



भारतीय प्रबंध संस्थान उदयपुर
Indian Institute of Management Udaipur

INDIAN INSTITUTE OF MANAGEMENT UDAIPUR
(An Autonomous Institute under the Ministry of Education, Govt. of India)

TENDER DOCUMENT FOR

Name of Work:- Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. **(SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)**



Tender No. :IIMU/Tender/HT< Cable-350TR/2024-25

Dated: 19/11/2024

Indian Institute of Management Udaipur
Balicha, Udaipur-313001, Rajasthan
Website: www.iimu.ac.in



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Notice Inviting Tender (NIT)

Name of Work: - Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. **(SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)**

Indian Institute of Management Udaipur (hereinafter referred to as “Institute” or “IIMU”) is an Autonomous Institute under the Ministry of Education (MoE), Government of India. IIM Udaipur is recognized as a premier management institution in the country. Indian Institute of Management Udaipur invites E-tender (online tender) from approved and eligible contractors, under two part bidding System [Technical Bid & Financial Bid] from enlisted agencies having valid registration with CPWD/Indian Railways/MES/State PWDs/Private Corporate Bodies/PSUs in appropriate class Electrical & Mechanical (E &M)Category on last date of submission of bids for the application of material/compound as specialized item mentioned in tender documents. The bidders should have expertise experience in the similar field for undertaking works related to " **Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)**

Bidders must read the complete ‘Tender Documents: This NIT is an integral part of the Tender Document and serves a limited purpose of invitation and does not purport to contain all relevant details for submission of bids. The Bidders must go through the complete Tender Document for details before submission of their Bids.

‘The Bidders shall sign and stamp each page of this tender document as a token of having read, understood, and comply with tender, the terms, and conditions contained herein. Manual bid/tender will not be accepted under any circumstances. Incomplete bids/ documents shall be rejected without giving any reason.

Availability of the Tender Document -This tender document containing eligibility criteria, the scope of work, terms and conditions, specifications, and other documents, can be downloaded at/from the Central Public Procurement (CPP) Portal <https://eprocure.gov.in/cppp/> or Indian Institute of Management Udaipur website: www.iimu.ac.in .

Clarifications – A Bidder requiring any clarification regarding the Tender Document may ask questions in writing/ electronically from the Office/ Contact Person as mentioned in TIS, provided the questions are raised before the clarification end date mentioned in TIS. This deadline shall not be extended.

Submission of Bids, EMD: - Bids shall be submitted through online mode under the e-procurement system. **No manual Bids shall be made available or accepted for submission.** The bidders have to apply online through E-Procurement portal <https://eprocure.gov.in/cppp/> only. **“The original EMD is to be submitted in a sealed envelope to be superscribed this tender name & the name of their agency and must reach the below address before the last date & time for submission of the bid.”**

The Chief of Administration
IIM Udaipur, Balicha,
Udaipur-313001, Rajasthan



List – List of documents for uploading on the website

Name of work: Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)

The bidder shall upload the following documents **as ticked** of the same mentioning the page no. against each document as required in the NIT.

Sl. No	Particular	Document required as per NIT	Attached as page No.
1	Copy of proof for deposition of EMD in the form of Account payee Demand Draft/ Banker's Cheque/ Fixed Deposit Receipt/ Surety Bond/Pay Order/Bank Guarantee (as prescribed) of any Commercial bank in favor of "Director, Indian Institute of Management, Udaipur, Rajasthan" payable at Udaipur, Rajasthan valid for 6 months.	√	
2	Copy of valid registration certificate of appropriate class as per NIT (Form-6)	√	
3	Integrity agreement	√	
4	Letter of Transmittal	√	
5	Certificate of financial turnover from CA (Form A) along with audited balance sheets.	√	
6	Certificate of Net Worth from CA (Form B1)	√	
7	Details of all works of similar nature of work, completed during the last seven years (ending upto previous day of last date of submission of online tender) – Form C	√	
8	Certificate of completed works duly certified by officer not below the rank of Executive Engineer-Performance report of works referred in Form C-(Form-D)	√	
9	Structure & Organization (Form E)	√	
10	Site Visit: The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to himself collect all information that he considers necessary for proper assessment of the prospective assignment.	√	
	Note: Undertaking regarding visit of site of work to be scanned and uploaded at the time of submission of bid (Form-G).		



11	Self-certified copy of declaration regarding local contents for preference make in India on the letter head of the company. (Refer notification ref. no. P- 45021/2/2017-PP (BE-II), dated 4th June 2020 for “Provision of Public Procurement (Preference to Make in India), Order 2017-Revision regarding” notification issued from the Ministry of Commerce and Industry, Institute for promotion of industry and internal Trade (Public Procurement Section), Govt. of India. – (Form H)	√	
12	Undertaking for GST registration Certificate of the State i.e. other than (Rajasthan) (Form I).	√	
13	The agency should not have been blacklisted or banned by any Govt. Institute, Government Organization, PSU, University, Autonomous Institute etc. A notarized certificate duly notarized worth Rs.500/- on Non-Judicial Stamp Paper to this fact should be executed. (Form J)	√	
14	Authority for signing the tender document duly notarized to this fact should be executed. (Form K)	√	
15.	To become eligible to bid, the bidders shall have to furnish an affidavit on non-judicial stamp paper worth Rs.500/- as under: 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 Institute, then I/we shall be debarred for bidding in IIM Udaipur in future forever. Also, if such a violation comes to the notice of the Institute before date of start of work, the Estate Officer shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid). (Form L)	√	
16	Certificate of registration of GST .	√	
17	Certificate of registration of EPF . (If not available, an undertaking shall be submitted in prescribed proforma “form -M”)	√	
18	Certificate of registration of ESIC . (If not available, an undertaking shall be submitted in prescribed proforma “form -N”)	√	
19	Copy of PAN .	√	
20	Electrical license issued from Electrical Inspectorate in the name of agency.	√	
21	Any other document	√	

INFORMATION AND INSTRUCTIONS TO CONTRACTORS FOR e- TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE

The Director, IIM Udaipur invites **online** percentage rate bid from contractors enlisted in CPWD/Indian Railways/MES/State PWDs/Private Corporate Bodies/PSUs in appropriate class in the Electrical or mechanical Category in **two** bid system for the following work:

Sl. No.	Description	Details
1.	NIT No.	IIMU/Tender/HT< Cable-350TR/2024-25 dated 19 Nov 2024
2.	Name of work & Location	Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)
3.	Estimated cost put to tender	Rs. 94,14,937/- (Rupees Ninety Four Lacs Fourteen Thousand Nine Hundred Thirty Seven Only)
4.	Earnest Money	Rs. 1,88,299/- should be in the form of Account payee Demand Draft/ Banker's Cheque/ Fixed Deposit Receipt/ Surety Bond/Pay Order/Bank Guarantee (as prescribed) of any Commercial bank in favor of "Director, Indian Institute of Management, Udaipur, Rajasthan" payable at Udaipur, Rajasthan valid for 6 months. (Being a work contract, no exemption is allowed to any MSME / NSIC registered bidders)
5.	Tender fee	Rs.1,500/- (Non-Refundable) should be in the form of Account payee Demand Draft/ Banker's Cheque/ Fixed Deposit Receipt/ Surety Bond/Pay Order/Bank Guarantee (as prescribed) of any Commercial bank in favor of "Director, Indian Institute of Management, Udaipur, Rajasthan" payable at Udaipur, Rajasthan valid for 3 months.
1	Period of Completion	120 Days



7.	Date of Pre-bid meeting. (This will be held in the Office of Conference Room, 5 th Floor, Administrative Building, IIM Udaipur).	26.11.2024
8.	Last date & time of online submission of bid.	09 Dec 2024 upto 5:00 PM
9.	Date & time of online opening of documents (Technical bid)	<p>The eligibility cum technical bid shall be opened first at 11.00 AM 10 Dec 2024</p> <p>The Financial bid shall be opened of those tenderers only, who qualify in the eligibility of technical bid. If any change in the opening of the financial bid arises the time and date of opening of the financial bid of the eligible tenderer shall be communicated on later date through a notice uploaded on CPP portal in advance of opening of price bid(s). The institute shall not accept any loss or delay in transit as an excuse for late tendering.</p>
10.	Help Desk	Phone - 02942477254 Email - procurement@iimu.ac.in



FORM-6

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE
(APPLICABLE FOR INVITING BIDS ON TWO BID SYSTEM)**

The Director, IIM Udaipur invites **online** percentage rate bid from contractors enlisted in CPWD/Indian Railways/MES/State PWDs/Private Corporate Bodies/PSUs in appropriate class in the Electrical or mechanical Category in **two** bid system for the following work:

S. No	NIT No	Name of work & Location	Estimated cost put to bid (Rs.)	Earnest Money (Rs.)	Stipulated Period of Completion of work	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document.	Time & Date of opening of Technical Bid
1	2	3	4	5	6	7	8
1	IIMU/Tender/HT< Cable-350TR/2024-25	Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT	Rs. 94,14,937/-	Rs. 1,88,299/-	120 days	Up to 5:00 PM on 09 Dec 2024	11.00 AM on 10 Dec 2024

1.0 GENERAL INSTRUCTIONS:

1.1 For Bidding / Tender Document Purposes, 'Office of the Director, Indian Institute of Management, Udaipur, Rajasthan referred to as 'Client' and the Bidder / Successful Bidder shall be referred to as 'Agency/ Contractor' and / or Bidder interchangeably.

1.2 The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.

1.3 While all efforts have been made to avoid errors in the drafting of the tender documents, the Bidder is advised to check the same carefully. No claim on account of any errors detected in the tender documents shall be entertained.

1.4 Each page of the Tender documents must be stamped and signed by the person or persons authorized to submit the Tender in token of his/their having acquainted himself/ themselves and accepted the entire tender documents including various conditions of contract. Any bid with any of the Documents not so signed is liable to be rejected at the discretion of the client.

1.5 All Bidders are hereby explicitly informed that conditional offers or offers with deviations from the conditions of Contract, the bids not meeting the minimum eligibility criteria, technical bids not accompanied with EMD of requisite amount/format, or any other requirements, stipulated in the tender documents, are liable to be rejected.

1.6 The parties to the Bid shall be referred to as the 'Bidders' /Agency (to whom the work has been awarded) and 'Office of the Director, Indian Institute of Management,Udaipur, Rajasthan' shall be referred to as 'Client'.

1.7 For all purposes of the contract including arbitration there under, the address of the Bidder mentioned in the bid shall be final unless the Bidder notifies a change of address by a separate letter sent by registered post with acknowledgement to the 'Office of the Director, Indian Institute of Management,Udaipur, Rajasthan. The Bidder shall be solely responsible for the consequences of any omission or error to notify change of address in the aforesaid manner.

1.8 Bidders are advised to visit personally the worksite/place i.e. Indian Institute of Management Udaipur, village Balicha, Udaipur, Rajasthan 313001 to acquaint themselves with site conditions.

1.9 The requirement/execution of the work is indicative as mentioned in Schedule of Quantity and may deviate or change at the sole discretion of the client up to the permissible deviation limit.

1.10 **Pre- Bid Meeting:** -The purpose of the pre-bid meeting will be to clarify issues and to answer questions on any matter concerning bids that may be raised at that stage or for any clarification in connection with the bid documents. The

bidder may submit any queries in writing or by e-mail, to reach the Estate Officer before such meeting. Proceeding of the pre-bid meeting, including copies of the queries raised and responses given, will be furnished expeditiously to all those attending the meeting (and subsequently to all purchasers of the bidding documents). Any modification of the bidding documents which may become necessary as a result of the pre-bid meeting or otherwise shall be made by the Estate Officer through the issuance of an Addendum (or Amendment) to the bid documents and shall form part of the resultant contract.

2. **Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white-colored (unprotected) cells with their respective financial quotes and other details (such as the name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.**
3. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
4. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
5. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
6. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
7. The bid summary has to be printed and kept as an acknowledgment of the submission of the bid. This acknowledgment may be used as an entry pass for any bid opening meetings.
8. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender



or the relevant contact person indicated in the tender.

9. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
10. The Agencies are requested to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The **TIA will** not be held responsible for any sort of delay or the difficulties faced during the submission of bid online by the Agencies at the eleventh hour.
11. Not more than one tender shall be submitted by one Agency or Agencies having a business relationship. Under no circumstance will the father and his son(s) or other close relations who have a business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.
12. Bidder who has downloaded the tender from the IIMU website www.iimu.ac.in and Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app> **shall not alter/modify the tender form including downloaded price bid template in any manner**. In case if the same is found to be altered/ modified in any manner, tender will be completely rejected and EMD would be forfeited, and Bidder is liable to be banned from doing business with IIMU.

Eligibility Criteria:-

1. Contractors who fulfill the following requirements shall be eligible to apply. **Joint ventures are not accepted.**
 - (A) Enlisted contractor of appropriate class in the appropriate category.
 - i. Valid registration certificate of the appropriate class.
 - ii. EMD of Rs.1,88,299/- only.
 - iii. Form:- E to L, Copy of PAN CARD / EPF / ESIC, etc.
 - (B) **Contractors who have satisfactorily completed the works as mentioned below during the last seven years ending the previous day of the last date of submission of bids.**
 - a) Three similar works of the value not less than 40 % each
i.e. Rs. 37,65,975/-

or
 - b) Two similar works of the value not less than 60 % each
i.e. Rs. 56,48,962/-

or
 - c) One similar works of the value of not less than 80% each
i.e. Rs. 75,31,950/-

Similar work shall mean work of internal EI & Fans including supplying and laying of cables and panels.

The value of executed works shall be brought to the current costing level by enhancing the actual value of work at the simple rate of 7% per annum; calculated from the date of completion to last date of submission of tenders.

- (c) The bidder should have had an average financial turnover (gross) of at least 50% of the estimated cost i.e Rs.47,07,469/-, during the immediate last three consecutive years ending **31.03.2024**. Balance sheet duly audited by Chartered Accountant (Scanned copy of certificate from CA/Audited Balance Sheet to be uploaded). The year in which no turnover is shown would also be considered for working out the average. The multiplication factor of 7% per annum simple interest is not applicable on the Annual Turnover figures.
- (d) Should not have **incurred any loss (Profit after tax should be positive)** in more than two years during the last five consecutive years ending **31st March 2024, duly audited and Certified by Chartered Accountant.**
- (e) **Solvency Certificate: Solvency of the amount equal to 40% of the Estimated Cost put to tender (ECPT). The bidder should have a solvency of Rs. 37,65,975/- certified by his Bankers.**



- (f) Should have **Net worth Certificate** (Form-B) from **Chartered Accountant with UDIN**
(Scanned copy of original be uploaded).

A part of earnest money is acceptable in the form of Bank Guarantee also. In such case 50% of earnest money or Rs.20.00 Lakh whichever is less, will have to be deposited in shape prescribed above and balance can be accepted in form Bank Guarantee issued by a Commercial Bank having validity for Six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The Earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two / three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. shall be returned within 30 days of declaration of result of technical bid evaluation.

Copy of certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission.

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD is deposited in IIM Udaipur and other documents scanned and uploaded are found in order.

- (g) **Should have Electrical license issued from Electrical Inspectorate in the name of agency**

2. The intending bidder must read the terms and conditions of **Form-6** carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
3. Information and Instructions for bidders posted on the website shall form part of bid document.
4. Every page of the documents submitted by the applicant / firm shall be numbered & bear the stamped and full signature of the legally authorized person of the firm. Authority letters duly notarised are to be submitted along with tender documents.
5. Labour Cess, GST-TDS, etc. or any other taxes as may be applicable shall be borne by the contractor. The tenderer shall quote the percentage rate considering all such taxes and nothing extra shall be paid.
6. The contractor has to submit the GST compliant R.A. & Final Bills showing the work done and the GST component separately. All the invoices must have the same GSTIN as submitted alongwith the bid or updated GSTIN as

submitted alongwith 1st R.A. bill.

7. All the statutory recoveries shall be made from the running bills of the contractor like Security deposit, TDS on Income tax, TDS on GST, and Labour welfare cess etc. or any other statutory recovery as per Government of India norms at the prevailing rates and in the manner prescribed by Government of India.
8. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.iimu.ac.in/tender and <https://eprocure.gov.in/eprocure/app>
9. The intending bidder must have a valid class digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website.
10. On the opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor's bid sheets.
11. Contractors can upload documents in the form of **JPG** format and **PDF** format.
12. The contractor must ensure to quote %age above/below/at par on the estimated cost.
13. The technical bid will be opened first on the due date and time as mentioned above. The Financial bid shall be opened of those tenderers only, who qualify in the eligibility of technical bid. If any change in the opening of financial bid arises the time and date of opening of financial bid of the eligible tenderer shall be communicated on later date through a notice uploaded on CPP portal in advance of opening of price bid(s).
14. The contractor whose bid is accepted will be required to furnish a performance guarantee at a specified percentage of the tendered amount as mentioned in **Schedule E** and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', 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 bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to

furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC, and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the subcontractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

15. When bids are invited in a two/three stage system and if it is desired to submit a revised financial bid then it shall be mandatory to submit a revised financial bid. If not submitted, then the bid submitted earlier shall be treated as the final bid.
16. The institute reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
Applicants are advised to keep visiting the mentioned websites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respects including updates thereof, if any. An incomplete application may be liable for rejection.
17. Information and instructions for bidders posted on the website shall form part of the bid document. List of documents to be filled by the contractor in various forms as mentioned below, to be scanned and uploaded within the period of bid submission.
18. **List of Documents to be scanned and uploaded within the period of bid submission:**
 - a) Valid Registration Certificate- Contractor enlisted in CPWD/Indian Railways/MES/State PWDs/Private Corporate Bodies/PSUs in appropriate class in the Electrical & Mechanical (E &M) Category.
 - b) Copy of proof for deposition of EMD
 - c) Letter of Transmittal
 - d) Structure & Organization - **Form 'E'**
 - e) **Site Visit:** The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to himself collect all information that he considers necessary for proper assessment of the prospective assignment.

Note: Undertaking regarding visit of site of work to be scanned and uploaded at the time of submission of bid (**Form-G**)
 - f) Self-certified copy of **declaration regarding local contents for preference make in India** on the letter head of the company. (Refer notification (**Form H**))

- g) Undertaking for GST registration Certificate of the State i.e. other than (Rajasthan) **(Form I)**.

GST Registration Certificate, if already obtained by the bidder.

GST registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents. **“If the work is awarded to me / us, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by the institute, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by the institute or GST institute in this regard”.**

Applicable only for the bidders who intend to operate an office in Rajasthan and where the value of local supply (material/services procured within Rajasthan) is Rs.20.00 lakh or more.

- h) The agency should not have been blacklisted or banned by any Govt. Institute, Government Organization, PSU, University, Autonomous Institute etc. A notarized certificate duly notarized worth **Rs.500/- on Non-Judicial Stamp Paper** to this fact should be executed. **(Form J)**
- i) Authority for signing the tender document duly notarized to this fact should be executed.
(Form K)
- j) Certificate of registration of **GST**.
- k) Certificate of Registration for **EPF** (irrespective of employee strength), If not available, an undertaking shall be submitted in prescribed proforma “form -M”
- l) Certificate of Registration for **ESIC** (irrespective of employee strength), If not available, an undertaking shall be submitted in prescribed proforma “form -N”
- m) Copy of **PAN** Card issued by Income Tax Dept.
- n) Electrical license issued from Electrical Inspectorate in the name of agency.

- o) Any other document as specified in the NIT/bid document.
- p) If any information furnished by the bidder is found incorrect at a later stage, he/they shall be liable to be debarred from bidding/taking up works in IIM Udaipur. The institute reserves the right to verify the particulars furnished by the bidder independently.
19. Net worth Certificate as per **Form 'B'**
20. List of eligible similar nature of work completed during the last seven years ending previous day of last date of submission of bid -**Form 'C'**
- (A) If private works are shown in support of eligibility, certified copy of the tax deducted at source certificate (TDS), G.S.T. deposited in the State where the work is executed, shall be submitted along with the experience certificate and the T.D.S. amount shall tally with the actual amount of work done). **However, work will only be awarded after inspection of the work carried out by the competent technical authority of IIM Udaipur. The agency is required to assist the technical authority of IIM Udaipur in carrying out the inspection. Before inspection of the work, the agency has to submit the certified copy (Certified by the client) of the agreement and the final bill paid. The agency has to bear the inspection charges (if any) of the site where the work was carried out.**
- (B) Works executed outside India shall not be considered as eligible works.
21. Certificate of completed works duly certified by an officer not below the rank of Executive Engineer-Performance report of works referred in - **(Form-D)**.
22. Structure & Organization - **Form 'E'**
23. Online campus automation system (CAS) registration for Fund transfer through RTGS/ NEFT **(Form-F)**
24. Self-certified copy of **declaration regarding local contents for preference make in India** on the letter head of the company. (Refer notification **(Form H)**)
25. The time allowed for carrying out the work will be **120 Days** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

26. The site for the work is available. The architectural and structural drawings will be provided to the agency (if available) as per the approved program of completion submitted by the contractor after award of the work.
27. The bid document consisting of plans, drawings, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Construction 2023 Form can be seen from websites.
28. After submission of the bid the contractor can re-submit a revised bid any number of times but before last date and time of submission of bid as notified.
29. While submitting the revised bid, the contractor can revise the quoted rates but before last date and time of submission of bid as notified.
30. When bids are invited in three stage system and if it is desired to submit a revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted, then the bid submitted earlier shall become invalid.
31. Earnest money of **Rs.1,88,299/-** by shall be deposited through Demand Draft/ Banker's Cheque/ Pay Order of any nationalized/Scheduled bank in favor of "Director, Indian Institute of Management, Udaipur, Rajasthan" payable at Udaipur, Rajasthan valid for 6 months by all the intending bidders within the time and date of submission as mentioned in 'Information and Instructions for Bidders for e-tendering' of NIT, failing which the bids shall be rejected and uploaded documents shall not be verified. **(Being a work contract, no exemption is allowed to any MSME / NSIC registered bidders)**

A part of earnest money is acceptable in the form of Bank Guarantee also. In such case 50% of earnest money or Rs. 20 Lakh whichever is less, will have to be deposited in shape prescribed above and balance can be accepted in form Bank Guarantee issued by a Commercial Bank having validity for Six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The Earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two / three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. shall be returned within 30 days of declaration of result of technical bid evaluation.

Copy of certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission.

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose proof of EMD deposited and other documents scanned and uploaded are received by the prescribed time and date and found in order. Original EMD in physical form must be received on or before the date of opening of the bid.

The technical bid submitted shall be opened at 11.00 AM on 10 Dec 2024.

32. Bids are invited in two bid stage system. The Financial bid shall be opened of those tenderers only, who qualify in the eligibility of technical bid. If any change in the opening of financial bid arises the time and date of opening of financial bid of the eligible tenderer shall be communicated on later date through a notice uploaded on CPP portal in advance of opening of price bid(s).
33. Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. Online bid documents submitted by intending bidders shall be opened only of those bidders and other documents scanned and uploaded are found in order.
34. Individual signing the bid or other documents connected with the contract shall indicate the full name with full signature and must specify whether he is signing as:
 - A sole proprietor of the firm or constituted attorney of the sole proprietor.
 - A partner of the firm, in which case he must have authority to represent for arbitration of disputes concerning the business of the partnership firm either by virtue of the partnership agreement or power of attorney.
 - Constituted attorney of the firm. Provided that,
 - (A) In case of (ii), a copy of the partnership agreement or general power of attorney, in either case, attested by a Notary Public, or affidavit on stamp paper of all the partners admitting execution of the partnership agreement or the General Power of attorney should be furnished.
 - (B) In the case of partnership firms, where no authority to refer a dispute concerning the business of the partnership has been conferred on any partner, the tender offer and all other related documents must be signed by every partner of the firm.
 - (C) A person signing the tender form or any other documents forming the part of the contract on behalf of another shall be deemed to be warranty that he has the authority to sign, such documents and if, on enquiry, it appears that the person has no authority to do so, the

Institute may, without prejudice to other civil and criminal remedies, cancel the contract and make or authorize execution of contract / intended contract at the risk and cost of such person and hold the signatory liable to the Institute for all cost and damages arising from the- cancellation of the contract including any loss which the Institute may have on account of execution of contract / intended contract.

- (D) Individual signing the tender or other documents connected with the contract shall indicate the full name with full signature and must specify the capacity and authority under which he signs such document marked as **Form K** and shall also submit documentary evidence of his authority duly attested by a Notary Public on Rs. 500/- non-judicial stamp paper.
35. The contractor whose bid is accepted will be required to furnish a performance guarantee **as specified percentage of the tendered amount** as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically the action as per EMD declaration Proforma will be taken by the E-in-C without any notice to the contractor. The Earnest Money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses / registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any, engaged by the contractor for the said work and Program Chart (Time and Progress) within the period specified in Schedule F.
36. **The description of the work is as follows: -**
- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4.**

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the

nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general 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 inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder 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 and rates at which stores, tools and plant, etc. if any will be issued to him by the Institute and local conditions and other factors having a bearing on the execution of the work.

37. The competent authority on behalf of the Director, IIM Udaipur 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 conditions is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
38. 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 for rejection.
39. The competent authority on behalf of the Director, IIM Udaipur 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.
40. The contractor shall not be permitted to bid for works in IIM Udaipur, if his near relative is working in IIM Udaipur in any capacity. 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 Officer in the IIM Udaipur. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Institute.
41. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Institute 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.

42. The bid for the works shall remain open for acceptance for a period of **90** days from the date of opening of technical bid in case bids are invited on two bids envelop system (strike out as the case may be).
- (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the institute within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the institute after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
43. 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:
- a) 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 the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence & negotiation leading thereto.
 - b) Standard Form 7 amended up to a date previous to last date of submission of bid.

FORM 7

**INDIAN INSTITUTE OF MANAGEMENT UDAIPUR
ESTATE DEPARTMENT**

Percentage Rate Tender & Contract for works

Tender for the work: Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. **(SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)**

- (A) **To be submitted online by 5.00 P.M.on 09 Dec 2024 through website www.eprocure.gov.in.**
- (i) Technical bid To be opened in the presence of tenderers who may be present at 11.00 AM on 10 Dec 2024 in the office of Estate Officer, IIM Udaipur.

T E N D E R

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F, Specifications applicable, , 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.

I/We hereby tender for the execution of the work specified for the Director, IIM Udaipur within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for Ninety (90) days from the due date of opening of tender and not to make any modification in its terms and conditions.

A sum of **Rs 1,88,299/- as EMD** has been deposited in the prescribed form.

If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Director, IIM Udaipur or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that Director, IIM Udaipur or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. 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 Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-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 a back-to-back basis. Further that, if such a violation comes to the notice of the Institute, then I/We shall be debarred for tendering in IIM Udaipur in the future forever. Also, if such a violation comes to the notice of Institute before date of start of work, The Estate Officer shall be free to forfeit the entire amount of Earnest Money Deposited / 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 & integrity of the State.

Dated :.....
 Contractor:

Signature of

Postal Address:

Witness :
 Address:
 Occupation :

.....

Signature

SCHEDULE A to F

SCHEDULE 'A'	Page No. 98 to 104
Schedule of quantities (Enclosed)	
SCHEDULE 'B'	Nil
SCHEDULE 'C'	Nil
SCHEDULE 'D'	Nil
Extra schedule for specific requirements /documents for the work, if any.	
SCHEDULE 'E'	General Conditions of Contract 2023 (Construction Work. Correction slips issued up to Circular No. DG/CON/Construction 2023/04 dated 08.12.2023 (To the extent applicable for construction work.
Reference to General Conditions of contract	
Name of work :	Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)
Estimated cost of work	Rs. 94,14,937/-
(i) Earnest money:	Rs. 1,88,299/-
(ii) Performance guarantee:	5% of tendered value.
(iii) Security Deposit	2.5% of tendered Value
SCHEDULE 'F'	
General Rules & Directions: Officer inviting tender.	Director, IIM Udaipur
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.	see below
Definitions:	Estate Officer, IIM Udaipur
2(v) Estate Officer	
2(viii) Accepting Authority	Director, IIM Udaipur
2(x) Percentage on cost of materials and labour to cover all overheads and profits.	15% (Fifteen per cent)
2(xi) Standard Schedule of Rates	Delhi Schedule of Rate 2022 & market rate with correction slips issued up to last date of submission of tender.



	For item related to the Civil Works:- Delhi Schedule of Rate 2023 & DAR (Civil) 2023 & Market rate with correction slips issued up to last date of submission of tender.
2(xii) Institute	Estate Department, IIM Udaipur.
Clause 1	
(i) Time allowed for submission of performance guarantee, programme chart (Time & Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying thereof: from the date of issue of letter of acceptance	10 days
(i) Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period as provided in (i) above.	05 days
Clause 2	
(ii) Authority for fixing compensation under clause 2 (liquidated compensation to be imposed on the contractor in case of delay. The compensation is predefined (liquidated) @ 1.5% per month to be computed on per day basis subject to maximum of 10% of the contract value.)	Director, IIM Udaipur
Clause 2A	
(i) Whether clause 2A shall be applicable Compensation for delay (up to 25 Lakh)	No
Clause 5	
Number of days from the date of issue of letter of acceptance for reckoning date of start Milestone(s) as per table given below:-	10 days.



Table of milestone(s)

Sl. No	Description of Milestone	Time allowed in Months. (From date of start) for achieving milestone	Amount to be withheld in case of non-achievement of each milestone.
1.	Total work done of costing 20% of the tendered amount.	60 Days	1.0% of the tendered amount.
2.	Total work done of costing 45% of the tendered amount.	75 Days	1.0% of the tendered amount.
3.	Total work done of costing 60% of the tendered amount.	90 Days	1.0% of the tendered amount.
4.	Total work done of costing 80% of the tendered amount.	110 Days	1.0% of the tendered amount.
5.	Total work done of costing 100% of the tendered amount.	120 Days	1.0% of the tendered amount.

Note:

1. Request for rescheduling of milestones shall be made by the contractor, as per Appendix XVI.
2. In case of milestones are not achieved by the contractor, action under clause-5 of the contract will be taken.

Time allowed for the execution of work:	120 Days
Authority to decide Extension of time:	Director, IIM Udaipur
Rescheduling of the milestone:	Director, IIM Udaipur
Shifting of date of start in case of delay in handing over of site.	Estate Officer, IIM Udaipur

Scheduling of handling over of site

Part	Portion of site	Description	Time period handing overreckoned from date of issue of letter of intent.
Part A	Portion of without any hindrance	Complete site	10
Part B	Portion of with encumbrance	N.A	-
Part C	Portions dependent on work of other agencies	N.A.	-



Clause 6	Computerized Measurement Book
Computerized Measurement Book	
Clause 7	Rs. 10 Lakhs
Gross work to be done together with net payment/adjustment of advances for material collected, if any since the last such payment for being eligible to interim payment.	
Clause 7A	Yes (No running Account Bill shall be paid for the work till the applicable GST registration of the same State in which work is to be taken up, requisite licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Estate Officer)
Weather clause 7 A shall be applicable	
Clause 8A	Estate Officer
Authority to decide compensation on account if contractor fails to submit completion plans.	
Clause 10B (ii) & Clause 10 B (iii)	Nil
Whether clause 10B (ii) shall be applicable	
Clause 10C	Nil
Component of labour expressed as component Percent of the value of work executed	
Clause 10CA	Not Applicable
Clause 10CC	Not Applicable
Clause 11	CPWD Specification 2019 Vol.-I & II for Civil works and CPWD General Specification 2023- Part-I (Internal) & Part-II (External), with correction slips upto the submission of bid.
Specifications to be followed for execution of work	
Clause 16	Director, IIM Udaipur
Competent Authority for deciding reduced rates	
Clause 18	Refer Page No. 58 of this NIT.
list of mandatory machines, tools and plants to be deployed by the contractor at site.	

Note: The list of machinery, tools & plants to be deployed by the contractor at site are minimum. The contractor shall deploy additional machinery, tool & plants in

order to maintain the progress of the work without any extra cost to the institute.

Clause 19 C	Estate Officer
Authority to decide penalty for each default.	
Clause 19 D	Estate Officer
Authority to decide penalty for each default.	
Clause 19 G Authority to decide penalty for each default	Estate Officer
Authority to decide penalty for each default.	
Clause 19	Estate Officer
Authority to decide penalty for each default.	
Clause 25 Settlement of Disputes by Conciliation and Arbitration	CoA and Director, IIM Udaipur
Clause 31	Not Applicable
Whether clause 31 shall be applicable	

Clause 32

“Requirement of Technical Representative(s) and Recovery Rate

S. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	No.	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32.	
						Figures	Words
1	Degree / Diploma	Electrical / Mechanical	Technical representative	5 years for degree holders & 8 years for diploma holder.	1	Rs.40,000/- per month	Rs. Forty Thousand per month

“Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.”

Diploma holder with minimum 10-year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Special Conditions & Particular Specification

1. Special Conditions

DEFNITION: In the Contract (as hereinafter defined) the following definitions words and expressions shall have the In the Contract (as hereinafter defined) the following definitions words and expressions shall have the meaning hereby assigned to them except where the context otherwise required.

1. "Annexure" referred to in the Tender document shall mean the relevant annexure appended to the Tender Document and the Contract.
2. "Approved" shall mean approved in writing including subsequent confirmation of previous verbal approval. "Approval" shall mean approval in writing including as aforesaid.
3. "Agreement" the word "Agreement" and "Contract" has been used interchangeably.
4. "Bidder" shall mean the Bidder who submits the tender for the work and shall include the successors and permitted assigns of the Bidder.
5. "Organization" shall mean the Indian Institute of Management located at Udaipur, Rajasthan.
6. "Commencement Date" shall mean the date upon which the Contractor receives the notice to commence the supply of Services.
7. "Competent Authority" shall mean the Director, Indian Institute of Management, Udaipur, Rajasthan.
8. "Competent Officer" shall mean an officer authorized by the Director.
9. "Contract" shall mean the contract for the work and shall include the Tender Documents, the Special Conditions of Contract, the General Conditions of Contract, the Letter of acceptance and the accepted rates, the offer, the Agreement and mutually accepted conditions in the authorized correspondence exchanged between the Contractor and the Competent Officer and any other document forming part of the contract.
10. "Contract Amount" shall mean the sum quoted by the Contractor in his offer and accepted by Competent Authority.
11. "Contractor" shall mean the individuals or firm or company whether incorporated or not, undertaking the contract and shall include legal representatives of such individual or persons composing such firm or unincorporated company or successors of such firm or company as the case may be and permitted assigns of such individual or firm or company. This shall be synonymous with term "Bidder" used in the Detailed Tender Notice and shall mean the successful "Bidder".

12. “Estate Officer” shall mean the Associate Manager-Estate of Indian Institute of Management, Udaipur The Estate Officer, who shall administer the work,
13. Accepting authority shall mean the Director, IIM Udaipur or his authorized representative.
14. Architect shall mean any Architects/consultant, firms or persons as may be appointed by the Institute.
15. Site Engineers shall mean the Jr. Engineer (Electrical) appointed by IIMU
16. “Letter of Acceptance” means the formal acceptance of Bid issued by the Competent Officer.
17. “Owner” shall mean the Director, Indian Institute of Management, Udaipur, Rajasthan.
18. “Prescribed” shall mean as prescribed in the Tender Document.
19. “Specifications” means the specifications referred to in the Tender and any modification thereof or addition or deduction thereto as may from time to time be furnished or approved in writing by the Competent Authority. In case where no particular specification is given, the relevant specification, where one exists, of the Bureau of Indian Standards shall apply.
20. “Tender” means the Contractor’s bid offered to the Competent Authority for the supply of the Services and remedying of any defects therein in accordance with the provisions of the Contract, the installation and services as accepted by the Letter of Acceptance.
21. “Time for completion” means the time for completing the supply of services or any part thereof as stated in the Contract calculated from the Commencement Date.

2. **DUTIES & POWERS:**

2.1 *Site Engineers:*

The duties of the Site Engineer(s) are to watch and supervise the works and the workmanship in connection with the works, and to test and examine any materials to be used. He shall have no authority to relieve the contractor of any of his duties or obligations under the contract, except as expressly provided here under, nor to order any work involving delay or any extra payment by the Institute and to make any variation in the works.

The Estate Officer, from time to time in writing, delegates to the Site Engineer(s) any of the powers and authorities vested in them. Any written instruction or written approval given by the Site Engineer (s) to the contractor within the terms of such delegation (but not otherwise) shall

bind the contractor and the Institute as though it had been given by the Estate Officer provided always as follows:

- a) Failure of the Site Engineer (s) to disapprove any work or materials shall not prejudice the power of the Estate Officer to subsequently disapprove such work or materials and to order the pulling down, removal or breaking up thereof.
- b) If the contractor is dissatisfied by reason of any decision of the Site Engineer (s), he shall be entitled to refer the matter to the Estate Officer, who shall thereupon confirm reverse or vary such decision.

3. **ASSIGNMENT & SUBLETTING:**

- 3.1 The contractor shall not assign the contract or any part thereof or any benefit or interest therein or there under without the written consent of the Estate Officer. The whole of the works included in the contract shall be executed by the contractor except where otherwise provided in the contract. The contractor shall not sublet any part of the works without the written consent of the Estate Officer and such consent, if given, shall not relieve the contractor from any liability or obligation under the contract, and he shall be responsible for the acts, defaults and neglects of sub-contractor, his agents, servants or workmen, as if they were the acts, defaults or neglects of the contractor provided always that the provision of labour contracts on a piece work basis shall not be deemed to be a subletting under this clause.

4. **SCOPE OF CONTRACT:**

The contract Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. **(SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)** and rectification of defects for 12 Months after the completion, and the provision of all labour, materials, constructional plant, equipment and transportation, temporary works and everything, whether of a temporary or permanent nature required in and for such construction, completion and maintenance so far as the necessity for providing the same is specified in or reasonably to be inferred from the contract. The contractor shall make his own arrangements for the safe storage of materials, accommodation for his staff etc. and no claim for temporary accommodation from the contractor shall be entertained.

The contractor shall carry out and complete the said work in every respect in accordance with this contract and as per the directions and to the satisfaction of the Estate Officer. Issue of further drawings and / or written instructions, detailed directions and explanations which are hereinafter collectively referred to as instructions of the Estate Officer in regard to:

- a) The variation or modification of the design, quality or quantity of works or the addition or omission or substitution of any work.
- b) Any discrepancy in the Drawings or between the Schedule of Quantities and / or Drawings and / or specifications.
- c) The removal from the site of any materials brought thereon by the contractor and the substitution of any other material thereof.
- d) The dismissal from the work of any person employed thereupon.
- e) The opening up for inspection of any work covered up.
- f) Amending / making good of any defects.

The contractor shall forthwith comply with and duly execute any instructions of work comprised in such Estate Officer's instructions, provided always that the verbal instructions and explanations given to the contractor or his representative upon the works shall, if involving a variation, be confirmed in writing by the contractor within seven days and if not dissented in writing within a further seven days by the Estate Officer, such shall be deemed to be instructions of the Estate Officer within the scope of the contract.

5. **CONTRACT DOCUMENT:**

- 5.1 The several documents, forming the contract, are to be taken as mutually explanatory of one another and in case of ambiguities or discrepancies the same shall be explained and adjusted by the Estate Officer who shall thereupon issue to the contractor its interpretation directing in what manner the work is to be carried out. In case the contractor feels aggrieved by the interpretation of the Estate Officer then the matter shall be referred to the Director and his decision shall be final, conclusive and binding on both parties to the contract.
- 5.2 The drawing etc. shall remain in the custody of the Institute. Two complete sets of drawings, specification and Schedule of Quantities shall be furnished by the Estate Officer to the contractor in such time, which must not delay the progress of the construction, and the Institute shall furnish copies of any additional drawings, which in their opinion may be necessary for the execution of any part of the work. One complete set shall be kept on the work site and the Estate Officer, and his representatives shall be, at all reasonable times, have access to the same. The contractor shall study the drawings thoroughly before the commencement of work. In case of any discrepancy, the contractor shall seek clarification before proceeding with the works. Figured dimensions are in all cases to be accepted in preference to the scaled sizes. Large-scale details should take preference over small



scale ones.

The contractor shall give adequate notice in writing to the Estate Officer of any further drawings or specification that may be required for the execution of the works or otherwise under the contract.

The Estate Officer shall have full powers and authority to supply to the contractor from time to time during the progress of the work such drawings and instructions as shall be necessary for proper execution and the contractor shall carry out and be bound by the same.

- 5.3 The successful tenderer shall be required to enter into an agreement with the Institute. The Schedule of Quantities & rates filled by the successful tenderer there in, the General Conditions of Contract 2023 for Construction Works incorporating corrections upto last date of submission of bids, CPWD specifications for Civil & Electrical Works, the Special conditions, additional specifications, minutes of the pre bid conference, negotiation letter and the award letter etc. shall form part of the agreement to be signed by the successful tenderer. The cost of stamp paper and stamp duty required for the agreement shall be borne by the contractor.
- 5.4 The contractor(s) shall give to the Municipality, police, and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be levied on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights either for illumination or for cautioning the public at night.
- 5.5 The Contractor(s) shall take instructions from the Estate Officer regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. However, if any change is required, the same shall be done with the approval of Estate Officer & no extra payment shall be made on this account. The contractor shall collect & stack the hard rock this will be measured as per the direction of Estate Officer and it may be used in RR masonry and sub base of road, etc as per the direction of Estate Officer.
- 5.6 Other agencies will also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings etc. as may be required for the electric and other related works and nothing extra shall be payable on this account.
- 5.7 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Estate Officer and shall as far as possible arrange his work and shall

place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

- 5.8 The contractor shall be fully responsible for the safe custody of materials brought by him at site / issued to him even though the materials may be under double lock and key system. The contractor has to make his own arrangement like shed enclosure etc. for keeping the material, providing security etc. The contractor shall be allowed to make temporary structures for cement godown, installation of batch mixing plant, stores, labs, offices, sheds etc. The contractor shall remove all the structures erected by him necessary for the execution of the work, after completion of the work and clean the site removing all structures and temporary hutments in all respect as per the direction of Estate Officer.
- 5.9 Contractor(s) shall provide permanent benchmarks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of the work. All such reference points shall be in relation to the levels and locations, given in the Architectural and other related services drawings.
- 5.10 On completion of work, the Contractor(s) shall submit at his own cost four set of "as built" drawings printed in A2 size page & soft copy of the drawings shall be shared in AutoCad to the Estate Officer within 6 weeks of completion of the work failing which a recovery of Rs.50,000/- for each item as listed below, to be made as reasonable compensation. These drawings shall have the following information.
1. General Arrangement drawings of the installations.
 2. Layout of cable along with sizes.
 3. All drawings new electrical installations and services.
- 5.11 The work shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time, by the Estate Officer. Before commencement of any item of work the contractor shall correlate all the relevant architectural and structural drawings, nomenclature of items and specifications etc. issued for the work and satisfy himself that the information available there from is complete and unambiguous. The figure and written dimension of the drawings shall supersede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Estate Officer before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim whatsoever shall be entertained on this account.

- 5.12 The Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixing involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Estate Officer.
- 5.13 The contractor shall render all help and assistance in documenting the total sequence of this project by way of photography, slides, audio-video recording including photographs, slides, audio-videography etc. and nothing extra shall be payable to the contractor on this account.
- 5.14 The contractor shall be fully responsible for the safe custody of materials brought by him at site/ issued to him even though the materials may be under double lock and key system. The contractor has to make his own arrangement like shed enclosure etc. for keeping the material, providing security etc. The contractor shall be allowed to make temporary structures for cement godown, installation of batch mixing plant, stores, labs, offices, sheds & labour huts etc. The contractor shall remove all the structures erected by him necessary for the execution of the work, after completion of the work, and clean the site removing all structures and temporary hutments in all respect as per the direction of Estate Officer.

6 **SITE INSPECTION:**

Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their offer. The bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & Plants, water, access facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of bid by a bidder implies that he has read the Bid documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. (if any) will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

The contractor carrying out this work shall strictly abide by the Municipal/State regulations as well as any security regulations imposed by the Institute/Police Authorities/ Local Authorities, from time to time,

regarding trans-shipment of equipments, operations, drainage, security etc. wherever applicable.

7 CLEANLINESS OF SITE

The Contractor shall not stack building material / malba / muck/ rubbish on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Estate Officer, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the Contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material / malba as stated above, the Contractor shall be liable to pay the stacking charges / penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and byelaws of such body or authority. The Engineer –in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the Contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.

8 INSPECTION OF WORK

In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the senior officers of the Institute in addition of the Estate Officer and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Estate Officer or other officers as stated above to visit the works shall have been given to the Contractor, either himself be present to receive the orders and instructions or have a responsible Site Engineer duly accredited in writing, to be present for that purpose Senior Officers of Institute Authorities shall be inspecting the on-going work at site at any time with or without prior intimation.

9. MATERIALS AND WORKMANSHIP:

All materials used shall conform to the requirements of materials specified in this specification. Where material requirements are not specified, they shall conform to the applicable standards and codes approved by the Institute. All materials shall be new, free from defects and of good quality in all respects as per the prescribed specifications. Parts shall be free from flaws and objectionable imperfections and shall be machined true in a workman like manner. No deviations from the specified materials are permissible. Wherever materials are not specifically called out, they shall be properly

selected by the contractor to the best standards for the application and with the prior approval of the Estate Officer.

10. **STANDARDS & CODES:**

The design, manufacture and performance of tendered material/equipment shall comply with all currently applicable statutory regulations and safety codes in the locality where the material/equipment will be installed. The material shall also conform to the requirement of the latest editions of applicable IS/B.S Standards. The contractor shall refer to the relevant sections of this specification for material/equipment standards and codes. Nothing in this specification shall be construed to relieve the contractor of his responsibility.

11. **RATES:**

The rates quoted by the bidder, shall be firm and inclusive of all taxes, and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site i/c temporary constructional storage, risks, overhead charges general liabilities/ obligations and clearance from local authorities. However, the fee to be paid to local bodies/statutory bodies in context with the inspections shall be borne by the Institute.

12. **FREE GUARANTEE PERIODS (Defect Liability Period):**

Guarantee: All materials/installations shall be guaranteed by the contractor for a period of **12 months** from the date of completion of work/ date of commissioning of system / date of taking over of the installation by the institute, whichever is later, against unsatisfactory performance of the installations and/or any break down/ failure due to defective design, poor quality of material and/or bad workmanship. The material or equipment or any other part thereof found defective during guarantee period shall forthwith be repaired or replaced free of cost, to the satisfaction of the Estate Officer. In case it is felt by the institute that undue delay is being caused by the contractor in doing so, the same will be got done by the Institute at the risk and cost of the contractor. The decision of the Estate Officer in this regard shall be final & binding.

13. **VALIDITY:**

Bids should be kept open for acceptance for at least **90 days** from the date of opening of technical bids. Those who do not agree for a validity of **90 days** will do so at their own risk and no request for extending the validity is likely to be made from this office. However, if due to any circumstances beyond control, if the bidders are advised to extend the validity, they shall not be permitted to revise their rates, offer any rebate or concession while extending

the validity which may materially result in any reduction or increase in the computed prices of their original offer.

14. **TERMS OF PAYMENT:**

- (a) 60% payment will be made on the purchase cost of material after submission of Tax invoice, Delivery Challans, Test Certificates, Invoice of Material, Guarantee/warranty certificate, technical catalogue (if any) after initial inspection and delivery of material at the site in good condition on pro-rata basis.
- (b) 25 % on completion of pro-rata installation.
- (c) 10 % on testing, commissioning.
- (d) 5 % after handing over.

15. **DEVIATIONS/VARIATIONS EXTENT & PRICING**

15.1 The client shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Estate Officer and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work within the deviation limit of 30% of the original quantities.

15.2 In the case of Extra Item(s) which are not available in BOQ being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above/ below quoted contract amount.

15.3 Payment of Extra/substitute items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.

15.4 In the case of contract items, which exceed the limit(s) of quantity (ies) laid down in schedule, the contractor shall be paid rates specified in the schedule of quantities.

15 . Recovery of Security Deposit:

The person/persons whose tender(s) may be accepted (herein after called the contractor) shall permit the Institute at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 2.5% of the gross amount of each running bill till the sum will amount to a security deposit of 2.5% of the tendered value of the work. Such deductions will be made and held by the Institute by way of security deposit unless he/they has/have deposited the amount of security at the rate mentioned above in cash or in the form of Government securities or fixed deposit



receipt. In case a fixed deposit receipt of any Bank is furnished by the contractor to the institute as part of the security deposit and the bank is unable to make payment against the said fixed deposits receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the institute to make good the deficit.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from or paid by the sale of a sufficient part of his security deposit or from the interest arising there from or from any sums which may be due to or may become due to the contractor by Government on any account whatsoever and in the event of his security deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or any commercial Banks or Government Securities (if deposited for more than 12 months) endorsed in favor of the Estate Officer, any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills of the contractor at the rates mentioned above.

The security deposit as deducted above can be released against a bank guarantee issued by a scheduled bank which shall be **released on the expiry of the defect liability period/guarantee period of 12 months.**

16 Taxes:

All taxes as per prevailing notification of the Central / State Government shall be recovered from the contractor's bill.

17 GENERAL REQUIREMENTS:

a. Coordination with other agencies:

The Contractor shall be responsible to co-ordinate with other agencies working at site. The Contractor will have to carry out changes / modifications, if any, required due to lack of coordination with other agencies at his cost.

b. Site Supervision:

The Contractor shall engage sufficient qualified and experienced site staff to execute the works. Registered and licensed trade persons shall be employed under the direct employment of the contractor and shall be full time on site to supervise the works. The decision of the Estate Officer as to what constitutes this necessity shall be final and binding.

c. Inspection at Manufacturer's Works

Owners reserve the right to depute their representative for inspection of the tendered material (Panel & cable only) for witnessing tests as per relevant standards at manufacturer's works prior to dispatch of the material to site at IIM Udaipur. The contractor is required to offer the material for inspection at the manufacturer's works before dispatch as per the relevant national/international standards along with pre-dispatch routine test results/report. The contractor shall give sufficient advance notice of minimum **10 days** regarding readiness of material and the dates proposed for witnessing required tests and inspections to the Estate Officer or his authorized representative and to facilitate his presence during inspection and testing. The institute at his discretion may depute their representatives to witness such testing and/or inspection. The materials duly inspected by the Estate Officer, or his authorized representative shall be dispatched to site by the contractor after issue of dispatch clearance by the Estate Officer.

Inspections and tests at the works of the manufacturer do not relieve the Contractor of his responsibility for the defects or other failures discovered /noticed in the material during the execution of the contract .and to meet the contract requirements. The contractor must ensure the supply of material strictly as per the prescribed specifications.

17. Period of Completion: 120 Days.

18 Godown / Worker Accommodation:

The accommodation for workers shall be arranged by the Contractor outside the campus of IIM Udaipur. Storage space shall be arranged by the Institute. The contractor shall construct the stores at his cost, and he shall be responsible for watch and ward of his materials/installations.

19. Supply of Material:

Merely a provision in the Schedule of Quantities does not require the contractor to supply the item. The contractor has to supply the quantity of material actually required for use on work after getting it approved the Estate Officer. If at any point of time it comes to the notice that any of the items supplied by the contractor & paid by the Institute is not required for use on work, the amount shall be recovered suo-moto, and no claim shall be entertained on this account.

Make in India: Self-certified copy of declaration regarding local contents for preference make in India on the letter head of the company. (Refer notification

ref. no. P-45021/2/2017-PP (BE-II), dated 4th June 2020 for “Provision of Public Procurement (Preference to Make in India), Order 2017-Revision regarding” notification issued from the Ministry of Commerce and Industry, Institute for promotion of industry and internal Trade (Public Procurement Section), Govt. of India.

20. SAFETY, HEALTH AND ENVIRONMENT

- a) The Contractor(s) shall take all precautions to avoid accidents by exhibiting necessary caution boards during day and night, speed limit boards, red flags, red lights and providing barriers hoarding written in English and Hindi. He shall be responsible for all damages and accidents caused to existing/new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work. In case of any accident of labour / contractual staff the entire responsibility will rest on the part of the contractor and any compensation under such circumstances if becomes payable the same shall be entirely born by the contractor and institute shall have no role on this account.
- b) The contractor is required to follow the CPWD Safety code as prescribed in the General condition of the contract 2023.
- c) The contractor shall assign to his workmen, tasks commensurate with their qualification, experience and state of health for driving of vehicles, handling and erection of materials and equipments. All lifting equipments shall be tested certified for its capacity before use. Adequate and suitable lighting at every work place and approach there to, shall be provided by the contractor before starting the actual operations at night.
- d) Hazardous and / or toxic materials such as solvent coating or thinners shall be stored in appropriate containers.
- e) All hazardous materials shall be labeled with the name of the materials, the hazards associated with its use and necessary precaution to be taken.
- f) Contractor shall ensure that during the performance of the work, all hazard to the health of personnel, have been identified, assessed and eliminated.
- g) Appropriate personal protective equipment such as helmets, gloves, goggles, aprons, safety belts etc. shall be provided to the workers employed at the work site as per the requirement and exposure to the hazardous materials or locations.
- h) The contractor has to follow the model rules for the protections of the health and sanitary arrangement for the workers as provided in the General condition of contract for CPWD works 2023 for Construction works with correction slips upto Circular No. DG/CON/Construction 2023/03 dated 06.12.2023 (To the extent applicable for contract)
- i) The contractor shall provide first aid facilities, drinking water facilities, washing facility, Latrines and urinals, shelter during rest, crèches, canteens, anti-malarial precautions, preventive action for communicable

- diseases, proper drainage, sewerage, etc. in compliance of model rules for the protection of Health and Sanitary arrangement for the workers.
- j) The wages of the labour shall be paid as per the guidelines provided in the CPWD contractor labour regulations.
 - k) The contractor has to keep a record of all the workers employed at site, make daily attendance along with the location of the work and follow the CPWD contractor's labour regulation. All the labour record shall be made available for inspection and verification to the Estate Officer or his authorized representative as and when required.
 - l) Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. In case the same are to be removed and diverted, the same shall be payable to the contractor. The contractor shall work out the cost and the same shall be approved by Estate Officer. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
- 21.** The Contractor shall be responsible for the watch and ward / guard of the material brought and the installation carried out by the contractor provided by him/ supplied to him against pilferage and breakage during the period of installations and thereafter till the entire work as per agreement is physically handed over to the institute. No extra payment shall be made on this account.

22. SITE:

The contractor shall ensure that all the top soil excavated during construction works is neatly stacked and is not mixed with other excavated earth. The -contractor shall take the clearance of the Estate Officer before any excavation. Top soil should be stripped to a depth of 20 cm (centimeters) from areas to be disturbed, for example proposed area for building, roads, paved areas, external services and area required for construction activities etc. it shall be stockpiled to a maximum height of 40 cm in designed areas, covered or stabilized with temporary seeding for erosion prevention and shall be re applied to the site during plantation of the proposed vegetation or as directed by the Estate Officer Top soil shall be separated from subsoil, debris and stones larger than 50 mm (millimeter) diameter. The stored top soil may be used as finished grade for planting areas.

The contractor should follow the construction plan as proposed by the Estate Officer to minimize the site disturbance such soil pollution due to spilling. If required use of staging and spill prevention and control plan to restrict the spilling of the contaminating material on site needs to be restored. Protection

of top soil from erosion by collection storage and reapplication of top soil, constructing sediment basin, contour trenching, mulching etc., may also be directed by the Estate Officer

No excavated earth shall be removed from the campus unless suggested otherwise by Estate Officer. All subsoil shall be reused in back filling/landscape, etc. as per the instruction of Estate Officer. The surplus excavated earth shall be disposed of by the contractor as per the direction of Estate Officer at his own cost for reuse.

The contractor shall not change the natural gradient of the ground unless specifically instructed by the Estate Officer. This shall cover all natural features like water bodies, drainage gullies, slopes, mounds, depressions, etc. Existing drainage patterns through or into preservation area shall not be modified unless specifically directed by the Estate Officer.

The contractor shall not carry out any work which results in the blockage of natural drainage.

The contractor shall ensure that existing grades of soil shall be maintained around existing vegetation and lowering or raising the levels around the vegetation is not allowed unless specifically directed by the Estate Officer.

Contractors shall reduce pollution and land development impacts from automobiles use during construction.

Overloading of trucks is unlawful and creates the erosion and sedimentation problems, especially when loose materials like stone dust, excavated earth, sand etc. are moved. Proper covering shall be used by the contractor. Also, no overloading shall be permitted.

23. CONSTRUCTION PHASE AND WORKER FACILITIES:

- a. The contractor shall specify and limit construction activity in pre-planned /designated areas and shall start construction work after securing the approval for the same from the Estate Officer. This shall include areas of construction, storage of materials, and material and personnel movement.
- b. Preserve and protect Landscape during Construction
- c. The contractor shall ensure that no trees, existing or otherwise, shall be harmed and damaged to roots. These shall be prevented during trenching, placing backfill, driving or parking heavy equipment, dumping of trash and protected from oil, paint, and other materials detrimental to plant health. These activities shall be restricted to the areas outside of the canopy of the tree, or, from a safe distance from the tree/plant by means of barricading.

Trees will not be used for support; their trunks shall not be damaged by cutting and carving or by nailing posters, advertisements or other material. Lighting of fires or carrying out heat or gas emitting construction activity within the ground, covered by canopy of the tree, is not at all permitted.

- d. The contractor shall take steps to protect trees or saplings of any identified for preservation within the construction site using tree guards of approved specification.
- e. Contractor should limit all construction activity within the specified area as per the Construction Management Plan (CMP) approved by the Estate Officer
- f. The contractor shall avoid cut and fill in the root zones, through delineating and fencing the dripline (the spread limit of canopy projected on the ground) of all trees or group of trees. The zones of movement of heavy equipment, parking, or excessive foot traffic shall be separated from the fenced plant protection zones.
- g. The contractor shall ensure that the maintenance activities during construction period shall be performed as needed to ensure that the vegetation remains healthy.
- h. The contractor shall be required to develop and implement a waste management plan, quantifying material diversion goals. He shall establish goals for diversion from disposal in landfill and incinerators, if required, and adopt a construction waste management plan to achieve these goals. A project- wide policy of “Nothing leaves the site” shall be followed. The contractor’s ingenuity is especially called towards meeting this prerequisite/credit (as per IGBC LEED India, New Construction v1.0 & GRIHA, MNRE) and may consider recycling cardboard, metal, brick, acoustical tile, concrete, plastic, clean wood, glass, gypsum wallboard, carpet and insulation, designating a specific area(s) on the construction site for segregated or commingled collection of recyclable material, and track recycling efforts throughout the construction process, identifying construction haulers and recyclers to handle the designated materials at his cost. The diversion may include donation of materials to charitable organization and salvage of materials on- site.
- i. Contractor shall collect all construction waste generated on site. He may consider at segregating wastes based on their utility and examine means of sending such waste to manufacturing units which use them as raw material or other site which require it for specific purpose. Typical construction debris could be broken bricks, steel bars, broken tiles, spilled concrete and mortar etc.

- j. The contractor shall provide potable water and other amenities for all workers as per the contract.
- k. The contractor shall provide the minimum level of sanitation and safety facilities for the workers at site as described in CPWD General Conditions of contract. The contractor shall ensure cleanliness of the workplace with regard to the disposal of waste and effluent; provide clean drinking water and latrines and urinals as per applicable provisions. Adequate toilet facilities shall be provided for workmen within easy access of their place of work. The total no. to be provided shall not be less than 1 per 30 employees in any one shift. Toilet facilities shall be made as soon as practicable. Every toilet shall be so constructed that the occupant is sheltered from view and protected from the weather and falling objects. Toilet facilities shall be maintained in a sanitary condition. A sufficient quantity of disinfectant shall be provided, and natural or artificial illumination shall also be provided.
- l. The contractor shall ensure that air pollution due to dust/generators is kept to a minimum, preventing any adverse effects on the workers and other people in and around the site. The contractor shall ensure proper screening, covering stockpiles, covering brick and leads of dusty materials, wheel – washing facility, gravel pit, and water spraying. The contractor shall also ensure the following activities to prevent air pollution during construction.
- m. Clear vegetation only from areas where work will start right away.
- n. Vegetate/mulch areas where vehicles do not ply.
- o. Apply gravel/landscaping rock to the areas where mulching/paving is impractical.
- p. Identify roads on-site if applicable that would be used for vehicular traffic. Upgrade vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral types that make up the surface & base and add surface gravel to reduce source of dust emission to limit amount of fine particles (smaller than 0.075 mm) to 10-20%.
- q. Water spray, through a simple hose for small projects, to keep dust under control. Fine mist should be used to control fine participation. However, this should be done with care so as not to waste water. Heavy watering can also create mud, which when tracked onto paved public roadways, must be promptly removed. Also, there must be an adequate supply of clean water nearby to ensure that spray nozzles don't get plugged.
- r. Water spraying shall be done on:
- s. Any dusty materials before transferring, loading and unloading.

- t. Area where demolition work is being carried out.
- u. Any unpaved main haul carried out.
- v. Areas where excavation or earth moving activities are to be carried out.
- w. The contractor shall ensure that the speed of vehicles within the site is limited to 10 km/hr.
 - x. All material storage should be adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust/particulate emissions.
 - y. Spills of dirt or dusty materials will be cleaned up promptly, so the spilled material does not become a source of fugitive dust and also to prevent seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained /cleaned up immediately before they can infiltrate into the soil/ground for runoff in nearby areas.
 - z. Provide dust screens, sheeting or netting to scaffold along the perimeter of the building at his cost.
 - aa. Cover stock piles of dusty material with impervious sheeting before they leave the site at his cost.
 - bb. Cover dusty load on vehicles by impervious sheeting before they leave the site at his cost.
 - cc. Contractor shall be required to provide an easily accessible area that services the entire building and is dedicated to the separation, collation and storage of materials for recycling including (at a minimum) paper, corrugated cardboard, glass, plastics, and metals. He shall coordinate size and functionality of the recycling areas with the anticipated collections services for glass, plastic, office paper, newspaper, cardboard, and organic wastes to maximize the effectiveness of the dedicated areas. Consider employing cardboard balers, aluminum can crushers, recycling chutes, and collection bins at individual workstations to further enhance the recycling program.
 - dd. The contractor shall ensure that no construction leachate (e.g. cement slurry etc.), is allowed to percolate into the ground. Adequate precautions will be taken to safeguard against this including reduction of wasteful curing process, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction area sand material storage sites and diverting water flow away from such polluted

areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant-laden water directly to the treatment device or facility (municipal sewer line).

- ee. Staging (dividing a construction area into two or more areas to minimize the area of soil that will be exposed at any given time) should be done to separate undisturbed land from land disturbed by construction activity and material storage.
- ff. The contractor shall comply with the safety procedure, norms and guidelines (as applicable) as outlined in the document part 7 Constructional practices and safety, 2005 National Building code of India, Bureau of Indian Standards. A copy of all pertinent regulations and notices concerning accidents, injury and first-aid shall be prominently exhibited at the work site. Depending upon the scope & nature of work, a person qualified in first aid shall be available at work site to render and direct first-aid to casualties. A telephone may be provided to first-aid assistant with telephone numbers of the hospitals displayed. Complete reports of all accidents and taken thereon shall be forwarded to the competent authorities.
- gg. The contractor shall ensure the following activities for construction workers safety, among other measures at his cost.
 - i. Guarding all parts of dangerous machinery.
 - ii. Precautionary sign for working on machinery.
 - iii. Maintaining hoists and lifts, lifting machines, chains, ropes, and lifting tackles in good condition.
 - iv. Durable and reusable formwork system to replace to timer framework and ensure that formwork where used is properly maintained.
 - v. Ensuring that walking surface or boards at height are of sound construction and are provided with safety rails or belts.
 - vi. Ensuring that walking surfaces or boards at height are of sound construction and provided with safety rails or belts.
 - vii. Provide protective equipment, helmets etc.
 - viii. Provide measures to prevent fires. Fire extinguishers and buckets of sand to be provided in the prone area and elsewhere.
 - ix. Provide sufficient and suitable light for working during nighttime.
- 24.** The storage of material shall be as per standard good practices as specified in Part 7, Section 2-Storage, Stacking and Handling practices, NBS 2005 and shall be to the satisfaction of the Estate Officer to ensure minimum wastage and to prevent any misuse, damage, inconvenience, or accident. Watch and ward of Constrictor's materials shall be his own responsibility. There should be a proper planning of the layout for stacking and storage of different materials, components and equipment's with proper access and proper

maneuverability of the vehicles carrying the materials. While planning the layout, the requirements of various materials, components, and equipment's at different stages of construction shall be considered.

25. The contractor shall provide for an adequate number of garbage bins around the construction site and the workers' facilities and will be responsible for the proper utilization of these bins for any solid waste generated during the construction. The contractor shall ensure that the site and the workers' facilities are kept litter free. Separate bins should be provided for plastic, glass metal, biological and paper waste and labeled in both Hindi and English with suitable symbols.
26. The contractor shall prepare and submit 'Spill prevention and control plans' before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.
27. The contractor shall collect the relevant material certificates for rapidly renewable materials such as bamboo, wool, cotton insulation, Agri fiber, linoleum, wheat board, strawboard and cork etc.
28. Where possible, the contractor shall select materials/vendors, harvested and manufacture regionally a 800-km radius of the project site.
29. Contractors shall adopt an IAQ (Indoor Air Quality) management plan to protect the HVAC system during construction, control pollutant sources, and interrupt pathways for contamination. He shall sequence installation of materials to avoid contamination of absorptive materials such as insulation, carpeting, ceiling tile, and gypsum wallboard. He shall also protect stored on-site or installed absorptive materials from moisture damage.
30. The contractor shall ensure that a flush out of all internal spaces is conducted prior to handover. This shall comprise opening of all doors and windows for 14 days to vent out any toxic fumes due to paints, varnishes, polishes, etc.
31. The contractor shall make efforts to reduce the quantity of indoor air contaminants that are odorous or potentially irritating and harmful to the comfort and well- being of installer and building occupants. The contractor shall ensure that the VOC (Volatile Organic Compounds) content of paints, coatings and primers used must not exceed the VOC content limits mentioned below in case items are/is available in schedule of quantities.
32. Paints
 - a. Non-flat-150 g/L, Flat (Mat)-50, g/L Anti corrosive/anti rust-250 g/L
 - b. Coatings/Clear wood finishers

- c. Varnish-350 g/L, Lacquer-550 g/L, Floor coating -100 g/L, sealers stains-250 g/L.
- 33.** The VOC (Volatile Organic Compounds) content of adhesives and sealants used if prescribed in the schedule of quantities must be less than VOC content limits mentioned: Architectural Application VOC Limit (g/l less water).
- 34.** Wherever required, Contractor shall meet and carry out documentation of all activities on site, supplementation of information, and submittals in accordance with IGBC LEED India New Construction v1.0 or GRIHA program standards and guidelines, towards meeting the aforementioned building environmental rating standards(s) expert assistance shall be provided to him up on request.
- 35.** Water use during construction: Contractor should spray curing water on concrete structure and shall not allow free flow of water. The concrete structure should be kept covered with thick cloth/gunny bags and water should be sprayed on them. The contractor shall do water ponding on all sunken slabs using cement and sand mortar.
- 36.** The contractor shall remove from site all rubbish and debris generated by the works and keep the works clean and tidy throughout the contract period. All the serviceable and non-service (malba) material shall be segregated and stored separately. The malba obtained during construction shall be collected in well-formed heaps at properly selected places, keeping in a view safe condition for workmen in the area. Materials which are likely to cause dust nuisance or undue environmental pollution in any other way, shall be removed from the site at the earliest and till then they shall be suitably covered. Glass & steel should be dumped or buried separately to prevent injury. The work of removal of debris should be carried out during the day. In case of poor visibility artificial light may be provided.
- 37.** The contractor shall provide O&M manuals wherever applicable.
- 38.** The contractor shall make himself conversant with the site waste management program manual and actively contribute to its compilation by estimating the nature and volume of waste generated by the process/installation in question.
- 39. MATERIALS & FIXTURES FOR THE PROJECT:**
 The contractor has to comply as per MoEF issued notification 8.0.763(E) dated 14th Sept. 1999 containing directive for greater flyash utilization. Every construction agency engaged in the construction of buildings within a radius of 50 km radius of a Thermal Power Plant, have to use of 100 % fly ash-based bricks/block in their construction.

The contractor shall ensure that all paints, polishes, adhesives, and sealants used both internally and externally, on any surface, shall be Low VOC products. The contractor shall get prior approval from the Estate Officer before the application of any such materials.

All plumbing and sanitary fixtures installed shall be as per the prescription of the Estate Officer and shall adhere to the minimum LPM (liters per minute) and LPF (liters per flush) mentioned. The contractor shall employ 100% zero ODP (ozone depletion potential) insulation; HCFC (hydrochlorofluorocarbon)/ CFC (chlorofluorocarbon) free HVAC and refrigeration equipment's and halon-free fire suppression and fire extinguishing systems. The contractor shall ensure that all composite wood products/agro-fiber products used for cabinet work, etc. do not contain any added urea formaldehyde resin.

40. RESOURCES CONSUMED DURING CONSTRUCTION:

The contractor shall ensure that the water and electricity is not wasted during construction. The Estate Officer can bring to the attention any such wastage and the contractor will have to ensure that such bad practices are corrected.

The contractor shall install necessary meters and measuring devices to record the consumption of water, electricity and diesel on a monthly basis for the entire tenure of the project.

The contractor shall ensure that all run-off water from the site, during construction is collected and reused to the maximum.

No light shall be turned on during the period between 6:00 AM to 6:00 PM, without the permission of the Estate Officer

41. CONSTRUCTION WASTE

Contractor shall ensure that wastage of construction material is within 3%.

- a) All construction debris generated during construction shall be carefully segregated and stored in a demarcated waste yard. Clear, identifiable areas shall be provided for each waste type and measures employed to segregate the waste on site into inert, chemical, or hazardous wastes.
- b) All construction debris shall be used for road preparation, back filling, etc, used if described in the schedule of quantities and as per the instructions of the Estate Officer, with necessary activities of sorting, crushing, etc.
- c) No construction debris shall be taken away from the site, without the prior approval of the Estate Officer

- d) The contractor shall recycle the unused chemical/hazardous wastes such as oil, paint, batteries, and asbestos.
- e) If and when construction debris is taken out of the site, after prior permissions from the Estate Officer, then the contractor shall ensure the safe disposal of all wastes and will only dispose of any such construction waste in approved dumping sites.

42. EQUIPMENT:

To ensure energy efficiency during and post construction all pumps, motors and engines used during construction or installed shall be subject to approval and as per the specifications of the Estate Officer

The contractor is expected to go through all other conditions of the LEED & GRIHA rating stipulations.

Failure to adhere to any of the above-mentioned items, without approval of the Estate Officer, shall be deemed as a violation of contract and the contractor shall hold liable compensation as per terms of the agreement.

43. WATER POLLUTION:

The contractor will take all precautionary measures to prevent the wastewater during construction accumulating anywhere.

The wastewater arising from the project is to be disposed off in the manner that is acceptable to the Estate Officer and conforming to Pollution Control norms.

44. AIR AND NOISE POLLUTION

Contractors will use dust screens and sprinkle water around the site to arrest the spreading of dust in the air and surrounding areas.

The contractor will ensure that all vehicles, equipment, and machinery are used for environmental emission standards/norms.

For controlling the noise from Vehicles, Plants and Equipments, the Contractor will conform the following:

All vehicles and equipment used in construction will be fitted with exhaust silencers.

Servicing of all construction vehicles and machinery will be done regularly



and checked and if found defective will be replaced. Noise emission from compactors (rollers) front loaders, concrete mixers, cranes (movable), vibrators and saws should be less than 75 db (A).

As per the Standards/Guidelines for control of Noise Pollution from Stationary Diesel be less than $94 + 10 \log_{10} (KVA)$. The standards also suggest construction of acoustic enclosure around the DG set and provision of proper exhaust muffler with insertion loss of minimum 25dB(A) as mandatory.

Ambient noise levels should conform to residential standards both during day and night.

Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.

45. RISK FROM ELECTRICAL EQUIPMENT:

The contractor will comply the relevant industrial electrical safety legislations.

The contractor will take adequate precautions to prevent danger from electrical equipment i.e. no material will be so stacked or placed as to cause danger or inconvenience to person or the public.

All necessary fencing and lights will be provided to protect the public.

All electric machines to be used in the construction will conform to the relevant Indian Standards (IS) codes, will be free from patent defect, will be kept in good working order, will be regularly inspected and properly maintained as per IS provision and to the satisfaction of the Estate Officer. In case of any breach of the above provisions, the electric supply given for the work shall be disconnected & the contractor shall only be responsible for the loss/slow progress of the work.

46. PLANTATION/ PRESERVATION / CONSERVATION MEASURES:

The contractor will take reasonable precaution to prevent his workmen and employees from removing and damaging any flora (plant/ vegetation) from the project area.

All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest, discovered on any project location during excavation / construction shall be property of the Government, and shall be dealt with as per provisions of the relevant legislation. The contractor will take reasonable precaution to prevent his workmen or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof official

instructions of Estate Officer for dealing with the same, till then all work shall be stopped.

47. PROGRESS REPORT:

If the work is carried out in more than one shift or during the night, no claim on this account shall be entertained. The contractor has to take permission from the Estate Officer if required for work during night hours. No claim / hindrance on this account shall be considered if work is not allowed during night time. The requisite supervision shall be made available by the institute along with the necessary issue of material under joint custody.

Existing drains, pipes, cables, overhead wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. In case the same are to be removed and diverted, the same shall be payable to the contractor. The contractor shall work out the cost and the same shall be approved by the Estate Officer. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

The Contractor shall be responsible for the watch and ward / guard of the building's safety, fittings and fixtures & protection of flooring doors & windows etc. provided by him/ supplied to him against pilferage and breakage during the period of installations and thereafter till the entire work as per agreement is physically handed over to the institute. No extra payment shall be made on this account.

48. QUALITY ASSURANCE:

The contractor shall establish, document and maintain an effective quality assurance system as outlined in the specifications and various codes and standards.

The bidder shall understand the scope of the balance work, drawing, specifications and standards etc. attached with the tender or to be followed and shall seek clarification, if any before submission of the tender.

The quality assurance system plans / procedures / method statement to be followed shall be furnished in the form of a quality assurance manual. It should cover quality assurance, plan procedure, specifications, frequency of the inspection, testing, acceptance criteria, method of sampling, testing etc to be followed for quality and the details of the person responsible. It is obligatory on the bidder to obtain the approval of every quality assurance document with Estate Officer before he starts using particular document for execution of work.

The approval of quality assurance by Estate Officer does not absolve the contractor of the contractual obligations towards executing the work as per the laid down the specification of the work.

The contractor shall produce the quality control, records, on the formats approved by Engineer-in-charge in the quality assurance plan.

The contractor shall ensure towards the enforcement of quality assurance plan by his all specialized agencies as approved by the Estate Officer.

The Estate Officer reserve the right to inspect / witness, review any or stages of the work at shop / site as deemed necessary for quality assurance and / or timely completion of work.

The contractor has to ensure the deployment of quality assurance and quality control engineer(s) depending upon the quantum of work. This QA/QC group shall be fully responsible to carry out the work as per standards and all codes requirements. In case Estate Officer feels that contractor's QA/Q Engineer(s) are incompetent or insufficient, contractor has to deploy other experienced Engineer(s) as per site requirement and to the full satisfaction of Estate Officer

The contractor is required to review the quality assurance program at all appropriate stages to ensure the quality, completion of activities in time etc. and if required should deploy additional manpower and resources to ensure the quality and timely completion of the project.

If the contractor fails to deploy the quality assurance team, the necessary recovery shall be made from the contractor's bill as per the rates provided for in the schedule – F (Clause 36(i)) of the agreement.

The contractor shall be fully responsible for the safe custody of materials brought by him / issued to him even though the materials may be under double lock and key system.

The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and clearance of the same before use in the work. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work. The sealed samples are to be handed over to the approved testing lab by contractor at his own cost.



49. Tool & Plants

The contractor shall, at his own cost and risk, provide and operate all the required equipment, T&P and machinery as required at site. The contractor shall, however, be required to provide and operate following minimum equipment, T&P & machinery at Site:

Sl. No.	Name of Equipment	Nos.
1	Drilling machine	1
2	Welding machine	1
3	Ladders required upto 20 Ft	1
4	Cable Pulling and Drum Handling Equipment	1
5	Electrical hammer Drill Machine	1
6	Insulation Testing Megger of all rating and earth test	1
7	Hydraulic Crimping Machine	1
8	Spanner Set	1
9	Goti Pana Set	1
10	Adjustable Wrench	1
11	Heavy Duty Screw Drivers	1
12	Pliers	1

These equipment/T&P/machinery shall be the mandatory requirement over and above for execution work. Nothing extra whatsoever shall be payable on this account. All the equipment, T&P and machinery shall be kept in good condition. In case the requirement at any stage exceeds that given above the same shall be arranged as per need by the contractor at his own cost.

50. Scaffolding, if required, shall be arranged by the agency at their cost, nothing extra shall be paid separately.

51. Dispute Resolution:

Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the

work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

- i) **First Level disposal by CAO, IIMU:** At the first level, any issues of the contractor relating to the work contract awarded to him by the institute, shall be reported within a period of 30 days of the date on which such dispute may have arisen and brought before the **CAO, IIMU** through Estate Officer, who shall be presenting the report with the relevant facts of the case to **CAO, IIMU**. After perusal of the said case of the contractor, the CAO may pass an order as deem necessary.
- ii) **Second Level disposal by the Dispute Redressal Committee (DRC):** If a contractor is aggrieved by an order passed by the CAO above, the same may be reported to the Dispute Redressal Committee (DRC) within a period of 30 days of the date of receipt of order by the contractor. The power to constitute a DRC vest with Director, IIM Udaipur which shall be constituted as per rule. The DRC so constituted shall pass an order with detailed reasoning within a period of 90 days from the date of constitution of DRC.
- iii) **Third Level disposal by the Building Committee:** If the contractor is aggrieved by the order of DRC, an appeal shall lie within a period of 30 days from the date of receipt of order of DRC by the contractor, before the Building Committee (BC) of the Institute which is a statutory authority constituted under Statute 3 read with Statute 9 of the First Statutes of IIM Udaipur. The BC shall pass an order as deem necessary within a period of 90 days from the date on which the meeting of BC was last convened, after the receipt of the Appeal against the order of DRC by the contractor.
- iv) The report of the BC shall be reported to the Finance Committee of the Institute and thereafter to the Director (BoG) of the Institute for approval. The final order as approved by the BoG shall be final and binding on the contractor.

Note: The aforesaid time limit of reporting the case / time limit for appeal may be condoned by the competent authority to which it lies, if the said authority is satisfied that the contractor has reasonable cause for such delay.

- v) **Final jurisdiction by Hon'ble Courts:** After exhausting all the aforesaid remedies of dispute settlement, all disputes arising out of or in any way connected with this agreement shall be deemed to have arisen in Udaipur and only Courts in Udaipur / Jodhpur (Raj.) shall have jurisdiction to determine the same.

52. Particular specifications for Civil Work:

- a. Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried-out in accordance with the relevant “CPWD Specifications, (with up to date correction slips as on submission of bid (Hereinafter to be referred to as CPWD Specifications) and instructions of Estate Officer. Whenever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed.
- b. The Contractor shall have to engage highly experienced skilled labour, deploy modern T & P and other equipments to execute the work.
- c. Samples of all material and fittings to be used in the work in respect of brand, manufacture and quality shall be got approved from the Estate Officer, well in advance of actual execution and shall be preserved till the completion of the work. Articles bearing IS certification mark shall only be used unless no manufacturer has got ISI mark for that particular material. Any material / fitting whose sample has not been approved in advance and any other unapproved material brought by the contractor shall be immediately removed as soon as directed failing which the Estate Officer shall have the power to remove the same at cost of the contractor.
- d. Unless otherwise specified in the schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, floors including terrace, leads and depths and nothing extra shall be payable on these accounts.
- e. The contractor shall give a performance test of the entire installation(s) executed under this agreement as per the standing specifications before the work is finally accepted and nothing extra what-so-ever shall be payable to the contractor for the test.
- f. The Contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by institute/arranged by the contractor.

15.3 Measurement

As per CPWD specifications.

15.4 Tolerances

As per CPWD specifications



TECHNICAL SPECIFICATION OF EQUIPMENT

1. Standards & Regulations:-

Sl. No	STANDARDS Code of Practice / Guide	TITLE
1	IS: 732 – 1989	Code of Practice for Electrical Wiring Installations.
2	IS: 14333	Code of practice for HDPE pipe
4	IS: 1255-1983	CODE OF PRACTICE FOR INSTALLATION AND MAINTENANCE OF POWER CABLES UP TO AND INCLUDING 33 kV RATING
5	IS: 7098	SPECIFICATION FOR CROSSLINKED POLYETHYLENE INSULATED PVC SHEATHED CABLES
8	IS: 10118 (Part-1) - 1982	Code of Practice for selection, installation and maintenance of switcher and Control gear: Installation.
10	IS: 3043 – 1987	Code of practice for earthing.
11	IS: 5216 (Part-2) - 1982	Guide for safety procedures and practices in electrical work General.
12	IS: 4237 – 1982	General requirements for switchgear and control gear for voltages not exceeding 1000 V AC or 1200 V DC.
13	IS: 6875 - (Part-1) - 1973	Control switches (Switching devices for control and auxiliary circuits including 1000 V AC and 1200 V DC: General requirements and tests.
14	IS: 10027 – 2000	Composite units of Air-Break switches and rewirable type fuses for voltages not exceeding 650 V AC.
15	IS: 4064 (Part-1) - 1978	Composite units of Air-Break disconnecter, Air-Break switch disconnecter and fuse- combination units for voltages not exceeding 1000 V AC or 120V DC: General requirements.
16	IS: 8828 – 1996	Electrical accessories - circuit breakers for over-current protection for household and similar installation.
17	IS: 2516 (Part-1/Sec01)-1985	Circuit-Breakers: Requirements and tests : Voltages not exceeding 100 V AC or 1200V DC.
18	IS: 5039 – 1983	Distribution pillars for Voltages not exceeding 1000 V AC or 1200 V DC.



2. Specifications of Panel:-

Incoming:
1 No.- 800 Amp.TPN Air Circuit Breaker Horizontal Manual draw out type of fault breaking capacity 50kA (Ics=Icu =Icw for 1 sec. at 415V), fitted with an interlocked door, automatic safety shutters, required numbers of auxiliary contacts, mechanical ON/OFF and service/ test/ isolated position indicators and frame earthing contact, conforming to IS-13947-2 1993 as amended up-to-date complete with following accessories.
Over / Under voltage relay with tripping mechanism
Independent Electrical & manual spring closing mechanism
Microprocessor release (EMI & EMC certified) for over current, earth fault & short circuit protection with RS 485 / Ethernet port on open protocol
3 Nos. Phase indication LED lamps with 2Amp back up MCB, breaker 'ON/OFF/TRIP' indicating light with 2A MCB, test terminal block set, circuits as per standard practice, auxiliary contacts for positive interlocking of the breakers as required.
Multifunction digital meter to read V, Amp, Hz, KW, KWH, KVA _r , THD, Peak Demand, etc with 3 nos. resin cast CT's of 800/5A class 1.0 accuracy and VA burden as per requirement.
Shunt trip coil 220V A.C.
Outgoings:
1 Nos. 500 Amp TPN microprocessor based release, MCCB (Ics=Icu at 415 Volts) with O/L, S/C & built-in earth fault protection. The MCCB compartment shall contain : with required accessories for each MCCB's (For 350 TR, VFD-driven chiller)
Over / Under voltage relay with tripping mechanism
On, OFF, TRIP etc Indicating lamps
Connecting bus bars shall be TPN / FP as per switchgear & shall be of same material & KA rated of main busbar and shall be sleeved with colour coding.
02 Nos. 125 amps TPN microprocessor based release, MCCB (Ics=Icu at 415 Volts) with O/L, S/C & built-in earth fault protection. The MCCB compartment shall contain : with required accessories for each MCCB's. (For 45 kW, VFD-driven Secondary Pump)
Over / Under voltage relay with tripping mechanism
On, OFF, TRIP etc Indicating lamps
Connecting bus bars shall be TPN / FP as per switchgear & shall be of same material & KA rated of main busbar and shall be sleeved with colour coding.



01 No. 100 amps TPN MCCB with 37 KW Y / Δ starter, over load relay with built in single phasing protection and outgoing feeders to Condensor pumps. Each of these compartment shall contain CT operated digital ammeter of 0- 63 amps range with selector switch, auto / manual / off selector switch and an indicating lamp with MCB and toggle switch for 'ON' status of pump motors. **(For 37 kW, Y / Δ starter driven Condenser Pump)**

03 No. 32 amps TPN MCCB with 11 KW Y / Δ starter, over load relay with built in single phasing protection and outgoing feeders to Condensor pumps. Each of these compartment shall contain CT operated digital ammeter of 0- 63 amps range with selector switch, auto / manual / off selector switch and an indicating lamp with MCB and toggle switch for 'ON' status of pump motors. **(For 11 kW, Y / Δ starter driven Primary Pump)**

03 Nos. 32 amps TPN MCB with 7.5 KW Direct Online Starter (DOL starter), over load relay with built in single phasing protection and outgoing feeders to Primary Chilled Water pump motors. Each of these compartment shall contain CT operated digital ammeter of 0- 63 amps range with selector switch, auto / manual / off selector switch and an indicating lamp with MCB and toggle switch for 'ON' status of pump motors. **(For 7.5 kW, Direct Online Starter (DOL starter) driven Cooling Tower Fans)**

Necessary cable alleys, space for spare switches, internal wiring, control wiring / cabling shall also be included.

Note:-

1. Panel will not be accepted and payment will not be made without a certificate of inspection & testing by the manufacturer of ACBs, MCCBs, etc. as listed approved list of makes of panels.
 2. However, it will be the responsibility of the agency to supply the TTA panel complying with the relevant specifications of the OEM/CPWD/IE Rules.
 3. If any discrepancy has been noticed, the same will be got rectified by the agency by the OEM channel partner. Failing which, required recovery will be made before the release of the final payment.
3. CPWD specifications including up-to-date correction slips.

ADDITIONAL SPECIFICATIONS

1. GENERAL

- 1 The order of preference in case of any discrepancy as indicated in condition No. 8.1 under “Conditions of Contract” give in standard CPWD contract form may be read as the following:
- i) Nomenclature of items as per schedule of quantities.
 - ii) Particular specification and special condition, if any.
 - iii) CPWD specifications.
 - iv) Architectural Drawings
 - v) Indian standard specifications of B.I.S.
 - vi) Sound Engineering Practice
- 1.1 Wherever any reference to any Indian Standard Specifications of BIS or other international standards of ASTM / BS / EN occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 1.2 The contractor shall work according to the programme of work as approved by the Estate Officer, for which purpose, the contractor shall submit a programme of the work within 7 days from the stipulated date of start of the work based on computer software mutually agreed or in other format decided by Estate Officer and as per clause 5 of GCC 2023 shall update the same every fortnight. The contractor must submit:-
- (i) Progress photographs, in colour, of the various items/components of the work done upto date, to indicate visually the actual progress of the work.
 - (ii) Videography at various stages of construction right from the day of start of work to date of completion/occupation, covering all major events, inspections, visits by dignitaries etc.
- 1.5 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions / instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.
- 1.6 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Estate Officer and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with

that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Estate Officer. The contractor shall be responsible for any damage due to hindrance caused by him.

- 1.7 Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Estate Officer. Double handling of materials or excavated earth if required at any stage shall have to be done by the contractor at his own cost.
- 1.8 No claim for idle establishment & labour, machinery & equipment, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 1.9 Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.
- 1.10 Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.
- 1.11 The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.
- 1.12 The contractor shall not store /dump construction material or debris on the metalled road.
- 1.13 The contractor shall get prior approval from Estate Officer for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic / inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
- 1.14 The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes / or are carrying construction material like Pipes, machinery, cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air / contaminate air.

- 1.15 The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
- 1.16 The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
- 1.17 The contractor shall ensure that C&D waste is transported to the C & D waste site only and due record shall be maintained by the contractor.
- 1.18 The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010 or amended thereafter.
- 1.19 The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
- 1.20 The agency is permitted for erect the site office, store yard and ground water extraction facility (if permitted by the statutory authorities) temporarily near the place of construction free of cost only after getting specific approval of Estate Officer. Contractor shall remove such structures on completion of work.
- 1.21 Entry to the campus may be restricted from particular entrance gate and agency has to follow security rules of the campus & nothing extra shall be payable on this account.
- 1.22 The contractor shall make necessary arrangement to follow the guidelines / instruction issued by the concerned government authority for controlling and containing the spread of COVID-19 like situation and nothing shall be paid extra in this regard.

Additional SPECIFICATIONS
(For Internal & External Electrical Work)

1.0 All the works shall be carried out as per CPWD General Specifications for Electrical Works Part-I (Internal) 2023 & Part-II (External) 2023, amended up to the last date of submission of tender.

2.0 Conformity to IE act, IE Rules, and standards:

All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 1910 and Indian Electricity Rules, 1956 amended up to the last date of submission of tender unless specified otherwise. A list of rules of particular importance to electrical installations under these General Specifications for internal works is given for reference.

3.0 General requirements of components:

3.1 **Quality of material:** All materials and equipment supplied by the contractor shall be new. They shall be of such design, size and materials as to satisfactorily function under the rated conditions of operation and to withstand the environmental conditions at site.

The model of equivalent make shall be approved by Engineer – in-charge on producing relevant paper of the model and equivalent make shall be equal or more rich specification.

3.2 **Use of quality materials:** Only quality materials of reputed make as specified in the tender will be used in the work.

3.3 Samples of all materials, fittings and other materials/articles required for execution of the work shall be got approved from the Estate Officer. Materials / articles manufactured by the firms of repute as indicated in tender documents and approved by the Estate Officer shall

only be used. **The date of manufacturing of all the equipment and materials shall not be more than Six months old from the date of award of work.**

All the materials and equipment shall be procured directly from the manufacturer or authorized dealers only.

3.4 Even ISI marked materials shall be subjected to quality test at the discretion of the Estate Officer besides testing of other materials as per the specifications described for the item/material. Whenever ISI



marked, materials are brought to the site of work; the contractor shall, if required by the Estate Officer, furnish manufacturers test certificates to establish that the materials procured by the contractor for incorporation in the work satisfy the provisions of IS codes relevant to the material and/ or the work done.

- 3.5 The MCB should be 10 KA breaking Capacity and of same make as that of MCB DBs.
- 3.6 The fan box cover shall be made from 3mm thick phenolic laminated sheet as per CPWD specification.
- 3.7 The contractor shall provide junction boxes/looping boxes with cover of required sizes even in PVC conducting and such boxes shall be measured as a part of conduit/wiring without any extra payment.
- 3.8 The junction boxes & looping boxes shall be covered with approved makes of phenolic laminated sheet. For telephone, television & fire alarm system shall be provided at all the floors within scope of work without any extra cost as per requirement & layout approved by Estate Officer

4.0 Ratings of components:

- 4.1 All components in a wiring installation shall be of appropriate ratings of voltage, current and frequency, as required at the respective sections of the electrical installations in which they are used.
- 4.2 All conductors, switches and accessories shall be of such size as to be capable of carrying the maximum current, which will normally flow through them, without their respective ratings being exceeded.

5.0 Conformity to standards:

- 5.1 All components shall conform to relevant Indian Standard Specifications wherever existing. Materials with ISI certification mark shall be preferred.
- 5.2 Relevant Indian Standards including amendments or revisions thereof up to the last date of submission of tender shall be applicable in the respective contracts for respective items, firm to ensure its compliance.
- 5.3 The connections of switches, sensors, earthing conductors & interconnections cables shall be made by adequate rating thimbles of approved standard makes only and nothing extra on this account shall be paid.

- 5.4 Material to be used in the work shall be ISI marked. The make of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Estate Officer before its use at site. The Estate Officer shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
- 5.5 Modular type switches / sockets / telephone outlets / TV sockets are to be provided wherever indicated in the items. The same shall be of only one make. The modular plates of switches, sockets, telephone & TV sockets etc. shall be in two parts i.e. plates with frames within quoted rates.

6.0 **Interchangeability:**

Similar parts of all switches, lamp holders, distribution fuse boards, Switch gears, ceiling roses, brackets, pendants, fans and all other fittings of the same type shall be interchangeable in each installation.

7.0 **Inspection of materials and equipment:**

- 7.1 Materials and equipment to be used in the work shall be inspected by the institutional officers. Such inspection will be of following categories:
- a) Inspection of materials / equipment to be witnessed at the Manufacturer's premises in accordance with relevant BIS / Agreement Inspection Procedure.
 - b) To receive materials at site with Manufacturer's Test Certificate(s)
 - c) To inspect materials at the authorized dealer's godown to ensure delivery of genuine materials at site.
 - d) To receive materials after physical inspection at site.
- 7.2 Adequate care to ensure that only tested and genuine materials of proper quality are used in work shall be ensured by firm. The firm shall ensure that:
- a) Material will be ordered & delivered at site only with the prior approval of the institute to ensure timely delivery.
 - b) As and when the order is placed for the fittings / fixtures, cables, switchgears, poles, rising main, other main items etc, its copy shall be endorsed to the Estate Officer.
 - c) The firm will be required to procure material like exhaust fans, MCB's & DB's, switches & sockets, wires & cables, conduits and switchgears etc directly from the manufacturer/ authorized

dealers to ensure genuineness & quality and as per the approved makes only. Proof in this regard shall be submitted by the contractor if required by the institute.

- d) Inspection at factory or at godown of the manufacturer, as required, shall be arranged by the firm for a mutually agreed date. Certificate for genuineness of the fittings shall have to be provided duly signed by the manufacturer's officer not below the rank of Regional Manager.
 - e) Delivery of material shall be taken up only with the consent of institute, after clearance of the material.
 - f) Institute shall reserve the right to waive inspection in lieu of suitable test certificate, at its discretion.
- 7.3 Similarly, for fabricated equipment, the contractor will first submit dimensional detailed drawings for approval before fabrication is taken up in the factory. Suitable stage inspection at factory also will be made to ensure proper use of materials, workmanship and quality control.
- 7.4 The contractor shall give a trial run of the equipment and machinery for establishing its capability to achieve the specifications within laid down tolerances to the satisfaction of the Estate Officer before commencement of work.

8.0 Workmanship:

- 8.1 Good workmanship is an essential requirement to be complied with. The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.
- 8.2 **Proper supervision/skilled workmen:** The contractor shall engage suitably skilled/licensed workmen of various categories for execution of work duly supervised by technical representative having appropriate qualification and experience to ensure proper execution of work. They will carry out instruction of Estate Officer and his authorized representatives during the progress of work.
- 8.3 **Fabrication in reputed workshop:** Switch boards and LT panels shall be fabricated in a factory/workshop having modern facilities like quality fabrication, seven tank processes, powder / epoxy paint plant, proper testing facilities, manned by qualified technical personnel. These shall be as per make / item approved.
- 8.4 The contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work.

9.0 Provisions for services and proper planned work:-

- 9.1 The main contractor shall leave such recesses, holes, openings, etc., as may be required for the electric, air conditioning and other related works. The main contractor has also to fix inserts, sleeves, brackets, conduits, base plates, insert plates, clamps etc if any at the time of casting of concrete, stonework & brick work. These inserts, sleeves, brackets, conduits, base plates, insert plates, clamps etc shall be arranged by the contractor and shall be paid accordingly if these are not the part of equipment for which it is being provided.
- 9.2 The contractor shall ensure quality construction in a planned and time bound manner. Any substandard material or work which is not within permissible tolerance limits shall be summarily rejected by the Estate Officer.
- 9.3 The contractor shall make sample as per the timeline mentioned in the milestone given of this tender document using all approved materials, for approval of Estate Officer before commencement of execution of mass scale work.
- 9.4 Check nuts shall be provided while terminating the M.S. conduits in switchboard boxes for which nothing extra shall be paid.
- 9.5 All distribution boards shall be marked with circuits controlling the rooms/area/SDB controlled.
- 9.6 While deciding the size of switch boxes for light points / fan point / exhaust fan point, two extra modules shall be provided for each fan point for fixing of regulator (fan regulator is to be provided under different item). Wherever extra modules are available, the same shall be provided with blanking plates without any extra cost.
- 9.7 Contractor will not provide any ceiling rose/connector/looping box etc wherever false ceiling is being provided. The point wiring in that case will be extended up to the fitting/fan etc. directly without provisions of any termination arrangement in between. The wire from the end points up to the fixture shall be considered to be included in the point wiring. Nothing extra shall be paid for the same.
- 9.8 Wherever providing rigid conduits is not possible, flexible conduit pipe shall be provided for drawing/running the wires. However, such arrangement has to be kept minimum and only with the prior approval of Estate Officer or his authorized representative.
- 9.9 Earthing and all items of work that cannot be checked later on are to be got approved from Estate Officer or his authorized



representative before proceeding further.

- 9.10 The firm shall use only electrically operated chase cutting machine for cutting the chases in the wall for recessed conduit wiring.
- 9.11 The contractor shall follow the shortest route for circuits, sub main, point wiring etc.
- 9.12 Colour coding as per specification shall be adopted in the wiring system.
- 9.13 Tinned copper earthing lugs / Thimbles / ferrules shall be provided for termination of earth wire to all Metallic outlet boxes / fittings / fixtures / fan regulator / MCB DB / switch board / Meter board etc., properly crimped / brazed / soldered for which nothing extra shall be paid.
- 9.14 A suitable brass / tinned copper neutral link shall be fixed at suitable place in the Metallic Outletboxes of all sizes to terminate neutral wire properly. Nothing extra shall be paid on this account.
- 9.15 To facilitate drawing of wires 16 / 18 SWG GI fish wire shall be provided along with laying of recessed conduit. Nothing extra shall be paid on this account.
- 9.16 All hardware items such as screws, thimbles, connectors, earth / neutral terminals, wires etc. which are essentially required for completing any item as per specifications will be deemed to have been included in the item even when the same have not been specifically mentioned.
- 9.17 All hardware material such as nuts / bolts / screws / washers etc. to be used in the work shall be zinc / cadmium plated iron. The galvanised boxes of modular switch / sockets etc. shall be of the same make as of switch / socket etc.
- 9.18 While laying conduit, suitable minimum number of junction boxes shall be left for pulling the wires. These shall be placed in such a way that the same do not remain noticeable.
- 9.19 The ceiling roses, wherever required to be provided are included in the scope of work without extra payment and the same shall also be of modular type & of the same make as that of switches & sockets along with earthing provision.

10.0 **Testing:**

All tests prescribed in this General Specification to be done before, during and after installation shall be carried out, and the details of test results shall be submitted to the Estate Officer in approved format, that shall form part of the completion certificate of this

component.

11.0 Commissioning on completion:

After the work is completed, it shall be ensured that the installation is tested and commissioned.

12.0 Completion plan and completion certificate:

12.1 The main contractor through his associate shall submit completion plan as required vide General Specifications for Electrical works (Part-I internal) 2023 and (Part-II External) 2023 as applicable within time as stipulated in milestones.

In case, the main contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum equivalent as stipulated in clause-8B of General Condition of Contract – 2023 amended up to last date of submission of tender.

12.2 Three sets of completion plan as well as in soft copy drawn to a suitable scale indicating the following shall also be submitted:

- (i) General layout of the building.
- (ii) Locations of main switchboard and distribution boards, indicating the circuit numbers controlled by them.
- (iii) Position of all points and their controls.
- (iv) Cable layout & Schematic drawings.
- (v) All test report & warranty certificates.
- (vi) Name of work, job number, tender reference, actual date of completion, names of Division/Sub-division and name of the main contractor and associate both who executed the work with their signature.



LIST OF APPROVED MATERIALS for the Work

Note :

1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
2. The Contractor shall obtain prior approval from the Estate Officer before placing order for any specific material/ Brand/ Make.
3. Whenever the specified brand of material is not available then the Estate Officer may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

S. No.	Material	Manufacturer
1	LT TTA (Type Tested Assembly) Panels	Channel partners of Schneider/L&T/ABB/Legrand/Siemens
2	MCCBS	SIEMENS, Hager ,L&T, ABB, SCHNEIDER, LEGRAND,
3	MCB, ELCB, RCCB, DB and RCBO. Distribution board shall be of the same make of MCB, ELCB, RCCB, DB and RCBO.	Schneider Electric ACTI-9/ Legrand(DX3)/ L&T (Exora)/Siemens(Betagard)/ABB(S200M)/Hager.
4	LT cables, 1.1 KV grade & HT cable of 11 kV grade	HAVELLS, RR KABEL, FINOLEX, KEI, Polycab, Grandlay
5	FRLS copper wires and cables, 1.1 KV grade	HAVELLS, RR KABEL, FINOLEX, Grandlay
6	Switch Socket accessories.	Legrand(Arteor)/Schneider Electric (Zencelo)/ Honeywell (ORNA)
7	Lugs and Ferrules	DOWELLS, JAINSON
8	Brass Compression Gland (Heavy duty)	Dowells, GRIPWELL, Comet, Raychem
9	Cable Lugs & Thimbles	Comet /Dowell's/Hax Brass(Copper Alloy India)/Schneider
10	UPVC wall mounted raceway / trunking	MK/Legrand/ Schneider/Hager
11	MS Conduit and Pipes	BEC, AKG, STEEL CRAFT
12	MS Conduit Accessories (Heavy duty)	BEC, AKG, STEEL CRAFT
13	Pipes and Accessories (ISI)	TATA, JINDAL, SAIL
14	Street /landscape LED Light Fixtures	PHILIPS, WIPRO, BAJAJ, SCHREDER
5	HT Cable Joint	3M/Raychem



17	4 Way Junction Box with fuse / MCB with heavy duty loop connector in poles	LEGRAND, SCHNEIDER, ABB, L& T
19	Exit Light and Emergency light	PHILIPS, WIPRO, BAJAJ, PROLITE, LEGRAND
20	Selector Switch	RISHAB – L&T, KAYCEE, SIEMENS, C&S, Salzer
21	CT/PT	AE, GILBERT, PRECISE, KAPPA
22	Aviation Light	BAJAJ, WIPRO, PHILIPS
23	Photo Chromatic Switch	BAJAJ, WIPRO, PHILIPS
24	Annunciation Panel	CROMPTON, AREVA, SIEMENS, KIRLOSKAR
25	Terminal Blocks	BCH, INDUSTRIAL CONTROL, JAINSON
26	Change Over Switch	L&T, SOCOMEC, SIEMENS, HAGER
27	Bus bar	JINDAL, HINDALCO, CENTURY
28	Chemical Earthing	JEF ECOSAFE, ERICO, TEREK PLUS ,JMV LPS Ltd.
29	GI pipes	JINDAL (Hissar), TATA, SAIL
30	Timers & Contactors to be mounted in DB's	L&T, SIEMENS, SCHNEIDER, LEGRAND
31	MV Contactors/Timer/ Starters	L&T, SIEMENS, SCHNEIDER, LEGRAND
32	Protective Relays	AREVA, SIEMENS, L&T
33	kWh Meters (Electronic Digital type) /Multifunction Meter / Ammeter/ Voltmeter)	CONSERVE, SECURE, CAPITAL, HPL, Genus
34	Cable Tray	MEM, PROFAB, RICO, INDIATECH
35	Wall&floorRaceway/	LEGRAND, MK, SCHNEIDER, OBO
36	Indication Lamps/Push Button	L&T, BCH, GE
37	Exhaust Fans	Havells/ Crompton /Almonard
38	Ceiling Fans	Havells/Crompton Greaves/Orient
39	DWC HDPE PIPE	SUPREME,JAIN,KISSAN,GEMINI
40	Polycarbonate Junction Boxes	HENSEL, CLIPSAL, MENEKKES
41	Fasteners	HILTI, FISCHER, BOSCH, WURTH
42	UPS	APC, EMERSON/ Eaton/ /Vertiv/Mitsubishi

Note: 1) In case approved make for any material/item is not specified in the NIT, the decision of finalizing a particular brand shall rest with Estate Officer, IIM Udaipur or his successor there off.

2) In case of non-availability of a particular material/item from specified manufacturers/makes, the decision of Estate Officer, IIM Udaipur or his successor there off in selection of alternate manufacture/ make is final.

Declaration of Acceptance of NIT

To,
The Director, IIM Udaipur
Balicha, Udaipur,

Sub: Submission of Tender for the work of **“Name of Work - Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)”**

Dear Sir,

I/We acknowledge that we are committed to follow the principles thereof as enumerated in the Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that **THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE** of this condition of the NIT.

Yours faithfully

(Duly authorized signatory of the Tenderer)

DRAFT AGREEMENT

AGREEMENT made this day of _____ Two Thousand___between the Indian Institute of Management Udaipur incorporated as Institutions of National Importance through its Director IIM Udaipur (hereinafter referred to as "The Institute and M/s _____(Hereinafter referred to as "The Contractor") which expression shall include his/their respective heirs, executors, administrators and assigns of the other part.

WHEREAS the Institute is desirous for " _____" and has caused drawings and specifications describing the work to be done and WHEREAS the said drawings as per list attached, the specifications, the priced Schedule of Quantities the conditions of tender and the conditions of contract have been signed by or on behalf of the parties hereto AND WHEREAS the contractor has agreed to execute upon and subject to the condition set forth (herein after referred to as 'the said conditions') the work shown upon the said drawings and described in the said specification and the said priced Schedule of Quantity 'at the respective rates mentioned in the priced Schedule of Quantities.

AND WHEREAS the contractor has deposited by Cash / FDR a sum of Rs. _____/- (Rupees _____ only), with the Institute for the due performance of this agreement.

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the payments to be made to the contractor as herein after provided the Contractor shall upon and subject to the said conditions execute and complete the works shown upon the said drawing and such further detailed drawings as may be furnished to him by the said Institute and described in the said specification, and the said priced Schedule of Quantities.
2. The Institute shall pay the contractor such sums as shall become payable hereunder at the time and in the manner specified in the said conditions.
3. Time is the essence of the agreement. In the event of the Contractor failing to comply with this condition, he shall be liable to pay compensation as per clause 2 of the condition of the contract as decided by the competent authority of the Institute in writing which shall be final and binding on the contractor.
4. The Drawings, specifications and priced Schedule of Quantities above mentioned shall form the basis of this contract and the decision of the Director or Arbitrator or Umpire as mentioned in the conditions of the Contract in reference to all matters of disputes as to material, workmanship or account and as to the intended interpretation of the clause of this agreement or any other document attached here to shall be final and binding on both parties and may be made a rule court.
5. The said contract comprises the work above mentioned, and all the subsidiary work connected therewith the same site all may be ordered to be done from time to time by the institute even though such works may not be shown on the drawings or described in the said specifications or the priced Schedule of Quantities.
6. The institute reserves the right altering the drawings and nature of the work and of adding to or omitting any items of work or of having portions of the same carried out instituteally or otherwise and such alterations or variations shall not vitiate this contract.
7. The said conditions and appendix there to shall be read and construed as forming part of this agreement and the parties here to will respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their parts respectively in such conditions contained.



8. All other disputes and differences except those excluded specifically as per applicable GCC shall be dealt with as per provision at “**Dispute Resolution**” under particular specifications and special conditions
9. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen in Udaipur and only courts in Udaipur shall have jurisdiction to determine the same.
10. The several parts of this contract have been read to us and fully understood by us. In witness whereof the parties hereto have set their respective hands the day and the year herein above written.

Chief Of Administration

In the
presence of:
1.

For and on
behalf of the Director

2.

Contractor

On Non-Judicial Stamp Paper of minimum Rs. 100 (Guarantee offered by Bank to Institute in connection with the execution of contracts)

Form of Bank Guarantee for Earnest Money Deposit / Performance Guarantee / Security Deposit

PROFORMA OF PERFORMANCE BANK GUARANTEE

1 In consideration of the Director IIM Udaipur (hereinafter called "IIM UDAIPUR") having offered to accept the terms and conditions of the proposed agreement between IIM, UDAIPUR and(hereinafter called "the said organization (s) for the work of "")

.....(hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rupees..... only) as a security/ guarantee from the organization (s) for compliance of his obligations in accordance with the terms & conditions in the said agreement.

2 We (hereinafter referred to as the "Bank") do hereby undertake to pay amounts due and payable (indicate the name of the Bank) under this Guarantee without any demur, merely on a demand from the IIM, UDAIPUR stating that the amount claimed is required to meet the recoveries due or likely to be due from the said organisation (s). Any such demand made by the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this Guarantee we shall be restricted to an amount not exceeding Rs..... (Rupees... ..)

3 We, the said Bank, further undertake to pay to the IIM, UDAIPUR any money so demanded notwithstanding any dispute or disputes raised by the organisation (s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under bond shall be a valid discharge of our liability for payment thereunder, and the organisation (s) shall have no claim against us for making such payment.

4 We..... further agree that the Guarantee herein contained shall (indicate the name of the Bank) 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 IIM UDAIPUR under or by virtue of the said agreement have been fully paid, and its claims satisfied or discharged, or till the Chief Administrative Officer, IIM Udaipur on behalf of the IIM UDAIPUR, certifies that the terms & conditions of the said organisation (s), and accordingly discharges this guarantee.

5 Wefurther agree with the IIM UDAIPUR that the IIM UDAIPUR (indicate the name of the Bank) shall have the fullest liberty without our consent , and without effecting in any manner our obligations hereunder, to vary any of the terms & conditions of the said agreement or to extend time of performance by the said organization (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the IIM UDAIPUR against the said organization (s) and to forbear or enforce any of the terms and conditions relating to the said agreement, and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said organization (s) or for any forbearance, act of omission on the part of the IIM UDAIPUR or any indulgence by the IIM UDAIPUR to the said organization (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.

6 This Guarantee will not be discharged due to the change in the constitution of the Bank or the organization (s).

7 We..... lastly undertake not to revoke this Guarantee except with (indicate the name of the Bank) the previous consent of the IIM UDAIPUR in writing.

8 This guarantee shall be valid up to.....unless extended on demand by IIM UDAIPUR.

Notwithstanding anything contained hereinabove:

- a) Our liability under this Guaranteeshall not exceed Rs..... (Rupees. Only).
- b) This Bank Guarantee shall be valid up to.....and
- c) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before
..... . All yours rights under the said guarantee be forfeited and we shall be relieved and discharged from all liabilities thereunder.

Dated the day of for

(Indicate the name of the Bank)

*Date to be worked out on the basis of validity period or 90 days where only financial bids are invited and 180 days for two / three bid system from the date of submission of tender.

**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee / security deposit / mobilization advance, as the case may be.

**INFORMATION REGARDING ELIGIBILITY LETTER OF
TRANSMITTAL**

From:

To

**The Director
IIM Udaipur**

Subject: Submission of Bid for the work
"....."

Sir,

Having examined the details given in **bid** document for the above work, I / we hereby submit the relevant information.

1. I / we hereby certify that the statement made and information supplied in the enclosed forms **A to J** and accompanying statement are true and correct.
2. I / we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I / we submit the requisite certified Solvency Certificate and authorize the IIM Udaipur to approach the bank issuing the Solvency Certificate to confirm the correctness thereof. I / We also authorize Estate Officer, IIM, Udaipur to approach individuals, employers, firms & Corporation to verify out competence and general reputation.
4. I / we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following **eligible similar** works:

Name of work	Certificate From

Certificate:

It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I / we shall be liable to be debarred, disqualified / cancellation of enlistment in case of any information furnished by me / us found to be incorrect.

Enclosures: Seal of bidder

Seal of bidder

Date of submission:

Signature(s) of Bidder(s)



FORM 'A'

FINANCIAL INFORMATION

- I. **Financial Analysis** – Details to be furnished duly supported by figures in Balance Sheet / Profit & Loss Account for 5 (five) years duly certified by the Chartered Accountant, as submitted by the applicant to the Income-Tax Institute (Copies to be attached).

Note: The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive years' balance sheets, duly audited and certified by the Chartered Accountant. **(The balance sheet in case of Pvt./ Public Ltd. company means its standalone finance statement and consolidated financial statement both).**

Financial Years
(In lakh)

Sl. No	Details	1	2	3	4	5
		2023-24	2022-23	2021-22	2020-21	2019-20
(i)	Gross annual turnover in works.					
(ii)	Profit / Loss					

- II. Financial arrangements for carrying out the proposed works.
Note: Attach additional sheets, if necessary

Signature of Chartered Accountant with seal

Signature (s) of Bidder(s)



FORM 'B'

**FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED
ACCOUNTANT**

“It is to certify that as per the audited balance sheet and profit & loss account during the financial year

_____, the Net worth of M/s _____ (Name & Registered Address of individual / firm/company), as on ____ (the relevant date) is Rs. _____ after considering all liabilities. It is further certified that the Net worth of the company has not eroded by more than 30% in the last three years ending on (the relevant date)”

Signature of Chartered Accountant	
Name of Chartered Accountant	
Membership no. of ICAI	
Date and seal	



FORM 'C'

Details of eligible similar nature of **works completed** during the last seven years. (Ending up to previous day of last date of submission of online tender)

Sl. No.	Name of work / Project and location	Owner or Sponsoring organization	Cost of work (in crores)	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation Arbitration pending / in progress with details *	Name and Address/ Telephone number of officer to whom reference may be made.	Whether the work was done on back-to-back basis Yes / No
1	2	3	4	5	6	7	8	9	10

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

Supporting documents to be attached.

Signature of Tenderer(s)



FORM 'D'

Performance Report Of Works Referred In Form 'C' – M/s

.....

(Furnish this information for each individual work from the employer for whom the work was executed)

1. Name of work
/ Project &
Location.
2. Agreement No.
3. Estimated Cost
4. Tendered Cost
5. Actual value of work done
6. Date of start
7. Date of completion
 - a) Stipulated date of completion
 - b) Actual date of completion
8. (a) Whether case of levy of compensation for delay has been decided or not **Yes/No**
(b) If decided, amount of compensation levied for delayed completion, if any
9. Performance report
 - i) Quality of work Outstanding/ Very good /Good/ Poor
 - ii) Finance Soundness Outstanding/ Very good /Good/ Poor
 - iii) Technical Proficiency Outstanding/ Very good /Good/ Poor
 - iv) Resourcefulness Outstanding/ Very good /Good/ Poor
 - vi) General behavior Outstanding/ Very good /Good/ Poor

Date

Executive Engineer or
Equivalent (Seal of the
organisation)



FORM 'E'

Structure & Organization

1.	Name and address of Tenderer	
2.	Telephone No. / Fax No. / email address	
3.	Legal status of the Tenderer (Attach copies of original document defining the legal status). The applicant is: a) An individual b) A proprietary firm c) A Firm in partnership d) A limited company or corporation	
4.	Particulars of registration with various Govt. bodies (Attach attested photocopies) a) Registration Number b) Organization / Place of registration c) Date of validity	
5.	Name and title of Directors and officers with designation to be concerned with this work.	
6.	Designation of individual authorized to act for the organization.	
7.	Has the Tenderer or any constituent partner in case of partnership firm Limited Company/Joint Venture, ever been convicted by the court of law? If so, give details.	
8.	In which field of HVAC /Electrical Installation, the Tenderer has specialization and interest?	
9.	Any other information considered necessary but not included necessary but not included above.	

Signature of Tenderer(s)

FORMAT FOR UNDERTAKING FOR SITE INSPECTION

To
The Estate Officer,
IIM Udaipur

I/we hereby give an undertaking for the given work as follows:

Sub: NIT No.:

I/we have inspected and examined the site and its surroundings is / are satisfied before submitting our bid as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation I/we may require and in general shall myself / ourselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid. I/we shall be deemed to have full knowledge of the site whether I/we inspect it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. I/we shall be responsible for arranging and maintaining at our 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 I/we implies that I/we have read this notice and all other contract documents and has made myself / our self-aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to us by the Government and local conditions and other factors having a bearing on the execution of the work.

Place:

Date:

Yours faithfully
(Signatures of
Bidder(s))

Form 'H'

Declaration regarding local contents for preference make in India.

It is hereby clarified that I will follow the DIPP order No. P45021/2/2017-PP(BE-II) dated 28.05.2018 regarding PPP-MI and MEITY notification number 33(1)/2017-IPHW dated 14.09.2017, wherein it is the policy of the Government of India to encourage “Make in India” and promote manufacturing and production of goods and services in India with a view to enhancing income and employment. Therefore, convergence with other existing centrally sponsored and missions such as Make in India etc. shall be ensured during the designing and production.

Seal & Signature of the
bidder(s)

Form 'I'

**Undertaking for GST registration Certificate of the State i.e. other than
(Rajasthan)**

“If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by the institute, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by the institute or GST institute in this regard”.

Seal & Signature of the
bidder(s)

Form 'J'

CERTIFICATE & DECLARATION

It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. No forged / tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that IIM, Udaipur is authorized to make enquiry to establish the facts claimed and obtain confidential reports from clients.

In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we have made any wrong claims, we are liable for forfeiture of EMD/SD and or any penal action and other damages including withdrawal of all work / purchase orders being executed by us. Further IIM, Udaipur is also authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.

I / We assure the Institute that neither I / We nor any of my / our workers will do any act/s which are improper / illegal during the execution in case the tender is awarded to us.

Neither I / We nor anybody on my / our behalf will indulge in any corrupt activities / practices in my / our dealing with the Institute.

Our Firm/ Company/ Agency is not blacklisted or banned by any Govt. Institute, PSU, University, Autonomous Institute or Any other Govt. Organization.

Date

Signature of the Tenderer

Place

Stamp

Note: This certificate should be executed on duly notarized Rs.500/- Non-Judicial Stamp Paper.

Form 'K'

Authority for signing the tender document.

Name of work:

NIT No.:

I,..... (***Name & Designation of owner/proprietor/authorized person***)

of Firm (***M/s***)

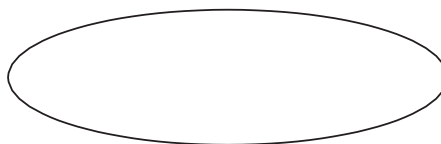
..... (***Name & Complete***

address of the agency / company/ firm,

hereby authorize

(authorised signatory, Designation) to sign the tender document for the above cited work.

Sign. of the tender signing person



Attested by

Sign. of the authorised signatory of the firm

Note : This certificate should be executed on duly notarized Rs.500/- Non-Judicial Stamp Paper.

FORM 'L'

Furnish an affidavit on non-judicial stamp paper worth Rs.500/-

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 Institute, then I/we shall be debarred for bidding in IIM Udaipur in future forever. Also, if such a violation comes to the notice of the Institute before date of start of work, the Estate Officer shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid).

Signature of Notary with seal

Signature of bidder or
an Authorized person
of the firm with stamp

**Note: Affidavit to be furnished on a 'non-judicial' stamp paper of Rs.500/-.
(Scanned copy of the notarized affidavit to be uploaded at the time of
submission of bid.**

Form - M

Undertaking for EPFO registration Certificate

“If work is awarded to me, I/we shall obtain EPFO registration Certificate within one month from the date of receipt of award letter or before release of any payment by the institute, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by the institute in this regard”.

Seal & Signature of the
bidder(s)

Form - N

Undertaking for ESIC registration Certificate

“If work is awarded to me, I/we shall obtain ESIC registration Certificate within one month from the date of receipt of award letter or before release of any payment by the institute, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by the institute in this regard”.

Seal & Signature of the
bidder(s)



Schedule of Quantities

Name of Work - Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)

S.No	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Supplying of 3.5 core x 300 sq mm size of XLPE insulated armored aluminum conductor power cable of 1.1 KV grade.	Meter	575.00	₹ 5,103.00	₹ 29,34,225.00
2	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required. Above 185 sq. mm and upto 400 sq. mm	Meter	28.00	₹ 115.00	₹ 3,220.00
3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Meter	6.00	₹ 226.00	₹ 1,356.00
4	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray using PVC Cable tie as required. Above 185 sq. mm and upto 400 sq. mm	Meter	310.00	₹ 185.00	₹ 57,350.00
5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required. Above 185 sq. mm and upto 400 sq. mm	Meter	231.00	₹ 134.00	₹ 30,954.00
6	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 3.5 X 300 sq. mm (70mm)	Each	4.00	₹ 1,195.00	₹ 4,780.00



7	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 300 mm width X 62.5 mm depth X 2.0 mm thickness	Meter	36.00	₹ 1,190.00	₹ 42,840.00
8	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required. 90 mm dia (OD-90 mm & ID-76 mm nominal)	Meter	72.00	₹ 290.00	₹ 20,880.00
9	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required. 200 mm dia (OD-200 mm & ID-175 mm nominal)	Meter	12.00	₹ 668.00	₹ 8,016.00
10	Electrical Feeder Panel with MS Frame				



<p>Supply, installation, testing and commissioning of dust, damp and vermin proof cubicle, free floor standing, indoor type factory built sheet steel enclosed modular bolted construction extendable Type Tested Assembly (TTA) panel, suitable for operation on 415 ±10% volts, 50 Hz AC 3 phase 4 wire supply system fabricated out of suitable sized square section and covered with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates. This includes cleaning & finishing complete with 7 tank process for powder coating in to be approved shade, having 1000 Ampere (as per I/C of the panel) Amps. capacity extensible type 4 wire Aluminum bus bars of high conductivity, DMC/ SMC bus bar supports, with short circuit withstand capacity of 50 KA for 1 sec., bottom base channel of section not less than 100mmX 50mmX 3mm thick, fabrication shall be done in transportable sections, entire panel shall have a common Aluminium bus bars and earth bus bar. Bus bars and inter-connection shall be with solid aluminium conductor wires.</p>	1	Nos.	₹ 11,40,940.00	₹ 11,40,940.00
<p>Incoming:</p>				
<p>1 No.- 800 Amp.TPN Air Circuit Breaker Horizontal Manual draw out type of fault breaking capacity 50kA (Ics=Icu =Icw for 1 sec. at 415V), fitted with an interlocked door, automatic safety shutters, required numbers of auxiliary contacts, mechanical ON/OFF and service/ test/ isolated position indicators and frame earthing contact, conforming to IS-13947-2 1993 as amended up-to-date complete with following accessories.</p>				
<p>Over / Under voltage relay with tripping mechanism</p>				
<p>Independent Electrical & manual spring closing mechanism</p>				
<p>Microprocessor release (EMI & EMC certified) for over current, earth fault & short circuit protection with RS 485 / Ethernet port on open protocol</p>				



3 Nos. Phase indication LED lamps with 2Amp back up MCB, breaker 'ON/OFF/TRIP' indicating light with 2A MCB, test terminal block set, circuits as per standard practice, auxiliary contacts for positive interlocking of the breakers as required.				
Multifunction digital meter to read V, Amp, Hz, KW, KWH, KVA _r , THD, Peak Demand, etc with 3 nos. resin cast CT's of 800/5A class 1.0 accuracy and VA burden as per requirement.				
Shunt trip coil 220V A.C.				
Outgoings:				
1 Nos. 500 Amp TPN microprocessor based release, MCCB (I _{cs} =I _{cu} at 415 Volts) with O/L, S/C & built-in earth fault protection. The MCCB compartment shall contain : with required accessories for each MCCB's (For 350 TR, VFD-driven chiller)				
Over / Under voltage relay with tripping mechanism				
On, OFF, TRIP etc Indicating lamps				
Connecting bus bars shall be TPN / FP as per switchgear & shall be of same material & KA rated of main busbar and shall be sleeved with colour coding.				
02 Nos. 125 amps TPN microprocessor based release, MCCB (I _{cs} =I _{cu} at 415 Volts) with O/L, S/C & built-in earth fault protection. The MCCB compartment shall contain : with required accessories for each MCCB's. (For 45 kW, VFD-driven Secondary Pump)				
Over / Under voltage relay with tripping mechanism				
On, OFF, TRIP etc Indicating lamps				
Connecting bus bars shall be TPN / FP as per switchgear & shall be of same material & KA rated of main busbar and shall be sleeved with colour coding.				



	01 No. 100 amps TPN MCCB with 37 KW Y / Δ starter, over load relay with built in single phasing protection and outgoing feeders to Condensor pumps. Each of these compartment shall contain CT operated digital ammeter of 0- 63 amps range with selector switch, auto / manual / off selector switch and an indicating lamp with MCB and toggle switch for 'ON' status of pump motors. (For 37 kW, Y / Δ starter driven Condenser Pump)				
	03 No. 32 amps TPN MCCB with 11 KW Y / Δ starter, over load relay with built in single phasing protection and outgoing feeders to Condensor pumps. Each of these compartment shall contain CT operated digital ammeter of 0- 63 amps range with selector switch, auto / manual / off selector switch and an indicating lamp with MCB and toggle switch for 'ON' status of pump motors. (For 11 kW, Y / Δ starter driven Primary Pump)				
	03 Nos. 32 amps TPN MCB with 7.5 KW Direct Online Starter (DOL starter), over load relay with built in single phasing protection and outgoing feeders to Primary Chilled Water pump motors. Each of these compartment shall contain CT operated digital ammeter of 0- 63 amps range with selector switch, auto / manual / off selector switch and an indicating lamp with MCB and toggle switch for 'ON' status of pump motors. (For 7.5 kW, Direct Online Starter (DOL starter) driven Cooling Tower Fans)				
	Necessary cable alleys, space for spare switches, internal wiring, control wiring / cabling shall also be included.				
11	Supplying of 3 core x 240 sq mm size of XLPE insulated armored aluminum conductor power cable of 11 KV (UE) grade Aluminium HT Cables, Stranded Compacted Circular Aluminium Conductor, Conductor Screen with Extruded Semi Conducting Compound, XLPE Insulated, Insulation Screening with Extruded Semi Conducting Compound in Combination with Copper Tape, AL Round Wire Armoured, and Overall PVC Sheathed Cable Conforming to IS 7098 (Part- 2) 2011 with upto Date Amendments.	Meter	1225.00	₹ 3,686.00	₹ 45,15,350.00



12	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required. Above 120 sq. mm and upto 400 sq. mm	Meter	375.00	₹ 115.00	₹ 43,125.00
13	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing pipe as required. Above 120 sq. mm and upto 400 sq. mm	Meter	850.00	₹ 134.00	₹ 1,13,900.00
14	Supplying and laying of HDPE pipe 125 mm Inner dia (nominal size) (PN- 2.5) ISI marked along with all accessories like socket, bend, couplers, etc. conforming to IS 14333 amended up to date, complete with fitting and cutting, jointing, etc. in the existing trench/direct in the ground including excavation upto 60 cm depth and refilling the same/wall surface, the pipe must be clamped at a distance of not more than 1 meter on wall with MS clamp of size 40 mm X 3 mm flat iron complete as required as per direction of Estate Officer.	Meter	800.00	₹ 348.00	₹ 2,78,400.00
15	Supplying and laying of HDPE pipe 140 mm Inner dia (nominal size) (PN- 2.5) ISI marked along with all accessories like socket, bend, couplers, etc. conforming to IS 14333 amended up to date, complete with fitting and cutting, jointing, etc. in the existing trench/direct in the ground including excavation upto 60 cm depth and refilling the same/wall surface, the pipe must be clamped at a distance of not more than 1 meter on wall with MS clamp of size 40 mm X 3 mm flat iron complete as required as per direction of Estate Officer. (This pipe will act as a socket to encase the joint of pipe (125 mm dia HDPE pipe) after cutting longitudinally using synthetic adhesive)	Meter	36.00	₹ 411.00	₹ 14,796.00
16	supplying and making indoor cable end termination with heatshrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required: 240 sq mm	Each	2.00	₹ 16,249.00	₹ 32,498.00



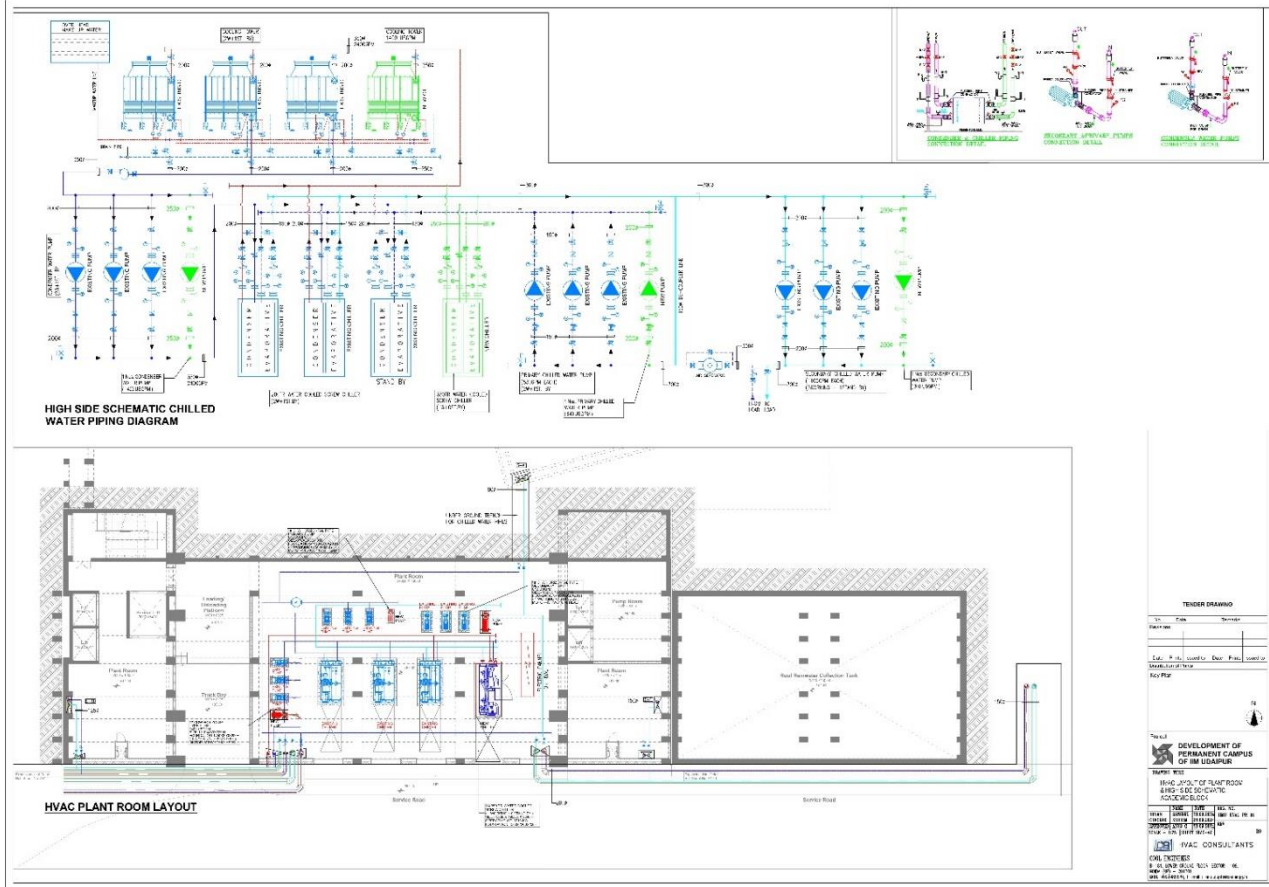
17	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required : 240 sq mm	Each	2.00	₹ 41,892.00	₹ 83,784.00
18	Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.	Cum	2	₹ 5,032.25	₹ 10,064.50
19	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	1	₹ 7,810.75	₹ 7,810.75
20	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	₹ 7,472.00	₹ 14,944.00
21	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Meter	200	₹ 244.00	₹ 48,800.00
22	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	40	172.60	₹ 6,904.00
Total Amount (Rs.) i/c GST					₹ 94,14,937.25
(Say) Total Amount (Rs.) i/c GST					₹ 94,14,937.00



IIMU

भारतीय प्रबंध संस्थान उदयपुर
Indian Institute of Management Udaipur

Chiller Plant Layout



Proforma of Quoting Rates

Name of Work: Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4)						
Contract No: IIMU/Tender/HT< Cable-350TR/2024-25						
Name of the Bidder/ Bidding						
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant column, also the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Value only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Unit	Estimated Rate in Br. P	TOTAL AMOUNT With Taxer	TOTAL AMOUNT In Words
1	2	3	4	5	54	7
1.01	Augmentation of the existing Water-cooled Chiller Plant at the Indian Institute of Management, Udaipur. (SH:- Supplying and laying of LT Cable for 350 TR Chiller and HT cable from ESS no. 2 to ESS no. 4) as per specifications and SOQ mentioned in the	1	Nos	9414937	9414937.00	INR Ninety Four Lakh Fourteen Thousand Nine Hundred & Thirty Seven Only
Total in Figures					9414937.00	INR Ninety Four Lakh Fourteen Thousand Nine Hundred & Thirty Seven Only
Quoted Rate in Figures			Select		0.00	INR Zero Only
Quoted Rate in Words			INR Zero Only			