0	0	0	0	0
WARD1	SECOND	PRIVATE WARD	1WD 3030	1	1	0	0	0	0	0	0
WARD1	SECOND	PRIVATE WARD	1WD 3034	1	1	0	0	0	0	0	0
WARD1	SECOND	PRIVATE WARD	1WD 3035	1	1	0	0	0	0	0	0
WARD1	SECOND	WARD(3 BED)	1WD 3040	2	2	0	0	0	0	0	0
WARD1	SECOND	WARD(6 BED)	1WD 3042	4	4	0	0	0	0	0	0
WARD2	SECOND	HDU(WA RD)(	2WD 3001	12	12	6	0	0	0	0	6

		6BED)									
WARD2	SECOND	ISOLATION(M)	2WD 3003	2	2	1	0	0	0	0	1
WARD2	SECOND	WARD(2 BED)	2WD 3005	1	1	0	0	0	0	0	0
WARD2	SECOND	WARD(6 BED)	2WD 3006	4	4	0	0	0	0	0	0
WARD2	SECOND	WARD(6 BED)	2WD 3007	4	4	0	0	0	0	0	0
WARD2	SECOND	WARD(6 BED)	2WD 3011	4	4	0	0	0	0	0	0
WARD2	SECOND	WARD(3 BED)	2WD 3013	2	2	0	0	0	0	0	0
WARD2	SECOND	PRIVATE WARD	2WD 3018	1	1	0	0	0	0	0	0
WARD2	SECOND	PRIVATE WARD	2WD 3019	1	1	0	0	0	0	0	0
WARD2	SECOND	PRIVATE WARD	2WD 3023	1	1	0	0	0	0	0	0
WARD2	SECOND	PRIVATE WARD	2WD 3025	1	1	0	0	0	0	0	0
WARD2	SECOND	WARD(3 BED)	2WD 3031	2	2	0	0	0	0	0	0
WARD2	SECOND	WARD(6 BED)	2WD 3032	4	4	0	0	0	0	0	0
WARD2	SECOND	WARD(6 BED)	2WD 3036	4	4	0	0	0	0	0	0
WARD2	SECOND	WARD(6 BED)	2WD 3037	4	4	0	0	0	0	0	0
WARD2	SECOND	WARD(2 BED)	2WD 3038	1	1	0	0	0	0	0	0
WARD2	SECOND	ISOLATION(F)	2WD 3040	2	2	1	0	0	0	0	1
WARD2	SECOND	WARD(6 BED)	2WD 3042	4	4	0	0	0	0	0	0
WARD1	THIRD	WARD(6 BED)	1WD 4003	4	4	0	0	0	0	0	0
WARD1	THIRD	WARD(6 BED)	1WD 4004	4	4	0	0	0	0	0	0
WARD1	THIRD	WARD(2 BED)	1WD 4005	1	1	0	0	0	0	0	0
WARD1	THIRD	ISOLATION	1WD 4007	2	2	1	0	0	0	0	1
WARD1	THIRD	HDU(WARD)(6BED)	1WD 4009	12	12	6	0	0	0	0	6
WARD1	THIRD	HDU(WARD)(6BED)	1WD 4011	12	12	6	0	0	0	0	6
WARD1	THIRD	ISOLATION	1WD 4013	2	2	1	0	0	0	0	1

WARD1	THIRD	WARD(2 BED)	1WD 4015	1	1	0	0	0	0	0	0
WARD1	THIRD	WARD(6 BED)	1WD 4016	4	4	0	0	0	0	0	0
WARD1	THIRD	WARD(6 BED)	1WD 4017	4	4	0	0	0	0	0	0
WARD1	THIRD	WARD(6 BED)	1WD 4021	4	4	0	0	0	0	0	0
WARD1	THIRD	WARD(3 BED)	1WD 4022	2	2	0	0	0	0	0	0
WARD1	THIRD	PRIVATE WARD	1WD 4028	1	1	0	0	0	0	0	0
WARD1	THIRD	PRIVATE WARD	1WD 4030	1	1	0	0	0	0	0	0
WARD1	THIRD	PRIVATE WARD	1WD 4034	1	1	0	0	0	0	0	0
WARD1	THIRD	PRIVATE WARD	1WD 4035	1	1	0	0	0	0	0	0
WARD1	THIRD	WARD(3 BED)	1WD 4040	2	2	0	0	0	0	0	0
WARD1	THIRD	WARD(6 BED)	1WD 4042	4	4	0	0	0	0	0	0
WARD2	THIRD	WARD(6 BED)	2WD 4001	4	4	0	0	0	0	0	0
WARD2	THIRD	ISOLATION(M)	2WD 4003	2	2	1	0	0	0	0	1
WARD2	THIRD	WARD(2 BED)	2WD 4005	1	1	0	0	0	0	0	0
WARD2	THIRD	WARD(6 BED)	2WD 4006	4	4	0	0	0	0	0	0
WARD2	THIRD	WARD(6 BED)	2WD 4007	4	4	0	0	0	0	0	0
WARD2	THIRD	WARD(6 BED)	2WD 4011	4	4	0	0	0	0	0	0
WARD2	THIRD	WARD(3 BED)	2WD 4013	2	2	0	0	0	0	0	0
WARD2	THIRD	PRIVATE WARD	2WD 4018	1	1	0	0	0	0	0	0
WARD2	THIRD	PRIVATE WARD	2WD 4019	1	1	0	0	0	0	0	0
WARD2	THIRD	PRIVATE WARD	2WD 4023	1	1	0	0	0	0	0	0
WARD2	THIRD	PRIVATE WARD	2WD 4025	1	1	0	0	0	0	0	0
WARD2	THIRD	WARD(3 BED)	2WD 4031	2	2	0	0	0	0	0	0
WARD2	THIRD	WARD(6 BED)	2WD 4032	4	4	0	0	0	0	0	0
WARD2	THIRD	WARD(6 BED)	2WD 4036	4	4	0	0	0	0	0	0
WARD2	THIRD	WARD(6	2WD	4	4	0	0	0	0	0	0

		BED)	4037								
WARD2	THIRD	WARD(2 BED)	2WD 4038	1	1	0	0	0	0	0	0
WARD2	THIRD	ISOLATIO N(F)	2WD 4040	2	2	1	0	0	0	0	1
WARD2	THIRD	HDU(WA RD)(6BED)	2WD 4042	12	12	6	0	0	0	0	6
WARD1	4TH FLOOR	WARD(6 BED)	1WD 5003	4	4	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(6 BED)	1WD 5004	4	4	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(2 BED)	1WD 5005	1	1	0	0	0	0	0	0
WARD1	4TH FLOOR	ISOLATIO N	1WD 5007	2	2	1	0	0	0	0	1
WARD1	4TH FLOOR	HDU(WA RD)(6BED)	1WD 5009	12	12	6	0	0	0	0	6
WARD1	4TH FLOOR	HDU(WA RD)(6BED)	1WD 5011	12	12	6	0	0	0	0	6
WARD1	4TH FLOOR	ISOLATIO N	1WD 5013	2	2	1	0	0	0	0	1
WARD1	4TH FLOOR	WARD(2 BED)	1WD 5015	1	1	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(6 BED)	1WD 5016	4	4	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(6 BED)	1WD 5017	4	4	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(6 BED)	1WD 5021	4	4	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(3 BED)	1WD 5022	2	2	0	0	0	0	0	0
WARD1	4TH FLOOR	PRIVATE WARD	1WD 5028	1	1	0	0	0	0	0	0
WARD1	4TH FLOOR	PRIVATE WARD	1WD 5030	1	1	0	0	0	0	0	0
WARD1	4TH FLOOR	PRIVATE WARD	1WD 5034	1	1	0	0	0	0	0	0
WARD1	4TH FLOOR	PRIVATE WARD	1WD 5035	1	1	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(3 BED)	1WD 5040	2	2	0	0	0	0	0	0
WARD1	4TH FLOOR	WARD(6 BED)	1WD 5042	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(6 BED)	2WD 5001	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	ISOLATIO N(M)	2WD 5003	2	2	1	0	0	0	0	1
WARD2	4TH FLOOR	WARD(2 BED)	2WD 5005	1	1	0	0	0	0	0	0

WARD2	4TH FLOOR	WARD(6 BED)	2WD 5006	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(6 BED)	2WD 5007	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(6 BED)	2WD 5011	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(3 BED)	2WD 5013	2	2	0	0	0	0	0	0
WARD2	4TH FLOOR	PRIVATE WARD	2WD 5018	1	1	0	0	0	0	0	0
WARD2	4TH FLOOR	PRIVATE WARD	2WD 5019	1	1	0	0	0	0	0	0
WARD2	4TH FLOOR	PRIVATE WARD	2WD 5023	1	1	0	0	0	0	0	0
WARD2	4TH FLOOR	PRIVATE WARD	2WD 5025	1	1	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(3 BED)	2WD 5031	2	2	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(6 BED)	2WD 5032	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(6 BED)	2WD 5036	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(6 BED)	2WD 5037	4	4	0	0	0	0	0	0
WARD2	4TH FLOOR	WARD(2 BED)	2WD 5038	1	1	0	0	0	0	0	0
WARD2	4TH FLOOR	ISOLATION(F)	2WD 5040	2	2	1	0	0	0	0	1
WARD2	4TH FLOOR	HDU(WARD)(6BED)	2WD 5042	12	12	6	0	0	0	0	6
WARD1	5TH FLOOR	WARD(6 BED)	1WD 6003	4	4	0	0	0	0	0	0
WARD1	5TH FLOOR	WARD(6 BED)	1WD 6004	4	4	0	0	0	0	0	0
WARD1	5TH FLOOR	WARD(2 BED)	1WD 6005	1	1	0	0	0	0	0	0
WARD1	5TH FLOOR	ISOLATION	1WD 6007	2	2	1	0	0	0	0	1
WARD1	5TH FLOOR	HDU(WARD)(6BED)	1WD 6009	12	12	6	0	0	0	0	6
WARD1	5TH FLOOR	HDU(WARD)(6BED)	1WD 6011	12	12	6	0	0	0	0	6
WARD1	5TH FLOOR	ISOLATION	1WD 6013	2	2	1	0	0	0	0	1
WARD1	5TH FLOOR	WARD(2 BED)	1WD 6015	1	1	0	0	0	0	0	0
WARD1	5TH FLOOR	WARD(6 BED)	1WD 6016	4	4	0	0	0	0	0	0
WARD1	5TH	WARD(6	1WD	4	4	0	0	0	0	0	0

	FLOOR	BED)	6017								
WARD1	5TH FLOOR	WARD(6 BED)	1WD 6021	4	4	0	0	0	0	0	0
WARD1	5TH FLOOR	WARD(3 BED)	1WD 6022	2	2	0	0	0	0	0	0
WARD1	5TH FLOOR	PRIVATE WARD	1WD 6028	1	1	0	0	0	0	0	0
WARD1	5TH FLOOR	PRIVATE WARD	1WD 6030	1	1	0	0	0	0	0	0
WARD1	5TH FLOOR	PRIVATE WARD	1WD 6034	1	1	0	0	0	0	0	0
WARD1	5TH FLOOR	PRIVATE WARD	1WD 6035	1	1	0	0	0	0	0	0
WARD1	5TH FLOOR	WARD(3 BED)	1WD 6040	2	2	0	0	0	0	0	0
WARD1	5TH FLOOR	WARD(6 BED)	1WD 6042	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(6 BED)	2WD 6001	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	ISOLATIO N(M)	2WD 6003	2	2	1	0	0	0	0	1
WARD2	5TH FLOOR	WARD(2 BED)	2WD 6005	1	1	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(6 BED)	2WD 6006	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(6 BED)	2WD 6007	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(6 BED)	2WD 6011	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(3 BED)	2WD 6013	2	2	0	0	0	0	0	0
WARD2	5TH FLOOR	PRIVATE WARD	2WD 6018	1	1	0	0	0	0	0	0
WARD2	5TH FLOOR	PRIVATE WARD	2WD 6019	1	1	0	0	0	0	0	0
WARD2	5TH FLOOR	PRIVATE WARD	2WD 6023	1	1	0	0	0	0	0	0
WARD2	5TH FLOOR	PRIVATE WARD	2WD 6025	1	1	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(3 BED)	2WD 6031	2	2	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(6 BED)	2WD 6032	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(6 BED)	2WD 6036	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(6 BED)	2WD 6037	4	4	0	0	0	0	0	0
WARD2	5TH FLOOR	WARD(2 BED)	2WD 6038	1	1	0	0	0	0	0	0
WARD2	5TH FLOOR	ISOLATIO N(F)	2WD 6040	2	2	1	0	0	0	0	1

WARD2	5TH FLOOR	HDU(WARD)(6BED)	2WD 6042	12	12	6	0	0	0	0	6
WARD1	6TH FLOOR	WARD(6 BED)	1WD 7003	4	4	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(6 BED)	1WD 7004	4	4	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(2 BED)	1WD 7005	1	1	0	0	0	0	0	0
WARD1	6TH FLOOR	ISOLATION	1WD 7007	2	2	1	0	0	0	0	1
WARD1	6TH FLOOR	HDU(WARD)(6BED)	1WD 7009	12	12	6	0	0	0	0	6
WARD1	6TH FLOOR	HDU(WARD)(6BED)	1WD 7011	12	12	6	0	0	0	0	6
WARD1	6TH FLOOR	ISOLATION	1WD 7013	2	2	1	0	0	0	0	1
WARD1	6TH FLOOR	WARD(2 BED)	1WD 7015	1	1	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(6 BED)	1WD 7016	4	4	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(6 BED)	1WD 7017	4	4	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(6 BED)	1WD 7021	4	4	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(3 BED)	1WD 7022	2	2	0	0	0	0	0	0
WARD1	6TH FLOOR	PRIVATE WARD	1WD 7028	1	1	0	0	0	0	0	0
WARD1	6TH FLOOR	PRIVATE WARD	1WD 7030	1	1	0	0	0	0	0	0
WARD1	6TH FLOOR	PRIVATE WARD	1WD 7034	1	1	0	0	0	0	0	0
WARD1	6TH FLOOR	PRIVATE WARD	1WD 7035	1	1	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(3 BED)	1WD 7040	2	2	0	0	0	0	0	0
WARD1	6TH FLOOR	WARD(6 BED)	1WD 7042	4	4	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(6 BED)	2WD 7001	4	4	0	0	0	0	0	0
WARD2	6TH FLOOR	ISOLATION(M)	2WD 7003	2	2	1	0	0	0	0	1
WARD2	6TH FLOOR	WARD(2 BED)	2WD 7005	1	1	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(6 BED)	2WD 7006	4	4	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(6 BED)	2WD 7007	4	4	0	0	0	0	0	0
WARD2	6TH	WARD(6	2WD	4	4	0	0	0	0	0	0

	FLOOR	BED)	7011								
WARD2	6TH FLOOR	WARD(3 BED)	2WD 7013	2	2	0	0	0	0	0	0
WARD2	6TH FLOOR	PRIVATE WARD	2WD 7018	1	1	0	0	0	0	0	0
WARD2	6TH FLOOR	PRIVATE WARD	2WD 7019	1	1	0	0	0	0	0	0
WARD2	6TH FLOOR	PRIVATE WARD	2WD 7023	1	1	0	0	0	0	0	0
WARD2	6TH FLOOR	PRIVATE WARD	2WD 7025	1	1	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(3 BED)	2WD 7031	2	2	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(6 BED)	2WD 7032	4	4	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(6 BED)	2WD 7036	4	4	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(6 BED)	2WD 7037	4	4	0	0	0	0	0	0
WARD2	6TH FLOOR	WARD(2 BED)	2WD 7038	1	1	0	0	0	0	0	0
WARD2	6TH FLOOR	ISOLATION(F)	2WD 7040	2	2	1	0	0	0	0	1
WARD2	6TH FLOOR	HDU(WARD)(6BED)	2WD 7042	12	12	6	0	0	0	0	6
		TOTAL		**680**	**680**	**121**	**0**	**0**	**0**	**0**	**120**

GAS OUTLETS FOR AIIMS JODHPUR											
BLOCK	**FLOOR**	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**						**SINGLE ARM MOVABLE PENDANT**	**BED PA**
				OXYGEN	**VACUUM**	**AIR 4 BAR**	**AIR 7 BAR**	**NITROUS OXIDE**	**AGSS**		
OPD	GROUND	MINOR OT-ORTHO	OPD 1059	2	2	2	0	1	1	1	
OPD	SECOND	MINOR OT-GEN SURGERY	OPD 3005	2	2	2	0	1	1	1	
OPD	THIRD	RECOVERY ROOM 2 BED	OPD 4028	4	4	2	0	0	0	0	
OPD	THIRD	MINOR OT-GYN	OPD 4032	2	2	2	0	1	1	1	
OPD	FIFTH	TREATMENT ROOM	OPD 6016	1	1	0	0	0	0	0	
		TOTAL		**10**	**10**	**8**	**0**	**3**	**3**	**3**	

GAS OUTLETS FOR AIIMS JODHPUR			
BLOCK	**NO OF OUTLETS**	**SINGLE**	**BEDHEAD**

	OXYGEN	VACUUM	AIR 4 BAR	AIR 7 BAR	NITROUS OXIDE	AGSS	ARM MOVABLE PENDANT	PANEL
OPD	10	10	8	0	3	3	3	2
TRAUMA	140	140	38	0	0	0	0	38
D & T	226	226	95	6	0	0	0	84
WARD	680	680	121	0	0	0	0	120
TOTAL	**1056**	**1056**	**262**	**6**	**3**	**3**	**3**	**244**

MEDICAL GAS OUTLETS FOR AIIMS BHUBANESHWAR												
BLOCK	FLOOR	DESCRIPTION OF ROOM	ROOM NO	NO OF OUTLETS						SINGLE ARM MOVABLE PENDANT	BEDHEAD PANEL
				OXYGEN	VACUUM	AIR 4 BAR	AIR 7 BAR	NITROUS OXIDE	AGSS		
HOSPITAL	LOWER GROUND	LOW TEMPERATURE STERILIZATION ZONE	HB 1007 F	0	0	2	0	0	0	0	0
HOSPITAL	LOWER GROUND	SIMULATOR ROOM	HB 1018	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	LINAC - LOW ENERGY	HB 1021	1	1	1	0	0	0	0	0
HOSPITAL	LOWER GROUND	LINAC - HIGH ENERGY	HB 1022	1	1	1	0	0	0	0	0
HOSPITAL	LOWER GROUND	RECOVERY ROOM(2 BED)	HB 1029	4	4	2	0	0	0	0	2
HOSPITAL	LOWER GROUND	MINOR OT	HB 1031	2	2	2	0	1	1	1	0
HOSPITAL	LOWER GROUND	PROCEDURE 1	HB 1053	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	PROCEDURE 2	HB 1059	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	PROCEDURE 3	HB 1060	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	PROCEDURE	HB 1079	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	PROCEDURE	HB 1084	1	1	0	0	0	0	0	0

HOSPITAL	LOWER GROUND	PROCEDURE	HB 1085	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	PROCEDURE	HB 1119	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	PROCEDURE	HB 1120	1	1	0	0	0	0	0	0
HOSPITAL	LOWER GROUND	PROCEDURE	HB 1125	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	SPL PROCEDURE ROOM 2	HB 2207	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	SPL PROCEDURE ROOM 1	HB 2212	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	CT SCAN	HB 2229	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	WARD 11 BED	HB 2245	8	8	0	0	0	0	0	0
HOSPITAL	GROUND	ISOLATION ROOM	HB 2257	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	WARD 13 BED	HB 2266	8	8	0	0	0	0	0	0
HOSPITAL	GROUND	ISOLATION ROOM	HB 2269	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	TRAUMA 2 10 BED	HB 2281	6	6	0	0	0	0	0	0
HOSPITAL	GROUND	ISOLATION ROOM	HB 2284	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	ISOLATION ROOM	HB 2285	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	ISOLATION ROOM	HB 2288	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	ISOLATION ROOM	HB 2289	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	TRAUMA 1 10 BED	HB 2290	6	6	0	0	0	0	0	0
HOSPITAL	GROUND	RESUSITATION AREA 4 BED	HB 2297	8	8	4	0	0	0	0	4
HOSPITAL	GROUND	TRAUMA 3 TRIAGE 10 BED	HB 2316	6	6	0	0	0	0	0	0
HOSPITAL	GROUND	ISOLATION ROOM	HB 2317	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	ISOLATION ROOM	HB 2318	2	2	1	0	0	0	0	1
HOSPITAL	GROUND	PRIVATE ROOM	HB 2332	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2333	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2334	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2335	1	1	0	0	0	0	0	0

HOSPITAL	GROUND	PRIVATE ROOM	HB 2336	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2337	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2338	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2339	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2340	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2341	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2347	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2348	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2349	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2357	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2358	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2359	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	MRI	HB 2401	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	CT SCAN	HB 2405	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2407	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2408	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2409	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2410	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2411	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2412	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2413	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2414	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2415	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2416	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2426	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2427	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB	1	1	0	0	0	0	0	0

			2428								
HOSPITAL	GROUND	PRIVATE ROOM	HB 2438	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2439	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2440	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	INFECTIOUS BED(2 BED)	HB 2471	4	4	2	0	0	0	0	2
HOSPITAL	GROUND	DIALYSIS / BLOOD BANK-NON INFECTIOUS BED(4 BED)	HB 2480	8	8	4	0	0	0	0	4
HOSPITAL	GROUND	MINOR OT	HB 2482	2	2	2	0	1	1	1	0
HOSPITAL	GROUND	SPECIAL PROCEDURE ROOM	HB 2489	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2500	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2501	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2502	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2512	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2513	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2514	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2519	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2520	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2521	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2522	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2523	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2524	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2525	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2526	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2527	1	1	0	0	0	0	0	0
HOSPITAL	GROUND	PRIVATE ROOM	HB 2528	1	1	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (13 BED)	HB 3189	7	7	0	0	0	0	0	0

HOSPITAL	FIRST	WARD (13 BED)	HB 3193	7	7	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 3198	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 3210	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	POST OPERATIVE WARD 4 BED	HB 3216	4	4	2	0	0	0	0	2
HOSPITAL	FIRST	PRE OPERATIVE WARD 6 BED	HB 3218	4	4	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (13 BED)	HB 3261	8	8	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (13 BED)	HB 3266	8	8	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 3269	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 3281	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	WARD (4 BED)	HB 3292	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED) HDU	HB 3293	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD (4 BED)	HB 3294	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED)	HB 3302	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED)	HB 3303	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 3309	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ICU(7 BED)	HB 3312	14	14	7	0	0	0	0	7
HOSPITAL	FIRST	ISOLATION ICU(7 BED)	HB 3319	14	14	7	0	0	0	0	7
HOSPITAL	FIRST	ISOLATION ICU(7 BED)	HB 3322	14	14	7	0	0	0	0	7
HOSPITAL	FIRST	ISOLATION ICU(7 BED)	HB 3329	14	14	7	0	0	0	0	7
HOSPITAL	FIRST	WARD (4 BED)	HB 3351	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED) HDU	HB 3352	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD (4 BED)	HB 3353	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED)	HB 3361	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED)	HB 3362	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	ISOLATION ROOM	HB 3367	2	2	1	0	0	0	0	1
HOSPITAL	FIRST	ISOLATION ROOM	HB 3383	2	2	1	0	0	0	0	1

HOSPITAL	FIRST	WARD (4 BED)	HB 3388	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED)	HB 3389	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED)	HB 3396	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	WARD (4 BED) HDU	HB 3397	8	8	4	0	0	0	0	4
HOSPITAL	FIRST	WARD (4 BED)	HB 3398	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	PRE OPERATIVE WARD 4 BED	HB 3403	2	2	0	0	0	0	0	0
HOSPITAL	FIRST	POST OPERATIVE WARD 6 BED	HB 3437	12	12	6	0	0	0	0	6
HOSPITAL	SECOND FLOOR	WARD 14 BED	HB 4137	9	9	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD 14 BED	HB 4149	9	9	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4150	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4160	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	WARD (13 BED)	HB 4169	8	8	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (13 BED)	HB 4174	8	8	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4179	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4191	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	NURSERY	HB 4196	8	8	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	DELIVERY	HB 4203	1	1	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	POSTNATAL(2 BED)	HB 4209	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	ECL.DELIVERY ROOM(2 BED)	HB 4218	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	SEPTIC NURSERY	HB 4222	4	4	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	SEPTIC DELIVERY(4 BED)	HB 4223	4	4	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	PRENATAL	HB 4225	1	1	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (13 BED)	HB 4238	8	8	0	0	0	0	0	0

HOSPITAL	SECOND FLOOR	WARD (13 BED)	HB 4243	8	8	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4246	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4258	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	ISOLATION ICU(7 BED)	HB 4263	14	14	7	0	0	0	0	7
HOSPITAL	SECOND FLOOR	ISOLATION ICU(7 BED)	HB 4270	14	14	7	0	0	0	0	7
HOSPITAL	SECOND FLOOR	ISOLATION ICU(7 BED)	HB 4273	14	14	7	0	0	0	0	7
HOSPITAL	SECOND FLOOR	ISOLATION ICU(7 BED)	HB 4280	14	14	7	0	0	0	0	7
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4301	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	HDU (4 BED)	HB 4302	8	8	4	0	0	0	0	4
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4303	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4311	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4312	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4319	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4328	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	HDU (4 BED)	HB 4329	8	8	4	0	0	0	0	4
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4330	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4338	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4339	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4345	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	ISOLATION ROOM	HB 4360	2	2	1	0	0	0	0	1
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4365	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4366	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4373	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	HDU (4 BED)	HB 4374	8	8	4	0	0	0	0	4

HOSPITAL	SECOND FLOOR	WARD (4 BED)	HB 4375	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	PRE OPERATIVE ROOM(4BED)	HB 4380	2	2	0	0	0	0	0	0
HOSPITAL	SECOND FLOOR	POST OPERATIVE WARD(6BED)	HB 4414	12	12	6	0	0	0	0	6
HOSPITAL	THIRD FLOOR	WARD (13 BED)	HB 5019	7	7	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (13 BED)	HB 5031	7	7	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5032	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5042	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	WARD (13 BED)	HB 5051	7	7	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (13 BED)	HB 5056	7	7	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5061	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5080	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	POST OPERATIVE WARD(6BED)	HB 5085	12	12	6	0	0	0	0	6
HOSPITAL	THIRD FLOOR	PRE OPERATIVE WARD(4BED)	HB 5087	2	2	0	0	0	0	0	4
HOSPITAL	THIRD FLOOR	WARD (13 BED)	HB 5133	8	8	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5133A	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5138A	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	WARD (13 BED)	HB 5138	8	8	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	ISOLATION ICU(7 BED)	HB 5142	14	14	7	0	0	0	0	7
HOSPITAL	THIRD FLOOR	ISOLATION ICU(7 BED)	HB 5149	14	14	7	0	0	0	0	7
HOSPITAL	THIRD FLOOR	ISOLATION ICU(7 BED)	HB 5152	14	14	7	0	0	0	0	7
HOSPITAL	THIRD FLOOR	ISOLATION ICU(7 BED)	HB 5159	14	14	7	0	0	0	0	7
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5180	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED) HDU	HB 5181	8	8	4	0	0	0	0	4

HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5182	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5190	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5191	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5198	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	WARD 4 BEDDED	HB 5205	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED) HDU	HB 5206	8	8	4	0	0	0	0	4
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5207	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5215	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5216	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5221	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	ISOLATION ROOM	HB 5236	2	2	1	0	0	0	0	1
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5241	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5242	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5249	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	WARD (4 BED) HDU	HB 5250	8	8	4	0	0	0	0	4
HOSPITAL	THIRD FLOOR	WARD (4 BED)	HB 5251	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	PRE OPERATIVE ROOM(4BED)	HB 5256	2	2	0	0	0	0	0	0
HOSPITAL	THIRD FLOOR	POST OPERATIVE WARD(6BED)	HB 5290	12	12	6	0	0	0	0	6
HOSPITAL	FOURTH	WARD (13 BED)	HB 6004	8	8	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (13 BED)	HB 6016	8	8	0	0	0	0	0	0
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6017	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6027	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	WARD (13 BED)	HB 6040	8	8	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (13 BED)	HB 6045	8	8	0	0	0	0	0	0

HOSPITAL	FOURTH	ISOLATION ROOM	HB 6050	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6070	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	POST OPERATIVE WARD (8 BED)	HB 6075	16	16	8	0	0	0	0	8
HOSPITAL	FOURTH	PRE OPERATIVE WARD (4 BED)	HB 6077	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (13 BED)	HB 6122	8	8	0	0	0	0	0	0
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6122(A)	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	WARD (13 BED)	HB 6127	8	8	0	0	0	0	0	0
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6127(A)	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	ISOLATION ICU(7 BED)	HB 6131	14	14	7	0	0	0	0	7
HOSPITAL	FOURTH	ISOLATION ICU(7 BED)	HB 6138	14	14	7	0	0	0	0	7
HOSPITAL	FOURTH	ISOLATION ICU(7 BED)	HB 6141	14	14	7	0	0	0	0	7
HOSPITAL	FOURTH	ISOLATION ICU(7 BED)	HB 6148	14	14	7	0	0	0	0	7
HOSPITAL	FOURTH	WARD (4 BED)	HB 6169	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	HDU (4 BED)	HB 6170	8	8	4	0	0	0	0	0
HOSPITAL	FOURTH	WARD (4 BED)	HB 6171	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (4 BED)	HB 6179	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (4 BED)	HB 6180	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6187	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	WARD (4 BED)	HB 6194	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	HDU (4 BED)	HB 6195	8	8	4	0	0	0	0	1
HOSPITAL	FOURTH	WARD (4 BED)	HB 6196	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (4 BED)	HB 6204	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (4 BED)	HB 6205	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6210	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	ISOLATION ROOM	HB 6225	2	2	1	0	0	0	0	1
HOSPITAL	FOURTH	WARD (4 BED)	HB 6230	2	2	0	0	0	0	0	0

HOSPITAL	FOURTH	WARD (4 BED)	HB 6231	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	WARD (4 BED)	HB 6238	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	HDU (4 BED)	HB 6239	8	8	4	0	0	0	0	4
HOSPITAL	FOURTH	WARD (4 BED)	HB 6240	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	PRE OPERATIVE ROOM (4 BED)	HB 6245	2	2	0	0	0	0	0	0
HOSPITAL	FOURTH	POST OPERATIVE WARD (8 BED)	HB 6279	16	16	8	0	0	0	0	8
HOSPITAL	FIFTH	WARD (13 BED)	HB 7004	8	8	0	0	0	0	0	0
HOSPITAL	FIFTH	WARD (13 BED)	HB 7015	8	8	0	0	0	0	0	0
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7016	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7026	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	WARD (13 BED)	HB 7035	8	8	0	0	0	0	0	0
HOSPITAL	FIFTH	WARD (13 BED)	HB 7040	8	8	0	0	0	0	0	0
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7045	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7065	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	WARD (13 BED)	HB 7079	8	8	0	0	0	0	0	0
HOSPITAL	FIFTH	WARD (13 BED)	HB 7084	8	8	0	0	0	0	0	0
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7089	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7109	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	WARD (4 BED)	HB 7117	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	HDU (4 BED)	HB 7118	8	8	4	0	0	0	0	4
HOSPITAL	FIFTH	WARD (4 BED)	HB 7119	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	WARD (4 BED)	HB 7127	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	WARD (4 BED)	HB 7128	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7135	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	WARD (4 BED)	HB 7168	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	HDU (4 BED)	HB 7169	8	8	4	0	0	0	0	4

HOSPITAL	FIFTH	WARD (4 BED)	HB 7170	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	WARD (4 BED)	HB 7178	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	WARD (4 BED)	HB 7179	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7184	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	ISOLATION ROOM	HB 7197	2	2	1	0	0	0	0	1
HOSPITAL	FIFTH	WARD (4 BED)	HB 7213	2	2	0	0	0	0	0	0
HOSPITAL	FIFTH	HDU (4 BED)	HB 7214	8	8	4	0	0	0	0	4
HOSPITAL	FIFTH	WARD (4 BED)	HB 7215	2	2	0	0	0	0	0	0
HOSPITAL	SIXTH	WARD (13 BED)	HB 8004	8	8	0	0	0	0	0	0
HOSPITAL	SIXTH	WARD (13 BED)	HB 8015	8	8	0	0	0	0	0	0
HOSPITAL	SIXTH	ISOLATION ROOM	HB 8016	2	2	1	0	0	0	0	1
HOSPITAL	SIXTH	ISOLATION ROOM	HB 8026	2	2	1	0	0	0	0	1
HOSPITAL	SIXTH	WARD (13 BED)	HB 8035	8	8	0	0	0	0	0	0
HOSPITAL	SIXTH	WARD (13 BED)	HB 8040	8	8	0	0	0	0	0	0
HOSPITAL	SIXTH	ISOLATION ROOM	HB 8045	2	2	1	0	0	0	0	1
HOSPITAL	SIXTH	ISOLATION ROOM	HB 8065	2	2	1	0	0	0	0	1
HOSPITAL	SIXTH	WARD (13 BED)	HB 8074	8	8	0	0	0	0	0	0
HOSPITAL	SIXTH	WARD (13 BED)	HB 8079	8	8	0	0	0	0	0	0
HOSPITAL	SIXTH	ISOLATION ROOM	HB 8084	2	2	1	0	0	0	0	1
HOSPITAL	SIXTH	ISOLATION ROOM	HB 8104	2	2	1	0	0	0	0	1
		TOTAL		**1092**	**1092**	**291**	**0**	**2**	**2**	**2**	**280**

GAS OULETS FOR HOSPITAL, AIIMS PATNA									
LEVEL	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**					**BEDHEAD PANEL**
			OXYGEN	**VACUUM**	**AIR 4 bar**	**NITROUS OXIDE**	**AGSS**	

BASEMENT	MEDICAL ONCOLOGY & RADIOTHERAPY WARD 6 BED	HB 1003	4	4	0	0	0	0
BASEMENT	MEDICAL ONCOLOGY & RADIOTHERAPY WARD 6 BED	HB 1004	4	4	0	0	0	0
BASEMENT	MEDICAL ONCOLOGY & RADIOTHERAPY WARD 6 BED	HB 1005	4	4	0	0	0	0
BASEMENT	MEDICAL ONCOLOGY & RADIOTHERAPY WARD 6 BED	HB 1013	4	4	0	0	0	0
BASEMENT	MEDICAL ONCOLOGY & RADIOTHERAPY WARD 6 BED	HB 1019	4	4	0	0	0	0
BASEMENT	ETO ROOM	HB 1025	0	0	1	0	0	0
BASEMENT	SURGICAL ONCOLOGY WARD	HB 1087	4	4	0	0	0	0
BASEMENT	SURGICAL ONCOLOGY WARD	HB 1093	4	4	0	0	0	0
BASEMENT	SURGICAL ONCOLOGY WARD	HB 1101	4	4	0	0	0	0
BASEMENT	SURGICAL ONCOLOGY WARD	HB 1102	4	4	0	0	0	0
BASEMENT	SURGICAL ONCOLOGY WARD	HB 1103	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2004	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2005	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2006	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2012	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2013	4	4	0	0	0	0

GROUND	WARD -6 BED-ORTHO	HB 2014	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2023	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2029	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2040	4	4	0	0	0	0
GROUND	WARD -6 BED-ORTHO	HB 2046	4	4	0	0	0	0
GROUND	WARD -6 BED-GYNEC	HB 2057	4	4	0	0	0	0
GROUND	WARD -6 BED-GYNEC	HB 2063	4	4	0	0	0	0
GROUND	NICU-4 BED	HB 2073	4	4	2	0	0	2
GROUND	POSTPARTUM ROOM	HB 2074	1	1	0	0	0	0
GROUND	OBSERVATION ROOM 2 BED	HB 2076	1	1	0	0	0	0
GROUND	ECLAMPSIA ROOM 2 BED	HB 2083	1	1	1	0	0	0
GROUND	ECLAMPSIA ROOM 2 BED	HB 2091	1	1	1	0	0	0
GROUND	LABOUR ROOM (2 BED)	HB 2092	1	1	0	0	0	0
GROUND	NURSERY 4 BED	HB 2093	4	4	0	0	0	0
GROUND	WARD -6 BED-GYNEC	HB 2103	4	4	0	0	0	0
GROUND	WARD -6 BED-GYNEC	HB 2104	4	4	0	0	0	0
GROUND	WARD -6 BED-GYNEC	HB 2105	4	4	0	0	0	0
GROUND	TRIAGE /RESUSCITATION AREA 6 BED	HB 2145	12	12	6	0	0	6
GROUND	EMERGENCY WARD 6 BED	HB 2148	4	4	0	0	0	0
GROUND	EMERGENCY WARD 6 BED	HB 2149	4	4	0	0	0	0
GROUND	DSA	HB 2169	1	1	0	0	0	0
GROUND	MRI	HB 2178	1	1	0	0	0	0
GROUND	CT SCAN	HB 2181	1	1	0	0	0	0

FIRST	WARD GENERAL MEDICINE 6 BED	HB 3003	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3004	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3005	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3011	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3012	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3013	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3021	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3027	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3038	4	4	0	0	0	0
FIRST	WARD GENERAL MEDICINE 6 BED	HB 3044	4	4	0	0	0	0
FIRST	POST PARTUM ROOM	HB 3056	2	2	0	0	0	0
FIRST	OBSERVATION ROOM	HB 3059	1	1	0	0	0	0
FIRST	LABOUR ROOM (2 BED)	HB 3067	2	2	0	0	0	0
FIRST	LABOUR ROOM (2 BED)	HB 3068	2	2	0	0	0	0
FIRST	LABOUR ROOM (2 BED)	HB 3070	2	2	0	0	0	0
FIRST	NICU 4 BED	HB 3072	4	4	2	0	0	2
FIRST	WARD GYNECOLOGY 6 BED	HB 3077	4	4	0	0	0	0
FIRST	WARD GYNECOLOGY 6 BED	HB 3078	4	4	0	0	0	0
FIRST	WARD GYNECOLOGY 6 BED	HB 3079	4	4	0	0	0	0
FIRST	WARD GYNECOLOGY 6 BED	HB 3088	4	4	0	0	0	0
FIRST	WARD GYNECOLOGY 6 BED	HB 3094	4	4	0	0	0	0
FIRST	WARD ENDOCRINOLOGY 6 BED	HB 3108	4	4	0	0	0	0
FIRST	WARD ENDOCRINOLOGY 6 BED	HB 3114	4	4	0	0	0	0
FIRST	WARD ENDOCRINOLOGY 6 BED	HB 3122	4	4	0	0	0	0
FIRST	WARD ENDOCRINOLOGY 6 BED	HB 3123	4	4	0	0	0	0
FIRST	WARD ENDOCRINOLOGY 6 BED	HB	4	4	0	0	0	0

		3124						
FIRST	CARDIOTHORACIC WARD 6 BED	HB 3135	4	4	0	0	0	0
FIRST	CARDIOTHORACIC WARD 6 BED	HB 3141	4	4	0	0	0	0
FIRST	CARDIOTHORACIC WARD 6 BED	HB 3150	4	4	0	0	0	0
FIRST	CARDIOTHORACIC WARD 6 BED	HB 3151	4	4	0	0	0	0
FIRST	CARDIOTHORACIC WARD 6 BED	HB 3152	4	4	0	0	0	0
FIRST	CARDIOLOGY WARD 6 BED	HB 3162	4	4	0	0	0	0
FIRST	CARDIOLOGY WARD 6 BED	HB 3168	4	4	0	0	0	0
FIRST	CARDIOLOGY WARD 6 BED	HB 3176	4	4	0	0	0	0
FIRST	CARDIOLOGY WARD 6 BED	HB 3177	4	4	0	0	0	0
FIRST	CARDIOLOGY WARD 6 BED	HB 3178	4	4	0	0	0	0
FIRST	MEDICAL ICU 9 BED	HB 3182	18	18	9	0	0	9
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4004	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4005	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4006	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4012	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4013	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4014	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4023	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4029	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4040	4	4	0	0	0	0
SECOND	WARD GENERAL MEDICINE 6 BED	HB 4046	4	4	0	0	0	0
SECOND	WARD ENT 6 BED	HB 4057	4	4	0	0	0	0
SECOND	WARD ENT 6 BED	HB 4063	4	4	0	0	0	0
SECOND	WARD ENT 6 BED	HB 4072	4	4	0	0	0	0

SECOND	WARD ENT 6 BED	HB 4073	4	4	0	0	0	0
SECOND	WARD ENT 6 BED	HB 4074	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4086	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4092	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4101	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4102	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4103	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4113	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4119	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4128	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4129	4	4	0	0	0	0
SECOND	WARD PAEDEATRICS 6 BED	HB 4130	4	4	0	0	0	0
SECOND	MEDICAL PAEDEATRICS ICU 9 BED	HB 4154	18	18	9	0	0	9
SECOND	PAEDEATRICS SURGERY WARD 6 BED	HB 4157	4	4	0	0	0	0
SECOND	PAEDEATRICS SURGERY WARD 6 BED	HB 4171	4	4	0	0	0	0
SECOND	PAEDEATRICS SURGERY WARD 6 BED	HB 4172	4	4	0	0	0	0
SECOND	EYE WARD 6 BED	HB 4184	4	4	0	0	0	0
SECOND	EYE WARD 6 BED	HB 4190	4	4	0	0	0	0
SECOND	EYE WARD 6 BED	HB 4198	4	4	0	0	0	0
SECOND	EYE WARD 6 BED	HB 4199	4	4	0	0	0	0
SECOND	EYE WARD 6 BED	HB 4200	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5004	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB	4	4	0	0	0	0

		5005						
THIRD	GENERAL SURGERY WARD 6 BED	HB 5006	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5012	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5013	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5014	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5021	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5027	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5038	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5043	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5055	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5061	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5072	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5078	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5087	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5088	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5089	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5094	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5095	4	4	0	0	0	0
THIRD	GENERAL SURGERY WARD 6 BED	HB 5096	4	4	0	0	0	0
THIRD	TB & RESPIRATORY DISEASES WARD 6 BED	HB 5107	4	4	0	0	0	0
THIRD	TB & RESPIRATORY DISEASES WARD 6 BED	HB 5113	4	4	0	0	0	0
THIRD	TB & RESPIRATORY DISEASES WARD 6 BED	HB 5122	4	4	0	0	0	0
THIRD	TB & RESPIRATORY DISEASES WARD 6 BED	HB 5123	4	4	0	0	0	0
THIRD	TB & RESPIRATORY DISEASES WARD 6 BED	HB 5124	4	4	0	0	0	0
THIRD	NEPHROLOGY WARD 6 BED	HB 5135	4	4	0	0	0	0
THIRD	NEPHROLOGY WARD 6 BED	HB 5141	4	4	0	0	0	0
THIRD	NEPHROLOGY WARD 6 BED	HB 5150	4	4	0	0	0	0

THIRD	NEPHROLOGY WARD 6 BED	HB 5151	4	4	0	0	0	0
THIRD	NEPHROLOGY WARD 6 BED	HB 5152	4	4	0	0	0	0
THIRD	DIALYSIS UNIT (WARD) 14 BED	HB 5172	28	28	14	0	0	14
THIRD	PSYCHIATRY WARD 6 BED	HB 5175	4	4	0	0	0	0
THIRD	PSYCHIATRY WARD 6 BED	HB 5176	4	4	0	0	0	0
THIRD	PSYCHIATRY WARD 6 BED	HB 5177	4	4	0	0	0	0
THIRD	PSYCHIATRY WARD 6 BED	HB 5186	4	4	0	0	0	0
THIRD	PSYCHIATRY WARD 6 BED	HB 5192	4	4	0	0	0	0
FOURTH	SURGICAL GASTROENDROLOGY WARD 6 BED	HB 6003	4	4	0	0	0	0
FOURTH	SURGICAL GASTROENDROLOGY WARD 6 BED	HB 6004	4	4	0	0	0	0
FOURTH	SURGICAL GASTROENDROLOGY WARD 6 BED	HB 6005	4	4	0	0	0	0
FOURTH	SURGICAL GASTROENDROLOGY WARD 6 BED	HB 6013	4	4	0	0	0	0
FOURTH	SURGICAL GASTROENDROLOGY WARD 6 BED	HB 6019	4	4	0	0	0	0
FOURTH	GASTROENDROLOGY WARD 6 BED	HB 6026	4	4	0	0	0	0
FOURTH	GASTROENDROLOGY WARD 6 BED	HB 6027	4	4	0	0	0	0
FOURTH	GASTROENDROLOGY WARD 6 BED	HB 6028	4	4	0	0	0	0
FOURTH	GASTROENDROLOGY WARD 6 BED	HB 6036	4	4	0	0	0	0
FOURTH	GASTROENDROLOGY WARD 6 BED	HB 6042	4	4	0	0	0	0
FOURTH	DERMATOLOGY WARD 6 BED	HB 6055	4	4	0	0	0	0
FOURTH	DERMATOLOGY WARD 6 BED	HB 6061	4	4	0	0	0	0
FOURTH	DERMATOLOGY WARD 6 BED	HB 6068	4	4	0	0	0	0
FOURTH	DERMATOLOGY WARD 6 BED	HB 6069	4	4	0	0	0	0
FOURTH	DERMATOLOGY WARD 6 BED	HB 6070	4	4	0	0	0	0
FOURTH	CLINICAL HAEMATOLOGY WARD 6 BED	HB 6060	4	4	0	0	0	0
FOURTH	CLINICAL HAEMATOLOGY WARD 6 BED	HB 6066	4	4	0	0	0	0
FOURTH	CLINICAL HAEMATOLOGY WARD 6 BED	HB 6075	4	4	0	0	0	0
FOURTH	CLINICAL HAEMATOLOGY WARD	HB	4	4	0	0	0	0

	6 BED	6076						
FOURTH	CLINICAL HAEMATOLOGY WARD 6 BED	HB 6076	4	4	0	0	0	0
FIFTH	POST OPERATIVE HOLDING AREA 8 BED	HB 7041	16	16	8	0	0	8
FIFTH	PRE OPERATIVE WARD 6 BED	HB 7070	4	4	0	0	0	0
FIFTH	NEUROLOGY WARD 6 BED	HB 7080	4	4	0	0	0	0
FIFTH	NEUROLOGY WARD 6 BED	HB 7086	4	4	0	0	0	0
FIFTH	NEUROLOGY WARD 6 BED	HB 7095	4	4	0	0	0	0
FIFTH	NEUROLOGY WARD 6 BED	HB 7096	4	4	0	0	0	0
FIFTH	NEUROLOGY WARD 6 BED	HB 7097	4	4	0	0	0	0
FIFTH	BURNS AND PLASTIC SURGERY WARD 6 BED	HB 7106	4	4	0	0	0	0
FIFTH	BURNS AND PLASTIC SURGERY WARD 6 BED	HB 7112	4	4	0	0	0	0
FIFTH	BURNS AND PLASTIC SURGERY WARD 6 BED	HB 7121	4	4	0	0	0	0
FIFTH	BURNS AND PLASTIC SURGERY WARD 6 BED	HB 7122	4	4	0	0	0	0
FIFTH	BURNS AND PLASTIC SURGERY WARD 6 BED	HB 7123	4	4	0	0	0	0
FIFTH	UROLOGY WARD 6 BED	HB 7131	4	4	0	0	0	0
FIFTH	UROLOGY WARD 6 BED	HB 7137	4	4	0	0	0	0
FIFTH	UROLOGY WARD 6 BED	HB 7145	4	4	0	0	0	0
FIFTH	UROLOGY WARD 6 BED	HB 7146	4	4	0	0	0	0
FIFTH	UROLOGY WARD 6 BED	HB 7147	4	4	0	0	0	0
FIFTH	NEURO SURGERY WARD 6 BED	HB 7153	4	4	0	0	0	0
FIFTH	NEURO SURGERY WARD 6 BED	HB 7159	4	4	0	0	0	0
FIFTH	NEURO SURGERY WARD 6 BED	HB 7167	4	4	0	0	0	0
FIFTH	NEURO SURGERY WARD 6 BED	HB 7168	4	4	0	0	0	0
FIFTH	NEURO SURGERY WARD 6 BED	HB 7169	4	4	0	0	0	0
FIFTH	PRE OPERATIVE WARD 6 BED	HB 7197	4	4	0	0	0	0
FIFTH	POST OPERATIVE HOLDING AREA 8 BED	HB 7202	16	16	8	0	0	8
SIXTH	POST OPERATIVE HOLDING AREA 6 BED	HB 8040	12	12	6	0	0	6

SIXTH	POST OPERATIVE AREA/NURSE STN. 6 BED	HB 8045	12	12	6	0	0	6
SIXTH	POST OPERATIVE HDU/NURSE STN.6 BED	HB 8046	12	12	6	0	0	6
SIXTH	PRE OPERATIVE WARD/NURSE STATION 8 BED	HB 8072	6	6	0	0	0	0
SIXTH	CATHLAB	HB 8095	2	2	2	0	0	0
SIXTH	CATHLAB	HB 8098	2	2	2	0	0	0
SIXTH	CCU WITH NURSE STATION 8 BED	HB 8099	16	16	8	0	0	8
SIXTH	SURGICAL MEDICAL ICU 10 BED	HB 8105	20	20	10	0	0	10
SIXTH	PRIVATE ROOM	HB 8126	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8128	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8130	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8132	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8139	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8141	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8143	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8145	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8155	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8157	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8159	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8161	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8163	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8165	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8175	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8177	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8179	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8181	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8188	1	1	0	0	0	0

SIXTH	PRIVATE ROOM	HB 8190	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8192	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8194	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8196	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8198	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8200	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8202	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8209	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8211	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8213	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8215	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8223	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8225	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8227	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8229	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8231	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8233	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8235	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8241	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8243	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8245	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8247	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8249	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8251	1	1	0	0	0	0
SIXTH	PRIVATE ROOM	HB 8253	1	1	0	0	0	0
	TOTAL		**931**	**931**	**101**	**0**	**0**	**94**

GAS OULETS FOR TRAUMA, AIIMS PATNA								
LEVEL	DESCRIPTION OF ROOM	ROOM NO	NO OF OUTLETS					BED HEAD PANEL
			OXYGEN	VACUUM	AIR 4 bar	NITROUS OXIDE	AGSS	
GROUND	TRIAGE 8 BED	TB1007	6	6	0	0	0	0
GROUND	OBSERVATION WARD 8 BED	TB1010	6	6	0	0	0	0
GROUND	RESUSCITATION	TB1008	12	12	6	0	0	6
FIRST	ICU 20 BED	TB2001	40	40	20	0	0	20
SECOND	BED ICU 18 BED	TB 3002	36	36	18	0	0	18
THIRD	POST OPERATIVE WARD-5 BED	TB 4009	10	10	5	0	0	5
THIRD	PRE OPERATIVE WARD-4 BED	TB 4029	4	4	0	0	0	0
FOURTH	POST OPERATIVE WARD-5 BED	TB 5003	10	10	5	0	0	5
FOURTH	BURN ICU 8 BED	TB 5025	16	16	8	0	0	8
	TOTAL		**140**	**140**	**62**	**0**	**0**	**62**

GAS OULETS FOR OPD, AIIMS PATNA										
LEVEL	DESCRIPTION OF ROOM	ROOM NO	NO OF OUTLETS						SINGLE ARM MOVABLE PENDANT	BEDHEAD PANEL
			OXYGEN	VACUUM	AIR 4 bar	AIR 7 bar	NITROUS OXIDE	AGSS		
LOWER GROUND	CHEMOTHERAPY TREATMENT ROOM(2 BED)	OB1026-OB1027	2	2	0	0	0	0	0	0
LOWER GROUND	LINEAR ACCELERATOR	OB1031	1	1	1	0	0	0	0	0
LOWER GROUND	LINEAR ACCELERATOR	OB1032	1	1	1	0	0	0	0	0

GROUND	OPTHALMOLOGY MINOR OT	OB 2003	2	2	2	0	1	1	1	0
GROUND	GENERAL SURGERY MINOR OT	OB 2083	2	2	2	0	1	1	1	0
SECOND	PAEDIATRIC SURGERY MINOR OT	OB4007	2	2	2	0	1	1	1	0
SECOND	ENT MINOR OT	OB4044	2	2	2	0	1	1	1	0
SECOND	OBSTETRICS AND GYNAECOLOGY MINOR OT	OB4064	2	2	2	0	1	1	1	0
FIFTH	BURNS AND PLASTIC MINOR OT	OPD 7036	2	2	2	0	1	1	1	0
	TOTAL		**16**	**16**	**14**	**0**	**6**	**6**	**6**	**0**

	NO OF OUTLETS						**SINGLE ARM MOVABLE PENDANT**	**DOUBLE ARM MOVABLE PENDANT**	**SURGEONS PENDANT**	**BEDHEAD PANEL**
	OXYGEN	**VACUUM**	**AIR 4 bar**	**AIR 7 bar**	**NITROUS OXIDE**	**AGSS**				
HOSPITAL	931	931	101	0	0	0	0	0	0	94
TRAUMA	140	140	62	0	0	0	0	0	0	62
OPD	16	16	14	0	6	6	6	0	0	0
TOTAL	**1087**	**1087**	**177**	**0**	**6**	**6**	**6**	**0**	**0**	**156**

GAS OULETS FOR HOSPITAL BLOCK, AIIMS RAIPUR

LEVEL	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**					**SINGLE ARM MOVABLE PENDANT**	**BEDHEAD PANEL**
			OXYGEN	**VACUUM**	**AIR 4 BAR**	**NITROUS OXIDE**	**AGSS**		
LOWER GROUND	WARD - 6 BED	HB 1052	4	4	0	0	0	0	0

LOWER GROUND	WARD - 6 BED	HB 1056	4	4	0	0	0	0	0
LOWER GROUND	WARD - 6 BED	HB 1062	4	4	0	0	0	0	0
LOWER GROUND	WARD - 6 BED	HB 1063	4	4	0	0	0	0	0
LOWER GROUND	WARD - 6 BED	HB 1064	4	4	0	0	0	0	0
LOWER GROUND	ISOLATION ROOM	HB 1065	2	2	1	0	0	0	1
LOWER GROUND	INF DIALYSIS - 4 BED	HB 1073	8	8	4	0	0	0	4
LOWER GROUND	DIALYSIS ROOM - 4 BED	HB 1074	8	8	4	0	0	0	4
LOWER GROUND	DIALYSIS ROOM - 4 BED	HB 1082	4	4	0	0	0	0	0
LOWER GROUND	DIALYSIS ROOM - 4 BED	HB 1083	4	4	0	0	0	0	0
LOWER GROUND	DIALYSIS ROOM - 4 BED	HB 1084	4	4	0	0	0	0	0
LOWER GROUND	DIALYSIS ROOM - 4 BED	HB 1085	4	4	0	0	0	0	0
LOWER GROUND	ETO STERILIZER ROOM	HB 1182	0	0	1	0	0	0	0
GROUND	MINOR OT	HB 2051	2	2	2	1	1	1	0
GROUND	CT SCAN	HB 2083	1	1	0	0	0	0	0
GROUND	OBSERVATION WARD - 6 BED	HB 2357	4	4	0	0	0	0	0
GROUND	OBSERVATION WARD - 10 BED	HB 2371	6	6	0	0	0	0	0
FIRST	WARD - 4 BED	HB 3099	2	2	0	0	0	0	0
FIRST	WARD - 4 BED	HB 3100	2	2	0	0	0	0	0
FIRST	WARD - 4 BED	HB 3101	2	2	0	0	0	0	0

FIRST	ISOLATION ROOM	HB 3102	2	2	1	0	0	0	1
FIRST	WARD - 4 BED	HB 3107	2	2	0	0	0	0	0
FIRST	WARD - 4 BED	HB 3111	2	2	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3153	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3158	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3163	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3164	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3165	4	4	0	0	0	0	0
FIRST	ISOLATION ROOM	HB 3166	2	2	1	0	0	0	1
FIRST	WARD - 6 BED	HB 3172	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3176	4	4	0	0	0	0	0
FIRST	ISOLATION ROOM	HB 3182	2	2	1	0	0	0	1
FIRST	WARD - 6 BED	HB 3183	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3184	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3185	4	4	0	0	0	0	0
FIRST	MINOR OT	HB 2209	2	2	2	1	1	1	0
FIRST	WARD - 6 BED	HB 3246	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3250	4	4	0	0	0	0	0
FIRST	ISOLATION ROOM	HB 3256	2	2	1	0	0	0	1
FIRST	WARD - 6 BED	HB 3257	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3258	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3259	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3265	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3270	4	4	0	0	0	0	0

FIRST	WARD - 6 BED	HB 3275	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3276	4	4	0	0	0	0	0
FIRST	WARD - 6 BED	HB 3277	4	4	0	0	0	0	0
FIRST	ISOLATION ROOM	HB 3278	2	2	1	0	0	0	1
FIRST	OBSERVATIO N - 2 BED	HB 3289	1	1	0	0	0	0	0
FIRST	POST PARTUM ROOM - 2 BED	HB 3291	2	2	0	0	0	0	0
FIRST	DELIVERY SUITE - 1 BED	HB 3293	2	2	2	0	0	0	0
FIRST	NURSERY 6 BED	HB 3294	6	6	0	0	0	0	0
FIRST	LABOUR ROOM ECLAMPSIA - 2 BED	HB 3301	2	2	0	0	0	0	0
FIRST	DELIVERY ROOM - 4 BED	HB 3302	4	4	0	0	0	0	0
FIRST	LABOUR ROOM - 2 BED	HB 3304	2	2	0	0	0	0	0
FIRST	LABOUR ROOM - 2 BED	HB 3306	2	2	0	0	0	0	0
FIRST	POST PARTUM CAESAREAN CASES - 4 BED	HB 3333	4	4	0	0	0	0	0
FIRST	NURSERY 4 BED	HB 3335	4	4	0	0	0	0	0
FIRST	NICU - 4 BED	HB 3336	4	4	2	0	0	0	2
FIRST	NICU - 4 BED	HB 3337	4	4	2	0	0	0	2
FIRST	LABOUR ROOM - 2 BED	HB 3360	1	1	0	0	0	0	0
FIRST	DELIVERY ROOM - 2 BED	HB 3361	2	2	0	0	0	0	0
FIRST	POST PARTUM ROOM - 4 BED	HB 3364	2	2	0	0	0	0	0

FIRST	LABOUR ROOM ECLAMPSIA - 2 BED	HB 3365	2	2	0	0	0	0	0
FIRST	NURSERY 4 BED	HB 3369	6	6	0	0	0	0	0
FIRST	OBSERVATIO N ROOM - 2 BED	HB 3373	1	1	0	0	0	0	0
FIRST	DELIVERY SUITE - 1 BED	HB 3374	2	2	2	0	0	0	0
SECOND	WARD - 6 BED	HB 4001	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4002	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4003	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4004	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4010	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4016	2	2	1	0	0	0	1
SECOND	ISOLATION ROOM	HB 4025	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4031	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4037	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4038	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4039	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4040	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4042	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4043	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4044	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4045	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4051	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4057	2	2	1	0	0	0	1

SECOND	ISOLATION ROOM	HB 4065	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4071	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4077	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4078	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4079	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4080	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4087	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4093	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4099	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4100	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4101	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4102	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4103	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4104	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4105	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4106	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4112	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4118	2	2	1	0	0	0	1
SECOND	ISOLATION ROOM	HB 4127	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4128	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4129	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4130	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4136	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4140	4	4	0	0	0	0	0

SECOND	WARD - 6 BED	HB 4147	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4151	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4157	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4158	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4159	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4160	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4168	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4172	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4178	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4179	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4180	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4181	2	2	1	0	0	0	1
SECOND	ISOLATION ROOM	HB 4186	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4187	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4188	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4189	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4195	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4199	4	4	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4206	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4207	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4208	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4209	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4215	2	2	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4221	2	2	1	0	0	0	1

SECOND	ISOLATION ROOM	HB 4228	2	2	1	0	0	0	1
SECOND	WARD - 4 BED	HB 4234	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4240	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4241	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4242	2	2	0	0	0	0	0
SECOND	WARD - 4 BED	HB 4243	2	2	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4246	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4247	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4248	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4249	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4255	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4261	2	2	1	0	0	0	1
SECOND	ISOLATION ROOM	HB 4269	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4275	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4281	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4282	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4283	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4284	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4286	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4287	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4288	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4289	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4295	4	4	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 4301	2	2	1	0	0	0	1

SECOND	ISOLATION ROOM	HB 4310	2	2	1	0	0	0	1
SECOND	WARD - 6 BED	HB 4316	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4322	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4323	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4324	4	4	0	0	0	0	0
SECOND	WARD - 6 BED	HB 4325	4	4	0	0	0	0	0
THIRD	VIP ROOM	HB 5001	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5002	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5003	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5004	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5005	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5006	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5007	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5012	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5013	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5014	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5018	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5019	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5029	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5030	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5034	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5035	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5036	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5041	1	1	0	0	0	0	0

THIRD	PRIVATE ROOM	HB 5042	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5043	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5044	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5045	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5046	1	1	0	0	0	0	0
THIRD	VIP ROOM	HB 5047	1	1	0	0	0	0	0
THIRD	VIP ROOM	HB 5049	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5050	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5051	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5052	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5053	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5054	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5055	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5060	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5061	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5062	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5066	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5067	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5074	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5075	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5079	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5080	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5081	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5086	1	1	0	0	0	0	0

THIRD	PRIVATE ROOM	HB 5087	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5088	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5089	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5090	1	1	0	0	0	0	0
THIRD	PRIVATE ROOM	HB 5091	1	1	0	0	0	0	0
THIRD	VIP ROOM	HB 5092	1	1	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5098	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5104	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5110	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5111	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5112	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5113	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5114	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5115	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5116	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5117	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5123	2	2	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5129	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5136	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5137	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5138	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5139	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5145	2	2	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5151	2	2	1	0	0	0	1

THIRD	ISOLATION ROOM	HB 5158	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5164	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5170	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5171	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5172	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5173	2	2	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5179	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5185	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5191	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5192	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5193	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5194	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5195	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5196	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5197	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5198	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5204	2	2	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5210	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5217	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5218	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5219	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5220	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5226	2	2	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5232	2	2	1	0	0	0	1

THIRD	ISOLATION ROOM	HB 5239	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5245	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5251	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5252	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5253	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5254	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5255	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5256	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5257	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5258	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5264	2	2	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5270	2	2	1	0	0	0	1
THIRD	ISOLATION ROOM	HB 5280	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5286	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5292	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5293	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5294	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5295	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5297	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5298	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5299	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5300	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5306	2	2	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 5312	2	2	1	0	0	0	1

THIRD	ISOLATION ROOM	HB 5319	2	2	1	0	0	0	1
THIRD	WARD - 4 BED	HB 5325	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5331	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5332	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5333	2	2	0	0	0	0	0
THIRD	WARD - 4 BED	HB 5334	2	2	0	0	0	0	0
FOURTH	ICU - 10 BED	HB 6003	20	20	10	0	0	0	10
FOURTH	STEPDOWN ICU - 2 BED	HB 6014	4	4	2	0	0	0	2
FOURTH	STEPDOWN ICU - 2 BED	HB 6060	4	4	2	0	0	0	2
FOURTH	ICU - 9 BED	HB 6071	18	18	9	0	0	0	9
FOURTH	STEPDOWN ICU - 2 BED	HB 6075	4	4	2	0	0	0	2
FOURTH	ICU - 9 BED	HB 6086	18	18	9	0	0	0	9
FOURTH	ICU - 10 BED	HB 6092	20	20	10	0	0	0	10
FOURTH	STEPDOWN ICU - 2 BED	HB 6103	4	4	2	0	0	0	2
FOURTH	ICU - 7 BED	HB 6110	14	14	7	0	0	0	7
FOURTH	CATHLAB	HB 6124	2	2	2	0	0	0	0
FOURTH	CATHLAB	HB 6125	2	2	2	0	0	0	0
FOURTH	ICU - 7 BED	HB 6134	14	14	7	0	0	0	7
FOURTH	PATIENT HOLD - 7 BED	HB 6181	4	4	0	0	0	0	0
FOURTH	HDU - 4 BED	HB 6185	8	8	4	0	0	0	4
FOURTH	RECOVERY AREA - 10 BED	HB 6190	20	20	10	0	0	0	10
FOURTH	PATIENT HOLD - 8 BED	HB 6208	4	4	0	0	0	0	0
FOURTH	RECOVERY AREA - 11 BED	HB 6217	22	22	11	0	0	0	11

	TOTAL		**928**	**928**	**144**	**2**	**2**	**2**	**131**

GAS OULETS FOR TRAUMA BLOCK, AIIMS RAIPUR									
LEVEL	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**					**SINGLE ARM MOVABLE PENDANT**	**BEDHEAD PANEL**
			OXYGEN	**VACUUM**	**AIR 4 BAR**	**NITROUS OXIDE**	**AGSS**		
GROUND	TRIAGE - 6 BED	TB 1026	6	6	0	0	0	0	0
GROUND	RESUSCITATION ROOM 5 BED	TB 1027	10	10	5	0	0	0	5
GROUND	OBSERVATION WARD - 13 BED	TB 1028	8	8	0	0	0	0	0
FIRST	WARD - 30 BED	TB 2025	15	15	0	0	0	0	0
SECOND	WARD -30 BED	TB 3013	15	15	0	0	0	0	0
THIRD	PATIENT HOLD - 8 BED	TB 4011	5	5	0	0	0	0	0
THIRD	ISOLATION ROOM	TB 4015(A)	2	2	1	0	0	0	1
THIRD	ISOLATION ROOM	TB 4015(B)	2	2	1	0	0	0	1
THIRD	RECOVERY -6 BED	TB 4017	12	12	6	0	0	0	6
	TOTAL		**75**	**75**	**13**	**0**	**0**	**0**	**13**

BLOCK	**NO OF OUTLETS**					**SINGLE ARM MOVABLE PENDANT**	**BEDHEAD PANEL**
	OXYGEN	**VACUUM**	**AIR 4 BAR**	**NITROUS OXIDE**	**AGSS**		
HOSPITAL	928	928	144	2	2	2	131
TRAUMA	75	75	13	0	0	0	13
TOTAL	**1003**	**1003**	**157**	**2**	**2**	**2**	**144**

GAS OULETS FOR HOSPITAL, AIIMS RISHIKESH										
LEVEL	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**						**SINGLE ARM MOVABLE PENDANT**	**BEDHEAD PANEL**
			OXYGEN	**VACUUM**	**AIR 4 bar**	**AIR 7 bar**	**N2O**	**AGSS**		

GROUND	COBALT THERAPY	HB 1024	1	1	0	0	0	0	0	0
GROUND	SIMULATOR CT	HB 1028	1	1	0	0	0	0	0	0
GROUND	SINGLE ROOM	HB 1036	1	1	0	0	0	0	0	0
GROUND	CUBICLES FOR BRACHYTHERAPY	HB 1037	1	1	0	0	0	0	0	0
GROUND	CHEMOTHERAPY (4 BED)	HB 1046	4	4	0	0	0	0	0	0
GROUND	CHEMOTHERAPY (4 BED)	HB 1049	4	4	0	0	0	0	0	0
GROUND	CHEMOTHERAPY (4 BED)	HB 1063	4	4	0	0	0	0	0	0
FIRST FLOOR	DIALYSIS ISOLATION ROOM	HB 2005	2	2	1	0	0	0	0	1
FIRST FLOOR	DIALYSIS ROOM	HB 2006	4	4	2	0	0	0	0	2
FIRST FLOOR	DIALYSIS ROOM	HB 2012	4	4	2	0	0	0	0	2
FIRST FLOOR	CT SCAN ROOM	HB 2020	1	1	0	0	0	0	0	0
FIRST FLOOR	MRI ROOM	HB 2032	1	1	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3002	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3003	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3006	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3009	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY ISOLATION ROOM	HB 3015	2	2	1	0	0	0	0	1
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3016	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3019	4	4	0	0	0	0	0	0
SECOND	NICU& NURSE'S STATION(6BED)	HB 3030	12	12	6	0	0	0	0	6
SECOND	ISOLATION ROOM	HB 3048	2	2	1	0	0	0	0	1
SECOND	DELIVERY SUITS	HB 3057	2	2	2	0	0	0	0	0
SECOND	LABOUR RECOVERY(6BED)	HB 3077	12	12	6	0	0	0	0	1

SECOND	GYNAECOLOGY WARD(6 BED)	HB 3084	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3087	4	4	0	0	0	0	0	0
SECOND	ISOLATION ROOM	HB 3088	2	2	1	0	0	0	0	1
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3093	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3096	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3099	4	4	0	0	0	0	0	0
SECOND	GYNAECOLOGY WARD(6 BED)	HB 3100	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4001	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4002	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4003	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4006	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 4014	2	2	1	0	0	0	0	1
THIRD	SURGERY WARD(6 BED)	HB 4016	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4020	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4025	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4036	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4039	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4045	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4049	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 4050	2	2	1	0	0	0	0	1
THIRD	SURGERY WARD(6 BED)	HB 4059	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4062	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 4067	2	2	1	0	0	0	0	1
THIRD	SURGERY WARD(6 BED)	HB 4068	4	4	0	0	0	0	0	0

THIRD	SURGERY WARD(6 BED)	HB 4072	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4079	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4082	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4088	4	4	0	0	0	0	0	0
THIRD	SURGERY WARD(6 BED)	HB 4092	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	HB 4093	2	2	1	0	0	0	0	1
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5002	2	2	0	0	0	0	0	0
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5003	2	2	0	0	0	0	0	0
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5006	2	2	0	0	0	0	0	0
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5009	2	2	0	0	0	0	0	0
FOURTH	ISOLATION ROOM	HB 5014	2	2	1	0	0	0	0	1
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5015	2	2	0	0	0	0	0	0
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5018	2	2	0	0	0	0	0	0
FOURTH	CCU(10 BED)	HB 5028	20	20	10	0	0	0	0	10
FOURTH	ISOLATION ROOM	HB 5044	2	2	1	0	0	0	0	1
FOURTH	RESUSCITATION ROOM	HB 5050	2	2	1	0	0	0	0	1
FOURTH	CATH LAB	HB 5053	2	2	2	0	0	0	0	0
FOURTH	CATH LAB	HB 5066	2	2	2	0	0	0	0	0
FOURTH	CATH LAB	HB 5067	2	2	2	0	0	0	0	0
FOURTH	RECOVERY ROOM(6 BED)	HB 5068	12	12	6	0	0	0	0	6
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5075	2	2	0	0	0	0	0	0
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5078	2	2	0	0	0	0	0	0
FOURTH	ISOLATION ROOM	HB 5079	2	2	1	0	0	0	0	1
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5083	2	2	0	0	0	0	0	0

FOURTH	CARDIOLOGY WARD(4 BED)	HB 5086	2	2	0	0	0	0	0	0
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5089	2	2	0	0	0	0	0	0
FOURTH	CARDIOLOGY WARD(4 BED)	HB 5090	2	2	0	0	0	0	0	0
FIFTH	ICU(10 BED)	HB 6017	20	20	10	0	0	0	0	10
FIFTH	ISOLATION ROOM	HB 6018	2	2	1	0	0	0	0	1
FIFTH	RECOVERY ROOM(6 BED)	HB 6033	12	12	6	0	0	0	0	6
FIFTH	RECOVERY ROOM(6 BED)	HB 6070	12	12	6	0	0	0	0	6
FIFTH	RECOVERY ROOM(6 BED)	HB 6084	12	12	6	0	0	0	0	6
	TOTAL		**320**	**320**	**81**	**0**	**0**	**0**	**0**	**68**

GAS OULETS FOR OPD, AIIMS RISHIKESH										
LEVEL	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**						**SINGLE ARM MOVABLE PENDANT**	**BEDHEAD PANEL**
			OXYGEN	**VACUUM**	**AIR 4 bar**	**AIR 7 bar**	**NITROUS OXIDE**	**AGSS**		
GROUND	PMR WARD(6 BED)	OB 1029	4	4	0	0	0	0	0	0
GROUND	PMR WARD(6 BED)	OB 1030	4	4	0	0	0	0	0	0
GROUND	PMR WARD(6 BED)	OB 1046	4	4	0	0	0	0	0	0
GROUND	TRIAGE WARD(6 BED)	OB 1047	4	4	0	0	0	0	0	0
GROUND	TRIAGE MINOR OT	OB 1053	2	2	2	0	1	1	1	0
GROUND	TRIAGE(10 BED)	OB 1054	6	6	0	0	0	0	0	0
GROUND	RESUSITATION ROOM	OB 1071	2	2	1	0	0	0	0	1
GROUND	ISOLATION ROOM	OB 1072	2	2	1	0	0	0	0	1
GROUND	EMERGENCY OPD WARD (6 BED)	OB 1073	4	4	0	0	0	0	0	0

THIRD	GENERAL MEDICINE WARD(6 BED)	OB 4002	4	4	0	0	0	0	0	0
THIRD	GENERAL MEDICINE WARD(6 BED)	OB 4003	4	4	0	0	0	0	0	0
THIRD	GENERAL MEDICINE WARD(6 BED)	OB 4006	4	4	0	0	0	0	0	0
THIRD	GENERAL MEDICINE WARD(6 BED)	OB 4009	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	OB 4013	2	2	1	0	0	0	0	1
THIRD	GENERAL MEDICINE WARD(6 BED)	OB 4014	4	4	0	0	0	0	0	0
THIRD	GENERAL MEDICINE WARD(6 BED)	OB 4017	4	4	0	0	0	0	0	0
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4026(A)	4	4	0	0	0	0	0	0
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4029	4	4	0	0	0	0	0	0
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4040	4	4	0	0	0	0	0	0
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4043	4	4	0	0	0	0	0	0
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4031	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	OB 4044	2	2	1	0	0	0	0	1
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4032	4	4	0	0	0	0	0	0
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4046	4	4	0	0	0	0	0	0
THIRD	GASTROENTROLOGY WARD(6 BED)	OB 4047	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	OB 4049	2	2	1	0	0	0	0	1

THIRD	UROLOGY WARD(6 BED)	OB 4050	4	4	0	0	0	0	0	0
THIRD	UROLOGY WARD(6 BED)	OB 4053	4	4	0	0	0	0	0	0
THIRD	UROLOGY WARD(6 BED)	OB 4060	4	4	0	0	0	0	0	0
THIRD	UROLOGY WARD(6 BED)	OB 4063	4	4	0	0	0	0	0	0
THIRD	RESPIRATORY MEDICINE WARD(6 BED)	OB 4083	4	4	0	0	0	0	0	0
THIRD	RESPIRATORY MEDICINE WARD	OB 4084	4	4	0	0	0	0	0	0
THIRD	ISOLATION ROOM	OB 4074	2	2	1	0	0	0	0	1
THIRD	RESPIRATORY MEDICINE WARD(6 BED)	OB 4070	4	4	0	0	0	0	0	0
THIRD	RESPIRATORY MEDICINE WARD(6 BED)	OB 4073	4	4	0	0	0	0	0	0
THIRD	RESPIRATORY MEDICINE WARD(6 BED)	OB 4078	4	4	0	0	0	0	0	0
THIRD	RESPIRATORY MEDICINE WARD(6 BED)	OB 4081	4	4	0	0	0	0	0	0
FOURTH	DERMATOLOGY WARD (6BED)	OB 5002	4	4	0	0	0	0	0	0
FOURTH	DERMATOLOGY WARD (6BED)	OB 5003	4	4	0	0	0	0	0	0
FOURTH	DERMATOLOGY WARD (6BED)	OB 5006	4	4	0	0	0	0	0	0
FOURTH	DERMATOLOGY WARD (6BED)	OB 5009	4	4	0	0	0	0	0	0
FOURTH	ISOLATION ROOM	OB 5014	2	2	1	0	0	0	0	1
FOURTH	DERMATOLOGY WARD (6BED)	OB 5015	4	4	0	0	0	0	0	0
FOURTH	DERMATOLOGY WARD (6BED)	OB 5018	4	4	0	0	0	0	0	0
FOURTH	PSYCHIATRY WARD (6BED)	OB 5026	4	4	0	0	0	0	0	0
FOURTH	PSYCHIATRY WARD (6BED)	OB 5029	4	4	0	0	0	0	0	0
FOURTH	PSYCHIATRY WARD (6BED)	OB 5040	4	4	0	0	0	0	0	0

FOURTH	PSYCHIATRY WARD (6BED)	OB 5043	4	4	0	0	0	0	0	0
FOURTH	PSYCHIATRY WARD (6BED)	OB 5032	4	4	0	0	0	0	0	0
FOURTH	PSYCHIATRY WARD (6BED)	OB 5033	4	4	0	0	0	0	0	0
FOURTH	ISOLATION ROOM	OB 5044	2	2	1	0	0	0	0	1
FOURTH	GYNAECOLOGYISOLATION ROOM	OB 5047	2	2	1	0	0	0	0	1
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5087	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5088	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5058	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5059	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5048	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5051	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5062	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5065	4	4	0	0	0	0	0	0
FOURTH	ISOLATION ROOM	OB 5077	2	2	1	0	0	0	0	1
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5073	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5076	4	4	0	0	0	0	0	0
FOURTH	GYNAECOLOGY WARD(6BED)	OB 5081	4	4	0	0	0	0	0	0

FOURTH	GYNAECOLOGY WARD(6BED)	OB 5084(A)	4	4	0	0	0	0	0	0
FIFTH	NEUROLOGY WARD(6BED)	OB 6002	4	4	0	0	0	0	0	0
FIFTH	NEUROLOGY WARD(6BED)	OB 6003	4	4	0	0	0	0	0	0
FIFTH	NEUROLOGY WARD(6BED)	OB 6006	4	4	0	0	0	0	0	0
FIFTH	NEUROLOGY WARD(6BED)	OB 6009	4	4	0	0	0	0	0	0
FIFTH	ISOLATION ROOM	OB 6015	2	2	1	0	0	0	0	1
FIFTH	NEUROLOGY WARD(6BED)	OB 6017	4	4	0	0	0	0	0	0
FIFTH	NEUROLOGY WARD(6BED)	OB 6019	4	4	0	0	0	0	0	
FIFTH	GASTROENTEROLOGY PRIVATE ROOM	OB 6027	1	1	0	0	0	0	0	0
FIFTH	GASTROENTEROLOGY PRIVATE ROOM	OB 6029	1	1	0	0	0	0	0	0
FIFTH	GASTROENTEROLOGY PRIVATE ROOM	OB 6033	1	1	0	0	0	0	0	0
FIFTH	GASTROENTEROLOGY WARD(6BED)	OB 6035	4	4	0	0	0	0	0	0
FIFTH	GASTROENTEROLOGY WARD(6BED)	OB 6038	4	4	0	0	0	0	0	0
FIFTH	PRIVATE ROOM	OB 6043	1	1	0	0	0	0	0	0
FIFTH	PRIVATE ROOM	OB 6044	1	1	0	0	0	0	0	0
FIFTH	PRIVATE ROOM	OB 6049	1	1	0	0	0	0	0	0
FIFTH	PRIVATE ROOM	OB 6051	1	1	0	0	0	0	0	0
FIFTH	ENT/ OPTHALMOLOGY WARD 6 BED	OB 6054	4	4	0	0	0	0	0	0

FIFTH	ENT/ OPTHALMOLOGY WARD 6 BED	OB 6055	4	4	0	0	0	0	0	0
FIFTH	ISOLATION ROOM	OB 6067	2	2	1	0	0	0	0	1
FIFTH	WARD 6 BED	OB 6058	4	4	0	0	0	0	0	0
FIFTH	WARD 6 BED	OB 6061	4	4	0	0	0	0	0	0
FIFTH	WARD 6 BED	OB 6068	4	4	0	0	0	0	0	0
FIFTH	WARD 6 BED	OB 6071	4	4	0	0	0	0	0	0
FIFTH	ORTHO WARD(6 BED)	OB 6098	4	4	0	0	0	0	0	0
FIFTH	ORTHO WARD(6 BED)	OB 6099	4	4	0	0	0	0	0	0
FIFTH	ISOLATION ROOM	OB 6086	2	2	1	0	0	0	0	1
FIFTH	ORTHO WARD(6 BED)	OB 6082	4	4	0	0	0	0	0	0
FIFTH	ORTHO WARD(6 BED)	OB 6085	4	4	0	0	0	0	0	0
FIFTH	ORTHO WARD(6 BED)	OB 6092	4	4	0	0	0	0	0	0
FIFTH	ORTHO WARD(6 BED)	OB 6095	4	4	0	0	0	0	0	0
	TOTAL		**333**	**333**	**15**	**0**	**1**	**1**	**1**	**13**

GAS OULETS FOR TRAUMA, AIIMS RISHIKESH										
LEVEL	**DESCRIPTION OF ROOM**	**ROOM NO**	**NO OF OUTLETS**						**SINGLE ARM MOVABLE PENDANT**	**BEDHEAD PANEL**
			OXYGEN	**VACUUM**	**AIR 4 bar**	**AIR 7 bar**	**N2O**	**AGSS**		
GROUND	CT SCAN ROOM	TB 1020	1	1	0	0	0	0	0	0
GROUND	MRI ROOM	TB 1027	1	1	0	0	0	0	0	0
GROUND	POST OPERATIVE WARD(4 BED)	TB 1048	8	8	4	0	0	0	0	4
GROUND	DISASTER WARD(10 BED)	TB 1053	6	6	0	0	0	0	0	0
GROUN	TRIAGE(8 BED)	TB	6	6	0	0	0	0	0	0

D		1055								
GROUND	TRIAGE(8 BED)	TB 1056	6	6	0	0	0	0	0	0
GROUND	EMERGENCY MINOR OT	TB 1064	2	2	2	0	1	1	1	0
GROUND	RESUSCITATION ROOM	TB 1065	2	2	1	0	0	0	0	1
FIRST	VIP ROOM	TB 2001	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2003	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2005	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2007	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2009	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2011	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2017	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2019	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2020	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2021	1	1	0	0	0	0	0	0
FIRST	WARD(6 BED)	TB 2026	4	4	0	0	0	0	0	0
FIRST	WARD(6 BED)	TB 2029	4	4	0	0	0	0	0	0
FIRST	WARD(6 BED)	TB 2042	4	4	0	0	0	0	0	0
FIRST	WARD(6 BED)	TB 2045	4	4	0	0	0	0	0	0
FIRST	ISOLATION ROOM	TB 2046	2	2	1	0	0	0	0	1
FIRST	WARD(6 BED)	TB 2050	4	4	0	0	0	0	0	0
FIRST	WARD(6 BED)	TB 2053	4	4	0	0	0	0	0	0
FIRST	ISOLATION ROOM	TB 2057	2	2	1	0	0	0	0	1
FIRST	WARD(6 BED)	TB 2058	4	4	0	0	0	0	0	0
FIRST	WARD(6 BED)	TB 2061	4	4	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2070	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2072	1	1	0	0	0	0	0	0
FIRST	PRIVATE	TB	1	1	0	0	0	0	0	0

	ROOM	2074								
FIRST	PRIVATE ROOM	TB 2076	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2078	1	1	0	0	0	0	0	0
FIRST	VIP ROOM	TB 2079	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2080	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2082	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2084	1	1	0	0	0	0	0	0
FIRST	PRIVATE ROOM	TB 2085	1	1	0	0	0	0	0	0
SECOND	ICU&NURSE STATION(10 BED)	TB 3033	20	20	10	0	0	0	0	10
SECOND	ISOLATION ROOM	TB 3050	2	2	1	0	0	0	0	1
SECOND	RECOVERY ROOM(6 BED)	TB 3076	12	12	6	0	0	0	0	6
	TOTAL		**122**	**122**	**26**	**0**	**1**	**1**	**1**	**24**

BLOCK	NO OF OUTLETS						SINGLE ARM MOVABLE PENDANT	BEDHEAD PANEL
	OXYGEN	VACUUM	AIR 4 bar	AIR 7 bar	N2O	AGSS		
TRAUMA	122	122	26	0	1	1	1	24
OPD	333	333	15	0	1	1	1	13
HOSPITAL	320	320	81	0	0	0	0	68
TOTAL	**775**	**775**	**122**	**0**	**2**	**2**	**2**	**105**

Operation and Maintenance of Medical Gas system at AIIMS

Scope of the work

The primary objective of the bidder is to ensure safe and reliable MGPSs and their efficient Operation and use as per 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,Reservior ,Filters etc
- Medical vacuum System- Vacuum pumps, Control panel, Reservoir, Filters etc.
- Waste anesthetic gas scavenging systems (AGSS)
- Carbon dioxide manifold system
- Nitrogen manifold system
- Copper pipelines
- Area Valve Service Units
- Isolation Valves
- Area Alarm panels and Master alarm panels
- Gas Outlets
- Bed Head Panels
- Pendants

Staff responsible for plant operation should be aware of the activities necessary to ensure the continued safe operation of the system and what action should be taken in an emergency. The authorised person (MGPS) in particular should take a lead in explaining to users the function of the system and will have to be adequately trained and informed about the system. Operator will be responsible for safe cylinder handling, storage and transportation. Any work involving alterations, extensions or maintenance work on the system should be subject to the permit-to-work procedure as per 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 hous 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 Substitutes**	**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^{th} Standard or more with minimum 6 years experience in installation, maintenance & operation of MGPS	4	3	2		3	12
	Salary-per month 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_2 & N_2O 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
- Enering 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

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, if any.

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. **Status:** The Bidder should be a Manufacturer or its authorized Agent.

02. **Turnover:** Eligible Bidders should have an average annual turnover in the consequetive past three financial years (2010-11, 2011-12, 2012-13) as mentioned in **Eligibility Table.** The turnover requirement is, caluculated considering estimated cost and delivery/completion period. Bidder has to meet turnover requirement depending upon no of schedules/subschedule for which bid is submitted. Turnover criteria has to be met on cumulative basis if bid is submitted for multiple schedules/subschedules.

03. **Minimum Work of Similar Nature: Eligible** bidders should have successfully executed globally in last five years from the date of tender opening,similar turnkey project of the same manufacturer product of value ,equivalent to exceeding 50% of the estimated tender value. Out of total 50 % value , atleast one single similar work of minimum 25% value should have been excecuted in India. The detials of reuirement of MWSN (minimum work of similar nature) for different schedules, multiple schedules are mentioned in **Eligibility Table.** The value of the executed works shall be brought to the current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to last date of receipt of applications for tenders.

Example/Clarification : Similar Project means for Medical Gas Pipeline System means Medical Gas Pipeline System meeting major technical parameters of the current BOQ floated in the tender enquiry document.

04. Solvency Certificate: Eligible bidders should submit a solvency certificate of not less than 30% of the estimated value of work from a Nationalized / Scheduled bank. If the bid is submitted for multiple schedules/subschedules, the bidder has to meet as per the details given in **Eligibility Table.**

05. **Financial Status:** Eligible Bidders should not have incurred any loss in more than 2 years during the last five years ending 31st March 2013. Audited Profit & Loss account and Balance Sheet (duly notarized copies) for the immediate last five consecutive financial years should be submitted along with the bid

06. **Manufacturer Authorization:** Eligible bidders should submit a mandatory letter of authority from the Foreign Principal / Manufacturer, mentioning country of origin with name of manufacturing company for major products quoted by them.

07. **Bid for Complete Schedule/Part Schedule:** Bidder cannot choose to submit bid for part schedule/part sub schedule. If the bid is submitted for part schedule/sub schedule, the same will be termed as non- responsive. A bidder intending to get qualified and be considered for award of work for more than one schedule , will be required to meet the above qualification criteria on cumulative basis related to experience as well as financials, for such number of schedules.

Eligibility Table

For MGPS:-

Sch No.	*Qty Per AIIMS*	*Estimated Cost Rs. Cr.*	*EMD Rs. Cr.*	*Turnover (Rs. Cr)*		*Minimum work of similar nature*		*50% of the similar project in last five years of the same manufacturer*		*Solvency of atleast 30% of the estimated tender value Rs. Cr*	
				Average Annual Turnover Rs. Cr	*Cumulative Average Annual Turnover Rs. Cr.*	*Single order value of the same manufacturer of last five years Rs. Cr*	*Single order value of the same manufacturer cumulative of last five years Rs. Cr*	*Similar project in last five years*	*Similar Project of last five years cumulative*	*Solvency of atleast30% of the estimated tender value Rs. Cr*	*Solvency of atleast 30% of the estimated tender value Rs. Cr*
1	*1*	*15*	*0.30*	15.00	15.00	*3.75*	*3.75*	*7.5*	*7.5*	*4.5*	*4.5*
2	*1*	*15*	*0.30*	15.00	30.00	*3.75*	*7.50*	*7.5*	*15.0*	*4.5*	*9.0*
3	*1*	*15*	*0.30*	15.00	45.00	*3.75*	*11.25*	*7.5*	*22.5*	*4.5*	*13.5*
4	*1*	*15*	*0.30*	15.00	60.00	*3.75*	*15.0*	*7.5*	*30*	*4.5*	*18*
5	*1*	*15*	*0.30*	15.00	75.00	*3.75*	*18.75*	*7.5*	*37.5*	*4.5*	*22.5*
6	*1*	*15*	*0.30*	15.00	90.00	*3.75*	*22.50*	*7.5*	*45*	*4.5*	*27*

Note: The bidders have to quote for all the schedules while quoting. Say if the bidder is quoting for MOT the bidders have to quote for all six schedules. The purchaser will have the right to award the work to any site as per the eligibility and to the best benefit of the exchequer. however in case a Bidder intending to get qualified in more than one schedule they should submit EMD accordingly. The bidder must quote for all six schedules mandatorily, otherwise his bids will be summarily rejected.

Notes:

In support of 2 (a), the bidder shall furnish Performance statement in the enclosed Proforma 'A'.

The bidder shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly endorsed by country embassy with counter endorsement of Indian embassy in the country of origin, alongwith the tender .

1. The bidder shall furnish a brief write-up, along 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.

2. 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.

3. 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 five 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

We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchser in addition to forfeiture of the earnest money.

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 AIIMS, PGIMER, JIPMER, Institute of National importance for the specific model quoted along with the price bid.**

Section – X
TENDER FORM

Date_____

To

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 schedules 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

(Signature with date)

(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)	Inland Transportation, Insurance for a period including 3 months beyond date of delivery, loading/ unloading and Incidental costs till consignee's site (d)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (e)	Unit Price (at Consignee Site) basis (g) =a+b+c+d+e	4 x 5(g)

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**_____

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5							6	
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Currency)							Total price on CIP Named Port of Destination 4X 5 (e)	
				FOB price at port/ airport of Lading	Indian Agency Commission (% of FOB)** (a)	Net FOB (b)	Freight & Insurance (port of loading to port of entry) and other Incidental costs (c)	Unit Price on CIP named port of Destination (d)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site** (e)	Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery** (f)	In foreign currency 4*d	In Indian Rupees 4*(a+e+f)

** To be paid in Indian Currency (Rs.)

(A) Total Tender price in foreign currency: _____

In words: _____

(B) Total Tender price in Indian 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
3. The Tenderer will be fully responsible for the safe arrival of the goods at the named port of entry in good condition as per terms of CIP as per INCOTERMS, if applicable
4. Custom duty @ 11.64% and 2% C& F charges will be added to the CIP price to arrive at the DDP price for evaluation purpose.

Indian Agent:
Indian Agency Commission - ___% of FOB
Signature of Tenderer_____

Name_____
Business Address_____
Signature of Tenderer_____
Seal of the Tenderer_____

Place: _____
Date: _____

C) PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	3	4					5	6
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 Each Unit for 5 years (4a+4b+4c+4d+4e)**	**Annual Comprehensive Maintenance Contract Cost for 05 years**
			1st	**2nd**	**3rd**	**4th**	**5th**		
			a	**b**	**c**	**d**	**e**		**(3 x 5)**

*** 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.

Name_____
Business Address_____
Signature of Tenderer_____
Seal of the Tenderer_____

Place: _____
Date: _____

D) PRICE SCHEDULE FOR TURNKEY

Schedule No.	BRIEF TURNKEY DESCRIPTION OF GOODS	CONSIGNEE CODE	Turnkey price

Note: -

1. 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.
2. Cost of Turnkey will be added for Ranking/Evaluation purpose.
3. The payment of Turnkey will be made as per clause GCC clause 21.1 (c).
4. The stipulations in Technical Specification will supersede above provisions

Name_____

Business Address_____

Place: _____ **Signature of Tenderer**_____

Date: _____ **Seal of the Tenderer**_____

E) PRICE SCHEDULE FOR OPERATION AND MAINTENANCE OF MGPS

Schedule No.	BRIEF TURNKEY DESCRIPTION OF GOODS	CONSIGNEE CODE	Turnkey price

Note: -

1. 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.
2. Cost of Turnkey will be added for Ranking/Evaluation purpose.
3. The payment of Turnkey will be made as per clause GCC clause 21.1 (c).
4. The stipulations in Technical Specification will supersede above provisions

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:-

   fails or refuses to furnish the performance security for the due performance of the contract or
   fails or refuses to accept/execute the contract or
   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 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

SECTION X

To be enclosed with Techno-Commercial Bid

ANNEXURE-A

BIDDER PARTICULARS

Bidder Serial Number Allotted on Tender Document:_____

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..... Signature and seal of bidder

SECTION – XIV

MANUFACTURER'S AUTHORISATION FORM

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.Orginal Letter may be sent. Photocopy not acceptable.

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

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

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 30 (thirty) 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: _____

CONTRACT FORM – B

CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT

Annual CM Contract No._____ dated_____
Between

(Address of Head of Hospital (AIIMS)
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	6
Schedule No.	**BRIEF DESCRIPTION OF GOODS**	**QUANTITY. (Nos.)**	**Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.**					**Total annual comprehensive maintenance contract for 5 years for each unit for 5 years**	**Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]**
			1st	**2nd**	**3rd**	**4th**	**5th**		
			a	**b**	**c**	**d**	**e**		
								4a+4b+4c+4d+4e	(3*5(4a+4b+4c+4d+4e)

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 (AIIMS) authorised official)

_____

(Signature, name and address of Hospital (AIIMS) 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

Annexure 1

DETAILS OF SHIPPING ARRANGEMENT FOR LINER CARGOES IN RESPECT OF C & F/CIF/TURNKEY/F.O.R CONTRACTS FOR IMPORTS

1. (a) SHIPMENT FROM PORTS OF U.K INCLUDING NORTHERN IRELAND (ALSO EIRE), FROM THE NORTH CONTINENT OF EUROPE (GERMANY, HOLLAND, BELGIUM, FRANCE, NORWAY, SWEDEN, DENMARK, FINLAND AND PORTS ON THE CONTINENTAL SEABOARD OF MEDITERRANIAN (I.E. FRENCH WESTERN ITALIAN PORTS), TO PORTS IN INDIA.

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India-Pakistan-Bangladesh Conference. If the Seller finds that the space on the 'Conference Lines' vessels is not available for any specific shipment, he should take up with India-Pakistan-Bangladesh Conference. Conferity House, East Grinstead, Sussex (UK), for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

The Seller should arrange shipment through the Government of India's Forwarding Agents, M/s Schenker & Co., 2000-Hamburg (Cable: SCHENKER CO., HAMBURG) OR obtain a certificate from them to the effect that shipment has been arranged in accordance with instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

(b) SHIPMENT FORM PORTS OF U.K. INCLUDING NORTHERN

Goods under this contract would be shipped by the national shipping companies of the Contracting Parties operating bilateral shipping service and vessels under the flag of third countries in accordance with the Agreement between the Government of German Democratic Republic and the Government of the Republic of India in the Field of Merchant Shipping signed on 9.1.1979, as amended up-to-date.

(c) ISHIPMENT FROM ADRIATIC PORTS OF EASTERN ITALY AND YUGOSLAVIA

The seller should arrange shipment of the goods by vessels belonging to the following Indian member lines;

1. The Shipping Purchaser of India Ltd.
2. The Scindia Steam Navigation Co., Ltd
3. India Steamship Co., Ltd

For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should give adequate notice about the readiness of each consignment from time to time at least six weeks in advance of the required position to M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

The seller should arrange shipment through the Government of India's Forwarding Agents M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) or obtain certificate from them to the effect that shipment has been arranged in accordance with the instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

(d) SHIPMENT FROM POLAND & CZECHOSLOVAKIA

(i) IMPORTS FROM POLAND

Shipment under this contract would be made by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the agreement between the Govt. of the Republic of India and the Govt. of the Polish People's Republic regarding Shipping Co-operation dated 27.6.1960 as amended up-to-date.

(ii) IMPORTS FROM CZECHOSLOVAKIA

Goods under this contract would be signed by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the Agreement Co-operation in shipping between India and Czechoslovakia signed on 3.11.1978 and ratified on 19.12.1979, as amended up-to-date.
Shipping arrangement should be made by the Sellers in consultation with Resident Representative of the Indian Shipping Lines in Gdynia, Co., Morska Agencja W. Gdyniul, Pulaskiego 8, P.O. Box 246, Gdynia (Poland) – Telex : MG PL. 054301, Tel.: 207621, to whom details regarding contract number, nature of cargo , quantity, port of lading, discharging, name of Government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, (Chartering Wing), New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(e) SHIPMENT FROM U.S.S.R

Shipment under this contract should be made in accordance with the agreement between the Government of the Republic of India and the Government of U.S.S.R on Merchant Shipping 1976, as amended up-to-date, by vessels of Indo-Soviet shipping Service.

(f) SHIPMENT FROM JAPAN

The shipment of goods should be made of India vessels to the maximum extent possible subject to the minimum of 50%.

The Seller should arrange shipment of the goods in consultation with the Embassy of India in Japan, Tokyo to whom details regarding contract number, nature of cargo, quantity, port of loading/discharge, name of Govt. consignee, expected date of readiness of each consignment etc. should be furnished at least six weeks in advance of the required position.

Note: The copies of such contracts are to be endorsed both to the Attached (commercial) embassy of India in Japan, Tokyo, and the shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi.

(g) SHIPMENT FROM AUSTRALIA, ALGERIA, BULGARIA, ROMANIA, EGYPY

The Seller shall arrange shipment of the goods by Indian flag vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels, the seller shall give adequate notice of not less than six weeks about the readiness of each consignment to the Shipping Purchaser of India Ltd., SHIPPING HOUSE, 245, Madame Cama Road, Bombay – 400 021 (CABLE: SHIPINDIA BOMBAY) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(h) SHIPMENT FROM PAKISTAN

The shipment of cargoes should be made by Indian vessels to the maximum extent possible subject to a minimum of 50 %.

Shipment arrangement should be made by the sellers in consultation with M/s Mogul Line Ltd., 16-Bank Street, Fort, Bombay – 400023 (Cable: MOGUL BOMBAY: Telex: 011 – 4049 MOGUL), to whom, details regarding contract number, nature of cargo, quantity, port of lading discharging, name of government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(i) SHIPMENT FROM U.S ATLANTIC & GULF PORTS

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India – Pakistan – Bangladesh – Ceylon and Burma Outward Freight Conference. If the Seller finds that the space of the 'Conference Lines' vessels is not available for any specific shipment he should take up with India – Pakistan- Bangladesh – Ceylon and Burma Outward Freight Conference, 19, Rector Street, New York, N.Y. 10006 USA, for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(j) SHIPMENT FROM ST. LAWRENCE AN EASTERN CANADIAN PORTS

The Seller should arrange shipment of the goods by vessels belonging to the following shipping lines;

1. The shipping Purchaser of India Ltd.
2. The Scindia Steam Navigation Co., Ltd

If the Seller finds that the space in the vessels of these Lines is not available for any particular consignments, he should inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) immediately so that dispensation from the shipping lines concerned to use alternative lifting may be sought.

(k) SHIPMENT FROM WEST COAST PORTS OF U.S.S CANADA AND OTHER AREAS NOT SPECIFICALLY MENTIONED ABOVE

The Seller should arrange shipment of the goods by Indian vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should furnish the details regarding contract number, nature of cargo, quantity, port of lading, discharging, name of government consignee, expected date of readiness of each consignment etc. to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) at least six weeks in advance of the required position.

2. BILLS OF LADING

(i) C.I.F./C&F/TURNKEY SHIPMENTS

The Bills of lading should be drawn to indicate Shipper and 'Consignee' as under:

SHIPPER: The C.I.F (C&F)/TURNKEY SUPPLIERS concerned.

CONSIGNEE: As per consignee's particulars in the contract (The name an address of the 'Port Consignee' and 'Ultimate' both should be indicated).

(ii) F.O.R SHIPMENTS

The Bills of lading should be drawn to indicate shipper Consignee as under:

SHIPPER: The F.O.R suppliers Concerned

CONSIGNEE: Supplier's Indian Agent on order

Note:

1. Moreover the name of the 'Purchaser' and 'Ultimate' Consignee should appear in the body of the Bills of Lading as the 'Notify' or as a remark.
2. Two non-negotiable copies of the Bills of Lading indicating the freight amount and discount, if any allowed, should be forwarded to The Shipping Co-ordination Officer, Ministry of surface Transport (Chartering Wing), New Delhi after the shipment of each consignment is effected.
3. The seller should avoid the use of over-aged vessels for the shipment of the goods under the contract and if so used the cost of additional. Insurance, if any, shall be borne by the seller.

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 an 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.

2. 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

Consignee Code	Medical Institutions	Contact Address.	AirPort	Sea Port
Bhopal	All India Institute of Medical Science, Bhopal	The Director, All India Institute of Medical Science, Near Saket Nagar, Bhopal-462020	NEW DELHI	KOLKATA
Bhubaneswar	All India Institute of Medical Science, Bhubaneswar	The Director, All India Institute of Medical Science, AIIMS-Bhubaneshwar, Near Biju Patnaik Police Academy, Village-Sijua, Bhubaneshwar-751019, Orissa	KOLKATA	KOLKATA
Jodhpur	All India Institute of Medical Science, Jodhpur	The Director, All India Institute of Medical Science, Basani Ph-2, Jodhpur-342005, Jodhpur	NEW DELHI	KANDLA
Patna	All India Institute of Medical Science, Patna	The Director, All India Institute of Medical Science, AIIMS-Patna, Phulwari Sharif, Infront of DAV School, WALMI, Danapur, Patna-801105, Bihar	KOLKATA	KOLKATA
Raipur	All India Institute of Medical Science, Raipur	The Director, All India Institute of Medical Science, AIIMS-Raipur, Old TB Hospital, Tatibandh, Raipur-492001, Chattisgarh	KOLKATA	KOLKATA
Rishikesh	All India Institute of Medical Science, Rishikesh	The Director, All India Institute of Medical Science, AIIMS-Rishikesh, Barrage Road, Pashulok, Rishikesh-249203, Uttarakhand	NEW DELHI	KANDLA

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