

Notice Inviting e-Tender For

**SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS,
Bhubaneswar**

(File No.: AIIMS/BBSR/ENGG/ACR-2024/BURN OT/03



**All India Institute of Medical Sciences
Engineering Branch, Bhubaneswar (Odisha)-751019
www.aiimsbhubaneswar.edu.in**

NIT No. : **AIIMS/BBSR/ENGG/ACR/NIT/35**
Estimated Cost : **₹ 1,14,60,051/- (One Crore Fourteen Lakh Sixty Thousand Fifty -one only)**
Contract Period : **120 Days (from the date of issue of work order).**

“Certified that, this tender document contains 61 pages only”.

**Executive Engineer (AC & R)
AIIMS, Bhubaneswar**

Name of Work	:	SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar.		
NIT No.	:	AIIMS/BBSR/ENGG/ACR/NIT/35		
<div>INDEX</div>				
			Page No	
1.	Cover & Index		-	01 & 02
2.	Notice Inviting e-Tender / Notice Inviting Tender		-	03
3.	Information & Instructions to Bidders		-	04
4.	Declarations to be given by the Tenderers		-	05
5.	General Rules & Directions and General Conditions		-	06 to 10
6.	Form for details of all works of similar class completed during last 07 (Seven) Years (Appendix `A` refers)		-	11
7.	Form for detailed Information by Bidder (Appendix `B` refers)		-	12
8.	Bidders undertaking against Item Rate Bid for Work		-	13
9.	GENERAL CONDITIONS FOR SPECIALIZED ELIGIBLE AGENCIES		-	14 to 18
10.	Technical Bid (Eligibility Criteria)		-	19
11.	Affidavit		-	20
12.	Form for Performance Security (Bank Guarantee) (Annexure - I)		-	21
13.	Format for Agreement		-	22 to 26
14.	Technical Specifications for Modular Operation theatres		-	27 to 38
15.	Compliance Sheet of Modular OT		-	39 to 50
16.	LIST OF APPROVED MAKES		-	51 to 52
17.	Financial Bid (Schedule of Quantities)		-	53 to 56
18.	PROFORMA OF SCHEDULES		-	57 to 58
18.	e-Tendering Instruction to the Bidder		-	60 to 61

NOTICE INVITING e-TENDER

The Executive Engineer(AC&R) on behalf of Executive Director, AIIMS Bhubaneswar, invites E-Bids in Two Bid System (i.e. Technical Bid and Financial Bid) from eligible Bidders through online E-procurement solution portal of AIIMS Bhubaneswar (<https://www.eprocure.gov.in/AIIMSBBSR>) as per terms and conditions contained in this document for satisfactory performance for **“SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar”** for the Dept of Burn centre at AIIMS Bhubaneswar as per the Specifications mentioned in Technical Bid. The indenting Bidder must read the Terms & conditions of AIIMS, Bhubaneswar carefully. He/They should only submit his/her/their bid if he/she/they consider himself/themselves eligible and he/she/they is/are in possession of all the documents required.

(a)	Name of Work	SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar.
(b)	Tender No.	AIIMS/BBSR/ENGG/ACR/NIT/35
(c)	Estimated Cost	₹ 1,14,60,051/- (RUPEES One Crore Fourteen Lakh Sixty Thousand Fifty -one only)
(d)	EMD	2% of Estimated Cost (i.e. ₹ 2,29,201/-)
(e)	Performance Security (Bank Guarantee)	5% of Tendered Cost.
(f)	Security Deposit	2.5% of the Final Value.
(g)	Tender documents will be Issued From	Download from Institute Website. (i.e. www.aiimsubnaneswar.edu.in, /www.eprocedure.gov.in).
(h)	Pre-bid meeting	On 24/06/2024 at 15:30 Hours in the chamber of Executive Engineer (AC&R), AIIMS, Bhubaneswar
(i)	Last Date, Time & Place of Submission	By 03/07/2024 at 17:00 Hours through online.
(j)	Date, Time for opening of Tender (Technical Bid)	On 05/07/2024 at 15:30 Hours.
(k)	Time and date of opening of Online Financial Bids	To be intimated later on.
(l)	Period during which hard copies of EMD (in Original), Registration Certificates, Undertaking and other Documents to be submitted to Executive Engineer (AC & R), Room No-122, 1 st floor, Academic Building, AIIMS, Bhubaneswar by the Bidders for reference. However, the Eligibility will be considered as per uploaded documents.	To be submitted on 05/07/2024 i.e. by 14:00 Hours. In case the last day happens to be closed holidays, these Documents shall be submitted on the next working day failing which technical Bid will not be considered for Evaluation.
(m)	Mode of submission of Tender	On Line.

The Bid documents consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms & conditions of the contract & special conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.aiimsubnaneswar.edu.in Or <https://www.eprocure.gov.in/AIIMSBBSR>.

Executive Engineer (AC & R)
AIIMS, Bhubaneswar

INFORMATION AND INSTRUCTIONS TO BIDDERS

1. The intending bidder must read the terms and conditions of Tender document carefully. He should submit his bid if he considers himself eligible and he is in possession of all the certificates / documents required.
2. Information and Instructions for bidders for e-tendering posted on website shall form part of bid document.
3. The Bidder is expected to examine all Instructions, Terms and conditions, forms, and specifications in the bidding document. The bid should be complete and in the prescribed format as per the requirement of the bid document. The bid should not be conditional. Failure to furnish all information required by the bidding document or submission of a bid not responsive to the bidding documents in all respect will be at the Bidder's risk and may result in rejection of the bid.
4. The Procurement of goods and services under this tender will be regulated as per the applicable provision of Public Procurement (Preference to Make in India), order 2017 and revised order on 04.06.2020 and 16.09.2020 of MoC&I (DIPP), Govt. of India and the condition of prior turnover and prior experience may be relaxed for start-ups (as defined by Department for Industrial Policy and promotion) subject to meeting of quality & Technical Specification.

Therefore, bidders who are claiming to be regulated under the said order are to submit documentary Evidence in support of their claim.
5. The Bidder shall bear all costs associated with the preparation and submission of its bid and AIIMS, Bhubaneswar will in no case be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
6. Financial bids shall be opened online only for bidders for whom all the necessary documents are found in order and who are found to be eligible to bid for work. On opening date, the bidder can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
7. If the contractor is found ineligible after opening of bids, his bid shall become invalid.
8. If any discrepancy is noticed between the eligibility documents as uploaded at the time of submission of bid and hard copies as submitted physically by the bidder, the bid shall become invalid.
9. ***The Bidders shall have to submit original instrument for self-certified copies of all the scanned and uploaded documents on same day of opening of tender in the office of Tender Opening Authority.***
10. **List of mandatory Eligibility Documents to be scanned and uploaded within the period of bid submission: -**
 - Demand Draft/BG/FDR of any scheduled Bank against EMD in favour of AIIMS, Bhubaneswar.
 - Appendix 'A to B' duly filled in (Pages 11 & 12 ref.) and signed with stamp.
 - Certificates of Work Experience & Completion Certificate of Similar Work from Client not below the Rank of Executive Engineer or equivalent, as mentioned in Ser. No. - 4, Page No. - 7 refer under Eligibility Criteria.
 - Certificate of last 3 years financial turnover from Chartered Accountant.
 - Profit and loss statement of more than 2 years from Chartered Accountant.
 - Net worth certificate issued from Chartered Accountant.
 - Certificate of Registration for GST and acknowledgement, up to date filed return if required.
 - Copies of PAN Sheets
 - Copies of Balance Sheets
 - Copies of ESI Registration.
 - Copies of EPF Registration. (Latest submitted challan copy)
 - The Bidder should have their Registered Office/Branch in Bhubaneswar. If not, an Office should be opened in Bhubaneswar within 30 (Thirty) Days of the award of Work. Details of Address Proof of Office located at Bhubaneswar should be given.
 - Declarations to be given by the Tenderers (as per Page 05).
 - Each page of the e-tender documents should be duly signed with seal otherwise the bid shall become invalid.
 - Company Registration Certificate.

Executive Engineer (AC & R)
AIIMS, Bhubaneswar

DECLARATIONS TO BE GIVEN BY THE TENDERERS

It is to certify that: -

(a) I /We have gone through CPWD W-8 amended up to correction Slip No.6 as available on website <https://www.eprocure.gov.in/> www.aiimsbhubaneswar.edu.in or in the office of Superintendent Engineer and I/We agree with the terms and conditions of it and understood that it will form part of the agreement.

Date: _____

Signature of the Tenderer

(b) "I,S/o Shri resident of hereby certify that none of my Relative(s) as defined in Paragraph 14 of CPWD W-6 is/are employed in AIIMS Electrical Zone, Odisha. In case at any stage, it is found that the information given by me is false/incorrect, AIIMS shall have the absolute right to take any action as deemed fit without any prior intimation to me".

Date: _____

Signature of the Tenderer

NOTE: - (To be certified by all the partners in case of partnership firms, by all the directors in case of companies).

(c) "I/We undertake and confirm that eligible similar Work(s) has/have not been got executed through another contractor on back to back basis. Further, it is stated that, if such a violation comes to the notice of Department, then I/We shall be debarred for bidding in AIIMS in future forever. Also, if such a violation comes to the notice of AIIMS, Bhubaneswar before date of start of work, the Superintending Engineer shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee".

Date : _____

Signature of the Tenderer

GENERAL RULES & DIRECTIONS AND GENERAL CONDITIONS

Executive Engineer (AC& R), AIIMS, Bhubaneswar on behalf of Executive Director, AIIMS, Bhubaneswar invites e- Tender **[in Two Bid system (Technical & Financial)]** from eligible and reputed contractors of CPWD, AIIMS, any Central Govt., State Govt., PSU, Autonomous Body, Govt. Hospitals etc. having successfully completed works of similar nature as per eligibility criteria for the following work.

1. **Name of Work:** “SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar”.
2. The work is estimated to cost of ₹ 1,14,60,051/- (**Rupees One Crore Fourteen Lakh Sixty Thousand Fifty -one only**). The estimate, however, is given merely as a rough guide.
3. Intending Bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority of having satisfactorily completed similar works. The similar work means, **“supplying, installation, testing and commissioning of Modular Operation Theatre (MOT) and/or ICUs work, which may also include comprehensive maintenance of installations”**. (Copy of WO(s) & respective completion certificate(s) must be furnished by the bidder in Tech Bid in support of eligibility)

Standalone work of Comprehensive maintenance of MOT/ICU installations are not covered in similar work.

4. **Eligibility Criteria.** Indenting Bidder, who fulfil following requirement shall be eligible to apply: -
 - (a) Three (03) similar completed works each of value **not less than 40%** (i.e. for ₹ 45,84,020/-) of estimated cost put to tender or Two (02) similar completed works each of value **not less than 60%** (i.e. for ₹ 68,76,031/-) of estimated cost put to tender or one (01) similar completed work of value **not less than 80%** (i.e. for ₹ 91,68,041/-) of estimated cost put to tender in **last 07 (Seven) Years ending last date of month previous to one in which tenders are invited submission of bid.**
 - (b) The Bidder should have registration up to date with **Employee Provident Fund (EPF) Commissioner** and **Employee State Insurance (ESI) Corporation**.
 - (c) The bidder should have positive net worth and should not have incurred loss in last 03 (Three) Years ending i.e. by **31/03/2023** duly certified by Chartered Accountant.
 - (d) The experience of similar work should be from Central Govt., State Govt., PSU, Autonomous Body, Govt. Hospitals.
 - (e) Agreements shall be drawn with the successful bidders for item/items on prescribed format. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
 - (f) The bid document consisting of plans, specifications, the schedule of quantities of the various type of items to be executed and the set of terms & conditions of the contract to be complied with and other necessary documents.
 - (g) Conditional Bids shall not be considered and will be out-rightly rejected at the very first instance.
 - (h) **Average Annual Financial**, the turnover during the last 3 years, ending **31/03/2023** should be at least 30% of the estimated cost. (**i.e. ₹ 34,38,015/-**)

5. **Preparation & Submission of Tender through Online.** The Tender should be submitted in 02 (Two) parts i.e. **Technical Bid and Financial Bid Respectively**. The Technical Bid should be sent by the Bidder through online as **“Technical Bid”** for **“SITC of of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar”**.
6. **Earnest Money Deposit.** The bidder shall be required to submit the **Earnest Money Deposit (EMD)** for an amount of ₹ **2,29,201/-** (Rupees Two Lakh Twenty-Nine Thousand Two Hundred One only) by way of Demand Drafts, Bankers Cheque/BG or Fixed Deposit Receipt of a Scheduled Bank only. **Scanned Copy of the Demand Drafts must be uploaded/attached** with the Technical Bid. The EMD of the successful Bidder shall be returned after the successful submission of Bank Guarantee/Security Deposit and for unsuccessful bidder(s) it would be returned after Award of the Contract. Bid(s) received without Demand Drafts of EMD will be rejected.
7. **Performance Bank Guarantee.** The successful contractor will be required to furnish a Performance guarantee of 5% (five Percent) of Contract Value after receiving notification of award in the form of Fixed Deposit Receipt or Bank Guarantee from any Nationalized Bank in the name of the "All India Institute of Medical Sciences, Bhubaneswar" which shall be kept valid for a period of 60 days beyond completion of all the contractual obligations. The **Performance guarantee which is 5 %** of the contract value can be forfeited by order of this Institute in the event of any breach or negligence or non-observance of any condition of contract or for unsatisfactory performance or non-observance of any condition of the contract. Performance Security will be discharged after completion of contractor's performance obligations (including Warranty/Guarantee period) under the contract. In case the contractor fails to deposit the said performance guarantee within the period including the extended period if any, the Earnest Money Deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with tender shall be returned after receiving the aforesaid performance guarantee.
8. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost, all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions.
9. The Tender paper/documents can be seen/downloaded from Official website & submitted through on line. For any query, **Executive Engineer (AC& R), Phone: 9437317123**, AIIMS, Bhubaneswar, may be contacted.
10. The Executive Director, AIIMS, Bhubaneswar does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
11. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
12. The Executive Director, AIIMS, Bhubaneswar reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
13. The contractor shall not be permitted to bid for works in the AIIMS, Bhubaneswar responsible for award and execution of contracts, in which his near relative is posted as an officer in any capacity between the grades of Superintending Engineer and Assistant Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the AIIMS, Bhubaneswar. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

14. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
15. Bidders are strongly advised to inspect and assess the site conditions and its surroundings at their own cost and satisfy themselves before submitting their bids. The prospective bidders are advised to depute their technical experts with authorization letter to visit, assess and examine the conditions, requirements, nature & quantum of work which may be necessary for the purpose of bidding and submit a realistic offer for the successful execution of the work. In general, they shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A Bidder shall be deemed to have full knowledge of the site whether he/she inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. Bidders shall submit a realistic offer for the execution of the work at their own cost without any liability on AIIMS, BBSR.

The Bidder should inspect the equipment prior to submission of bid at his/her own cost and quote accordingly in a realistic manner. Price quoted by the bidder shall include maintenance of the equipment for trouble-free performance during the period of contract.

16. The bid for the works shall remain open for acceptance for a period of 180 days from the date of opening of bids.
17. This notice inviting bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of "The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and rate quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
18. (a) Security Deposit equal to 2.5% of the Final Value will be deducted from the Bills of the Contractor.
(b) The Income Tax as applicable shall be deducted from the Bill unless exempted by the Income Tax Department.
(c) The quoted Rates shall be inclusive of GST.
(d) Labour CESS @ 1% will be deducted from the Bill.
(e) Water charge @ 1% will be deducted from the bill (If use of Water from AIIMS, Bhubaneswar)
(f) Electrical charges as per actual meter reading shall be deducted from the bill. If connection is taken directly without installation of meter with prior permission from Executive Engineer (Electrical), then amount as per the usage shall be deducted from the gross bill amount as suggested by Executive Engineer (Electrical).
19. **Goods and Services Tax (GST).**
- (a) **GENERAL REMARKS ON TAXES & DUTIES:** In view of GST Implementation from 1st July 2017, all taxes and duties including Excise Duty, CST/VAT, Service tax Entry Tax and other indirect taxes and duties have been submerged in GST. Accordingly, reference of Excise Duty, service Tax, VAT, Sales Tax, Entry or any other form of indirect Tax except of GST mentioned in the bidding document shall be ignored.
- (b) Bidders are required to submit copy of the GST Registration certificated while submitting the bids wherever GST (CGST & SGST/UTGST or IGST) is applicable.

- (c) "GST shall mean Goods and services Tax charged on the supply of material(s) and services. The term 'GST' shall be construed to include the integrated Goods and Services Tax (Hereinafter referred to as "IGST") or central Goods and Services Tax (hereinafter referred to as "CGST") or State Goods and services Tax (Hereafter referred to as "SGST") or union Territory Goods and services Tax (hereinafter referred to as "UTGST").
- (d) Quoted price/rate(s) should be inclusive of all taxes and duties, except GST (i.e. IGST or CGST and SGST /UTGST applicable in case of interstate supply or intra state supply respectively and cess on GST if applicable) on the final service. However, GST rate (including cess) to be provided in the respective places in the price Bid. Please note that the responsibility of payment of GST (CGST & SGST or IGST or UTGST) lies with the supplier of Goods/services (service provider) only. Supplier of Goods/Service (Service provider) providing taxable service shall issue an invoice/Bill, as the case may be as per rules/regulation of GST. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier of Goods /services (Service provider) with requisite details.
20. The Bidder shall be solely responsible for compliance to the provisions of various Labour and industrial laws, such as, wages, allowances, compensations, EPF, Bonus, Gratuity, ESI etc. relating to personnel deployed by it at AIIMS, Bhubaneswar site or for any accident caused to them and the institute shall not be liable to bear any expense in this regard. The Agency shall make payment of wages to workers engaged by it by the stipulated date irrespective of any delay in settlement of its bill by AIIMS, Bhubaneswar for whatever reason. The Bidder shall also be responsible for the insurance of its personnel. The Bidder shall specifically ensure compliance of various Laws / Acts, including but not limited to with the following and their re-enactments / amendments / modifications: -
- (a) The Payment of Wages Act 1936.
 - (b) The Employees Provident Fund & MP Act, 1952.
 - (c) The Contract Labour (Regulation) Act, 1970.
 - (d) The Payment of Bonus Act, 1965.
 - (e) The Payment of Gratuity Act, 1972.
 - (f) The Employees State Insurance Act, 1948.
 - (g) The Employment of Children Act, 1938.
 - (h) The Motor Vehicle Act, 1988.
 - (j) Minimum Wages Act, 1948.
21. **Breach of Terms and Conditions.** Noncompliance of any terms and conditions enumerated in the contract shall be treated as breach of contract or in Case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to reject the bid at any stage without assigning any reason thereof and nothing will be payable by AIIMS, Bhubaneswar.
22. **Termination of Contract.** AIIMS, Bhubaneswar would have the right to terminate the contract, in case the work performance is not up to the standard, or in case there is any violation of AIIMS, Bhubaneswar rules & regulations, or if there is any lapse in compliance of any labour legislation, or if there is any incident of indiscipline on the part of the Tenderer or his staff and the agreement may be terminated. The decision of AIIMS, Bhubaneswar's management in this regard would be final and binding on the Tenderer. In such an event, AIIMS, Bhubaneswar shall have the right to engage any other tenderer to carry out the task.
23. **Arbitration.** The Arbitration shall be held in accordance with the provision of the Arbitration and conciliations Act, 1996 and the venue of arbitration shall be at Bhubaneswar. The decision of the Arbitrator shall be final and binding on the both parties.
24. **Dispute Settlement.** It is mutually agreed that all differences and disputes arising out of or in connection with this agreement shall be settled by mutual discussions and negotiations if such disputes and differences cannot be settled and resolved by discussions and negotiations then the

same shall be referred to the sole Arbitrator appointed by the Executive Director AIIMS Bhubaneswar, whose decision shall be final and binding on both the parties. The contract shall be governed by laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/ processing.

25. The Lowest Bidder will be decided as per the Commutation Rates quoted by the Bidder for individual item.

26. **Mode of Payment:**

- The 70% payment of **Part “A” SITC of Modular Operation Theatre (MoT)** will be released after supplies of material at site & balance 30% will be released after due verification of final bill by Engineering-in-Charge or his representative after completion of work. The deduction of 2.5% towards security deposit and other deduction towards taxes as per Government of India/AIIMS rule will be made from the bill. No provision of further RA bill payment for SITC work in this contract. **The payment of comprehensive maintenance (Part”B”) will be made on six monthly basis after satisfactory completion of said period duly certified by end-user and Engineer-in-Charge.**

- It will be mandatory for the bidders to indicate their bank account number and other relevant e-payment details so that payment could be made through RTGS/ Other mechanism.

27. GST and other Taxes as applicable shall be recovered/ paid from the contractor’s bill as per Govt. of India/AIIMS Rules.

28. **Penalty:** If the contractor fails to complete the work on or before the stipulated date, then a penalty at the Rate of 1.0% per month of delay to be computed on per day basis of the total order value shall be levied subject to maximum of 10% of the total order value.

29. All tools and tackles required for handling of equipment and materials at site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the contractor.

30. Vendor shall submit the following documents after execution of given work:

- (a) Work Completion Certificate (with final Bill)
- (b) Testing & Commissioning Certificate (if applicable)
- (c) Material Test Certificate (if applicable)
- (d) Warranty/ Guarantee Certificate (if applicable)
- (e) Colour Photos for executed work on glossary paper.
- (f) No-Objection Certificate (NOC) regarding work (with final Bill)
- (g) GST return up to date Voucher.
- (h) Bank Account Details.
- (i) 36(1) Graduate Engineer/Diploma Engineer Certificate. **(Must have requisite experience in SITC of**

MOT’s)

31. (i) As per SOP No. 5/1 & Clause No. 6 of CPWD Manual-2019, the MSME firms registered on NSIC under PP policy are exempted from payment of EMD for supply of Goods& Services only.

(ii) Micro and Small Enterprises if registered with any Govt. bodies specified by Ministry of Micros, small & Medium Enterprises (M/O MSME) with valid certificate duly issued by GOI are exempted from submitting the EMD.

(iii) Other Firms registered with MSME / NSIC with valid Certificate duly issued by GOI are also exempted from submitting the EMD. No other type of Certificate is acceptable. (iv) The exempting and relaxation in EMD is subject to the validity’s & acceptance of their registration Certificate on the date of opening of tender.

Appendix `A`

FORM FOR DETAILS OF ALL WORKS OF SIMILAR CLASS COMPLETED DURING THE LAST 07 (SEVEN) YEAR

(I.e. FOR THE YEAR ENDING MAR 2024)

S. No.	Name of Work/ Project	Location	Owner or Sponsoring Organization	Cost of Work in Lakhs	Date of Commencement as per Contract	Stipulated date of Completion	Actual date of Completion	Litigation/ Arbitration pending/ In progress with details	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1.									
2.									
3.									
4.									
5.									
6.									
7.									

(Authorized Signature of the Bidder with Seal)

Appendix `B`
FORM FOR DETAILED INFORMATION BY BIDDER

Name of Firm/Contractor/Supplier	
Complete Address and Telephone Number	
Name of Proprietor/Partner/Managing Director/Director	
Phone Number	
Mobile Number	
e-Mail ID	
Name and address of service centre nearby Bhubaneswar	
Whether the firm is a registered Firm (Yes/No. Attach Copy of Certificate)	
PAN Number (enclose the attested copy of PAN Card)	
Service Tax Number. (enclose the attested copy of Certificate)	
GST Number (enclose the attested copy of Certificate)	
Whether the firm has Uploaded the Bank Draft/Pay Order/ Banker's Cheque of Earnest Money Deposit (EMD).	
Whether the Firm/Agency as signed each and every page of Tender/NIT	
EPF No. (Enclose the attested copy of EPF Registration Certificate)	
ESI Code.	
Any other information, if necessary.	

(Authorized Signature of the Bidder with seal)

All India Institute of Medical Sciences
Engineering Branch, Bhubaneswar (Odisha)-751019 www.aiimsbhubaneswar.edu.in
Percentage Rate Tender / Item Rate Tender & Contract for Works

E-Tender for the work of: "SITC of of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar".

To be submitted online by:

- (a) Time and date of online Opening of Technical Bids. : **05/07/2024 at 15:30 Hours**
(b) Time and date of opening of Online Financial Bids. : **To be intimated later through website.**

T E N D E R

I/We have read and examined the notice inviting tender, schedule along with Appendices 'A' to 'B' as per Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

If I/We, fail to furnish the prescribed Performance Guarantee within prescribed period, I/We agree that the said Executive Director, AIIMS, Bhubaneswar or his successors, in office shall without prejudice to any other right or remedy, be at liberty to debar me for 01 (One) year. Further, if I/We fail to commence work as specified, I/We agree that Executive Director, AIIMS, Bhubaneswar or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to suspend me for one year. The said performance guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in the tender form. Further, I/We agree that in case of non-submission of Performance Guarantee as aforesaid, I/We shall be debarred for participation for one year in the tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of AIIMS, Bhubaneswar, then I/We shall be debarred for tendering in AIIMS, Bhubaneswar in future forever. Also, if such a violation comes to the notice of AIIMS, Bhubaneswar before date of start of work, the Administrative Officer shall be free to forfeit the entire amount of Performance Guarantee. I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated: * _____

Signature of Contractor(s)
with full Postal

Address

Witness: *

Address: *

(* To be filled in by the Contractor.)

GENERAL CONDITIONS FOR SPECIALIZED ELIGIBLE AGENCIES

1. **Site Visit:**

Bidders are strongly advised to inspect and assess the site conditions and its surroundings at their own cost and satisfy themselves before submitting their bids. The prospective bidders are advised to depute their technical experts with authorization letter to visit, assess and examine the conditions, requirements, nature & quantum of work and locations of installations which may be necessary for the purpose of bidding and submit a realistic offer for the successful execution of the work. In general, they shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A Bidder shall be deemed to have full knowledge of the site whether he/she inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. Bidders shall submit a realistic offer for the execution of the work at their own cost without any liability on AIIMS, Bhubaneswar. Submission of a bid by a bidder implies that he/she has read the Tender document and has made himself / herself aware of the terms & conditions and scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of work.

2. The Contractor has to ensure safety and provide adequate supervision/precautions and shall ensure that the workmen engaged by him are professionally competent and have the required expertise to carry out the intended work.

3. During working at site, some restrictions may be imposed by Engineer-in-Charge/Security staff of Institute or Local Authorities regarding safety and security etc., the contractor shall be bound to follow all such restrictions/instruction & nothing extra shall be payable on this account & no claim for delay on this account shall be entertained.

4. The tender shall be based on Conditions of Contract and tenderers are required to quote their own rates against the schedule of quantities (B.O.Q), which is enclosed. All rates shall remain firm for the contract period/extended contract period.

5. If the contractor fails to proceed with the work within the stipulated time as specified from the date of issue of work order to proceed with the work, it shall be treated as failure on the part of the Contractor to discharge the Contractual obligations which may result in termination of the contract and forfeiture of the Security Deposit.

6. All the works to be carried out in accordance with latest CPWD/BIS Specifications and as per the directions of Engineer-in-charge.

7. **Packing:**

The supplier shall provide such packing of the goods, as is required to prevent their damages or deterioration during the transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit.

8. **Drawing and Specifications:**

A copy of tender documents and all relevant drawings and specifications viz. Indian standards, latest CPWD specifications etc. shall be made available at site if & when asked for reference.

9. **Cost of Tests:**

The cost of preparing samples and carrying out tests (if required) for quality of material or workmanship will be borne by the contractor except for such exclusions as are specifically mentioned in the specifications laid down in contract. The cost of all test carried out by Laboratories directed by the Engineer-In-Charge will be borne by the contractor.

10. The work shall be carried out strictly as per the attached technical specifications, relevant IS specifications.

11. The contractor has to get approved all the material from the Engineer-in-Charge before its actual use at site of work.
12. The scope of work includes all minor civil works required for execution work such as cutting of wall etc. and making good the same. Nothing extra will be paid to contractor for the same.
13. The watch and ward of material and installation shall rest on the part of contractor during execution of work and till handing over of the same after completion of work in accordance with schedule of work.
14. The contractor will take care of the building etc. while handling / installing the equipment to avoid damages to the building. If any damages occur during execution of work, it shall be made good by contractor without any extra cost.
15. Existing materials (if any) on good condition may be used after joint inspection by Engineer-in charge & AIIMS representatives & vendor.
16. Dismantling of non-used materials to be deposited at Engineering Dept. by the Firm.
17. For all items; CPWD specifications with correction slips up to the date of receipt of tender shall be followed. For the items which are not covered under CPWD specifications; the special conditions/B.I.S. specifications shall apply. In this regard the decision of Engineer-in- charge shall be final & binding.
18. Wherever any reference is made of any Indian Standard, it shall be taken as reference to the latest edition with all amendments / revision issued thereto up to the date of receipt of tenders.
19. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contractor shall be bound to follow all such restrictions and adjust the program for execution accordingly, for which nothing extra shall be paid.
20. The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, Labour Laws, minimum wages act, workmen compensation act and other statutory laws enact by Central Govt. as well as State Govt.
21. No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall not be allowed to erect any temporary set up for staff in the campus.
22. No claims of the labours shall be entertained by the department including that of providing employment, regularization of services etc.
23. All T&P, ladders, Hydra, Scaffolding etc, electrical instruments for execution of internal electrification work, required for execution of the work shall be arranged by the contractor.
24. Staff employed by the contractor should be well behaved, polite & courteous. Any complaint against staff should be taken very seriously and such staff should be removed by the contractor immediately from the site and replacement shall be provided immediately.
25. All dismantled material will be removed from site by contractor after verification of measurement of the same by JE and Chases, holes & drilling works etc. shall be done using power operated tools in the cost of Contract. No extra will be paid for the same.
26. The contractor shall make all safety arrangement required for the labour engaged by him at his own cost. All consequences due to negligence or due to lapse of security/safety or otherwise shall remain with the contractor. AIIMS Bhubaneswar will not be responsible for any mishap, injury, accident or death of the contractor's staff. No claim in this regard shall be entertained / accepted by the AIIMS Bhubaneswar. Also, Contractor is responsible to the damage caused to any man/material/ Govt. property by his or his labour during execution of work and this should be rectified by the contractor at his own cost.

27. For non-compliance or partial compliance of satisfactory execution of items, the Engineer-in-charge reserves his rights to levy compensation in accordance with the scale of non-conformity and the period for which this non-conformity continues. However, the total amount of this compensation for the whole contract shall not exceed 10% of the tendered value of this contract. This shall be without prejudice to other remedies available to Engineer-in-charge under this contract to act against the contractor.
28. The materials used for carrying out the work shall be of best locally available quality and the contractor has to carry out the necessary testing of the material as ordered by the Engineer-in-Charge for its conformity and all testing charges shall be borne by the contractor.

RESPONSIBILITY OF THE CONTRACTOR

29. The contractor shall be primarily responsible for successful supply, installation, testing, commissioning, for arranging OEM warranty for products, defect liability and comprehensive maintenance of MOT installations for 5 (Five) years (1 years DLP and thereafter 4 years CAMC) from the date of completion of the work and handing over to the department.
30. The MOT firm shall execute complete work including submission of layout drawings, walk-through view and working drawings. If stand-alone MOT work is to be executed in an existing building, the Auto-CAD or PDF or hard copies of building layout drawings will be provided by the hospital / department for preparation of MOT drawings.
31. The contractor shall provide dedicated UPS power supply (if included in NIT) and dedicated earthing for MOTs as per scope of work defined in NIT. The earthing shall conform to CPWD Specifications.
32. The contractor shall carry out necessary modification in civil and electrical components, peripheral lighting, plumbing, air-conditioning system (ducting inside the MOT), demolition and other works as may be required for complete installation and trouble-free functioning of the MOTs.
33. The MOT firm shall coordinate with fire-safety (Fire Alarm & Fire Fighting) firm for installation of fire-safety sensor/instrument inside the MOT.
34. The MOT firm shall coordinate with MGPS and other firm for the successful completion of MOT.
35. The MOT firm shall cooperate for installation and commissioning of other medical equipment (like integration equipment, monitors, etc.) in coordination with hospital authorities, respective firm and the department.
36. The MOT firm shall successfully complete installation, testing and commissioning of all MOTs along with all equipment included in the scope of MOT work as per technical specifications of MOT.
37. The MOT firm shall provide ducting inside the MOT and its interconnection with outside HVAC system. Control cabling from AHU to OT control panel and associated sensors shall be provided by the MOT firm for controlling temperature and RH inside the MOT.
38. The MOT firm shall provide factory test certificates for the materials/ equipment used for the construction of modular OT.
39. The MOT firm shall supply complete set of manuals for all the systems and sub-systems.
40. The MOT firm shall arrange at his cost on-site training of consignee/user for a week by original equipment manufacturer (OEM), wherever required for operational aspects.
41. Final electrical safety test, system test, and calibration shall be done as per required standard by authorized persons using calibrated test equipment, and declaration to this effect shall be submitted by the MOT firm.
42. Outlets of the anaesthesia and surgeon pendants shall match with the existing outlet, if any, in the same building/block. These outlets shall be BIS/European CE certified with 4 digit notified body number/US FDA/ETL/UL listed/certified.
43. The MOT firm shall execute all the HVAC, electrical, and other works as per CPWD Specifications as per scope defined.

44. All queries/clarifications along with pre-installation requirements shall be submitted before pre-bid meeting.
45. The contractor shall supply only new, unused material/goods complying with the NIT specifications. The department reserves the right to accept the item satisfying the NIT conditions having improvements in design and materials in the work.
46. In the case of discrepancy between the schedule of quantities, the Specifications and/or the Drawings, the following order of preference shall be observed: -
- (a) Description of schedule of quantities (B.O.Q).
 - (b) General rules & Directions and General Conditions/ Special Conditions/CPWD Specifications.
 - (c) Indian standards specifications/BIS.
 - (d) Any reference made to any Indian standards specifications in these documents, shall imply to the latest version of that standard, including such revisions/amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.
 - (e) If there are varying or conflicting provisions made in any one document forming Part of contract, Engineering In-charge shall be deciding authority and regard to the intention of the document, his decision shall be final and binding on the Contractor.
47. **Warranty and CAMC**

The contractor shall be responsible for defect liability, OEM warranty of products and comprehensive maintenance of MOT installation for 5 (Five) years from the date of completion of the work through the same MOT firm and handing over to the department. Change of firm for CAMC, if required, shall be with the approval of department/ hospital/institute/ any other authority designated. The MOT firm shall be approved on the basis of work experience mentioned in eligibility criteria. The comprehensive maintenance of MOT installation includes complete MOT installations, labour, spares, all consumables and filters etc. In the case of MOT equipment, the comprehensive maintenance shall be done with back-to-back support from OEMs. In such cases, authorized agent of OEM shall reach the site within 24 hours of raising a service call. **A recovery of Rs.1,000/hours shall be made if complaint is not attended by the contractor within one day of lodging the complaint. The decisions of the Engineer-in-Charge shall be final and binding on the firm with respect to the imposition on overall penalty decision taking into view overall circumstances of the case.**

Comprehensively all the goods supplied under the contract shall be new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise 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 include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.
- b. The Comprehensive Annual Maintenance Contract shall include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.
- c. Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories and turnkey work and it will also cover the following, wherever executed in the contract: -
 - (i) All kinds of the wall panel doors, scrubs OT Light, MGPS line & terminal in MOT area, gauges, surgeon control panels, pendants, anaesthetic equipment, electrical installation, isolation panel, audio visual equipment camera and monitor etc.
 - (ii) Plastic & Glass Parts against any manufacturing defects.
 - (iii) All kinds of sensors, Motor etc.
 - (iv) All kind of laminar flow, HEPA filter periodic changes/validation as per NABH guidelines

31. The following shall be in the scope of the Bidder: -

Supplying, Installation, Testing and Commissioning (as applicable) of wall & ceiling panelling, PVC flooring, Lighting, Touch Screen Control Panel, laminar flow, pendants, OT Light, Painting, electrical work including earthing, doors, and all items indicated in the NIT etc. as per technical specification. All cable conduit, trenches and railings wherever required.

All electrical accessories like cable wire, electrical outlets, switches, Control panels, etc should be fire proof of reputed make, certified for electrical safety.

Provision of hatch box, storage shelves, scrub basins and other service areas as mentioned in the tender. Control cabling from AHU to MOT control panel and associated sensors.

Any other necessary work required for satisfactory working/performance of the modular OT and not mentioned/specified. And Comprehensive maintenance of MOT installations.

32. Integration, Co-ordination & Works with other services agencies: –

MOT firm has to share the MOT layout drawings to OT Integration firm /other firms as required for superimposing the OT integration system components and cables, before the commencement of manufacturing of MOT walls, ceilings, Pendants, etc.

MOT firm has to provide required cut-outs for power socket/Data cables/Patch Panel/etc. wherever marked by Integration firm/other firms in approved drawings by consignee/institute.

MOT firm has to make provision in ceiling for installation of OT Light as per approved drawings provided institute with dedicated electrical supply from DB to Ceiling.

Bidders are strongly advised to visit the site for assessment before the submission of tender offer. The layout of the OT floor area as attached with the NIT, if any, to be referred.

MOT firm has to integrate the HVAC installation inside the boundary of modular OT with main HVAC contractors i.e. duct work for supply air from dedicated AHUs of OT is in the scope of main HVAC contractor and ducting work inside the modular OT including laminar flow grill, HEPA filter and return air grill including duct work up to atmosphere shall be the responsibility of MOT contractor. HVAC design load of modular OT shall be taken care of by main HVAC contractor for which consideration shall be taken at the design stage.

33. RESPONSIBILITY OF CONTRACTOR FOR SITE MODIFICATION

The “Site Modification” work includes all modifications to the built-up space at the hospital site like civil works, electrical works, plumbing works, interior decoration, air conditioning ducting and other related works required for smooth and efficient functioning of the MOT. These works shall comply with all relevant safety and standards guidelines. The contractor shall be fully responsible for installation and commissioning of all equipment mentioned in the tender. Bidders are strongly advised to visit the site for assessment before the submission of tender offer.

**Executive Engineer (AC & R)
AIIMS Bhubaneswar**

SIGNATURE OF THE CONTRACTOR

Technical Bid (Eligibility Criteria)

The scanned copies of the following mandatory documents to be uploaded on e-Tendering Portal in the following format.

S.No.	Details/Particulars	Uploaded (Yes/No)	Page No.
(A)	Demand Draft, Bankers Cheque or Fix Deposit Receipt of any scheduled Bank against EMD in favour of AIIMS, Bhubaneswar		
(B)	Appendix `A to B' duly filled in (Pages 11 & 12 ref.) and signed with stamp.		
(C)	Certificates of Work Experience & Completion Certificate of Similar Work from Client not below the Rank of Executive Engineer or equivalent, as mentioned in Ser. No. - 4, Page No. - 6 refer under Eligibility Criteria		
(D)	Certificate of Registration for GST and acknowledgement, up to date filed return if required.		
(E)	Attested Copies of PAN Sheets		
(F)	Copies of Balance Sheets and IT return		
(G)	Copies of ESI Registration		
(H)	Copies of EPF Registration. (Latest submitted challan copy)		
(I)	The Bidder should have their Registered Office/Branch in Bhubaneswar. If not, an Office should be opened in Bhubaneswar within 30 (Thirty) Days of the award of Work. Details of Address Proof of Office located at Bhubaneswar should be given.		
(J)	Declarations to be given by the Tenderers (as per Page 05.)		
(K)	Each page of the e-tender documents should be duly signed with seal otherwise the bid shall become invalid.		

AFFIDAVIT

(To be submitted on Rs. 100/- Stamp Paper)

I/We hereby certify that, the above firm has not been ever blacklisted by any Central/State Government/Public Undertaking/Institute on any account.

I/We also certify that, Firm will supply the item(s) as per the specification given by Institution and also abide all the Terms & Conditions stipulated in Tender.

I/We also certify that, the information given in Bid is true and correct in all aspects and in any case at a later date, it is found that any details provided are false and incorrect, any contract given to the concerned firm or participation may be summarily terminated at any state, the firm will be blacklisted and Institute may impose any action as per e-Tender Rules.

"I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee".

Business Address: -

Name:

(Signature of Bidder with Firm's Seal)

Place: _____

Dated: _____

Annexure – I
FORM OF PERFORMANCE SECURITY (BANK GUARANTEE)

1. In consideration of the Executive Director, AIIMS, Bhubaneswar (hereinafter called “the Government”) having offered to accept the terms and conditions of the proposed agreement between and (hereinafter called “the said Contractor(s)”) for the work (hereinafter called “the said agreement”) having agreed to production of a irrevocable Bank Guarantee for Rs. _____ (Rupees _____ only) as a security/ guarantee from the contractor(s) for compliance of his obligation in accordance with the terms and conditions in the said agreement.

I/We (hereinafter referred to as Bank) hereby (Indicate the name of the Bank) undertake to pay to the Government an amount not exceeding Rs. _____ (Rupees _____ only) on demand by Government .

2. I/We do hereby undertake to pay the (Indicate the name of the Bank) amount due and payable under this Guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor (s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees _____ only).

3. I/We the said bank undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor (s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

4. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor (s) shall have no claim against us for making such payment.

5. I/ We further agree that the guarantee herein contained (Indicate the name of Bank) shall remain in full force and effect during the period that would be taken for the performance of the said agreement and it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid, and its claims satisfied or discharged, or till Engineer-in- charge on behalf of the Government, certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor (s) accordingly discharges this guarantee.

6. I/We further agree with the Government that the (Indicate the name of Bank) Government shall have the fullest liberty without our consent, and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor (s) and to forebear or enforce any of the terms and conditions relating to the said agreement & we shall not be relieved from our liability by reasons of any such variation or extension being granted to the said contractor (s) or for any forbearance, act of omission on that part of the Government or any indulgence by the Government to the said contractor (s) or by any such matter or thing whatsoever which under the law relating to sureties would , but for this provision, have effect of so relieving us.

7. The guarantee will not be discharged due to the change in the constitution of the Bank or the contractor (s).

We lastly undertake not to revoke this (Indicate the name of Bank) guarantee except with the previous consent of the Government in writing.

8. This Guarantee shall valid up to _____ unless extended on demand by Government, notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs. _____ (Rupees _____ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this Guarantee all our liabilities under the Guarantee shall stand discharged.

Dated the _____ day of _____ for _____

(Indicate the name of Bank)

Format for Agreement
(To be made on Rs 100/- Judicial Stamp Paper)

This Agreement is made at.....on this.....day of.....2024.

BETWEEN

Executive Director, AIIMS, Bhubaneswar represented through Superintending Engineer, AIIMS, BHUBANESWAR,, (Hereinafter referred as the) (Address) “**Principal/Owner**”, which expression shall unless repugnant to the meaning or context hereof include its success or sand permitted as signs)

AND

..... (Name and Address of the Individual/firm/Company) through..... (Hereinafter referred to as the (Details of duly authorized signatory)

“**Bidder/Contractor**” and which expression shall unless repugnant to the meaning or context hereof include its success or sand permitted as signs)

Preamble

WHEREAS, the Principal/Owner has floated the Tender (**NIT No: AIIMS/BBSR/ENGG/ACR/NIT/35**)

(here in after referred to as “**Tender/Bid**”) and intends to award, under laid down organizational procedure, contract for: “**SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar.**” hereinafter referred to as the “**Contract**”.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the Land, Rules & Regulations, Economic use of resources and of fairness/ transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter to this Agreement (hereinafter referred to as “**Pact**”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, inconsideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under: -

Article - 1: Commitment of the Principal/Owner.

1. The Principal/Owner commit itself to take all measures necessary to prevent corruption and to observe the following principles:

- (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender processor the Contract execution.
- (c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC)/Prevention of Corruption Act, 1988 (P C Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform

the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article - 2: Commitment of the Bidder(s)/Contractor(s)

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standard and makes, and report to the Government/Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

2. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution: -

(a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind what so ever during the Tender process or during the execution of the Contract.

(b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

(c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

(d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

(e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to, or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may be fall upon a person, his/her reputation or property to influence their participation in the tendering process).

Article - 3: Consequences of Breach.

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right: -

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article-2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may before vigour for a limited period as decided by the Principal/Owner.**
2. **Forfeiture of EMD/Performance Guarantee/Security Deposit :** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contractor has accrued the right to terminate/determine the Contract according to Article-3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
3. **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article - 4: Previous Transgression.

1. The Bidder declares that no previous transgressions occurred in the last 05 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender processor action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.
3. If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/ Owner may, at its own discretion, revoke the exclusion prematurely.

Article - 5: Equal Treatment of all Bidders/Contractors/Sub-contractors.

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all sub-contractors a commitment in Conformity with this Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
2. The Principal/Owner will enter in to Pacts on identical terms as this one with all Bidders and Contractors.
3. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article-6 : Duration of the Pact.

- a. This pact begins when both the parties have legally sign edit. It expires for the contract/ vendor 12 months after the completion of work under the contract till the continuation of defect liability period. Whichever is more and for all other bidders, till the contract has been awarded.
- b. If any claim is made/ lodge during the time, the same shall be binding and continue to be valid despite the lapse of his pacts as specified above, unless it is discharged/ determined by the Competent Authority, AIIMS, Bhubaneswar.
- c. All the work shall be completed within ----- months from the date of issue of work order by the institute (from dt. ----- to dt. -----)

7. Term & Conditions of Payment

- a. It will be mandatory for the bidders to indicate their bank account number and other relevant e-payment details so that payment could be made through RTGS/ Other mechanism. The running payment for the work done shall be released by AIIMS, Bhubaneswar. The vendor shall submit the documents along with the bill as per **NIT Clause No.26 (General Rules & Directions)**.
- b. Security Deposit @ **2.5%** will be deducted from the running bills, which shall be released after six months from the date of completion of work, without any interest thereupon.
- c. The Income Tax as application shall be deducted from the bills unless exempted by the Income Tax Department.
- d. Labour CESS @ 01% will be deducted from the Bill.
- e. If water is used from the AIIMS, Bhubaneswar, then water charges will be deducted @1% of the bill amount.
- f. Electrical charges as per actual meter reading shall be deducted from the bill. If connection is taken directly without installation of meter with prior permission from Executive Engineer (Electrical), then amount as per the usage shall be deducted from the gross bill amount as suggested by Executive Engineer (Electrical).
- g. **Final bill Payment:**
The 100% payment will be released after due verification of Final bill by Engineer-in-charge or his representative after completion of work.
- h. **Penalty Clause:**
Penalty: If the contractor fails to complete the work on or before the stipulated date, then a penalty at the Rate of 1.0% per month of delay to be computed on per day basis of the total order value shall be levied subject to maximum of 10% of the total order value.

Article - 8: Other Provisions.

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Bhubaneswar of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been unmade.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. Should one or several provisions of this Pact turnout to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Agreement/Pact, any action taken by the Owner/Principal in accordance with this **Agreement/Pact or interpretation thereof shall not be subject to arbitration.**

Article – 9 : LEGAL AND PRIOR RIGHTS.

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Pact.

IN WITNESS WHEREOF the parties have signed and executed this Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(Signature, Name and address)

2.
(Signature, Name and address)

Place:

Dated:

Technical Specifications for Modular Operation Theatre

A	<p>Walls panels system</p> <p>The prefabricated Operating Room shall be of SS Sandwich as per its latest standards. Cladding structure shall consist of insulated stainless-steel wall panels with total panel thickness between 50-60 mm. It shall be 0.8 mm thick, 304 grade stainless steel sandwich panel (both side 0.8 mm thick sheet), with core consisting of rigid polyurethane foam injected under high pressure with a minimum density of 40 kg/m³. The individual wall panels shall use the tongue and groove/suitable technology for joining two panels. No welding shall be allowed.</p> <p>It shall have minimum number of junctions. The gaps between panels shall be suitably filled with metal filler/epoxy and sanded flush.</p> <p>Stainless steel plate shall be finished to fine grain surface, and treated properly to take antifungal paint. Paneling shall be easy to maintain, durable, antistatic/conductive and fire retardant. Clearance between inner panel and outer wall shall be sufficient to allow the maintenance personnel for service. This closed space shall be flushed continuously to eliminate dust and bacterial accumulation.</p> <p>Anti-bacterial paint shall be coated on the wall. Bidder shall maintain anti-bacterial paint during warranty and comprehensive maintenance period. Wall elements shall be resistant to all standard cleaning agents, disinfectants and fumigation agents. Panels shall be covered with protective sheath to prevent scratch during installation.</p> <p>The wall panels shall be CE/UL/ETL/US FDA/BIS/DIN 1.4301 certified/listed. Third party test certificate for SS from Government authorized material testing laboratory shall be provided at the time of pre-dispatch inspection/supply.</p> <p>Wall Corner: Angular corners made with a 130°-140° angular modular element with the same finish of the wall panels. Such unit is internally completed by a stainless-steel recovery duct formed by a single sheet/SMS, perfectly integrated and shelled in order to allow the correct element sanitization. A removable front panel allows both access to the canal behind either the regulation of the air flow between the lower and upper opening.</p> <p>Sealing Gaskets/Material: Should be non-toxic silicone rubber/material around all the contact perimeters between the various materials, and the hermetically sealed gaps between modules, should ensure optimum space segregation and ensure that sterile air pressure values are maintained in the protected environment, this being a fundamental prerequisite for guaranteed sterility. Should be seamlessly connected surface.</p>
B	<p>Ceiling Paneling System:</p> <p>The prefabricated ceiling plates/cassettes shall be made up of SS 304 panels with sheet thickness of at least 0.8 mm sandwich panel (both side 0.8mm thick sheet) of PUF with minimum density 40kg/m³, matte finished and coated with antibacterial paint. It shall be from the same manufacturer as that of wall panel. Total thickness shall be 30- 40mm.</p>
C	<p>Sterile Anti-bacterial Coating</p> <p>Anti-bacterial and Anti-fungus sterile coating will be applied on the SS finished walls & ceiling with at least 2-3 coats to achieve a thickness of minimum 200 micron. Before application of sterile coating an appropriate primer will be applied. The Primer will be supplied along with the paint and will be imported.</p> <p>The primer will be applied prior to coating of Anti – bacterial & Anti- Fungus Sterile paint on SS walls & ceiling. 2 to 3 coats will be applied to achieve a thickness of 200microns.</p> <p>Sterile coating and primer will be applied on the surface by air-less spray gun. Sterile coating will be to withstand with commonly used cleaners in the operation rooms and even withstanding with regular steam cleaning.</p>

D	Laminar Air flow system
	<p>The ceiling filtration system shall be designed to ensure unidirectional distribution of sterile air in the surgical theatre to ensure cleanliness of all the area covered by the airflow.</p> <p>The laminar flow system shall comprise of thick extruded aluminum profiles frame and sealed gasket. The filters installed in the plenum shall be suitable for application for laminar flow and clean rooms. These filters shall meet following specifications:</p> <p>Separators: continuous thermo plastic chord</p> <p>Sealant: Polyurethane</p> <p>Gasket: One-piece polyurethane</p> <p>MPPS average efficiency: > 99.95% 3</p> <p>Micron DOP efficiency:> 99.99%</p> <p>Final pressure drops: 600 Pa(maximum)</p> <p>Maximum operating temperature: 60°Celsius</p> <p>RH: 40-50%</p> <p>The ceiling system shall be equipped with “H 14” class HEPA filters positioned in the ceiling to achieve 0.25 m/s flow at the diffuser.</p> <p>Filtration ceiling system holding structure, filter frames and top plenum shall be made of aluminum/stainless-steel.</p> <p>The filtration ceiling system shall have diffuser/flow equalizer to achieve uniform and constant air distribution over the whole surface. It shall be CE/US FDA/ETL/UL /BIS certified/listed.</p> <p>The air management system shall be designed to achieve class 100 cleanliness with the following parameters:</p> <p>Bacteriological class=B (5 CFU/m³)</p> <p>Particle decontamination kinetics CP=5-minute ISO 14644/1 or latest classification= ISO 5</p> <p>Third party validation shall be obtained from Government approved environment laboratory (after installation)</p> <p>Positive pressure shall be maintained inside the MOT to prevent contamination due to airfrom outside.</p> <p>The supplier shall provide test certificate for HEPA filter and laminar air flow systems from the original manufacturers.</p> <p>Size of laminar airflow system shall be minimum 8 feet X 8feet.</p> <p>It shall be CE/UL/US FDA/ETL /UL/ BIS certified/listed.</p> <p>Note: Prospective bidders are advised to coordinate with HVAC designer for information regarding CMH and AHU capacity. Total flow rate of filter bank shall match the CMH of AHU.</p>
E	PERIPHERAL LIGHTING AND CLEAN ROOM LUMINARIES (LED TYPE)
	<p>To provide peripheral lighting and clean room luminaries with illuminance of minimum 500 Lux. These shall be minimum 8 in numbers for each MOT and shall be with optical antiglare system.</p> <p>Luminaries cover shall be made of highly resistant, disinfectant proof laminated safety glass/acrylic with stylish fine-grained surface.</p> <p>The white luminaries' body shall be made of sheet steel/perfectly powder coated.</p> <p>Recess frames shall be airtight. The fitting shall be flush with the ceiling and shall be removable from top or bottom. The light fitting shall be uniformly and aesthetically distributed on the ceiling to provide uniform illumination in the MOT. Light shall not interfere when green mode endoscopy is performed.</p> <p>Peripheral lighting shall be done according to IP 65regulations.</p> <p>Control equipment for the general lighting and the light dimming shall be provided in the theatre control panel.</p>

F	TOUCH SCREEN CONTROL PANEL: 30" or more
	<p>The control panel shall be touch screen panel. This control panel shall work as the central control panel for the HVAC controls, instruction board, touch screen and ON/OFF of MOT light. It shall be CE/US FDA/ETL/UL/BIS certified/listed.</p> <p>The touch screen shall be wall mounted, stationed in the visibility line of the surgeon and MOT staff. The access height shall be convenient for the nurse to operate.</p> <p>The panel shall accommodate digital clock and the elapsed time indicator.</p> <p>The medical gas alarm shall indicate high and low gas pressures for each gas service (except for vacuum, for vacuum it shall be normal or low) present in the MOT including vacuum. This shall be supported by audible alarm also. The panel shall have an alarm mute (fault annunciation) facility. The sensors (pressure switches) shall be at the nearest isolation valve.</p> <p>It shall have control for general lighting: ON/OFF and dimming controls organized in groups to provide uniform illumination.</p> <p>On/Off operation of the operating light (major and satellite) shall be provided. Hands free telephone set with memory shall be located at inside.</p> <p>Temperature and humidity control for the room connected to the AHU (adjustable from the panel) shall be provided. There shall be a provision of MOT temperature adjustment from the controller (temp adjustment of +/-5°C to be achieved within 5 minutes) wherever separate AHU is provided for each MOT.</p> <p>Digital room pressure indicator in cm of H₂O or equivalent shall be provided (signal from pressure sensor shall be provided to indicate pressure differential between MOT and outside).</p> <p>HEPA filter bank differential pressure indicator shall be provided.</p> <p>The Control Panel shall be able to be integrated with HIS (Hospital Information System)/BMS.</p> <p>The Control Panel shall be able to display the Isolation Panel Alarm Conditions along with MGPS Alarms.</p>
G	X-RAY FILM VIEWER
	<p>LED type flat panel X-ray viewing panel shall be flicker free. This shall comply with relevant electrical safety codes.</p> <p>Mounting shall be flush with the wall to avoid dust accumulation and growth of organisms between wall and panel.</p> <p>The body shall be of extruded aluminum powder coated with bacteria resistant and disinfectant resistant finish.</p> <p>The diffuser on the front panel shall be a uniformly lit screen.</p> <p>Dimming electronic control shall be enclosed at the bottom of the cabinet.</p> <p>Proper spring-loaded film clip with rollers/holding button shall be provided to hold the films firmly and to remove the film without scratches.</p> <p>It shall consist of dual panel viewing screen (14"x17" each).</p>

H	PVC FLOORING WITH SELF LEVELING
	<p>Suitable self-levelling shall be done before PVC flooring to avoid undulation within the MOT.</p> <p>It shall be minimum 2 mm thick anti-static seamless PVC flooring.</p> <p>Floor shall be smooth, non-slip, impervious material conductive enough to dissipate static electricity but not conductive enough to endanger personnel from electric shock.</p> <p>Continuous roll of PVC flooring shall be used and joints shall be welded by special PVC thermal welding units using PVC welding bars of same colour.</p> <p>The sheets shall be highly durable and resistant to shock, scratch and indentation. The conductive material shall be uniformly impregnated as grains.</p> <p>It shall be inert to body fluids, chemicals and disinfectants and shall not be affected by temperature variation within the OT.</p> <p>The floor shall efficiently discharge electric charges up to 2kV.</p> <p>Flooring shall be done by skilled workers of accredited agencies authorized by the supplier of PVC sheets. The electrical resistance (point to ground) shall be within 2.5×10^4 to 5×10^6 Ohms. The floor shall not allow build-up of electrical charge beyond 100 Volts due to antistatic effect. The corners shall not be terminated sharply and concealed cove-former (aluminum) shall be used to overlap the wall panel to a height of approximately 25 mm and sealed perfectly and uniformly. Self-levelling compounds shall be used.</p> <p>The conductive copper grid laid underneath the PVC sheet shall 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 shall project more than 0.5mm above level surface to avoid damage to the PVC sheet. One earthing lead shall be brought out from every 150 sqft area and attaching it to the main earthing strip/ground.</p> <p>Copper grounding strips (0.5 mm thick, 50 mm width) shall be laid flat on the floor in the conductive adhesive and connected to copper strip of grounding. The connection from copper grid shall be brought out uniformly at places to form equipotential grid.</p> <p>Flooring shall be mechanically shock proof, scratch proof, flame retardant and antimicrobial.</p> <p>Corners shall be uniformly curved.</p> <p>Colour shall be uniform, pleasant and matching with ambience and as approved by the department.</p>
I	HATCH BOX
	<p>It shall be provided in each operation theatre to remove waste materials from the operation theatre to dirty linen area/corridor just adjacent to MOT.</p> <p>Each hatch box shall be equipped with two doors and the doors shall be operated electrically/motorized.</p> <p>The hatch shall be designed in such a way that only one door shall be openable at one time.</p> <p>The UV light shall 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.</p> <p>Indicators shall be provided on both sides of the MOT so that door open/close status can be monitored from both sides.</p> <p>Hatch Box material shall be SS 304 grade.</p> <p>Length and width of the hatch box shall be minimum 600mm x 600mm</p>

J	SCRUB STATION (minimum size 1500mm)
	<p>Compact surgical scrub sink shall be designed for use in MOT complex for pre-procedural scrub. Double sink combination shall be provided.</p> <p>Each fixture shall be fabricated from heavy gauge type 304 stainless steel (minimum thickness 1.5 mm) and shall be of seamless welded construction, polished to a satin finish. The scrub sink shall be provided with a front access panel which shall be easily removable for access to the water-controlled valve, waste connections, stopper sands trainers.</p> <p>Hands free operation shall include infra-red sensors with programmable adjustment.</p> <p>Thermostatic mixing, valve control shall be located behind the access panel and it shall maintain constant water temperature.</p> <p>Timing shall be adjustable to meet individual application requirements.</p> <p>It shall be provided with infrared sensors; thermostatic control taps with fail safetemperature controls. All units shall have reduced anti- splash fronts. Knee/foot operated switch shall be provided additionally.</p>
K	HERMETICALLY SEALED DOORS
	<p>Door sizes shall be as per below option and quantities will be as per BOQ Hermetically sealed doors size: 2.1 m x 2 m with Lead Line (As per AERB Norms) These shall be hermetically sealed, single sliding doors.</p>
	<p>The controller shall be capable of being operated by elbow switches/foot switches as well as touch less sensor.</p> <p>The track and its cover shall be in single piece of stainless steel/aluminum and the running surface for the top rollers shall be suitably angled to reduce resistance to movement.</p> <p>The door leaf shall be hung by means of hard plastic rollers of high quality with double bearing at the top. Rollers shall be provided under the stainless steel/aluminum track to enable smooth and noiseless movement.</p> <p>Opening and closing of the door shall be microprocessor controlled electro-mechanical movement.</p> <p>The door material shall be of SMS/ HPL. Colour shall match the interior and care shall be taken to make the leaf strong and lightweight.</p> <p>One shall be able to open and close the door effortlessly in case of failure of automatic mechanism.</p> <p>Door opening handle shall be strong and sturdy. Material of the handle shall be of SS (gloss/matte finish). Door shall be provided with high quality cylindrical/ ESPG lock.</p> <p>Door leaf shall have high quality synthetic rubber gasket with long life to ensure hermetic sealing (to maintain air pressure differential) with air tightness of 99.99% at a pressure of minimum 75Pa.</p> <p>The finished floor on either side of the door shall be perfectly level (maximum permissible difference + 1mm).</p> <p>The overall thickness of the finished door shall be 50-60 mm. The inner part of the door shall be filled with CFC free polyurethane foam thickness of about 48 mm. (Sealed airtight to prevent further ingress of any microbial organism).</p> <p>The door and controls shall comply with IEE regulation. All motors used shall be DC brushless/PMDC motors with essential isolation from mains.</p> <p>Door shall be with vision window 300 mm x 300 mm with double glazed panels and hermetically sealed. Door movement shall have minimum noise.</p> <p>The starting time after receiving the signal shall be adjustable between 0.5 to 10seconds. The door controller shall be CE marked.</p>

	Test certificate for hermetically sealed door frame (factory test certificate) shall be closed with the pre-dispatch documents.
L	MOT LIGHT WITH CAMERA
	<p>MOT light –LED MOT surgical lighting system shall provide an ideal combination of brightness, manoeuvrability and shadow resolution without sacrificing colour and accuracy through a consistent LED technology. Such lighting system shall have the following technical specifications: Number of light heads: Two Colour temperature range: 3800oK to 5000oK (±10%)-Variable colour temperature. Field size diameter: 20 to 28cm (+/-10%) Working range: 750 to 1100mm (+/-10%) Illumination level: minimum 160,000 lux (both for major dome and minor dome separately) Controls: control panel (two: one on the wall and other on dome) HD Camera System – 1080p/i Description: Integrated in-light camera system shall be integrated at the centre of one of the domes of this lighting system/third arm in order to capture images and video sequences of the open cases. Such a autofocus–lockable camera shall have the following specifications – a. Signal to noise ratio (S/N Ratio): >50 dB b. CCD/CMOS: 1/3” or 1/2.8” c. Optical zoom: 10X d. Digital zoom: 12-15X e. Video output: HD, DVI, S-video and composite video f. White balance and gain: Automatic/Manual g. MOT light and Integrated Camera shall have a control through touch panel of the control equipment placed inside the operating room.</p>
M	RECORDING SYSTEM and PACS (picture archiving & communication system) monitor
	<p>Recording system shall be offered separately. Recording system shall be having one TB storage space. Data cable for communication from both pendants and monitors shall be laid down up-to outside of MOT in a patch port for future expansion for all MOTs where there is no integration. Patch panel for power and signal shall be laid down for 48-inch LED monitor at wall of MOT. Recorder shall be capable of recording video from other sources like microscopes, endoscopes etc., suitable provision for the same shall be made. Monitor: It shall be medical grade monitor. Its size shall be minimum 48 inch. It shall be integrated with hospital PACS. The MOT firm shall do the necessary coordination with hospital authorities for connecting the PACS monitor to the hospital PACS. If hospital/institute PACS is not available, MOT firm shall terminate all PACS monitor connection to switch located in MOT corridor for further connection by the hospital. Monitor shall be flush mounted with suitable frame in MOT wall. Frame shall be openable/serviceable for service.</p>

N	HD LED Flat Panel Monitor
	<p>It shall be 30-32" medical grade high-definition progressive scan flat-panel monitors with ceiling mounted spring arm suspension to support high definition/HDTV progressive scan images and shall be able to support and display DVI/HDTV, RGBHV, S-video, composite video signals. Aspect ratio 16:9/16:10. Resolution: 1920X1080 or better. It shall meet IP 54 regulations.</p> <p>The flat panel suspension shall 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 apivore solution/signal.</p> <p>Monitor shall be capable of displaying from other sources like endoscope, microscope etc. Necessary provision for the same shall be made.</p>
O	PENDANTS FOR ANESTHETIST
	<p>Double arm moveable pendant for Anesthetist</p> <p>The pendants shall comply with NFPA 99C/HTM 02-01/DIN/EN/ISO 7396-1 as amended up to the last date of receipt of tenders. The support arms shall be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position.</p> <p>It shall have double moveable arms (any combination) with total coverage of minimum 1800 mm and minimum 330°. Each arm shall have ability of horizontal movement. Vertical movement shall be motorized and the arm height shall remain at a height greater than 6 feet above floor level.</p> <p>Weight carrying capacity of the arm shall not be less than 180 kg and it shall have electromagnetic brakes.</p> <p>Each arm shall be capable of minimum 330° of rotation, which can be easily adjusted to suit the desired mode of operation.</p> <p>The pendant shall be European CE Certified with 4 digit notified body number/US FDA/ETL/UL/BIS certified/listed.</p> <p>The Pendant Service Heads shall be modular with minimum 800mm head. The heads shall be capable of accepting a range of shelves, infusion poles, electrical switch/sockets, gas outlets and other required accessories. The Pendant Heads shall support the range of Physiological Monitor Mounting Solutions.</p> <p>The Pendant Service Heads shall be supplied with medical gas terminal units and 5A/15A or 6A/16 A hybrid sockets.</p> <p>Pendant shall be supplied with outlets and probes as mentioned below.</p> <p>Oxygen outlets: 2 number Vacuum outlets: 2 number Nitrous oxide outlet: 1 number Air (4 bar) outlets: 2 number AGSS outlet: 1 number Electrical sockets: 10 number Adjustable shelf with two rails one on each side: 3 number IV Fluid Pole with 4 hooks: 1 number Data socket RJ-45: 2 number Pendant supplier shall provide cut-outs for Patch Panels in Integrated OTs (only for integrated OT). Anesthetist pendant shall have NIST connection for all gases to connect the MGPS system.</p>

P.	<p>PENDANTS FOR SURGEON</p> <p>The Pendants shall comply with NFPA 99C/HTM 02-01/DIN/EN/ISO 7396-1 as amended up to the last date of receipt of tenders. The support arms shall be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position.</p> <p>Double moveable arms (any combination) with total coverage of min 1800 mm and minimum 330o. Each arm shall have ability of horizontal movement. Vertical movement shall be motorized and the arm height shall remain at a height greater than 6.5 feet above floor level.</p> <p>Weight carrying capacity of the arm shall not be less than 180 kg. It shall have electromagnetic brakes.</p> <p>Each arm shall be capable of minimum 330o of rotation, which can be easily adjusted to suit the desired mode of operation.</p> <p>The pendant shall be European CE Certified with 4 digit notified body number/US FDA/ETL/UL/BIS certified/listed under medical devices directive.</p> <p>The Pendant Service Heads shall be modular with minimum 800 mm head. The heads shall be capable of accepting a range of shelves, infusion poles, electrical switch/sockets, gas outlets and other required accessories. The Pendant Heads shall support the range of Physiological Monitor Mounting Solutions. The Pendant Service Heads shall be supplied with medical gas terminal units and 5A/15A or 6A/16 A hybrid sockets.</p> <p>Pendant shall be supplied with outlets and probes as mentioned below. O₂ and MA4: One each</p> <p>Vacuum outlets: 2 number Air (7 bar) outlet: 01 number</p> <p>CO₂ outlet: 01 number</p> <p>Electrical sockets: 10 number</p> <p>Adjustable shelf with two rails one on each side: 3 number</p> <p>Data socket RJ-45: 2 number</p> <p>IV Fluid Pole with 2 hooks: 1 number (Pole shall be capable of stacking 4 syringe pumps)</p> <p>Nitrous oxide outlet: 1 number</p> <p>Pendant supplier shall provide cut-outs for patch panels in integrated OTs (only for integrated OTs).</p> <p>Surgeon pendant shall have NIST connection for all gases to connect the MGPS system.</p>
Q	<p>PRESSURE RELIEF DAMPERS (PRDs)</p> <p>Pressure relief dampers or over flow ports shall be provided in each room to prevent contamination of air from clean and dirty areas.</p> <p>Suitably sized air pressure relief damper shall be strategically placed, enabling differential room pressure to be maintained when doors are opened between clean and dirty areas.</p> <p>Counter-weight balancing system shall be provided in the PRD to maintain positive pressure inside the operation room.</p> <p>Air pressure stabilizers shall have unique capability of controlling differential pressure to close tolerance. The PRD shall remain closed at pressure below the set pressure and shall open fully at a pressure only fractionally above the threshold pressure.</p> <p>The frame, body and blade shall be of grade SS 304 stainless-steel.</p>
R	<p>OPERATING LIST BOARD</p> <p>It shall be made of ceramic having magnetic properties and shall be flushed to the wall of the MOT</p> <p>Writing Board as operating list Board of size- 1000x700x60 deep</p>

S	STORAGE UNIT
	<p>The storage unit shall be made with at least 0.8 mm thick SS 304 stainless steel panels. The shelves shall be of SS 304 stainless steel and removable for cleaning.</p> <p>The storage unit shall be divided in 2 or more parts and each part shall have individual glass doors with high quality locking system.</p> <p>The overall size shall be 200 cm X 120 cm X 35 cm (approximately).</p>
T	INTERNAL HVAC DUCTING & EXHAUST SYSTEM
	<p>The MOT firm shall execute all the HVAC ducting, return air grill and inter-connection for supply and return air inside the OT.</p> <p>All the ducting shall be of aluminum, insulated and shall conform to CPWD General Specifications for Heating, Ventilation and Air-Conditioning Works-2017 as amended up to the last date of receipt of tenders.</p> <p>The return air cabinets shall consist of an openable grill and shall be cleanable. These cabinets shall have suction from bottom and top also.</p> <p>Designed flow rate shall not be less than 1000 m³/hour. Distribution of exhaust air volume shall be divided between fluff strainers to maintain the required pressure within the theatre without causing turbulence.</p> <p>Return air exhaust cabinet shall be made from SS 304. Also, it shall match perfectly with the ceiling system aesthetically.</p> <p>Hangers will be provided to ducts & will be suspended by means of G.I. coated rod & these will not be more than 2.5 mtrs apart. Thermal insulation size 19mm for supply and 13mm for return of nitrate with aluminum foil for supply & return air ducts. Joints will be lapped with Nitrile tape for better insulation. (Inside OT & Till AHU only).</p>
U	Isolation Panel System (IPS)
	<p>Isolation Panel System of minimum 20 kVA capacity shall be provided for every operation theatre to ensure the safety of staff and patient. System shall have isolators provided through leakage relays etc., if required, according to IEC recommendation. This unit shall be EN/European CE/UL/BIS/FDA/ETL listed/certified. These systems are to be commissioned by specialists. It shall be medical grade isolation panel. It shall have fault detection feature.</p> <p>It shall be compliant to CEI 64-8/IEC 60364-7-710/BS 7671 Standard as amended up to the last date of receipt of tenders.</p> <p>It shall be compact and mountable on wall or flush on brick wall.</p> <p>Isolation panel system shall have facility to detect fault of leakage current for each circuit (minimum 12 circuits) and same shall be integrated with touch screen control panel of MOT and alarm status shall be displayed on the touch screen control panel.</p>
V	ELECTRICAL INSTALLATIONS
	<p>Earthed equipment bonding of all exposed metalwork shall be provided.</p> <p>Power sockets within the Operating Theatres ancillary areas shall be matched to the rest of the hospital.</p> <p>Each wall of MOT shall have minimum 02 number 6A/16A hybrid switch sockets. One 32A</p>

	<p>industrial socket shall also be provided at any two walls as per IEC standard.</p> <p>Light fittings within the clinical areas shall be recessed LED type with control gear. Fittings shall conform to IP 65 regulations.</p> <p>All equipment shall be fully and permanently labelled to identify and describe the function, operation and voltage of the apparatus concerned. Upon completion of the electrical installation, tests in accordance with relevant sections of the local wiring regulations shall be carried out and the results recorded.</p> <p>All switch sockets should be of Anti-bacterial type.</p>
W	MEDICAL GAS PIPE LINE INSTALLATION
	<p>The MOT firm shall ensure that MGPS works inside the MOT are carried out as per HTM 02-01/NFPA 99C/DIN/EN/ISO 7396-1 as amended up to the last date of receipt of tenders.</p> <p>The MOT firm shall provide oxygen, air, vacuum, AGSS and nitrous oxide pipe line connections from the existing lines terminated outside the MOT.</p> <p>The MOT firm shall do installation, testing and commissioning of complete MGPS system inside the operation theatre including distribution piping, pendants, outlets and other essential accessories.</p> <p>Terminal units shall 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.</p> <p>Each terminal unit shall be identified by the appropriate recognized name or symbol, colour, coding and shape as per HTM 02-01/NFPA 99C/DIN/EN/ISO 7396-1 as amended up to the last date of receipt of tenders. Outlets shall be European CE with 4 digit notified body number/UL/ETL/US FDA/BIS certified/listed/CDSCO Registered.</p> <p>Copper pipes shall be of solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe. All copper pipes shall be degreased and delivered capped at both ends. The pipes shall be accompanied with manufacturers test certificate for the physical properties and chemical composition. The copper pipe shall comply with EN 13348 as amended up to the last date of receipt of tenders. The Copper pipe shall be BIS Kite marked.</p> <p>Copper pipe must have reputed third party inspection certificate (eg. Lloyd's, TUV, SGS).</p> <p>Fittings shall be made of copper and suitable for a working pressure of up to 17 bar and especially made for brazed socket type connections.</p> <p>The copper fitting shall comply with EN 1254-1 as amended up to the last date of receipt of tenders.</p> <p>The brazing filler material shall comply with EN 1044 as amended up to the last date of receipt of tenders.</p>
X	Site Modifications
	<p>The MOT firm shall carry out following site modification works:</p> <p>Construction of 230 mm brick wall with plaster on both sides and paint matching the surrounding premises as per CPWD Specifications (Vol. 1 & Vol. 2) as amended up to the last date of receipt of tenders. Payment shall be made as per actual.</p> <p>Demolition of brick wall. Payment shall be made as per actual.</p> <p>75 mm thick cement concrete flooring for MOT.</p> <p>Any minor demolition, reconstruction, water proofing, necessary plumbing, anti-microbial painting, replacement of any door or windows within the MOT area shall be carried out by the MOT firm for successful installation and commissioning of MOT.</p> <p>All jobs such as providing cut outs, PRD, hatch, shifting and resizing of door/window up to 300 mm etc. with all minor repairing works inside the MOT area for successful completion of MOT works.</p>

	Comprehensive Maintenance
A	<p>The contractor shall be responsible for defect liability, OEM warranty of products and comprehensive maintenance of MOT installations for five years from the date of completion (1year warranty + 4-year annual maintenance) of the work through the same MOT firm. The comprehensive maintenance of MOT installations includes complete MOT installations, labour, spares, all consumables and filters etc. as required including the following. No additional cost can be claimed for any consumable or any spares or labours other than quoted value. All consumable products include the filter during the defect liability period is included in the cost of the equipment's.</p> <p>1-year warranty and defect liability period for whole installation will be reckoned from the date of successful handing over of MOT. During defect liability period comprehensive maintenance and rectification of all defects is to be carried out free of cost. Which includes</p> <p>All motors.</p> <p>Plastic and glass parts against any manufacturing defects.</p> <p>All kinds of sensors, coils, probes, PCB and transducers.</p> <p>Air-conditioners, HEPA filter periodic changes/Validation as per NABH or other guidelines.</p> <p>All kinds of painting, civil, HVAC, E&M part of equipment's and electrical work.</p> <p>Preventive maintenance including testing & calibration as per technical/service /operational manual of the manufacturer.</p> <p>MGPS installation inside the MOT.</p> <p>In the case of MOT equipment, the comprehensive maintenance shall be done with back-to-back support from OEM. In such cases, authorized agent of OEM shall reach the site within 24 hours of raising a service call.</p> <p>The MOT firm shall ensure uninterrupted service without compromising functioning of MOT/ICU.</p> <p>The MOT firm shall set-up a maintenance base in the vicinity of the hospital, to provide maintenance service of the entire MOT installations.</p> <p>If the performance of any individual equipment or system is not satisfactory, the same shall be replaced free of cost.</p>

	<p>If it is found that to meet the performance criteria, any extra equipment is required, the same shall be provided free of cost.</p> <p>All faults and their rectification shall be promptly intimated to the hospital.</p> <p>Any lacunae noticed in the functioning of the installation as a result of any design feature shall be rectified free of cost.</p> <p>Proper marking has to be made for all spares for identification like printing of installation and repair dates.</p> <p>On receipt of any complaint, the MOT firm shall, within 8 hours on a 24(hours) X 7 (days) X365(days) basis respond to take action to repair or replace the defective goods or parts thereof free of cost. The MOT firm shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the hospital/institute for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per tender conditions.</p> <p>Upon failure of the MOT firm to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hours) X 7 (days) X 365 (days) basis, the hospital/institute may proceed to take such remedial action(s) as deemed fit by the hospital/institute, at the risk and cost of the contractor without prejudice to right of Government to take other remedial actions under the agreement.</p> <p>The remedial measures undertake by the AIIMS in terms of any financial measure or administrative measure in binding on all the agencies on account of failure to respond to attend the defect in time.</p> <p>The contractor/MOT firm along with the Indian agent of the manufacturer shall ensure continued supply of the spare parts for the machines and equipment supplied by them for 5 years from the date of completion of the work.</p> <p>The payment of comprehensive maintenance will be made on six monthly basis after satisfactory completion of said period duly certified by end-user.</p> <p>The contractor shall ensure regular updates of newer technology as and when evolved during warranty period for all the equipment.</p> <p>The contractor shall deposit performance guarantee @ 5% of the value of the comprehensive maintenance contract before commencement of comprehensive maintenance, which shall be held by the hospital/institute till completion of comprehensive maintenance period.</p>
B	AIIMS will enter in to separate supplementary agreement for comprehensive maintenance after the completion of defect liability period, if AIIMS find the conditions are suitable to them.
C	2 lacs from total PG amount and SD will be released only after successful supplementary agreement made between the AIIMS and same MOT agency, if MOT agency backs out from the comprehensive maintenance as per agreement conditions then amount of 2 lacs will be forfeited. In case AIIMS doesn't want to enter into any supplementary agreement after defect liability period then on receipt of letter from AIIMS the whole PG and SD amount will be released to the MOT agency.

Compliance Sheet of Modular OT

Note:

- The compliance sheet as given below has to be submitted by the firm at appropriate stage prior to placing of orders for the supply of goods/equipment and execution of work.
- The Bidder must submit the country of origin certificate. **Products manufactured in china shall not be accepted.**
- The firm will submit the compliance sheet in detail for each of the item along with the relevant catalogues and technical literature confirming compliance to NIT. The deviations, if any, to be categorically brought out.
- In case of non-compliance of specification, the firm will be bound to offer alternate item of required specification.
- The Bidder will submit letter of authorization from the company whose products are mentioned in the NIT.
- Only after approval of the same the firm will place the order and take execution of work

S.N.	Item of Modular OT	As Per NIT	As offered by firm	Deviation if any/Remarks
1.	Wall /Ceiling paneling system and Ceiling Paneling System SS Sandwich	Make /Model/Country of origin		
		Thickness of total wall panel: 50-60 mm.		
		Thickness of total ceiling panel: 30-40 mm.		
		Material of both side of sandwich panel: 304 grade stainless steel		
		Thick ness of sheet of both side :0.8 mm		
2.	Laminar Air Flow System	Core consisting of rigid polyurethane foam injected under high pressure with a Minimum density of 40 kg/m ³ conforming to BIS : 12436 -1988.		
		Make /Model/Country of origin		
		HEPA filters		
		MPPS(most penetrating particle size) average efficiency: >99.95%		
		3 Micron DOP (Dispersed Oil Particulate)		
		efficiency: > 99.99%		
		Final pressure drops: 600 Pa (maximum)		
		Maximum operating temperature: 60 ⁰ Celsius at RH: 40-50%		
		"H 14" class HEPA filters - 0.25 m/s flow at the diffuser conforming to BSEN 1822-1:2009.		
		Filtration ceilings stem holding structure, filter frames and top plenum: made of aluminum/stainless steel.		
		Size of laminar airflow system minimum 8 feet X 8 feet.		

3	Internal HVAC Ducting and Exhaust System	Make /Model/Country of origin for sheet and thermal insulation.		
		Material of duct: Aluminum/SS		
		Material of thermal insulation and its specification: Asper CPWD Specification		
		Factory Fabricated/site fabricated		
		Connection outside the Modular OT for supply air from AHU to the external wall of Modular OT and return air from Modular OT to atmosphere/ AHU shall Be in the scope of HVAC contractor.		
4	PVC Flooring (anti-static seamless PVC)	Make /Model/Country of origin		
		<ul style="list-style-type: none"> Thickness: 2 mm thick Minimum Continuous roll Welded by special P V C thermalwelding units 		
		Specification: smooth, non-slip, impervious material conductive enough to dissipate static electricity		
		The floor shall efficiently discharge electric charges up to 2kV.		
		<ul style="list-style-type: none"> Copper grid to be provided with Copper grounding strips (0.5 mm thick, 50 mm width) One earthing lead shall be brought out from every 150 sqft area 		
5	Hermetically Sealed Doors	Make /Model/Country of origin		
		Size: 2.1 m x 2 m with Lead Line (As per AERB Norms)		
		The controller shall be capable of being operated by elbow switches/foot switches as well as touch less sensor.		
		The door leaf shall be hung by means of hard plastic rollers of high quality with Double bearing at the top.		
		Door shall be with vision window 300 mm x 300 mm with double glazed panels and hermetically sealed.		
6.	Touch Screen Control Panel	Make /Model/Country of origin		
		Touch screen control panel: 30" or more		
		Touch screen panel to control: HVAC (Temperature and humidity) controls, Instruction board, Touch screen and ON/OFF of MOT light		
		Digital clock and the elapsed time indicator. RAFT		
		Medical gas alarm to indicate high and		

		low gas pressures for each gas service (except for vacuum, for vacuum it shall be normal or low) present in the MOT including vacuum.		
		Control for general lighting: ON/OFF and dimming controls organized in groups to provide uniform illumination.		
		On/Off operation of the operating light (major and satellite)		
		MOT temperature adjustment from the controller (temp adjustment of +/-5° C to be achieved within 5 minutes)		
		Digital room pressure indicator		
		HEPA filter bank differential pressure indicator shall be provided.		
		The Control Panel shall be able to be integrated with HIS (Hospital Information System)/BMS.		
		The Control Panel shall be able to display the Isolation Panel Alarm Conditions along with MGPS Alarms.		
7.	Pressure Relief Dampers	Make /Model/Country of origin Size: Frame, body and blade: Grade SS 304 stainless steel		
8.	Hatch Box	Make /Model/Country of origin		
		Size: minimum length and width :600x600 mm		
		Two doors and the doors shall be operated electrically/motorized.		
		Only one door shall be openable at one time.		
		The UV light kept 'ON' while both the doors are closed.		
		Automatically turns off in case of opening of either of the doors.		
9.	Operating List Board X-ray Film Viewer	Make /Model/Country of origin		
		LED type flat panel X-ray viewing panel shall be flicker free.		
		The body shall be of extruded aluminum powder coated with bacteria resistant and disinfectant resistant finish.		
		The diffuser on the front panel shall be a uniformly lit screen.		
		Dimming electronic control shall be enclosed at the bottom of the cabinet.		

		Proper spring-loaded film clip with rollers/holding button shall be provided to hold the films firmly and to remove the film without scratches.		
		It shall consist of dual panel viewing screen(14"x17" each)		
10.	Scrub Station	Make /Model/Country of origin		
		SCRUB STATION (minimum size 1500 mm)		
		Compact surgical scrub sink shall be designed for use in MOT complex for pre-proceduralscrub. Double sink combination shall be provided.		
		Fabricated from heavy gauge type 304 stainless steel (minimum thickness 1.5 mm) and shall be of seamless welded construction, polished to a satin finish.		
		With a front access panel which shall be easily removable for access to the water-controlled valve, waste connections, stoppers and strainers.		
		Hands free operation shall include infra-red sensors with programmable adjustment.		
		Thermostatic mixing, valve control shall be located behind the access panel and it shall maintain constant water temperature.		
		Timing shall be adjustable to meet individual application requirements.		

		It shall be provided with infrared sensors; thermostatic control taps with fail safe temperature controls.		
		All units shall have reduced anti- splash fronts.		
		Knee/foot operated s w i t c h shall be provided additionally		
11.	Storage Unit	Make/Model/Country of origin		
		The storage unit shall be made with at least 0.8 mm thick SS 304stainless steel panels.		
		The shelves shall be of SS 304 stainless steel and removable for cleaning.		

		The storage unit shall be divided in 2 or more parts and each part shall have individual glass doors with high quality locking system.		
		The overall size shall be 200 cm X 120 cm X 35 cm (approximately)		
12.	OT Pendants (Anesthetist and Surgeon)	Make /Model/Country of origin		
		Double arm moveable pendant for Anesthetist		
		The pendants shall comply with NFPA 99C/HTM 02-01/DIN/EN/ISO 7396-1 as amended up to the last date of receipt of tenders. The support arms shall be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position.		
		It shall have double moveable arms (any combination) with total coverage of minimum 1800 mm and minimum 330°. Each arm shall have ability of horizontal movement. Vertical movement shall be motorized and the arm height shall remain at a height greater than 6 feet above floor level.		
		Weight carrying capacity of the arm shall not be less than 180 kg and it shall have electromagnetic brakes.		
		Each arm shall be capable of minimum 330° of rotation, which can be easily adjusted to suit the desired mode of operation.		
		The pendant shall be European CE Certified with 4 digit notified body number/US FDA/ETL/UL/BIS certified/listed/CDSCO Registered.		
		The Pendant Service Heads shall be modular with minimum 800mm head. The heads shall be capable of accepting a range of shelves, infusion poles, electrical switch/sockets, gas outlets and other required accessories. The Pendant Heads shall support the range of Physiological Monitor Mounting Solutions.		
		The Pendant Service Heads shall be supplied with medical gas terminal units and 5A/15A or 6A/16 A hybrid sockets.		
		Pendant shall be supplied with outlets and probes as mentioned below.		
		Oxygen outlets: 2 number		
		Vacuum outlets: 2 number		
		Nitrous oxide outlet: 1 number		

		Air (4 bar) outlets: 2 number		
		AGSS outlet: 1 number		
		Electrical sockets: 10 number		
		Adjustable shelf with two rails one on each side: 3 number		
		IV Fluid Pole with 4 hooks: 1 number		
		Data socket RJ-45: 2 number		
		Pendant supplier shall provide cut-outs for Patch Panels in Integrated OTs (only for integrated OT).		
		Anesthetist pendant shall have NIST Connection for all gases to connect the MGPS system.		
		Double arm moveable pendant for Surgeon		
		The Pendants shall comply with NFPA99C/HTM 02-01/DIN/EN/ISO 7396-1 as amended up to the last date of receipt of tenders. The support arms shall be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position.		
		Double moveable arms (any combination) with total coverage of min 1800 mm and minimum 330°. Each arm shall have ability of horizontal movement. Vertical movement shall be motorized and the arm height shall remain at a height greater than 6 feet above floor level.		
		Weight carrying capacity of the arm shall not be less than 180 kg. It shall have electromagnetic brakes.		
		Each arm shall be capable of minimum 330° of rotation, which can be easily adjusted to suit the desired mode of operation.		
		The pendant shall be European CE Certified with 4 digit notified body number/US FDA/ETL/UL/BIS certified /listed under		
		Medical devices directive/CDSCO Registered.		

		The Pendant Service Heads shall be modular with minimum 800 mm head. The heads shall be capable of accepting a range of shelves, infusion poles, electrical switch/sockets, gas outlets and other required accessories. The Pendant Heads shall support the range of Physiological Monitor Mounting Solutions.		
		The Pendant Service Heads shall be supplied with medical gas terminal units and 5A/15A or 6A/16 A hybrid sockets.		
		Pendant shall be supplied with outlets and probes as mentioned below.		
		O ₂ and MA4: One each		
		Vacuum outlets: 2 number		
		Air (7 bar) outlet: 01 number		
		CO ₂ outlet: 01 number		
		Electrical sockets: 10 number		
		Adjustable shelf with two rails one on each side: 3 number		
		Data socket RJ-45: 2 number		
		IV Fluid Pole with 2 hooks: 1 number		
		(Pole shall be capable of stacking 4 syringe pumps)		
		Nitrous oxide outlet: 1 number		
		Pendant supplier shall provide cut-outs for patch panels in integrated OTs (only for integrated OTs).		
		Surgeon pendant shall have NIST connection for all gases to connect the MGPS system.		
13.	Peripheral Lighting and Clean Room Luminaries	Make /Model/Country of origin		
		To provide peripheral lighting and clean room luminaries with illuminance of minimum 500 Lux. These shall be minimum 8 in numbers for each MOT and shall be with highly specular anodized aluminum and optical antiglare system. Size of Peripheral Light shall be 2 feet x 2 feet size.		
		Luminaries cover shall be made of highly resistant, disinfectant proof laminated safety glass/acrylic with stylish fine grained surface.		
		The white luminaries' body shall be made of sheet steel/perfectly powder coated.		

		Recess frames shall be airtight. The fitting shall be flush with the ceiling and shall be removable from top or bottom. The light fitting shall be uniformly and aesthetically distributed on the ceiling to provide uniform illumination in the MOT. Light shall not interfere when green mode endoscopy is performed.		
		Peripheral lighting shall be done according to IP 65 regulations.		
		Control equipment for the general lighting and the light dimming shall be provided in the theatre control panel		
14.	Isolation Panel System (IPS)	Make /Model/Country of origin		
		Capacity: 20 kVA. System shall have isolators provided through leakage relays etc., if required, according to IEC recommendation. Compliance to: EN/European CE/UL/BIS/FDA/ETL listed/certified/CDSCO Registered.		
		Medical grade Isolation panel.		
		With fault detection feature.		
		Compliant to CEI 64-8/IEC 60364-7-710/BS 7671 Standard as amended up to the last date of receipt of tenders.		
		Compact and mountable on wall or flush on brick wall.		
		Capable to Integrate with HIS/BMS and Surgeon Control Panel as standard.		
		Isolation panel system shall have facility to detect fault of leakage current for each circuit (minimum 12 circuits) and same shall be integrated with touch screen control panel of MOT and alarm status shall be displayed on the touch screen control panel.		
15.	Medical Gas Lines Installations	Make /Model/Country of origin		
		The MOT firm shall ensure that MGPS works inside the MOT are carried out as per HTM02-01/NFPA 99C/DIN/EN/ISO 7396-1 as amended up to the last date of receipt of tenders.		
		The MOT firm shall provide oxygen, air, vacuum, AGSS and nitrous oxide pipe line connections from the existing lines terminated outside the MOT.		

		Terminal units shall 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.		
		Each terminal unit shall be identified by the appropriate recognized name or symbol, colour, coding and shape as per HTM 02-01/NFPA 99C/DIN/EN/ISO 7396-1 as amended up to the last date of Receipt of tenders.		
		Outlets shall be European CE with 4 digit notified body number/UL/ETL/US FDA/BIS certified/listed//CDSCO Registered.		
		Copper pipes shall be of solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe. All copper pipes shall be degreased and delivered capped at both ends		
		The pipes shall be accompanied with manufacturers test certificate for the physical properties and chemical Composition. The copper pipe shall comply with EN 13348 as amended up to the last date of receipt of tenders.		
		Copper pipe must have reputed third party inspection certificate (galley's, TUV, SGS).		
		Fittings shall be made of copper and suitable for a working pressure of up to 17 bar and especially made for brazed socket type connections.		
		The copper fitting shall comply with EN 1254- 1 as amended up to the last date of receipt of tenders.		
		The brazing filler material shall comply with EN 1044 as amended up to the last date of receipt of tenders		
16.	OT Light with Camera, Monitor and Recorder	Make /Model/Country of origin		
		MOT light with camera monitor and recorder		
		MOT surgical lighting system shall provide an ideal combination of brightness, maneuverability and shadow resolution without sacrificing colour and accuracy through a consistent LED technology.		

		<p>Such lighting system shall have the following technical specifications:</p> <ul style="list-style-type: none"> • Number of light heads: Two • Colour temperature range: 3800°K to 5000° K (±10%)- Variable colour temperature. • Field size diameter: 20 to 28 cm (+/-10%) • Working range: 750 to 1100 mm (+/-10%) • Illumination level: minimum 160,000 lux (both for major dome and minor dome separately) • Controls: control panel (two: one on the wall and other on dome) 		
		<p>Camera Specification for OT Light</p> <p>Description: Integrated in-light camera system shall be integrated at the center of one of the domes of this lighting system/third arm in order to capture images and video sequences of the open cases.</p> <p>Such an autofocus–lockable camera shall have the following specifications -</p> <p>Signal to noise ratio (S/N Ratio): >50 dB</p> <p>CCD/CMOS: 1/3" or 1/2.8"</p> <p>Optical zoom: 10X</p> <p>Digital zoom: 12-15X</p> <p>Video output : HD, DVI, S-video and composite video</p> <p>White balance and gain : Automatic/Manual</p>		
		MOT light and Integrated Camera shall have a control through touch panel of the control equipment placed inside the operating room.		
17.	PACS monitor (Picture archiving and communication system monitor)	Make /Model/Country of origin		
		It shall be medical grade monitor.		
		Its size shall be minimum 48 inch. It shall be integrated with hospital PACS.		

		The MOT firm shall do the necessary coordination with hospital authorities for connecting the PACS monitor to the hospital PACS. If hospital/institute PACS is not available, MOT firm shall terminate all PACS monitor connection To switch located in MOT corridor for further connection by the hospital.		
		Monitor shall be flush mounted with suitable frame in MOT wall. Frame shall be openable/serviceable for service.		
18.	HD LED Flat Panel Monitor	Make /Model/Country of origin		
		It shall be MIN 30-32" medical grade high definition progressive scan flat-panel monitors with ceiling mounted spring arm suspension to support high definition/HDTV progressive scan images and shall be able to support and display DVI/HDTV, RGBHV, S- video, composite video signals. Aspect ratio		
		16:9/16:10. Resolution: 1920X1080 or better.It shall meet IP 54 regulations. The flat panel suspension shall 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.		
		Monitor shall be capable of displaying from other sources like endoscope, microscopic. Necessary provision for the same shall be made		
19.	HD Camera System – 1080 p/i	Make/Model/Country of origin		
		Description: Integrated in-light camera system shall be integrated at the center of one of the domes of this lighting system/third arm in order to capture images and video sequences of the open cases.		
		Such a autofocus–lockable camera shall have the following specifications -		
		Signal to noise ratio (S/N Ratio): >50 dB		
		CCD/CMOS: 1/3" or 1/2.8"		
		Optical zoom: 10X		
		Digital zoom: 12-15X		

		Video output: HD, DVI, S-video and composite video		
		White balance and gain: Automatic/Manual MOTlight and Integrated Camera shall have a control through touch panel of the control equipment placed inside the operating room.		
20.	MOT light – LED	Make /Model/Country of origin		
		MOT surgical lighting system shall provide an ideal combination of brightness, maneuverability and shadow resolution without sacrificing colour and accuracy through a consistent LED Technology. Such lighting system shall have the following technical specifications:		
		Number of light heads: Two		
		Colour temperature range: 3800°K to 5000°K(±10%)-Variable colour temperature.		
		Field size diameter: 20 to 28cm (+/- 10%)		
		Working range: 750 to 1100mm (+/-10%)		
		Illumination level: minimum 160,000 lux (both for major dome and minor dome separately)		
		Controls: control panel (two: one on the wall and other on dome)		
21.	Recording system shall be offered separately	Make /Model/Country of origin		
		Recording system shall be offered separately. Recording system shall be full HD medical grade monitor LED minimum 19 inch touch screen and having one TB storage space.		
		Data cable for communication from both pendants and monitors shall be laid down up-to outside of MOT in a patch port for future expansion for all MOTs where there is no integration.		
		Patch panel for power and signal shall be laid down for 48 inch LED monitor at wall of MOT.		
		Recorder shall be capable of recording video from other sources like microscopes; endoscopes etc., suitable provision for the same shall be made.		
		It shall be flush mounted on the MOT wall with suitable frame		

LIST OF APPROVED MAKES

S. No.	Item Description	Make
1	SS 304 Walls and ceiling	TATA / JINDAL/ SAIL
2	Laminar Flow (Planar Ceiling)	MPS/ MDD/ PES/Hitech/Meditech
3	Anti-Microbial painting	SSK /LIQUID PLASTIC,UK SIKKA /JOTUN
4	CLEAN ROOM LED FITTINGS	PHILLIPS/ TRILUX/ ZUMTOBEL/LT /REGENT/Wipro
5	Surgeon control panel	Bender-Germany/Greggersen/ Brandon Medical/Tedisel Spain/Operamed /Operista/LMmedical Italy
6	LED Twin Plate X-ray viewing Screen	MPS/ MDD/ PES/Meditech
7	Seamless flooring for modular OT	Tarket / Gerfloor/ Armstrong/Jeoffloor
8	Pass Box, Hatch	MPS/ MDD/ PES/ Meditech
	Scrub Sink- 2 bay	MPS/ MDD/ PES/ Meditech
10	Single and Double Arm Pendant	LM Medical – Italia / Trilux- Germany/ Drager-Germany/Greggersen/Tedisel Spain/ Ondal- Germany/Pneumatik Berlin-German, AMICO Canada
11	Automatic Sliding door	Metaflex /SHD Italia/ Grupsa
12	LED OT light European CE Certified/UL listed / FDA	KLS martin/Karl Stroz-Germany/Rein Medical Germany/ Stryker- USA/Maquet Getinge/Surgiris-France/Nexor Medical Germany
13	HD Monitor	KLS martin/Karl Stroz-Germany/Rein Medical Germany/ Stryker-USA/Maquet Getinge/ NDS-USA/Advantch, Taiwan
14	Recording System and PACS	KLS martin/Karl Stroz-Germany/Rein MedicalGermany/ Stryker-USA/Maquet Getinge/ Surgiris/Avermedia/ Advantch, Taiwan
15	Aluminum Sheet for A.C. Ducting inside OT	Hindalco/Balco/Jindal
16	Pressure Relief Damper	MDD/PES/MPS/Meditech
17	Medical Gas copper pipeline	MehtaTube/Maxflow/Janya/RRshramik/Man dev/Rajco
18	Steel conduit & accessories (isi marked)	bec/akg/steel kraft /rmcon
19	Pvc insulated copper conductor frls wires, telephone/ submersible / co-axial cable.	havells/polycab/rrkabel/ lapp
20	Modular switches & sockets modular plate ,modular blank plate, including modular boxes & plates(anti-bacterial type)	Legrand / Schneider /mk/ abb/l&t/Panasonic
21	Storage Shelves	MPS/MDD/PES/Meditech confirming to technical specifications.
22	Medical Gas Hose Assembly	MPS/MDD/PES/Meditech confirming to technical specifications.
23	Return Air Grills	MPS/MDD/PES or equivalent confirming to technical specifications.
24	Isolation Panel	LM Medical – Italia/ SHD- Italia/ rein Medical- Germany/Amico- Canada Confirming to technical specification

<u>SCHEDULE OF WORK</u>						
<u>NIT No: AIIMS/BBSR/ENGG/ACR/NIT/35</u>						
Name of Work: "SITC of of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar."						
A.	Part "A ":- SITC of Modular Operation Theatre (MoT)					
SL NO.	DESCRIPTION	Qty.	UNIT	Unit Rate (in Rs.)	Amount (In Rs.)	REMARK
1	SITC of Prefabricated SS 304 puff wall panel (50mm thickness) for 01 nos of Operating Area as per tender technical specification enclosed.	70	Sqm.	8,968/-	6,27,760/-	MR
2	SITC of Prefabricated SS 304 puff wall panel (30mm thickness) for ceiling of 01 nos of Operating Area as per tender technical specification enclosed.	30	Sqm.	8,614/-	2,58,420/-	MR
3	Painting of wall and ceiling with Anti-microbial Paint as per specification	100	Sqm.	1,298/-	1,29,800/-	MR
4	SITC of Unidirectional Laminar Flow Air System with H14 Minipleat HEPA Filters as per tender technical specification enclosed.	1	No.	3,65,800/-	3,65,800/-	MR
5	SITC of Seamless PVC flooring with perfectly curved resistance to mechanical stress and dynamic load and having Electro static discharge (ESD) / (anticonductive) protection characteristics 2 mm thick, washable-complete as per enclosed tender technical specifications.	30	Sqm.	3,245/-	97,350/-	MR
6	SITC of Recess LED luminaire dimension: (L x W) (2 fit x 2fit) fitting made of CRCA powder coated finish with Fully Covered IP 65 with gasketing, toughened glass Diffuser suitable for clean room purpose having Wattage <= 40W, System Lumen >= 3000, Fixture efficacy at System level (Not Chip Level) >=90lumens/watt, Life of fixture 50000hrs@L70% Lumen maintenance, CCT Range 5500-6500, CRI >80, PF >0.95, THD <9% an operating Voltage Range of 140 - 270 V. Minimum Internal Surge Protection 2 KV	8	No.	14,632/-	1,17,056/-	MR
7	SITC of Touch Screen Surgeon control panel, mounted flush in the theatre wall as per enclosed tender technical specifications.	1	No	4,83,800/-	4,83,800/-	MR
8	SITC of Double Arm Movable Pendant for Anaesthetist as per Tender Specifications	1	No	8,49,600/-	8,49,600/-	MR
9	SITC of Double Arm Movable Pendant for Surgeon as per Tender Specifications	1	No	8,26,000/-	8,26,000/-	MR
10	SITC of Twin Plate LED X-ray viewing Screen designed to provide a high level of control luminance without flicker. Size:- 1000x700x95 mm Deep complete set as per enclosed tender technical specifications.	1	No	27,612/-	27,612/-	MR
11	SITC of Operating List Board as per tender Specification	1	No	17,700/-	17,700/-	MR
12	SITC of Storage Shelves as per tender Specification	2	No	92,040/-	1,84,080/-	MR

13	SITC of Internal HVAC ducting (Aluminium ducting including 25 mm thick nitrile rubber insulation) interconnection with aluminium grill damper with outer ducting and exhaust system as per standard technical specification.	1	Job	2,23,020/-	2,23,020/-	MR
14	SITC of Scrub Sink- 2 bay- made in Stainless steel 304 Finish, having Sensor & Foot Operated with Thermostatic Mixing valve control to Size maintain the water temperature, complete set, as per enclosed tender technical specifications. The washing faucet will be made of Chrome plated brass hand.	1	No	1,47,500/-	1,47,500/-	MR
15	SITC of LED OT light (European CE Certified/UL listed I FDA) with camera and monitor as per technical specifications.	1	No	18,40,800/-	18,40,800/-	MR
16	SITC of Medical grade HD Monitor complete as per technical specifications.	1	No	6,49,000/-	6,49,000/-	MR
17	SITC of Recording System with 48" monitor and PACS complete as per technical specifications.	1	No	5,38,601/-	5,38,601/-	MR
18	SITC of Hermetically Sealed automated Sliding door, Complete with Automation Unit, frame, viewing window, complete set, as per enclosed tender technical specifications.					
a	Patient Entry Door size 1800mm x 2100mm	1	No	4,46,040/-	4,46,040/-	MR
b	Doctor's Entry Door size 1000mm x 2100mm	1	No	4,13,000/-	4,13,000/-	MR
19	SITC of Pressure Relief Dampers as per tender Specification	1	No	29,500/-	29,500/-	MR
20	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	4	Sqm.	5,900/-	23,600/-	MR
21	SITC of Hatch box on Operation Theatre to remove waste materials from the operation theatre to the dirty linen area just adjacent to operation theatre- as per technical specification	1	No	88,500/-	88,500/-	MR
22	SITC of Medical Gas copper pipeline inside the OT and the Provision to connect to Pendant Systems as per tender specifications	1	LS	2,12,400/-	2,12,400/-	MR
23	Supply installation testing and commissioning of Medical gas hose assemblies. Hoses shall be color coded throughout their length as specified in British standards.	50	Mtr.	236/-	11,800/-	MR
24	Supply, Installation, Testing and Commissioning of Isolation panel system (IPS) as per tender Specification	1	No	6,78,500/-	6,78,500/-	MR
S/I/T/C of Electrical Work inside OT area						
25	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	380	Mtr.	233/-	88,540/-	DSR(E&M) 2022- 1.14.1

26	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	320	Mtr.	334/-	1,06,880/-	DSR(E &M) 2022 - 1.12
27	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (Switches should be Clean room compatible and having bacteria free surface)	10	Nos.	477/-	4,770/-	DSR(E &M) 2022 - 1.31
		Total Sub - Head A			94,87,429/-	
	Part "B"- Comprehensive maintenance of Modular Operation Theatre (MoT)					
B	Comprehensive maintenance of all the MOTs installations including periodic changes/Validation of HEPA filter as per terms and conditions of comprehensive maintenance and NABH Guidelines.					
	1st Year (Defect liability period)	1	Job	0.00	0.00	-
	2nd year	1	Job	4,48,323/-	4,48,323/-	MR
	3rd year	1	Job	4,48,323/-	4,48,323/-	MR
	4th year	1	Job	5,37,988/-	5,37,988/-	MR
	5th year	1	Job	5,37,988/-	5,37,988/-	MR
		Say Total			19,72,622/-	
	Grand total (A + B) including GST				1,14,60,051/-	

Proforma for Quoting Rates

PERFORMA FOR QUOTING RATES

NAME OF WORK- SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar.	
e NIT No- AIIMS/BBSR/ENGG/ACR/NIT/35	
ESTIMATE COST PUT TO TENDER- ₹ 1,14,60,051/-	
NAME OF CONTRACTOR-	
SITC & CMC Component (Part A & B)	
Part-A Total Amount (SITC of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar.) including of GST) in Rs.	₹ 94,87,429/-
Percentage above/ below the Total Estimated of SITC work	
% in words	
Part-B CMC for MOT (4 years) including GST Rs.	Rs. 19,72,622/-
Percentage above/ below the Total Estimated of SITC work	
% in words	
Total Amount (Part A+Part B) Including GST & Percentage above/below/at par (Rs.)	

(Rupees _____ only)

NOTE: -

1. 'L-1' will be decided on composite basis of total amount.
2. MR = To be read as Market Rate.
3. The Bidder must submit Financial Bid in On-Line Mode.
4. I/We have gone through the terms & conditions as stipulated in the tender and confirm to accept and abide the same.
5. No other charges would be payable by the Institute
6. Quantity mentioned above is tentative, it may increase or decrease as per site requirement.
7. Contractor has to bring samples as per above preferred brands only and Engineer-In-Charge shall
8. approve one sample out of the samples brought by the contractor. The contractor has to use material of that approved sample only. No claim in this regard shall be entertained.
9. In case of non-availability of material of approved make, prior approval from Engineer-In-Charge shall be obtained for another make.
10. The rates quoted should be inclusive of GST as applicable.
11. The contractor certify that I am filling this template after understanding all the items of Schedule of Quantity of e NIT Page No-_____

PROFORMA OF SCHEDULES

SCHEDULE A'

(Reference to General conditions of Contract.)

Name of Work: **SITC of of Modular Operation Theatre (MoT)-02 at Burn Unit, AIIMS, Bhubaneswar.**

Estimated Cost of Work: **₹ 1,14,60,051.00**

(a)	Performance Guarantee	=	<u>5 % of Tendered Value</u>
(b)	Security Deposit	=	<u>2.5 % of Final Value</u>
(c)	EMD	=	<u>2 % of Estimated Value</u>

SCHEDULE 'B'

GENERAL RULES & DIRECTIONS:

Officer Inviting Tender: - Executive Engineer (AC & R), AIIMS, Bhubaneswar

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined: -

in accordance with Clause -12.2 &12.3 = 50%

Definitions		See below
2 (v)	Engineer-in-Charge	: Superintending Engineering AIIMS, Bhubaneswar
2(viii)	Accepting Authority	: Executive Director AIIMS, Bhubaneswar
2(x)	Percentage on cost of materials and labour to cover all over heads and profit	15%
2(xi)	Standard Schedule of Rates	Central Public Works Department Schedule of Rates 2022 at Delhi with up to date correction slips
9(ii)	Standard AIIMS Contract Form	GCC for CPWD Works - 2020 as amended and up to and including correction slip
	(i)Time allowed for submission of Performance guarantee, Program Chart (Time & Progress) and applicable Labour Licenses, Registration with EPFO, ESIC & BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance	07 days
	(ii) Maximum allowable Extension with late fee @ 0.1% of Performance guarantee amount beyond the period provided in (i) above	01 to 15 days

Clause – 2.

Authority for fixing compensation under Clause 2 <u>Clause – 2A.</u>	:	Executive Director, AIIMS, Bhubaneswar
Whether Clause 2A shall be applicable	:	No
<u>Clause – 5.</u> Time allowed for execution of work	:	120 Days (from the date of commencement of work).
Time of start of work:		Within 15 days after issue of work order.
Number of days from the date of issue of letter of acceptance for reckoning date of start	:	07 Days
Authority to decide fair & reasonable extension of time for completion of work	:	Superintending Engineer, AIIMS, Bhubaneswar
<u>Clause – 6A.</u>		
Whether Clause 6A shall be applicable	:	No.
<u>Clause – 7A.</u>		
Whether clause 7A shall be applicable	:	YES.
<u>Clause – 10B(ii).</u>		
Whether Clause 10B(ii) shall be applicable	:	No.
<u>Clause – 10C.</u>	:	Not applicable.
<u>Clause – 10CA.</u>	:	Not applicable.
Competent Authority for deciding reduced rates	:	Superintending Engineer AIIMS, Bhubaneswar
<u>Clause – 25.</u>		

Clause – 36(i). Requirement of Technical Staff and rate of recovery in case of non-compliance shall be as per the following table:

Value of Work	Ser. No	Minimum qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum Experience in years	Qty	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
							(Figures)	(Words)
For Agreement amount up to Rs 150 Lakhs	(a)	Graduate Engineer OR Diploma Engineer	Electrical /Mechanical/Civil	Principal Technical representative	02 yrs for Graduate Engineer/ 05 yrs for Diploma Engineer	1	Rs 15000/-	Rs Fifteen Thousand only

Note- Must have requisite experience in SITC of MOT's.

E-TENDERING INSTRUCTIONS TO BIDDERS

General

The Special Instructions (for e-Tendering) supplement 'Instruction to Bidders', as given in this Tender Document. Submission of Online Bids is mandatory for this Tender. E-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Suppliers / Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, AIIMS Bhubaneswar has decided to use the portal <https://eprocure.gov.in> / AIIMSBBBSR website.

Instructions.

- 1. Tender Bidding Methodology.** Two Stage Online Bidding.
- 2. Broad outline of activities from Bidders prospective:**
 - (a) Procure a Class III Digital Signature Certificate (DSC).
 - (b) Register on the e-Procurement portal <https://eprocure.gov.in> /AIIMSBBBSR website
 - (c) Create Users on the above portal.
 - (d) View Notice Inviting Tender (NIT) on the above portal.
 - (e) Download Official Copy of Tender Documents from the above portal.
 - (f) Seek Clarification to Tender Documents on the above portal. View response to queries of bidders, posted as addendum, by AIIMS, Bhubaneswar.
 - (g) Bid-Submission on the above portal.
 - (h) Attend Public Online Tender Opening Event (TOE) on the above portal - Opening of Technical Part.
 - (j) Post-TOE Clarification on the above portal (Optional) – Respond to AIIMS, Bhubaneswar's Post-TOE queries.
 - (k) Attend Public Online Tender Opening Event (TOE) on the above portal - Opening of Financial Part (Only for Technical Responsive Bidders).

For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the above portal.

- 3. Digital Certificates.** For integrity of data and authenticity / non-repudiation of electronic records, and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC), also referred to as Digital Signature Certificate (DSC), of Class III, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].
- 4. Registration.** To use the Electronic Tender portal <https://eprocure.gov.in> /AIIMSBBBSR, vendors need to register on the portal. Registration of each organization is to be done by one of its senior persons vis-à-vis Authorized Signatory who will be the main person coordinating for the e-tendering activities. In the above portal terminology, this person will be referred to as the Super User (SU) of that organization. For further details, please visit the website/portal, and follow further instructions as given on the site. Pay Annual Registration Fee as applicable. (Rs 2000+ GST as applicable)

Note. : After successful submission of Registration details and Annual Registration Fee, please contact to the Help desk of the portal to get your registration accepted/ activated.

- (a) The Bidder must ensure that after following above, the status of bid submission must become – “Submitted”.
- (b) Please take due care while scanning the documents so that the size of documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at 150 dpi. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.
- (c) It is advised that all the documents to be submitted are kept scanned or converted to PDF format in a separate folder on your computer before starting online submission.
- (d) The Financial part/BOQ may be downloaded and rates may be filled appropriately. This file may also be saved in a folder on your computer. Please don't change the file names & total size of documents (Preferably below 5 MB per document) may be checked.

5. **Bid submission.** The entire bid-submission would be online on the Tender wizard portal i.e. <https://eprocure.gov.in/AIIMS>, Bhubaneswar.

6. **Broad outline of submissions are as follows: -**

- (a) Submission of Bid Parts (Technical & Financial).
- (b) Submission of information pertaining to Bid Security /EMD.
- (c) Submission of signed copy of Tender Documents/Addendums.

The TECHNICAL PART shall consist of Electronic Form of Technical Main Bid and Bid Annexure. Scanned/Electronic copies of the various documents to be submitted under the Eligibility Conditions, offline submissions, instructions to bidders and documents required to establish compliance to Technical Specifications and Other Terms & Conditions of the tender are to be uploaded.

The FINANCIAL PART shall consist of Electronic Form of Financial Main Bid and Financial Bid Annexure, if any. Scanned copy of duly filled price schedule as Annexure are to be uploaded.

7. **Tender Processing Fee.** Firm have to pay processing fee – NIL

8. **Offline Submissions:** The bidder is requested to submit the following documents offline to The **Executive Engineer (AC& R), AIIMS**, Sijua, Bhubaneswar (Odisha) – 751019 on or before the date & time of submission of bids specified in covering letter of this tender document, in a Sealed Envelope. The envelope shall bear (name of the tender), the tender number and the words 'DO NOT OPEN BEFORE' (due date & time).

- 1. EMD-Bid Security in Original, in shape of FDR/BG only pledged in favour of AIIMS, Bhubaneswar/ Bid Security Declaration.
- 2. Documents as Per NIT

Public Online Tender Opening Event (TOE). The e-Procurement portal offers a unique facility for 'Public Online Tender Opening Event (TOE). Tender Opening Officers as well as authorized representatives of bidders can attend the Public Online Tender Opening Event (TOE) from the comfort of their offices.

For this purpose, representatives of bidders (i.e. Supplier organization) duly authorized. Every legal requirement for a transparent and secure 'Public Online Tender Opening Event (TOE)' has been implemented on the portal. As soon as a Bid is decrypted, the salient points of the Bids are simultaneously made available for downloading by all participating bidders. The medium of taking notes during a manual 'Tender Opening Event' is therefore replaced with this superior and convenient form of 'Public Online Tender Opening Event (TOE)'. The portal provides a unique facility of 'Online Comparison Statement' which is dynamically updated as each online bid is opened. The format of the Statement is based on inputs

provided by the Buyer for each Tender. The information in the Comparison Statement is based on the data submitted by the Bidders. A detailed Technical and / or Financial Comparison Statement enhance Transparency. Detailed instructions are given on relevant screens. The portal has a unique facility of a detailed report titled 'Online Tender Opening Event (TOE)' covering all important activities of 'Online Tender Opening Event (TOE)'. This is available to all participating bidders for 'Viewing/Downloading'. There are many more facilities and features on the portal. For a particular tender, the screens viewed by a Supplier will depend upon the options selected by the concerned Buyer.

Important Note. In case of internet related problem at a bidder's end, especially during 'critical events' such as – a short period before bid-submission deadline, during online public tender opening event it is the bidder's responsibility to have backup internet connections. In case there is a problem at the e-procurement / e-auction service-provider's end (in the server, leased line, etc) due to which all the bidders face a problem during critical events, and this is brought to the notice of AIIMSBBBSR by the bidders in time, then AIIMSBBBSR will promptly reschedule the affected event(s).

9. Other Instructions. For further instructions, the vendor should visit the home-page of the portal. The complete help manual is available in the portal for Users intending to Register / First-Time Users, Logged-in users of Supplier organizations. Various links are also provided in the home page.

Important Note.: It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups and minimize teething problems during the use of the said portal.

The following 'FOUR KEY INSTRUCTIONS for BIDDERS' must be assiduously adhered to: -

1. Obtain individual Digital Signature Certificate (DSC) well in advance of your first tender submission deadline on the portal.
2. Register your organization on the portal well in advance of your first tender submission deadline on the portal
3. register your organization on the portal well in advance of your first tender submission deadline on the portal.
4. Get your organization's concerned executives trained on the portal well in advance of your first tender submission deadline on the portal

Submit your bids well in advance of tender submission deadline on the portal (There could be last minute problems due to internet timeout, breakdown etc)

While the first three instructions mentioned above are especially relevant to first-time users on the portal, the fourth instruction is relevant at all times. Minimum Requirements at Bidders end Computer System with good configuration (Min P IV, 1 GB RAM, Windows XP) Broadband connectivity. Microsoft Internet Explorer 8.0 or above. Digital Certificate(s) Vendors Training Program Necessary training to each and every registered bidder under this portal shall be imparted by the ASP, M/s. ITI, Bhubaneswar, if required, before participation in the online tendering.

For any further assistance, please contact

<https://www.eproc.gov.in/AIIMSBBBSR>

For E-tendering Queries contact Representative NIC HELPDESK