

TENDER

FOR

**SUPPLY INSTALLATION TESTING AND
COMMISSIONING OF MODULAR OPERATION
THEATRE AT TERTIARY CANCER CENTRE,
KOZHIKKODE**

**PART-I
TENDER NO. HLL / ID / 16/ 18
NOVEMBER 2016**

**HLL LIFECARE LIMITED.
INFRASTRUCTURE DEVELOPMENT DIVISION**

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SCHEDULE FOR SUBMISSION OF TENDER

EVENT	DATE
Starting date of sale of documents	11.11.2016
Last date of sale of documents	19.11.2016
Date of Pre bid meeting	16.11.2016 at 11.00am
Last date and time for submission of completed Tender	21.11.2016 at 15:00 hrs
Date and time for Opening of Technical Bid	21.11.2016 at 15:30 hrs

The Tender documents containing the Notice Inviting Tender, Technical bid, General Conditions of Contract and Specifications & Bill of quantities for the works can be downloaded from the HLL web site www.lifecarehll.com from 11.11.2016 and the cost of tender document of **Rs.5250/-** (Rupees One thousand Five hundred and seventy five only) shall be submitted along with the tender in the form of DD taken in favour of **HLL Lifecare Limited** payable at **Thiruvananthapuram**.

The completed Tender should be submitted before the due date and time of submission at the following address.

Deputy Vice President (Technical)
HLL Lifecare Limited,
Infrastructure Development Division
HLL bhavan- Golden Jubilee block- 2nd floor,
Poojappura, Thiruvananthapuram-695012
Phone - 0471 2355404/2775500

**HLL LIFECARE LIMITED
(A GOVT. OF INDIA ENTERPRISE)**

PRESS NOTIFICATION

HLL Lifecare Limited on behalf of Tertiary Cancer Centre, Kozhikode invites sealed tenders on item rate basis in two bid system from experienced, reputed and eligible contractors for the following work.

Name of Work	Estimated Cost	Other details
Supply Installation Testing and Commissioning Modular Operation Theatre Tertiary Cancer Centre, Kozhikode	Rs 1,01,86,500/-	EMD : Rs. 2,03,730/- Completion period : 2 months Last date of submission of bid : 21.11.2016 at 15.00hrs Date of Opening : 21.11.2016 at 15.30hrs

The Tender documents containing the Notice Inviting Tender, Technical bid, General Conditions of Contract and Specifications & Bill of quantities for the works can be downloaded from the HLL web site www.lifecarehll.com from 11.11.2016 and the cost of tender document of **Rs.5250/-** (Rupees One thousand Five hundred and seventy five only) , shall be submitted along with the tender in the form of DD taken in favour of **HLL Lifecare Limited** payable at **Thiruvananthapuram**.

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Poojappura, Thiruvananthapuram-695012
Phone - 0471 2355404/2775500

HLL LIFECARE LIMITED
(A Government of India Enterprise)

NOTICE INVITING TENDER

1. Item rate tenders in two bid system are invited by HLL on behalf of **The Principal, Government Medical College, Kozhikode** from reputed contractors for the work for Supply Installation Testing and Commissioning Modular Operation Theatre Tertiary Cancer Centre, Kozhikode
2. The estimated cost of the work is Rs 1,01,86,500/-. This estimate is however, is given merely as a rough guide. The estimated cost of each component in Rupees is given below:

Sl. No.	Item	Estimated cost
1	Supply Installation Testing and Commissioning MODULAR OPERATION THEATREAT TERTIARY CANCER CENTRE AT GOVERNMENT MEDICAL COLLEGE HOSPITAL , KOZHIKKODE	Rs 1,01,86,500/-
	Total	Rs 1,01,86,500/-

3. Agreement shall be drawn with the successful tenderer and the entire tender document, shall form part of the contract.
4. The time allowed for carrying out the work is 02 months.
5. Tenders, which should be placed in sealed envelope, with the name of the work and due date written on the envelopes, will be **received by the Deputy Vice President (Technical), HLL Lifecare Limited, Infrastructure Development Division, HLL bhavan- Golden Jubilee block- 2nd floor, Poojappura, Thiruvananthapuram-695012** or his authorized representative up to 15:00 PM on 21.11.2016 and will be opened by him or his authorized representative in this office on 21.11.2016 at 15.30 PM.
6. Earnest Money of Rs. 2,03,730/- has been deposited along with the technical bid as follows in the form of a Demand Draft/ Fixed Deposit Receipt (FDR)/ Banker's cheque of a scheduled bank issued in favour of **HLL Lifecare Limited, Thiruvananthapuram** which should be placed in a separate sealed cover marked "Earnest Money" shall be submitted along with the tender.
7. Prospective applicants may request clarification regarding the Tender document on or before the last date of sale of documents. No request for clarification will be considered after.

8. The contractor shall be required to deposit an amount equal to 5% of the tendered value of the work as **performance guarantee** in the form of an irrevocable bank guarantee of any scheduled bank or State Bank of India in accordance with the form prescribed within 30 days from the date of issue of letter of indent/acceptance.
9. HLL Lifecare Limited does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without assigning any reason. All tenders in which any of the prescribed condition is not fulfilled or with any condition including conditional rebate shall be summarily rejected.
10. "The evaluation of the Price Bid shall however be governed by the Purchase Preference Policy of the Government for products and services of Central Public Sector Enterprises".
11. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
12. HLL Lifecare Limited does not bind itself to accept the whole or any part of the tender. The tenderer shall be bound to perform the contract at the rates quoted.
13. The tender for the work shall remain open for acceptance for a period of 120 days from the date of opening of the tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance/indent, whichever is earlier, or, makes any modifications in the terms and conditions of the tender which are not acceptable to HLL, then HLL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid.
14. This Notice Inviting Tender shall form a part of the Contract Document. In accordance with the contract, the letter of intent/acceptance shall be issued first in favour of the successful Tenderer. On such communication of acceptance, the successful Tenderer/Contractor shall, within 30 days from such date, formally sign the agreement consisting of:-
 - a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, forming part of the tender, and, as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - b) Agreement signed on non-judicial stamp paper as per Proforma annexed to the tender document.

Special Conditions

- 1) The invoice/ bills shall be raised in the name of "The Principal, Government Medical College, Kozhikode - A/c HLL Lifecare Ltd" and the same shall be submitted to the HLL Engineer in charge.
- 2) TIN no. of HLL should not be mentioned in any of the documents as HLL is acting on behalf of the client in the capacity of consultant alone.
- 3) The warranty of the items has to be given in the name of The Principal, Government Medical College, Kozhikode
- 4) The completed works shall be handed over to" The Principal, Government Medical College, Kozhikode "after due verification by HLL Engineer in Charge.
- 5) The contractor shall comply with all statutory requirements applicable including PF and ESIC requirements for their employees.

Deputy Vice President (Technical)
HLL Lifecare Limited.

INFORMATION & INSTRUCTIONS FOR APPLICANTS

1.0 GENERAL:

- 1.1 Letter of transmittal and forms for Technical Evaluation are given below.
- 1.2 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars/query is not applicable in case of the applicant, it should be stated as "not applicable". The applicants are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Applications made by telegram or telex and those received late will not be entertained.
- 1.3 The application should be neatly type/written in English. The applicant should sign each page of the application.
- 1.4 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the qualification document are numbered. Additional sheets, if any added by the contractor, should also be numbered by him. They should be submitted as a package with signed letter of transmittal.
- 1.5 Rate for all the items in the price bid shall be quoted in words and in figures. If there is any difference in rate quoted in words and figures, the amount quoted in words will be considered.
- 1.6 References, information and certificates from the respective clients certifying suitability, technical know how or capability of the applicant should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 1.7 The applicant may furnish any additional information, which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of pre-qualification document unless it is called for by the Employer.
- 1.8 Any information furnished by the applicant found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/taking up of work in HLL Lifecare Limited

1.9 Joint Venture firms are not allowed to participate in the tender.

2.0 METHOD OF APPLICATION:

2.1 If the applicant is an individual, the applicant shall affix his signature above his name type written in full along with his current address.

2.2 If the applicant is a proprietary firm, the application shall be signed by the proprietor above his name type written in full along with the full name of his firm and its current address.

2.3 If the applicant is a firm in partnership, the application shall be signed by all the partners of the firm above their full type-written names and current addresses or alternatively by a partner holding power of attorney for the firm. In the latter case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.

2.4 If the applicant is a limited company or a corporation, the application shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The applicant should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

3.0 FINAL DECISION MAKING AUTHORITY.

The employer reserves the right to accept or reject any application and to annul the qualification process and reject all application at any time, without assigning any reason or incurring any liability to the applicants.

4.0 SITE VISIT

The applicant is advised to visit the site of work, at his own cost, and examine it and its surroundings by himself, collect all information that he considers necessary for proper assessment of the prospective assignment.

5.0 TENDER DOCUMENTS

5.1 The tender documents consisting of the following documents

1. Part-I- Technical Bid
2. Part-II - General Conditions of Contract
3. Part-III- Price Bid

- 5.2 The tenderer is expected to examine carefully all the contents of the tender documents including instructions, conditions, forms, terms etc. and take them fully into account before submitting the offer. Failure to comply with the requirements as detailed in these documents shall be at the tenderer's own risk.

6.0 SUBMISSION OF THE TENDER DOCUMENTS

The tender document shall be submitted in two parts

1. Part- I- Technical Bid & Part-II – General Conditions of Contract
2. Part-III- Price Bid

6.1 Part -I Technical Bid shall consisting of the following,

- a. Earnest Money Deposit
Earnest Money Deposit, as detailed in clause 6 of NIT in original, placed in a separate sealed envelope and duly marked "Earnest Money Deposit".
- b. Power of Attorney
Attested copy of Power of Attorney (in favour of the authorized signatory of the tenderer) to submit the tender.
- c. Signed copies of Technical Bid, General Conditions of Contract & Drawings.
- d. Letter of transmittal
The applicant should submit the letter of transmittal attached with this document.
- e. Financial information
Applicant should furnish the Annual financial statement for the last three years (in Form "A").
- f. Experience in works / similar works

Applicant should furnish the following:

- A. List of all works of similar class successfully completed during the last three years (in Form "B").
- B. List of the projects under execution or awarded (in Form "C").

- C. Particulars of completed works and performance of the applicant duly authenticated/certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each work completed or in progress (generally as in Form "D").

g. Organization information

Applicant is required to submit the following information in respect of his organization (in Forms "E").

- A. Name & Postal Address, Telephone & Fax Number etc.
- B. Copies of original documents defining the legal status, place or Registration and principal places of business.
- C. Valid VAT/Works Contract Tax registration with Sales Tax Department.
- D. Names & Title of Directors and Officers to be concerned with the work, with designation of individuals authorized to act for the organization.
- E. Information on any litigation in which the applicant was involved during the last five years, including any current litigation.
- F. Authorization for employer to seek detailed references.
- G. Details & Expertise of the Applicants

6.2 Part -II Price Bid shall consisting of the following

- a. Completed Price bid

7.0 EVALUATION OF BIDS

- 1) The applicants will be evaluated in the following manner:

The eligibility criteria prescribed below in respect of experience of similar class of works completed and financial turn over etc. will first be scrutinized and the applicant's eligibility for qualification for the work be determined HLL, however, reserves the right to restrict the list of qualified bidders to any number deemed suitable by it.

- 2) Even though an applicant may satisfy the above requirements, he would be liable for disqualification if he has:
 - A. Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the pre-qualification document.
 - B. Record of poor performance such as abandoning work, not properly completing the contract, or financial failures/ weaknesses etc.

C. If the applicant, or any constituent partner in case of partnership firm, has been debarred/black listed or terminated for poor performance by any organization at any time or ever been convicted by a court of law, their application will be summarily rejected.

3) All tenderers who qualified based on Eligibility Criteria shall be informed and their price bids shall be opened. The price bids of the unqualified bidders shall be returned unopened.

8.0 SIGNING OF THE APPLICATION

8.1. The tenderer shall prepare one set of the document. The tender documents (Part I- Technical bid, GCC & Part II- Price Bid) shall be stamped and signed on all pages by the person duly authorized to sign on behalf of the Applicant. The power of attorney duly notarized and on a stamp paper authorizing the person to sign and act on behalf of the firm should be submitted.

8.2 The completed tender shall be without alteration, overwriting, interlineations or erasures except those to accord with instructions issued by HLL or as necessary to correct errors made by the tenderer.

All amendments/ corrections shall be initialed by the person/ persons signing the tender.

8.3 An authorized representative shall have the authority to conduct all business and incur liabilities related thereto for and on behalf of the applicant, during the process and thereafter.

9.0 SEALING AND MARKING OF APPLICATIONS

9.1 The Technical and Price bids shall be sealed in two separate envelopes, super scribed as PART-I Technical bid, GCC and PART-II Price Bid respectively. The two covers shall be sealed in a single large envelope and submitted on or before the last date and time for submission of the application. The envelopes shall be titled "Supply Installation Testing and Commissioning Modular Operation Theatre Tertiary Cancer Centre, Kozhikode"

9.2 No responsibility will be accepted by the HLL for the misplacement or premature opening of a tender, not sealed or marked as per aforesaid instructions.

10.0 DEADLINE AND ADDRESS FOR SUBMISSION OF APPLICATIONS

10.1 Applications shall be submitted to HLL Lifecare Limited, by hand or through registered post or courier service at the address given below and

not later than 15.00pm on 21.11.2016 .In respect of Applications received by post or courier, HLL shall not assume any responsibility for any delayed delivery. Documents submitted in connection with this tender will be treated confidential.

10.2 The Application should be addressed to

**Deputy Vice President (Technical),
HLL Lifecare Limited,
Infrastructure Development Division,
HLL bhavan- Golden Jubilee block- 2nd floor,
Poojappura,
Thiruvananthapuram-695012
Phone - 0471 2355404/2775500**

10.3 HLL may, at its discretion, extend the deadline for the submission of Tender, in which case all rights and obligations of HLL and the Applicants subject to the previous deadline shall thereafter be subject to the deadline as extended.

11.0 LATE APPLICATIONS

Application received after the dead line of submission of Application shall not be considered or opened under any circumstances.

12.0 VALIDITY OF APPLICATIONS

Application shall be valid for a period of 120 days from the last date of submission of Applications. HLL retain the right that in exceptional circumstances at its own discretion, it may ask the applicants to extend the validity of their application for a Specified period. The Applicant not submitting the letter of extension of the validity period at that time shall not be further considered.

13.0 AMENDMENT OF TENDER DOCUMENTS

13.1 At any time prior to the deadline for submission of Applications, HLL either on its own or on request of the Applicant may amend the Tender Documents by issuing addenda.

13.2 An addendum issued shall be part of the Tender Documents and shall be informed to the bidders who have purchased the tender documents or

shall be posted at the website of HLL as per the date specified in Schedule for submission of tender. The applicants are advised to check the websites specified above after the last date of issue of addendum and download the addendum issued, if any.

- 13.3 To give Applicants reasonable time to take an addendum into account in preparing their Applications, HLL may, at its discretion, extend the deadline for the submission of Applications.

14.0 WITHDRAWAL OF TENDERS

14.1 No modification or substitution of the submitted application shall be allowed.

14.2 A tenderer may withdraw its Tender after submission, provided that written notice of the withdrawal is received by HLL before the due date for submission of Applications. In case an applicant wants to resubmit his application, he shall submit a fresh application following all the applicable conditions.

14.3 The withdrawal notice shall be prepared in Original only and each page of the notice shall be signed and stamped by authorized signatories. The copy of the notice shall be duly marked "WITHDRAWAL".

15.0 TECHNICAL BID OPENING & EVALUATION

15.1 The covers containing Tender Security and Technical bid will be opened in the presence of the authorized representatives of bidders at the date and time prescribed in the schedule of submission of Application.

15.2 In case the bidder's technical submittal is found non-responsive with the qualification requirements; the same is liable to be rejected. The price bid of bidders who do not qualify based on the evaluation of technical bids shall be returned unopened.

16.0 PRICE BID OPENING

The price bid of only the qualified bidders will be opened. Evaluation of the financial offer will be based on price quoted by the contractor. Any subsequent alteration in prices shall not be given any cognizance.

17.0 AWARD CRITERIA

HLL will award, the contract to the tenderer, whose tender has been determined to be substantially responsive, complete and in accordance with the

Tender documents and whose total evaluated price for undertaking the entire project as per the tender documents is the lowest.

18.0 EMPLOYER'S RIGHT TO ACCEPT AND TO REJECT ANY OR ALL TENDERS.

18.1 The employer reserves the right, without being liable for any damages or obligation to inform the applicant, to:

- A. Amend the scope and value of contract to the applicant.
- B. Reject any or all of the applications without assigning any reason.

18.2 Any effort on the part of the applicant or his agent to exercise influence or to pressurize the employer would result in rejection of his application. Canvassing of any kind is strictly prohibited.

19.0 JURISDICTION

All disputes arising shall be subject to the jurisdiction of the appropriate court at Thiruvananthapuram, India and will be governed by the laws of India.

ELIGIBILITY CRITERIA

- a) The applicant should have a minimum average annual turnover Rs. 1.01 Crs for the last three financial years ending 31st March 2016. Also the firm shall be profit making for atleast two years in the last five financial years ending 31st March 2016.
- b) The applicant shall have the eligibility criteria and experience as follows.

Experience in similar work during last 5 years ending last day of the month of May 2016
Three similar works of value 40% or more of the estimated cost of work Or Two similar works of value 60% or more of the estimated cost of work Or One similar work of value 80% or more of the estimated cost of work

The applicant should submit successful completion certificate for the above works. The certificate issued by the client should submit the satisfactory completion certificate from any officers not below the rank of Manager /Project Manager or above.

- c) The firm should have an established service centre operating in Kerala/Karnataka/Tamil Nadu.
- d) The firms should be registered with Income Tax and Service Tax Authorities and copies of PAN and Service Tax Registration have to be submitted along with application.

Desirable

- e) The applicant should have sufficient number of Technical and Administrative employees as per clause 36(i) of General Conditions of contract for the proper execution of the contract. The applicant should submit a list of these employees stating clearly how they would be involved in this work.

LETTER OF TRANSMITTAL

From:

To

**Deputy Vice President (Technical),
HLL Lifecare Limited,
Infrastructure Development Division,
HLL bhavan- Golden Jubilee block- 2nd floor,
Poojappura,
Thiruvananthapuram-695012
Phone - 0471 2355404/2775500**

Sir,

Subject: Supply Installation Testing and Commissioning of Modular Operation Theatre at Tertiary Cancer Centre, Kozhikode”

Having examined the details given in the Tender press notice and Qualification documents for the above work, I/we hereby submit the qualification document and other relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed forms A to E1 and accompanying statements are true and correct.
2. I/We have furnished all information and details necessary for pre-qualification and have no further pertinent information to supply.
3. I/We submit the following certificates in support of our suitability, technical know-how and capability for having successfully completed the following works:

Name of work
Enclosures.

Certificate from

Seal of applicant
Date of submission

Signature(s) of Applicant

FORM 'A'

FINANCIAL INFORMATION

- I. Financial Analysis - Details to be furnished duly supported by figures in balance sheet/profit & loss account for the last three years duly certified by the Chartered Accountant. (Copies to be attached).

Years

2011-12	2012-13	2013-14	2014-15	2015-16

Profit

Years

2011-12	2012-13	2013-14	2014-15	2015-16

If the company is in loss for any of the above year's .Please indicates it separately.

Signature of Chartered Accountant with Seal

Signature of Applicant

FORM 'B'

**DETAILS OF ALL WORKS OF SIMILAR CLASS COMPLETED DURING THE
LAST FIVE YEARS ENDING LAST DAY OF THE MONTH OF
October 2016**

Sl. No.	Name of work/ project and location	Owner or sponsor	Cost in crores	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration pending /inprogress with details*	Name and address / telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	8	10

* Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Applicant

FORM 'C'

PROJECTS UNDER EXECUTION OR AWARDED

Sl.No	Name of work/ project and location	Owner or sponsoring organization	Cost of work in crores	Date of commencement as per contract	Stipulated date of completion	Litigation / arbitration pending / in progress with details*	Name and address / telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9

Signature of Applicant

FORM 'D'

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "B" & "C"

1. Name of work /Project & Location
2. Brief description of Nature of Work:
3. Agreement No.
4. Contract Value.
5. Date of start
6. Date of completion
 - (i) Stipulated date of completion
 - (ii) Actual date of completion
7. Amount of compensation levied for delayed completion, if any
8. Amount of reduced rate items, if any.
9. Performance Report
 - 1) Quality of work
Very Good/Good/Fair/Poor
 - 2) Financial soundness
Very Good/Good/Fair/Poor
 - 3) Technical Proficiency
Very Good/Good/Fair/Poor
 - 4) Resourcefulness
Very Good/Good/Fair/Poor
 - 5) General behavior
Very Good/Good/Fair/Poor

Dated:

Project Manager or
Officer of Equivalent Grade

'FORM 'E'

STRUCTURE & ORGANIZATION

1. Name & Address of the applicant
2. Telephone No./Fax No.
3. Legal status of the applicant (attach copies of original document the legal status).
 - (a) An individual
 - (b) A proprietary firm
 - (c) A firm in partnership
 - (d) A limited company or Corporation
4. Particulars of registration with various Government bodies (attach attested photocopy).

Organization/Place of registration	Registration No.
1.	
2.	
3.	
5. Names and Titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization.
7. Was the applicant ever required to suspend construction for a period of more than six months continuously after you commenced the construction? If so, give the name of the project and reasons of suspension of work.
8. Has the applicant, or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.
9. Has the applicant, or any constituent partner in case of partnership firm, even been debarred/black listed for tendering in any organization at any time? If so, give details.
10. Has the applicant, or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.
11. Has the applicant any valid VAT/Works Contract Tax registration with the Sales Tax Department?
12. Any other information considered necessary by not included above.

Signature of Applicant

FORM 'E-1'

**DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE
EMPLOYED FOR THE WORK**

S. N o.	Designation	Number available for this work	Name	Qualification	Professional experience and details of work carried out	Responsibility	Remarks
1	2	3	4	5	6	7	8

Signature of Applicant

Form G
SAP VENDOR CREATION TEMPLATE

Name of Vendor / Supplier	
Address for Communication	
Phone Number	
Type of Organisation	Company / Partnership / Proprietor
PAN Number [attach copies]	
TIN Number [attach copies]	
CST Number [attach copies]	
Service Tax Registration No [attach copies]	
Bank Details	
Name of Bank	
Account Number	
RTGS / NEFT [IFS] Code	
Branch Name & Address	

Name & Signature of Contractor

MODULAR OPERATION THEATRE

I	RESPONSIBILITY OF BIDDER
a	Bidder shall be responsible for complete design, construction, testing and commissioning of modular operation theatres based on seamless integration with modular concept
b	Bidder is responsible for the demolition, civil modifications, electrical works, plumbing works, air conditioning work and other works necessary for the proper functioning of the OT. The work is specified detailed in the tender.
c	Bidder shall be responsible for free maintenance of modular operation theatres during warranty period.
d	Bidder shall be responsible for commissioning of Medical Gas lines, Pendants and Gas outlets for the OTs.
e	The proposed OT drawing is attached. However Bidders are strongly advised to visit the site before submission of the final offer.

SCOPE OF WORK

Turn Key Job to be provided by the Bidder

1. Civil Works, Demolition, Electrical works, Plumbing works & Air Conditioning
2. Commissioning and installation of Stainless Steel wall paneling and PVC flooring.
3. Installation of laminar flow.
4. False ceiling
5. All cable trenches and railings wherever required.
6. Bidder has to provide hatch box, storage shelves, SS scrubs and other service areas as mentioned in the bid.
7. Installation of Pendants.
8. Any other necessary work required for satisfactory working of the modular OT and not mentioned.

1	WALL PANELING SYSTEM-SS
1.1	The prefabricated Operating Room should be free standing structure from composite free standing insulated steel wall panels.

1.2	The wall will be constructed using 1.5mm thick 304 Grade Stainless Steel (duly certified) panels with suitable backing board OR it should be 0.8mm 304 Grade Stainless Steel sandwich panel with core consisting of rigid polyurethane foam, which has been injected under high pressure, with a minimum density of 40 kg/m ³ .
1.3	The individual wall panels shall use the tongue and groove technology for joining two panels, no welding should be allowed.
1.4	The gaps between panels shall be suitably filled with metal filler/epoxy and sanded flush.
1.5	Stainless Steel plate finished to fine grain surface, treated properly to take antifungal paint.
1.6	Paneling should be easy to maintain, durable, antistatic/conductive and fire retardant.
1.7	Clearance between inner panel and outer wall should be sufficient to allow the maintenance personnel for service. This closed space should be flushed continuously to eliminate dust and bacterial accumulation.
1.8	Anti bacterial paint should be coated on the wall.
1.9	Bidder should maintain anti-bacterial paint during warranty and CMC period.
1.10	Wall elements should be resistant to all standard cleaning agents, disinfectants and fumigation agents.
1.11	Panel should be covered with protective sheath to prevent scratch during installation.
1.12	It should have minimum number of junction. The junction should be seamless and should be sealed with suitable sealants.
1.13	Wall paneling should have proper fire protection.
1.14	Bidder should provide factory test certificate for all the material used for wall paneling.
1.15	The wall panels should be CE/BIS certified
2	CEILING SYSTEM
2.1	The ceiling plates /cassettes should be made up of Stainless Steel sheets, 0.8 mm thick with matt finish and should be coated with antibacterial paint. The ceiling suspension should be as follows.
2.2	Support elements: Suspension bracket with tension spring. Material: High quality galvanized or powder coated steel.
2.3	Room lighting, air supply inlet, ceiling service units, return air outlets, etc should be integrated with SS metal ceiling system.
2.4	The individual panels except those at the edges should be removable individually.
2.5	The ceiling material should be CE certified according to EN standards.
3	PVC FLOORING
3.1	It should be with 2mm antistatic seamless PVC flooring

3.2	Floor should be smooth, non-slip, impervious material conductive enough to dissipate static electricity but not conductive enough to endanger personnel from electric shock.
3.3	Electrostatic charge dissipation combat PVC seamless flooring of very high quality should be provided.
3.4	Thickness not less than 2 mm. Continuous roll should be used and joints should be welded by special PVC thermal welding units using PVC welding bars of same colour
3.5	The sheets should be highly durable with resistance to shock and indentation. It should be scratchproof also. The conductive material should be uniformly impregnated as grains.
3.6	It should be inert to body fluids, chemicals and disinfectants. Should not be affected by temperature variation within the OT.
3.7	The floor should efficiently discharge electric charges up to 2 kV
3.8	Flooring should be done by skilled workers of accredited agencies authorized by the supplier of PVC sheets. The electrical resistance (point to ground) should be within 2.5×10^4 to 5×10^6 ohms. The floor should not allow build up of electrical charge beyond 100 volts due to antistatic effect. The corners should not be terminated sharply and concealed cove-former (aluminium) should be used to overlap the wall panel to a height of approx.25mm and sealed perfectly and uniformly. Self leveling compounds should be used.
3.9	The conductive copper grid laid underneath the PVC sheet should be supported by liquid epoxy compounds allowed to set as a uniform and level surface. The copper strips to be made visible by grinding and no copper strip should project more than 0.5mm above level surface to avoid damage to the PVC sheet. One earthing lead should be brought out from every 150sq.ft area and attaching it to the main earthing strip/ ground.
3.10	Copper grounding strips (0.05 mm thick, 50 mm width) should be laid flat on the floor in the conductive adhesive and connected to copper strip of grounding. The connection from copper grid should be brought out uniformly at places to form equipotential grid.
3.11	Flooring should be mechanically shock proof, scratch proof, flame retardant and anti microbial
3.12	Corners should be uniformly curved
3.13	Final surface should be non corrosive to biological fluids and detergents.
3.14	Colour should be uniform pleasant and matching with ambience
4	HERMETICALLY SEALED DOORS
4.1	This should be a hermetically sealed, single sliding door of 2.1 (H)X 1.8 m(W)
4.2	The controller should be capable of being operated by elbow switches/foot switches as well as touch less sensor.
4.3	The track should be of stainless steel and the running surface for the top rollers should be suitably angled to reduce resistance to movement.
4.4	The door leaf should be hung by means of hard plastic rollers of high quality with double bearing at the top. Rollers should be provided under the stainless steel/ track to enable smooth and noiseless movement.

4.5	Opening and closing of the door should be microprocessor controlled electromechanical movement.
4.6	The door material should be high quality Stainless steel. Color should match the interior and care should be taken to make the leaf strong and light weight.
4.7	One should be able to open and close the door effortlessly incase of failure of automatic mechanism.
4.8	Door opening handle should be strong and sturdy. Material should be of SS (gloss finish). Should be provided with high quality cylindrical lock.
4.9	Door leaf should have high quality synthetic rubber gasket with long life to ensure hermetic sealing (to maintain air pressure differential). Air tightness 99.99% at a pressure of 100KPa.
4.10	The finished floor on either side of the door should be perfectly level (maximum permissible difference ± 1 mm).
4.11	The overall thickness of the finished door should not exceed 60mm. The inner part of the door should be filled with CFC free polyurethane foam/solid treated wood of thickness of 48mm or nearby. (Sealed airtight to prevent further ingress of any microbial organism).
4.12	The door and controls should comply with IEE regulation and BS 7971 standardization. All motors used should be DC brushless motors with essential isolation from mains.
4.13	Door should be with vision window 300 mm x 300 mm with double glazed panels and hermetically sealed motorized roller blind inside.
4.14	Noise level should not exceed 60 db.
4.15	The starting time after receiving the signal should be adjustable between 0.5 to 20 seconds.
4.16	Door should provide X ray protection as per AERB regulation (Lead equivalent at 100kV is 0.27mm).
4.17	The complete door assembly should be CE marked.
4.18	Test certificate for hermetically sealed door frame (factory test certificate) should be enclosed with the pre dispatch documents.
5	TOUCH SCREEN CONTROL PANEL
5.1	The control panel should be touch screen panel. This control panel should work as the central control panel for the HVAC controls, instruction board, communication interfaces- both audio and video etc.
5.2	The panel should accommodate all necessary controls for the correct operation and monitoring of the equipment and services within the operating room (OR).
5.3	The touch screen should be wall mounted, stationed in the visibility line of the surgeon and OT staff. The access height should be convenient for the nurse to operate and help/assistant when in need.
5.4	The panel should accommodate digital clock and the elapsed time indicator.
5.5	The medical gas alarm should indicate high and low gas pressures for each gas service present in the OT including vacuum. This should be supported by

	audible alarm also. The panel should have an alarm mute (fault annunciation) facility. The sensors (pressure switches) should be at the nearest isolation valve.
5.6	Control for general lighting: ON/OFF and dimming controls organized in groups to provide uniform illumination.
5.7	Control of the operating light (major and satellite and camera control (on/off and intensity control) should be provided.
5.8	Temperature and humidity control for the room connected to the AHU. (Adjustable from the panel)
5.9	Digital room pressure indicator in cm of H ₂ O or equivalent (signal from pressure sensor)
6	PRESSURE RELIEF DAMPERS
6.1	Pressure relief dampers should be provided in each room to prevent contamination of air from clean and dirty areas.
6.2	Suitably sized air pressure relief damper should be strategically placed, enabling differential room pressure to be maintained and ensure that when doors are opened between clean and dirty areas.
6.3	Counter- weight balancing system should be provided in the PRD to maintain positive pressure inside the operation room.
6.4	Air pressure stabilizers should have unique capability of controlling differential pressure to close tolerance. The PRD should remain closed at pressure below the set pressure and should open fully at a pressure only fractionally above the threshold pressure.
6.5	The body should be epoxy powder coated as per standard BS colors. High grade electrolyzed steel plate should be used for body and high grade SS304 stainless steel for blades
7	HATCH BOX
7.1	A hatch should be provided in each operation theater to remove waste materials from the operation theater to dirty linen area/corridor just adjacent to Operation Theater.
7.2	Each hatch box should be equipped with two doors and the door should be operated electrically/motorised.
7.3	The hatch should be designed in such a way that only one door should be opened at one time.
7.4	The UV light should be so installed that it is kept on while both the doors are closed. This UV light has to be automatically turned off in case of opening of either of the doors.
7.5	Indicators should be provided on both sides of the OT so that door open / close status can be monitored from both sides.
8	DISTRIBUTION BOARD
8.1	All high voltage equipment should be installed in a separate enclosure.
8.2	The remote cabinet should house the operating lamp transformers, mains failure relays, UPS, electrical distribution equipment & circuit protection equipment for all circuits within the operating theatre.

8.3	All internal wiring should terminate in connectors with screw & clamp spring.
8.4	Connections of the clip- on type mounted, on a CE approved rail & labeled with indelible proprietary labels.
8.5	Individual fuses or miniature circuit breakers should protect all internal circuits.
8.6	Complete schematic drawing with description should be enclosed with the equipment.
9	OPERATING LIST BOARD
9.1	One operating list board should be provided in each operating theater.
9.2	It should be made of ceramic having magnetic properties and should be flushed to the wall of the operating room.
10	X RAY FILM VIEWER
10.1	LED type flat panel X-ray viewing panel should be supplied.
10.2	This should comply with relevant electrical safety codes.
10.3	This should be a 3 panel viewing screen.
10.4	Mounting should be flush with the wall to avoid dust accumulation and growth or organisms between wall and panel.
10.5	Body should be of extruded aluminum powder coated black with bacteria resistant and disinfectant resistant finish.
10.6	The diffuser on the front panel should be a uniformly lit screen.
10.7	Dimming electronic control should be enclosed at the bottom of the cabinet.
10.8	Proper spring loaded film clip with rollers should be provided to hold the films firmly and to remove the film without scratches.
10.9	Each panel should be able to illuminate films up to 14" x 17" size. (Total 3 panels)
11	STORAGE UNIT
11.1	The storage unit should be made with 1.50 mm thick stainless steel panels.
11.2	It should be continuously ventilated by positive air in the room through ventilation holes provided at the bottom and top of opposite sides.
11.3	The shelves should be of welded SS mesh of size 3 mm and grid size 30 mm X 30 mm removable for cleaning.
11.4	The storage unit should be divided 2 or more parts and each part should have individual glass doors with high quality locking system
11.5	The overall size should be approx 180 cm X 60 cm X 45 cm
12	DOUBLE ARM MOVEABLE PENDANTS .
a	The Pendants should comply with NFPA 99C/HTM 02-01. 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
	The Pendant should have the following specification:
b	1000 mm + 800mm moveable arms each with 340 deg. horizontal and vertical movements..
c	Weight carrying capacity of the arm should not be less than 120 Kgs. should have electromagnetic brakes.

d	Each arm should be capable of 300-340 degrees of rotation, which can be easily adjusted to suit the desired mode of operation.
e	The Pendant Service Heads should be modular with 1000 mm head. The heads should be capable of accepting a range of shelves, and infusion poles or other accessories. The Pendant Heads should support the range of Monitor Mounting Solutions.
g	The Pendant Service Heads should be supplied with medical gas terminal units and 15 Amps. Sockets.
h	Each pendant should have:
	Oxygen Outlets - 2 nos, Vacuum Outlets - 2 nos, Nitrous oxide - 2 nos, Air(4 bar) Outlets - 2 nos Electrical sockets with individual switches- 8 nos Shelf with two rails one on each side - 1 no. Monitor stand - 01 no. Data socket RJ-45 -1 no
13	MEDICAL GAS LINE INSTALLATION
13.1	The bidder should ensure that all works carried out are to the recommendation made in the Department of Health and Social Securities Health Technical Memorandum number 02-01 /NFPA 99C
13.2	Bidder should provide Oxygen, Air, Vacuum, and Nitrous Oxide supply to Operation Theatres from the existing lines terminated outside the OT .
13.3	Bidder shall be responsible for supply, installation, testing and commissioning of complete MGPS system inside the operation theatre including Distribution piping, Pendants, outlets and other essential accessories.
13.4	Terminal units should be gas specific and only accept the correct Medical gas probe. Gas specific components shall be pin indexed to ensure that a correct gas specific assembly is accepted.
13.5	Each terminal unit should be identified by the appropriate recognized name or symbol, colour, coding and shape as per HTM 02-01 /NFPA 99C.
13.6	Copper pipes should be of solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe conforming to BS: 6017, 1981 and manufactured as per BS: 2871, 1971 Part 1. 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, TUV, 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.
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	SPECIFICATION OF DOUBLE DOME LED OT LIGHT WITH CAMERA & MONITOR
1.1	Should be double dome surgical light unit incorporating the latest LED technology only for homogenous and shadowless operating light field with following specifications.
1.2	Should have single colour LEDs with lifetime of ≥ 48000 hrs.
1.3	The main light and satellite should have the following specifications.
	Lux intensity of 120000 for both domes
	Light field diameter 22 cm on each light head
	Fixed color temperature 4500 K
	Colour rendering index min of 95
	Depth of illumination should be minimum of 185 cm on each light head

	Illumination adjustment 30% to 100 %.
1.4	Should have technology to produce light beams for perfect visualization on surface as well as in deep cavities.
1.5	Should have constant voltage delivery system to the LED bulb to achieve unique and control illumination throughout the procedure.
1.6	Should have adjustable focus system.
1.7	Should have infra red remote control to illumination (increase/ decrease),selection of light,Camera Zoom (increase/ decrease)& rotation of video image when camera is in place.
1.8	The LED must be of single colour only for long term maintenance and ease of replacement.
1.9	Should conform to ISO,IEC and other international quality/ safety standards with specific conformance on IEC 60601-2-41 in terms of depth of illumination and shadow dilution such that depth of illumination (L1 +L2) to be atleast 185cm or better.
1.10	Should have average radiant energy of the lights should be less than 3.9mW/m ²
1.11	The main light should have camera pre wiring as standard.
	OPTIONAL CAMERA
	The light must be upgradeable to a latest centrally mounted camera system on the main of the light head having following specification.
	CCD Sensor : 1/4 CCD
	Signal : PAL
	Lens Zoom : 10x Motorized Zoom
	Location of the camera: -Main light head
	OPTIONAL FLAT PANEL MONITOR
	Should be 23" High Definition Progressive Scan Flat-panel Monitors with ceiling mounted spring arm suspension to support high-definition/HDTV progressive Scan images and should be able to support and display DVI/HDTV, RGBHV, S-Video, Composite video signals.
	The flat Panel suspension should be ready with the cables for integration of High Definition Digital (DVI/HDTV), RGBHV (High Resolution), SVHS (S-Video), Composite video signals to travel from the various sources of video like endoscopic camera, room camera, in light camera, high definition flat panel monitors, while assuring native resolution / signal.