



INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI – 110016

AC DIVISION

TENDER DOCUMENT

NAME OF WORK : Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi

ESTIMATED COST ₹ : 7,45,92,224.00

EMD ₹ : 14,91,850.00 (No exemption allowed)

N.I.T. No. : 41/1121/IITD/AC/2026-27

Date of Opening : 12-08-2026

NIT for the above-mentioned work has been prepared with the following:

1	Amount of NIT (INR)	:	7,45,92,224.00
2	Earnest money (INR)	:	14,91,850.00
3	Completion time	:	150 days + 5 Years CAMC post DLP
4	Last date of submission (online)	:	11-08-2026 upto 3 PM
5	Date of opening	:	12-08-2026 after 3 PM
6	Form of NIT	:	CPWD / IITD – 8
7	Schedule applicable	:	Current Market Rate
8	Material stipulated	:	As per Schedule of Work
9	Chargeable heads	:	35.01.06 & 31.06.30
10	Work code no.	:	2021/006/1121& 2021/006/1122 (CAMC Work)
12	NIT No.	:	41/1121/IITD/AC/2026-27

Certified that this NIT contains 1 to 74 pages.

Civil work amount : Rs.23,50,112.00
Electrical + HVAC Work : Rs.7,22,42,112.00

JE

AEE-in-charge
AC Division

NIT amounting to Rs.7,45,92,224.00 is approved.

Institute Engineer

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INDIAN INSTITUTE OF TECHNOLOGY DELHI

AC DIVISION

NOTICE INVITING E-TENDER

IITD/WORKS (SP-5363)/2026

Assistant Executive Engineer-in-charge, AC Division, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016, Ph. No. 011-2659 1746 on behalf of Board of Governors invites online Item Rate Tender from **Contractors of Repute in two bid system as per details given below.**

1	Name of work	:	Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi
2	NIT No.	:	41/1121/IITD/AC/2026-27
3	Estimated Cost (Rs.)	:	7,45,92,224.00
4	Earnest Money Deposit (Rs.)	:	14,91,850.00 (No exemption allowed)
5	Period of CAMC	:	150 days + 5 Years CAMC post DLP
6	Last date & time of bid submission	:	Upto 3 PM of 03-08-2026
7	Performance Bank Guarantee	:	5 percent of the Estimated cost put to tender (ECPT) or Contract amount whichever is higher (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.

The bid forms and other details may be downloaded from Central Public Procurement Portal (<http://eprocure.gov.in/eprocure/app>). Aspiring bidders who have not enrolled / registered in e-procurement should enrol / register themselves before participating through web site <http://eprocure.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at "Instructions for online bid submission."

Bidders can access quotation / tender documents on the website (for searching in the NIC site), kindly go to quotation search option and type 'IIT'. Thereafter, click on "GO" button to view all IIT quotations. Select the appropriate quotation / tender and fill them with all relevant information and submit the completed Quotation / Tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given in the next page.

No manual bids will be accepted. All bids (both Technical & Financial) should be submitted in the e-procurement portal.

Assistant Executive Engineer-in-charge, AC Division
For & on behalf of BOG, IIT Delhi

Ch. Head	:	35.01.06		Work Code	:	2021/006/1121
Ch. Head	:	31.06.30		Work Code	:	2021/006/1122

Copy to:-

1. DR / A.R. (Works)
2. A.R. (A/C)
3. A.R. (Store Purchase Section)
4. Notice Board
5. Office copy

SCHEDULE

1	Name of organisation	:	Indian Institute of Technology Delhi
2	Tender / Quotation type (open / limited / EOI / auction / single)	:	Open
3	Tender / Quotation category (services / goods / works)	:	Services, goods & works
4	Type of Contract (work / supply / auction / service / buy / empanelment / sell)	:	Works & Services
5	Form of contract (IITD – 7/8)	:	IITD – 8
6	Work Category (civil / electrical / fleet management / computer systems)	:	Civil, Electrical & Air Conditioning
7	Is multi-currency allowed?	:	No
8	Date of publishing / issue / start	:	04-08-2026 at 16.00 Hrs
9	Document download start date	:	04-08-2026 at 16.00 Hrs
10	Document download end date	:	11-08-2026 at 15.00 Hrs
11	Date & time of pre-bid meeting	:	No pre-bid meeting be held
12	Venue of pre-bid meeting	:	Not applicable
13	Last date & time of uploading of bids	:	Upto 3 PM of 11-08-2026
14	Date & time of opening of Technical Bids	:	12-08-2026 after 3 PM
15	Earnest Money Deposit (EMD) Rs.	:	14,91,850.00 (No exemption allowed)
16	Mode of payment of EMD	:	Can be paid through RTGS/NEFT/Offline as under. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II)) OR Demand Draft / FDR favouring Registrar, IIT Delhi Payable at SBI, IIT Delhi Branch. Scanned copy of DD / FDR needs to be uploaded alongwith the Technical Bid. Exact Original DD/ FDR shall have to be submitted to the tender inviting authority by the bidder as and when required after opening of bid.
17	Bid without EMD / Non-submission of original DD	:	To be considered as UNRESPONSIVE and bid shall summarily be rejected
18	No. of bids / covers (1 / 2 / 3 / 4)	:	2

19	Address for communication	:	Assistant Executive Engineer-in-charge, AC Division, Works Department, IIT Delhi, Hauz Khas, New Delhi – 110016
20	Contact No.	:	011 2659 1746
21	e-mail address for communication	:	a26984@admin.iitd.ac.in ; ie@admin.iitd.ac.in

INSTRUCTIONS FOR ONLINE BID SUBMISSION

As per the directives of Department of Expenditure, this quotation / tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>). The bidders are required to submit softcopies of their bids electronically on the CPP portal, using valid Digital Signature Certificates (DSC). The instructions given below are meant to assist the bidders in registering on the CPP portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP portal.

More information useful for submitting online bids on the CPP portal may be obtained at <http://eprocure.gov.in/eprocure/app>

REGISTRATION

1. Bidders are required to enrol on the e-procurement module of the Central Public Procurement portal (URL: <http://eprocure.gov.in/eprocure/app>) by clicking on the link, "click here to enrol". Enrolment on the CPP portal is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
3. Bidders are advised to register their valid e-mail address and mobile number as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (class 2 or class 3 certificates with signing key usage) issued by any certifying authority recognised by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.) with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
6. Bidder then logs into the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the CPP portal to facilitate bidders to search active tenders by several parameters. These parameters could include tender ID, organisation name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organisation name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. The tenders can be moved to the respective “My Tenders” folder. This would enable the CPP portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each other, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bids. Please note the number of covers in which the bid documents have to be submitted. Any deviations from these may lead to rejection of the bids.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black & white option.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor's certificates, etc.) has been provided to the bidders. Bidders can use “My Space” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

1. Bidder should log into the site well in advance for bid submission so that he / she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as “on-line” to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page no. 3)

4. A standard BOQ Format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the white coloured [unprotected] cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

OR

In some cases financial bids can be submitted in PDF format as well (in lieu of BOQ).

5. 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.
6. 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 unauthorised 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.
7. The uploaded tender documents become readable only after the tender opening by the authorised bid openers.
8. Upon the successful and timely submission of bids, 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.
9. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS

1. Any queries relating to 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.
2. Any queries relating to the process of online bid submission or queries relating to CPP portal in general may be directed to the 24 x 7 CPP Portal Help Desk. The contact number of the helpdesk is 18002337315.

GENERAL INSTRUCTIONS TO THE BIDDERS

1. The tenders will be received online through portal <https://eprocure.gov.in/eprocure/app>. In the technical bids, the bidders are required to upload all the documents in PDF format.
2. Possession of a valid class II / III Digital Signature Certificate (DSC) in the form of smart card / e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <https://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained

from the authorised certifying agencies, details of which are available in the website <https://eprocure.gov.in/eprocure/app> under the link “Information about DSC”.

3. Tenderers are advised to follow the instructions provided in the “Instructions to the tenderer” for the e-submission of the bids online through the Central Public Procurement Portal for e-procurement at <https://eprocure.gov.in/eprocure/app>.

INFORMATION & INSTRUCTION TO BIDDERS FOR E-TENDERING

Assistant Executive Engineer-in-charge, AC Division, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016, Ph. No. 011-2659 1746 on behalf of Board of Governors invites online Item Rate Tender from **Contractors of Repute in two bid system as per details given below:**

Sr. No.	NIT No.	Name of Work & Location	Estimated cost put to bid (Rs.)	Earnest money (Rs.)	Period of CAMC	Last date & time of submission of bid	Time & date of opening of Technical Bid	Time & date of opening of Financial Bid
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	41/1121/IITD/AC/2026-27	Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi	7,45,92,224.00	14,91,850.00 (No exemption allowed) to be returned after submission of P.G.	150 days + 5 Years CAMC post DLP	Upto 3 PM of 11-08-2026	12-08-2026 after 3 PM	To be decided after assessing Technical Bids

- The successful bidder shall be required to submit a performance guarantee of 5% of the Estimated cost put to tender (ECPT) or Contract amount whichever is higher in the form of Bank Guarantee or F.D.R. from a Nationalized / Scheduled Bank within fifteen days of issue of letter of intent before award of work. In case of failure by the Contractor to submit the performance guarantee within the specified period, full earnest money will be forfeited by the Institute, and the tender shall be treated as null and void. EMD shall be refunded after submission of PBG. **The performance guarantee shall be initially valid up to the stipulated date of completion (i.e. 150 days) plus 180 days beyond that.**
- The bid will be treated as abnormally low if the quoted bid is lesser than 80% of the estimated cost put to tender.
- Requirement of Additional Performance Guarantee (APG):** In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG) as stated above. The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be 0.8A – 0.7A). The Additional

Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.

4. **Earnest money (EMD)** shall have to be deposited / submitted as stipulated in the schedule. **Declaration to be submitted** by the bidder as indicated in the list of mandatory documents, if scanned copy of DD / FDR is submitted for EMD.
5. Contractors who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.
 - a. Should have satisfactorily completed the works as mentioned below during the last Seven years ending **last day of the month previous to one in which tenders are invited.**
 - i. **Three** similar works each costing not less than **Rs.1,70,51,000.00**, or **two** similar works each costing not less than **Rs.2,55,77,000.00**, or one similar work costing not less than **Rs.3,41,02,000.00**
6. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of bids.
7. **Similar work means: SITC of Central Air Conditioning System in a Building including High and Low Side in a single contract.**
8. **Work means** work done with some Central Government Department / State Government Department / Central Autonomous Body / *State Autonomous Body* / Central Public Sector Undertaking / *State Public Sector Undertaking* / *City Development Authority* / *Municipal Corporation of City formed under any Act by Central / State Government and published in Central / State Gazette* / any Public Authority or any Reputed Private Organisation.
9. Completion certificates are required to be got issued by an officer not below the rank of Executive Engineer / Manager of similar works completed by the Firm. The work experience certificates submitted by the bidders shall clearly indicate that:
 - a. **The similar work executed shall be as per '5' above**
 - b. **The completed cost of the work**
 - c. **Actual date of completion of the work**
10. IITD is committed to follow the principle of transparency, equity, and competitiveness in public procurement. Before submission of bid, **each bidder should sign integrity pact at respective places** and submit the bid. **If duly signed integrity pact is not submitted by bidder, such bid shall not be considered.**
11. **The intending bidder must read the terms and conditions [both commercial & Additional] & IITD - 6 carefully** which will be the part of the Contract. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
12. Information and Instructions for bidders posted on website shall form part of bid document.
13. 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 e-procure.gov.in free of cost.
14. But the bid can only be submitted after submission/uploading of EMD as prescribed in the schedule.
 15. Copy of all mandatory documents as desired in the NIT shall be scanned and up-loaded to the e-Tendering website within the period of bid submission. During scrutiny of technical bids, if required, bidders may be asked to submit original documents for cross checking. However, certified / original copy of all the scanned and up-loaded documents shall have to be submitted by the lowest bidder only within a week physically in the office of the tender inviting authority.
 16. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has submitted prescribed EMD, and other documents scanned and uploaded are found in order.
 17. Those contractors not registered on the website mentioned above, are required to get registered beforehand. Bidders should refer "Instruction for Online Bid Submission" given earlier for further assistance.
 18. When bids are invited in two / three stages systems and if it is desired to submit revised financial bid it shall be mandatory to submit revised financial bid. If not submitted, then the bid submitted earlier shall become invalid.
 19. The department 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.
 20. Contractors must ensure to quote rate of each item.
 21. **The bid submitted shall become invalid if:**
 - a. The bidder is found ineligible.
 - b. The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - c. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening / accepting authority.
 - d. If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
 - e. EMD not deposited / submitted as specified.
 22. Equipment to be supplied, if any, shall satisfy Class-1 criteria. 'Class – 1 Local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement has local content equal to or more than 50% as defined under Order No. P-45021/2/2017-PP(BE-II) dated 04-06-2020 issued by Department for Promotion of Industry and Internal Trade (Public Procurement Section), Ministry of Commerce and Industry, Govt of India.
 - a. 'Local Content' means the amount of value added in India which shall unless and otherwise prescribed by the nodal ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all domestic duties) as a proportion of the total value, in percent.

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- b. For the purpose of verification of 'Local Content', the Class-1 Local Supplier / Service Provider at the time of bidding, tender or solicitation shall be required to indicate percentage of local content and provide self-certification that the items offered meet the local content requirement for Class – 1 Local Supplier. They shall also give details of the location(s) at which the local value addition is made.
 - c. In cases of procurement for a value in excess of 10 crore, the Class – 1 Local Supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in case of the companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
 - d. Nodal Ministries may constitute committees with internal and external experts for independent verification of self-certifications and auditor's / accountant's certificates on random basis and in the case of complaints.
 - e. False declarations will be in breach of Code of Integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for upto two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

List of MANDATORY DOCUMENTS to be scanned and uploaded within the period of bid submission:

Sr. No.	:	Details of Document
1	:	Annexure – 1 (Declaration) duly filled in and got signed by the bidder
2	:	Annexure – 3 (Details of Work under Experience) duly filled and properly signed
3	:	Annexure – 4 (EMD Declaration), if applicable
4	:	Proof of online EMD deposit / Scanned copy of DD / FDR submission (favouring 'Registrar, IIT Delhi') The undertaking as per Annexure – 4 shall be submitted if EMD is submitted as DD/FDR
5	:	Certificate of work experience as desired (read clauses 3 to 7 above) The experience/completion certificate should include the name of work, Agreement No, Estimated cost, Tendered / awarded cost, Total cost of work done, stipulated date of start and completion of work and actual date of completion of work. <i>[N.B. – for experience in non-govt organisation, see point 13 below for further Compliances]</i>
6	:	Certificate of GST Registration
7	:	Affidavit as per provision of the clause 1.2.2 of IITD-6 vide page 17 (To be submitted on <u>stamp paper</u> (not less than rupees one hundred) and <u>date of affidavit</u> and <u>purchase of stamp paper shall not be earlier</u> than the publication of NIT. <u>NIT number, Name of work shall invariably be written on the 1st page of the Stamp Paper</u>) Affidavit shall be got notarised. Any deviation to above in submission of Affidavit, bidder shall be required to resubmit fresh Affidavit failing which the bid shall liable to be rejected. N.B. – Bidder may refer to Annexure – 5 how to prepare Affidavit
8	:	Acceptance to execute INTEGRITY PACT
9	:	IITD 7 / 8 duly signed and stamped
10	:	EPFO & ESIC registration with upto date paid challan (challan shall be not older than two months from the month on which the tender is invited)
11	:	Valid Electrical Licence in the name of the contractor. <i>if the bidder does not possess electrical licence in his own name, he shall have to submit an undertaking on their letter head and the bidder shall scan and upload following undertaking along with other bid documents.</i> <i>a. "I/We undertake that, if I/we do not possess in my/our name a valid electrical license as required, I/we shall associate an agency having such</i>

		<i>a licence for execution of work which requires such a licence”.</i>
12	:	Power of Attorney, as applicable, as per following “In the event of tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorising him to do so, such power of attorney to be produced with the tender and it must disclose that the firm is duly registered under the Indian Partnership Act 1952.”
13		Written commitment on firm's letter head that they will enter into an contract (MoU) with the respective OEMs or their Authorised Agents for maintenance of Air Cooled Chiller, and IBMS as per Annexure-6 and submit the same within 15 days of issue of acceptance letter, failing which PBG shall be forfeited and work shall be cancelled without any notice.
14	:	Following documents are to be provided by the bidder if Non-Govt / Not-Public (Private) Organisation Experience certificate is submitted in support of eligibility: TDS certificate of the work experience certificate (related to 5 above). Bidder has to highlight the particular work for which TDS has been recorded.
15	:	OEM Authorisation, OEM should have 50% local content while manufacturing the equipment.
16	:	Any other document as specified in the NIT

Note:

- Hard copies of documents are to be submitted as per clause 9.1 of IITD-6
- Original copies of documents are to be submitted for verifications as and when demanded by the tender inviting authority
- Bidders are advised to keep the Original Affidavit, EMD (if not deposited online) 'as it is' in safe custody till finalisation of bid

**Assistant Executive Engineer in-charge, AC Division
For & on Behalf of BOG, IIT Delhi**

INDIAN INSTITUTE OF TECHNOLOGY DELHI NOTICE INVITING E-TENDER

- 1.0** Item rate tenders are invited on behalf of The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 110016 from **Contractors of Repute dealing with HVAC work in two bid system as per details given below for the work of Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi**
- 1.1** The work is estimated to cost Rs.7,45,92,224.00. This estimate, however, is given merely as a rough guide.
- 1.2** Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-
- 1.2.1** **Criteria of eligibility for submission of bid documents: Conditions for intending bidders / contractors**
- 1.2.1.1** **Three** similar works each costing not less than Rs.1,70,51,000.00, or **two** similar works each costing not less than Rs.2,55,77,000.00, or one similar work costing not less than Rs.3,41,02,000.00.00 in last 7 years ending last day of the month previous to the one in which tenders are invited. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of submission of bid.
- 1.2.2** **To become eligible for issue of bid, the bidders shall have to furnish an affidavit 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 Department, then I / we shall be debarred for bidding in IIT Delhi in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy to be uploaded at the time of submission of bid)”
- 2.0** Agreement shall be drawn with the successful bidders on prescribed Form No. IITD 7/8 which is available as IIT Delhi Publication. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
- 3.0** **The time allowed for carrying out the work will be 150 days + 5 Years CAMC post DLP** 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.
- 4.0** The site for the work is available.
- 5.0** 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 except Standard General Conditions of

- Contract Form can be seen from the web Site **e-procure.gov.in**.
- 6.0** After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.
- 7.0** While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
- 8.0** If it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.
- 9.0** EMD shall have to be deposited / submitted as stipulated in the schedule of the NIT.
- 9.1** Copy of all 'mandatory documents' 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. ***However, original affidavit, EMD (if not deposited online) and certified copies of all the scanned and uploaded documents as specified in NIT shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority. Original copies of other documents are also to be shown for scrutiny and verifications by the tender opening / accepting authority.***
- 10.0** The bid submitted shall become invalid if:
- 10.1** The bidder is found ineligible.
- 10.2** The bidder does not upload scanned copies of all the documents stipulated in the bid document.
- 10.3** If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening / accepting authority.
- 10.4** If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
- 10.5** EMD not deposited / submitted as specified.
- 11.0** The contractor whose bid is accepted will be required to furnish **performance guarantee of 5% (Five Percent) of the Estimated cost put to tender (ECPT) or Contract amount whichever is higher as provisioned in Schedule F** 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.
- 12.0** 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 subsoil (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 bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

- 13.0** The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
- 14.0** 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.
- 15.0** The competent authority on behalf of the Board of Governors 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.
- 16.0** The contractor shall not be permitted to bid for works in the IITD responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the IIT Delhi. Any breach of this condition by the contractor would render him liable to be debarred from bidding process in future in IIT Delhi.
- 17.0** No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract 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.
- 18.0** **The bids for the work shall remain open for acceptance for a period of 75 (seventy five) days from the date of opening of technical bids. Further**
- 18.1** If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department 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 absolutely irrespective of letter of acceptance for the work is issued or not.
- 18.2** If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department 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.

- 18.3 In case of forfeiture of earnest money as prescribed in para (18.1) and (18.2) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
- 19.0 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 fifteen days** from the stipulated date of start of the work, sign the contract consisting of:-
- 19.1 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 leading thereto.
- 19.2 Standard IITD Form –7/8 or other Standard IITD Form as applicable.
- 20.0 **Integrity Pact:** The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature and upload the same while submitting online bids. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.
- 21.0 **The contractor has to enter into agreement with the OEM or their Authorised Service Agent (Associated contractor) for carrying out comprehensive maintenance (CMC) of specialized component(s). The Memorandum of Understanding for associate contractor is enclosed in this document (Annexure – 5). Copy of such agreement shall be submitted to AEE in charge of AC Division, IIT Delhi within 10 days of award of work. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.**

INTEGRITY PACT

To

.....,

.....,

.....

Sub: NIT No. 41/1121/IITD/AC/2026-27 for the work of “Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi”

Dear Sir,

It is hereby declared that IIT Delhi (IITD) is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the Integrity Agreement, which is an integral part of the tender/bid documents, failing which the tender/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the IITD.

Yours faithfully,

**Assistant Executive Engineer in-charge, AC Division
For & on Behalf of BOG, IIT Delhi**

[TO BE SUBMITTED DULY SIGNED BY THE BIDDER ALONGWITH BID DOCUMENTS]

To

**Assistant Executive Engineer-in-charge, AC Division,
IIT Delhi, Hauz Khas,
New Delhi – 110016**

Subject: Submission of Bid for the work of “Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi”

Dear Sir,

I / We acknowledge that IIT Delhi is committed to follow the principles thereof as enumerated in the Integrity 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 / bid 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.

I / We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by IITD. I / We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I / We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, IITD shall have unqualified, absolute and unfettered right to disqualify the tenderer /bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully,

(Duly signed by authorized signatory of the Bidder)

(To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of IITD)

INTEGRITY AGREEMENT

This Integrity Agreement is made at on this day of.....
20.....

BETWEEN

The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 represented through **Assistant Executive Engineer-in-charge, AC Division, IIT Delhi**, (Hereinafter referred as the '**Principal/Owner**', '**Principal/Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....
.....
(Name and Address of the Individual/firm/Company)
Through.....
..... (Hereinafter referred
(Details of duly authorized signatory)
to as the "**Bidder/Contractor**" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

PREAMBLE

WHEREAS the Principal / Owner has floated the Tender (NIT No. 41/1121/IITD/AC/2026-27) (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for "**Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi**" (Name of work) hereinafter referred to as the "**Contract**".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s) AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

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

ARTICLE 1: COMMITMENT OF THE PRINCIPAL / OWNER

C ... Nil I Nil O Nil

1. The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - 1.1. No employee of the Principal / Owner, personally or through any of his / her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.1. The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - 1.1.2. The Principal/Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
2. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PoC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

ARTICLE 2: COMMITMENT OF THE BIDDER(S) / CONTRACTOR(S)

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or coercion or collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - 2.1. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - 2.2. The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - 2.3. The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PoC Act. Further the Bidder(s) / Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal / Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - 2.4. The Bidder(s) / Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly Bidder(s) / Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same

item.

- 2.5. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practices **means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

ARTICLE 3: CONSEQUENCES OF BREACH

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

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

ARTICLE 4: PREVIOUS TRANSGRESSION

1. The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could

- justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
 3. If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

ARTICLE 5: EQUAL TREATMENT OF ALL BIDDERS/CONTRACTORS/SUBCONTRACTORS

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

ARTICLE 6: DURATION OF THE PACT

1. This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 6 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.
2. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority of IIT Delhi.

ARTICLE 7: OTHER PROVISIONS

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

ARTICLE 8: LEGAL AND PRIOR RIGHTS

1. All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be

deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

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

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

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

WITNESSES:

1.
(signature, name and address)

2.
(signature, name and address)

Place:

Dated :

INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS, NEW DELHI - 110016

Percentage Rate Tender / Item Rate Tender & Contract for Works

Tender for the work of “Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi”

1. To be submitted online by **Upto 3 PM of 11-08-2026**
2. To be opened on **12-08-2026 after 3 PM** online

e-TENDER

I / We have read and examined the Notice Inviting Tender, schedule, A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I / We hereby tender for the execution of the work specified for the Board of Governors, IIT Delhi within the time specified in Schedule ‘F’ viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing 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 respect of accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for seventy five (75) days from the date of its opening of technical bid and not to make any modification in its terms and conditions.

A sum of **Rs. 14,91,850.00** is hereby deposited by me / us in IIT Delhi Revenue Account No. 10773572622 as earnest money / **A Demand Draft / FDR of Rs.14,91,850.00** favouring Registrar, IIT Delhi has been scanned and uploaded by me / us with the Technical Bid. If I / We, fail to furnish the prescribed performance guarantee within prescribed period I / We agree that the said The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 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 the work as specified, I / We agree that The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 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 back-to-back basis. Further that, if such a violation comes to the notice of Department, then I / We shall be debarred for tendering in IIT Delhi in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-

Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I / We hereby declare that I / We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I / We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 110016 for a sum of (Rupees.....).

The letters referred to below shall form part of this contract agreement:-

- (a)
- (b)
- (c)

For & on behalf of Board of Governors, IIT Delhi

Signature

Dated:

Designation

PROFORMA OF SCHEDULES

SCHEDULE “A”

Schedule of Quantities (PWD-3)

SCHEDULE “D”

Extra schedule for specific requirements / documents for the work, if any.

----- NIL -----

SCHEDULE “E”

Reference to General Conditions of Contract: GCC of Maintenance Work 2023 published by CPWD as amended up to last date of submission of bid.

1.	Name of work	:	Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi
2.	Estimated cost of work (₹)	:	7,45,92,224.00
3.	Earnest Money (₹)	:	14,91,850.00 (to be refunded after receiving performance guarantee)
4.	Performance Guarantee & Requirement of Additional Performance Guarantee (APG)	:	5% (percent) of Estimated cost put to tender (ECPT) or Contract amount whichever is higher. Requirement of Additional Performance Guarantee (APG): In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG) as stated above. The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be 0.8A – 0.7A).
5.	Security Deposit	:	2.5% (percent) of tendered value, limiting maximum upto tender value.

SCHEDULE “F”

GENERAL RULES & DIRECTIONS:

C ... Nil I Nil O Nil

Officer inviting tender	:	Assistant Executive Engineer in-charge, AC Division
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:

2 (V)	Engineer-in-charge	:	Assistant Executive Engineer, in-charge, AC Division For E&M work
			EE(CD-III) for Civil Work
2 (viii)	Accepting authority	:	Institute Engineer
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits	:	15 percent
2 (xi)	Standard Schedule of Rates	:	DSR-2023 for Civil work - GST Correction Factor 0.973 + 3% cost Index & Market rate for NS items and DSR-2025 (E&M) for Electrical, AC work with up-to-date correction slip on date of submission of bid & Market Rate.
2 (xii)	Department	:	Estate & Works, AC Division IIT Delhi
9 (ii)	Reference to General condition of contract	:	CPWD / IITD Form 7 / 8 as modified and corrected upto date, GCC 2023 for Maintenance work of CPWD with latest modifications

CLAUSE 1

i)	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	:	15 days
ii)	Maximum allowable extension beyond the period provided in (i) above with late fees @0.1% per day of performance guarantee	:	10 days

CLAUSE 2

(i)	Authority for fixing compensation under Clause 2	:	Institute Engineer
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CLAUSE 2A

(i)	Whether Clause 2A shall be applicable	:	No
-----	---------------------------------------	---	----

CLAUSE 5

(i)	Number of days from the date of issue of letter of acceptance for reckoning date of start	:	10 days
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TABLE OF MILESTONE(S):

Sr. No.	Description of Milestone (physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non-achievement of milestone
(1)	(2)	(3)	(4)
	--- NOT SPECIFIED ----		

Time allowed for execution of CAMC / Work	:	150 days + 5 Years CAMC post DLP
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Authority to decide:	Extension of time	:	Engineer-in-charge
	Rescheduling of milestones	:	Institute Engineer
	Shifting of date of start in case of delay in handing over of site	:	Engineer-in-charge

CLAUSE 5

Clause applicable 5 / 5A	:	5
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CLAUSE 6

MB applicable: Computerised Measurement Book (CMB) / Electronic Measurement Book (EMB)	:	CMB
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CLAUSE 7

Gross work to be done together with net payment / adjustment of advances for materials collected, if any, since the last such payment for being eligible to interim payment	:	75 Lakhs for AC & 10 Lakhs for civil
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CLAUSE 7A

C ... Nil I Nil O Nil

Whether Clause 7A shall be applicable	:	No
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CLAUSE 10A

List of testing equipment to be provided by the contractor at site					
1	NIL	2	NIL	3	NIL
4	NIL	5	NIL	6	NIL

CLAUSE 10B (ii)

Whether Clause 10 B (ii) shall be applicable (Yes / No)	:	No
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CLAUSE 10 C

Component of labour expressed as percent of value of work	:	25% for civil work & 15% for Electrical work
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CLAUSE 10CC

Whether Clause 10CC shall be applicable	:	Not applicable
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CLAUSE 11

Specification to be followed for execution of work	:	CPWD General Specifications for Electrical Works for HVAC Work with other relevant parts as amended upto date. Minimum Wages Act. CPWD specification for civil work-2019 Vol-I & Vol-II
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CLAUSE 12

12.1	The time for completion of the work shall, in the event of any deviations resulting in additional cost over the tendered value, be extended if requested by the contractor, as follows:	:	As per GCC 12.1 (i) & (ii)
12.2	Extra Items and Pricing Extra items are those which are not available in the contract.	:	As per GCC 12.2
12.3	Deviation, Deviated Quantities, Pricing	:	All the deviated quantities shall be paid at agreement rates

CLAUSE 16

Competent authority for deciding reduced rates	:	Institute Engineer
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CLAUSE 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site					
1	NIL	2	NIL	3	NIL
4	NIL	5	NIL	6	NIL

CLAUSE 19C

Authority to decide penalty for each default	:	Engineer-in-charge
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CLAUSE 19D

Authority to decide penalty for each default	:	Engineer-in-charge
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CLAUSE 19G

Authority to decide penalty for each default	:	Engineer-in-charge
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CLAUSE 19K

Authority to decide penalty for each default	:	Not applicable
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CLAUSE 25**Constitution of Dispute Redressal Committee (DRC)**

Conciliator	:	NIL
Arbitrator Appointing Authority	:	NIL
Place of Arbitration	:	NIL

CLAUSE 32**Requirement of Technical Representative(s) and recovery rate**

Sr. No.	Minimum qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36 (i)	
						Figures	Words
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Graduate Engg.	Electrical or Elect & Electronics or Mechanical	Project Manager	5 years having similar nature experience	1	Rs.25,000/- per month per Representative	Twenty Five Thousand
2	Graduate or Diploma in Engineering	Civil Engineer	Manager Planning	2 years Graduate or 5 years Diploma	1	Rs.15,000/- per month per Representative	Fifteen Thousand
3	Graduate or Diploma in Engineering	Electrical or Elect & Electronics or Mechanical	Technical Representative / Supervisor	2 years Graduate or 5 years Diploma	1	Rs.15,000/- per month per Representative	Fifteen Thousand

Assistant Engineers retired from Govt. / IIT Delhi 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.

CLAUSE 38

Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 with up-to-date correction printed by C.P.W.D.

Variations permissible on theoretical quantities

Cement:

For works with estimated cost put to tender not more than Rs.5 lakh. : 3% plus/minus. (Three percent)

For works with estimated cost put to tender more than Rs.5 lakh : 2% plus/minus. (Two percent)

Bitumen all works. : 2.5% plus & only & nil on minus side

Steel Reinforcement and structural steel sections for each diameter, section and category : 2% plus/minus (Two percent)

All other materials

Schedule for determining theoretical consumption of Brick work on the basis of DSR 2023

COMMERCIAL AND ADDITIONAL CONDITIONS

1. GENERAL

- 1.1. This specification covers supply and delivery of materials at site, all preparatory work assembly and installation, commissioning and putting into operation of HVAC system.
- 1.2. Location: **Near Library Building IIT Delhi**
- 1.3. The work shall be executed as per CPWD General Specifications for Electrical Works Part-I (Int.) 2023, Part-II (Ext.) 1994, HVAC Work 2024, as amended upto date, relevant I.E. Rules, BIS/IEC and as per directions of Engineer-in-Charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these additional specification and conditions, as the same are to be read along with schedule of quantities for the work.
- 1.4. The tenderer should in his own interest visit the site and get familiarized with the site conditions before tendering.
- 1.5. No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

2. COMMERCIAL CONDITIONS:

- 2.1. **Type of contract:** The work to be awarded by this tender shall be treated as indivisible works contract.
- 2.2. **Submission and opening of Tenders:**
 - 2.2.1. The tender is in two parts:
 - 2.2.1.1. Part-I -Technical cum Un-priced commercial Bid
 - 2.2.1.2. Part-II-Price Bid
- 2.3. The tender shall be submitted online, duly completed as per NIT conditions within period of bid submission.
- 2.4. The tenderers are advised not to deviate from the technical specifications / item, commercial terms and conditions of NIT like terms of payment, guarantee, arbitration clause, escalation etc.
- 2.5. Technical cum un-priced commercial bid only shall be opened on the due date and time in the presence of tenderers or their authorized representative who wish to remain present.
- 2.6. Scrutiny/evaluation of the technical-cum-commercial bid shall be done by the department. In case, it is found that the technical-cum-commercial bid of a tenderer is not in line with NIT specifications/requirements and/or contains too many deviations, the department reserves the right to reject the technical bid of such firms(s) without making any reference to the tenderer(s).
- 2.7. Necessary clarifications required by the department shall have to be furnished by the tenderer within the time given by the department for the same. The tenderer will have to

depute his representative to discuss with the officer(s) of the department as and when so desired. In case, in the opinion of the department a tenderer is taking undue long time in furnishing the desired clarifications, his bid will be rejected without making any reference.

- 2.8. After obtaining clarification from all the tenders, the department will intimate the tenders whose technical cum commercial bids are acceptable.
- 2.9. The price bids of only those tenderers shall be opened whose technical bids are found to be technically acceptable. The time and date of opening of price bid shall be fixed after the technical cum unpriced commercial bid is accepted and intimated to them by post/Fax/e-mail.
- 2.10. The department reserves the right to reject any or all the price bids and call for fresh prices/tenders as the case may be without assigning any reason.

3. TERMS OF PAYMENTS

- 3.1. The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein; (i) 80% after initial inspection and delivery at site in good condition on prorata basis. (ii) 10% after completion of installation in all respect. (iii) Balance 10% will be paid after testing, commissioning, trial run and handing over to the department for beneficial use including fire inspection. Bidder should note that necessary documents (PAN card, cancelled cheque, GST Reg. proof and RTGS mandate form as per prescribed proforma of IIT Delhi) be submitted as soon as the work is awarded to them. Separate Contractor's Code shall be generated in IIT Delhi if the bidder is a new contractor to IIT Delhi ('Code' is perpetual in nature). Payment shall be processed after submission of Invoice and necessary documents / certificates (as mentioned in the NIT). There is a prevailing practice of pre-audit (for total tendered amount more than 6 lakhs) at IIT Delhi before releasing final payment. Bidder shall have to comply all necessary documents as outlined in the Contract as to be desired by the Auditor and or by the accountant. It may take one to two months in the whole process (from submission / acceptance of bill in CMB / MB by the contractor upto processing by Accounts section) to release payment subject to quick compliance of all submittals by the contractor. Applicable Taxes shall be got deducted from the bill as per prevailing orders of the Government. 'GST part of the bill' shall be released after submission of proof of payment of GST, i.e., B2B challan, etc. as may be, by the contractor.
- 3.2. Income tax, GST, labour cess & other statutory deduction etc. shall be made at source as per the prevalent laws. The deduction of Security Deposit, Income Tax, etc., shall be done after calculation for the above due payment as per clause 3.1 above and net payment shall reduce accordingly.

4. AWARD OF WORK

- 4.1. Work shall be awarded to the successful bidder only after concurrence of the **Auditor of the Internal Audit Section** of the IIT Delhi as per extant Rules of the Institute.

5. SECURITY DEPOSIT

6. Security Deposit shall be deducted from bill to the extent of 2.5% of the tendered amount. The security deposit shall be released after defect liability period is over and clearance of all

obligations as per contract. amount. **The security deposit shall be released after complete Defect Liability Period is over i.e. 1 year after date of commissioning.**

7. PERFORMANCE GUARANTEE

8. The successful tenderer shall submit an irrevocable performance guarantee of 5% of the tendered amount in addition to other deposit mentioned elsewhere in the contract for his proper performance of the contract agreement within 15 days of issue of letter of acceptance of tender. This guarantee shall be in the form of Demand Draft/Pay order of irrevocable bank guarantee bond of any schedule bank or the State Bank of India in the specified perform a of Government Security, fixed deposit receipt pledged in favour of Registrar, IIT Delhi or as specified in the letter of acceptance of tender. The performance guarantee shall be initially valid up to the stipulated Period of completion plus six months. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the competent authority

9. RATES

- 9.1. The work shall be treated as on works contract basis and the rates tendered shall be for complete items of work (except the materials, if any, stipulated for supply by the department) inclusive of all taxes, GST (including works contract tax, if any), duties, and levies etc. and all charges for items contingent to the work, such as, packing, forwarding, insurance, freight and delivery at site for the materials to the supplied by the contractor, watch and ward of all materials (including those, if any, supplied by the department), post installation services till defect liability period etc. for the work at site etc.

10. COMPLETENESS OF TENDER

- 10.1. All sundry equipment, fitting, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specially mentioned in the tender documents or not.

11. STORAGE AND CUSTODY OF MATERIAL

- 11.1. The agency has to make his own arrangement for storage. No separate storage accommodation shall be provided by the department Watch and ward of the storage and their safe custody shall be responsibility till the final taking over of the installation by the department.

12. CARE OF THE BUILDING

- 12.1. Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste material arising out of the installation from the site of work.

13. COMPLETION PERIOD

- 13.1. The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc., arrangement of materials & equipments, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-charge.

14. GUARANTEE

- 14.1. The contractor shall **guarantee the entire installation** as per specifications both for components and for system as a whole. All system shall be guaranteed for **one year** from the date of commissioning against unsatisfactory performance and / or breakdown due to defective design, workmanship or material. The equipment or component, or any part thereof, so found defective during guarantee period shall be forthwith replaced free of cost to the satisfaction of the Engineer-in-Charge. In case, it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of Engineer-in-Charge in this regard shall be final & binding on the contractor.

- 14.2. The tenderer shall guarantee among other things, the following:

- 14.2.1. Quality, strength and performance of the material used as per manufacturer's standards.
14.2.2. Safe mechanical and electrical stress on all part under all specified conditions of operation.

15. POWER SUPPLY

- 15.1. Power supply shall be made available by the department at one point near the location of installation free of cost, if required. Further, the arrangement for tapping power supply from this point shall be made by the contractor.

16. EXTENT OF WORK

- 16.1. The work shall comprise of entire labour including supervision and all material necessary to make a complete installation and such tests and adjustment and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by the specification but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract as this is a turnkey job.
- 16.2. In addition to supply, installation, testing and commissioning of split/window type AC system including wall mounted indoor units, following works shall be deemed to be included with the scope of work to be executed by the tenderer-
- 16.2.1. Minor building works necessary for installation of equipments, foundation making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.

17. VALIDITY

- 17.1. Tenders shall be valid for acceptance for a period 150 days + 5 Years CAMC post DLP of days from the last date of submission of bid.

18. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS

18.1. All works shall be carried out in accordance with relevant regulation both statutory and those specified by the Indian Standards related to the works covered by this specification in particular, the equipment and installation will comply with the following:

18.1.1. Factories Act

18.1.2. Indian Electricity Rules

18.1.3. B.I.S. & other standards as applicable

18.1.4. Workmen's compensation Act

18.1.5. Statutory norms prescribed by local bodies like fire department, CEA, Power Supply Co. etc.

19. INDEMNITY

19.1. The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

20. ERECTION TOOLS

20.1. No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tender shall make his arrangement for all these facilities.

21. COOPERATION WITH OTHER AGENCIES AND OCCUPANTS OF THE BUILDING

21.1. The successful tenderer shall co-ordinate with other working contractors, if any and other occupants of different offices / Labs, etc., and exchange freely all technical information so as to make the execution of this work / contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of work was not undertaken by the tenderer himself.

22. MOBILIZATION ADVANCE

22.1. No mobilization advance shall be paid for this work.

23. INTERPRETING SPECIFICATION

23.1. In interpreting the specification, the following order of decreasing importance shall be followed in case of contradictions:

23.1.1. Schedule of quantities

23.1.2. Technical Specification**23.1.3. Drawing (if any)****23.1.4. General Specification for Electrical Works of CPWD (relevant Parts)****23.1.5. Relevant BIS or other international code in case BIS code is not available.****24. POLICY OF THE INSTITUTE**

24.1. Institute has a policy against sexual harassment and is committed to providing an environment free from sexual harassment of women at the workplace. Contractor shall have to abide by the policy of the Institute with due diligence. Any violation on the part of the contractor shall be dealt with the extant rules of the Institute.

25. QUALITY OF MATERIALS

25.1. 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. None of the material/ items/ equipment etc supplied shall be more than twelve months old from date of supply at site. Copy of GST Gate Pass/ Invoice/ Shipment / Custom Clearance certificate/ details (in case of imported equipment) shall be submitted to prove the date of manufacture & genuineness of the equipment/ machines supplied. Test Certificates of equipments shall also be submitted.

ANNEXURE - 1**<< Organization Letter Head >>
DECLARATION**

I / We, _____ hereby declare that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I / we have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

1	Name & Address of the bidder	:	
2	Phone	:	
3	E-mail	:	
4	Contact person name	:	
5	Mobile number	:	
6	GSTIN number	:	
7	PAN number	:	
8	UTR no. [if deposited online] for EMD	:	
9	DD / FDR No. & date [if uploaded scanned copy] for EMD	:	
	BANK DETAILS of the Bidder		
10	Bank name	:	
11	Branch address	:	
12	Branch telephone no.	:	
13	MICR Code of the bank	:	
14	IFSC code	:	
15	Bank Account no.	:	
16	Type of account	:	
17	Pl attach one cancelled cheque	:	

We further declare that our organization has not been blacklisted / delisted or put to any holiday by any Institutional agency / Govt. Department / Public Sector Undertaking in the last three years.

(Signature& name of the bidder)
Seal of the bidder

ON NON-JUDICIAL STAMP PAPER OF MINIMUM Rs.100

(Guarantee offered by Bank to IIT Delhi in connection with the execution of contracts)

Sample Form of Bank Guarantee for Performance Guarantee

- 1 Whereas the Assistant Executive Engineer-in-charge of AC Division of IIT Delhi on behalf of the Board of Governors of IIT Delhi (hereinafter called "IIT Delhi") has entered into an agreement bearing number with(name and address of the contractor) (hereinafter called "the Contractor") for execution of work (Name of work) The IIT Delhi has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... as Performance Guarantee/Security Deposit/Mobilization Advance from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
- 2 We, (indicate the name of the bank) (herein after referred to as "the Bank"), hereby undertake to pay to the IIT Delhi an amount not exceeding Rs. (Rupees..... only) on demand by the Government within 10 days of the demand.
- 3 We, (indicate the name of the Bank), do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees only).
- 4 We, (indicate the name of the Bank), further undertake to pay the IIT Delhi any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
- 5 We, (indicate the name of the Bank), further agree that the IIT Delhi shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the IIT Delhi against the said contractor 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 Contractor or for any forbearance, act of omission on the part of the IIT Delhi or any indulgence by the IIT Delhi to the said Contractor 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 We, (indicate the name of the Bank) , further agree that the IIT Delhi at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and

C ... Nil I Nil O Nil

notwithstanding any security or other guarantee IIT Delhi may have in relation to the Contractor's liabilities.

7 This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

8 We, (indicate the name of the Bank), undertake not to revoke this guarantee except with the consent of the IIT Delhi in writing.

9 This Bank Guarantee shall be valid up to unless extended on demand by IIT Delhi. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date

Witnesses:

1. Signature.....
Name and address

Authorized signatory
Name
Designation
Staff code no.
Bank seal

2. Signature
Name and address

*Date to be worked out on the basis of validity period of 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.

ANNEXURE - 3**DETAILS OF ELIGIBLE SIMILAR NATURE WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DAY OF SUBMISSION OF TENDERS**

Sr. no.	Name of work / project and location	Owner or sponsoring organisation with e-mail ID and Phone No.	Cost of work done (INR)	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Name and address / telephone number of officer to whom reference may be made
1	2	3	4	5	6	7	8
1							
2							
3							

N.B: All columns shall be filled diligently. This is a mandatory document.

(Signature& name of the bidder)
Seal of the bidder

**<< Organization Letter Head >>
EMD DECLARATION**

(The following undertaking on firm's letter head shall be retyped and uploaded by the bidder if scanned copy of DD/FDR is uploaded by the bidder)

Whereas I/We (name of the agency) have submitted bids for (name of work).

I/We hereby submit following declaration in lieu of submitting Earnest Money Deposit (EMD) electronically (online mode).

The **exact** physical EMD (as uploaded, DD / FDR) shall be deposited/submitted by me / us with the authority inviting tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid.

If after the opening of tender, I/We fail to submit the said EMD within the stipulated time, I/We shall be suspended for one year and shall not be eligible to bid for IIT Delhi tenders from the date of issue of suspension order.

(Signature& name of the bidder)
Seal of the bidder

SAMPLE AFFIDAVIT
(How the write up should be on the stamp paper)

INDIAN NON JUDICIAL

Certificate Issued Date : After the publication of NIT
 First Party : 'Name of Bidder' should be written
 Second Party : 'IIT Delhi'
 Stamp duty : Minimum Rs.100.00 (one hundred)

----- Please write below this line -----
Affidavit

NIT No. : Mention NIT number
 Name of Work : Write name of the work

I, _____ (name of bidder), resident of _____ (full address)
 partner / proprietor / authorised representative having power of attorney (write as applicable) do
 hereby solemnly affirm and state as follows:

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

Dated:
 Place:

Signature with stamp of the bidder

The Affidavit shall be Notarised & shall have to be submitted in original on demand

(N.B. - This is purely illustrative. Bidder must buy stamp paper and write the above matters in respective space on the front page of stamp paper. For any further clarification, bidder can contact through e-mail or over phone)

ANNEXURE: 6**MEMORANDUM OF UNDERSTANDING (MOU) FOR OEM OR THEIR AUTHORISED SERVICE AGENT**

(to be submitted by the L1 bidder on Rs.500 stamp paper for each OEM separately)

M/s. (Name of the firm with full address)

(Henceforth called the Main Contractor)

And

M/s. (Name of the OEM / Authorised Service Agent with full address)

(Henceforth, called the Associated Contractor)

Name of work: Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi

NIT No. 41/1121/IITD/AC/2026-27

This MoU is made at on between the (herewith called the main contractor) and (herewith called the Associated contractor).

Whereas the main contractor has agreed to entrust the Air cooled Chillers IBMS (strike out which is not applicable) the highly specialised part only to the associated contractor (respective OEM or their Authorised Service Agent).

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (IIT Delhi) can enforce all the terms and conditions of this agreement for routine, preventive and breakdown maintenance of the Air cooled Chillers IBMS (strike out which is not applicable) the highly specialised part only in respect of above work. Both of us shall be responsible for the routine, preventive and breakdown maintenance as per the agreement to the extent this MoU allows. In case of any delay in the payment by the main contractor, the associated contractor can apply to the IIT Delhi to release the payment under Clause 7B and deduct the same from the bills of the main contractor. In case of any dispute, either of us will go for mediation by the Institute Engineer or Superintending Engineer (as the case may be) and his decision shall be final and binding on both of us.

We have further agreed as under:

1. The Associated Contactor will execute Comprehensive Maintenance (CMC) works which include routine, preventive and breakdown maintenance including repairing and replacement of spares as per terms and conditions of this agreement.
2. All the machinery and equipment, tools and tackles required for execution of the CMC of specialised component, as per this MoU, shall be the responsibility of the Associated Contractor.

C ... Nil I Nil O Nil

3. The site staff required for the execution of CMC of specialised work shall be arranged by the Associated Contractor as per terms and conditions of this MoU.

4. All the correspondence regarding execution of the CMC of specialised work shall be done by the department with the main contractor. In case of non-compliance of the provisions of agreement of the work by the associated contractor, the main contractor shall be held responsible and action will be taken against him as per agreement provisions.

(Authorised Signatory)

SIGNATURE OF THE MAIN CONTRACTOR

Date :

Place :

1. Witness with address

(From main contractor side)

(Authorised Signatory)

SIGNATURE OF ASSOCIATED CONTRACTOR

Date :

Place :

1. Witness with address

(From associated contractor side)

BID SUBMISSION CHECK LIST

ONLINE BID SUBMISSION:

The bid (complete in all respect) must be uploaded online in **two** Envelops as explained below:-

Envelope – 1 (Following documents to be provided as single PDF file)			
Sl. No.	Documents	Content	File Types
1	Technical Bid	Annexure - 1	.PDF
2		Annexure - 3	.PDF
3		Annexure - 4	.PDF
4		EMD Submission proof / Scanned Copy of EMD	.PDF
5		Certificate of work experience as desired	.PDF
6		Certificate of GST Registration	.PDF
7		Affidavit as per provision on stamp paper	.PDF
8		Acceptance to execute INTEGRITY PACT	.PDF
9		IITD 7 / 8 duly signed	.PDF
10		EPFO & ESIC Registration proof with updated challan	.PDF
11		Valid Electrical Licence / Undertaking	.PDF
12		Power of Attorney (as applicable)	.PDF
14		EMD Declaration (As required)	.PDF
15		Written Commitment regarding MoU	.PDF
16		TDS certificate	.PDF
17		Any other document as specified in the NIT	.PDF
Envelope – 2			
Sl. No.	TYPES	Content	
1.	Financial Bid	Price bid should be submitted in BOQ format.	.EXL

SCHEDULE OF QUANTITY

Name of work: Removal of Water Cooled Chiller from Library Rooftop and SITC of 3 x 100 TR Air Cooled Chiller Integrated with IBMS for DATA Center, including Civil Work in IIT Delhi

Item No.	Description of items	Qty.	Rate (INR) (as per clause 8.1 of commercial and additional conditions)	Unit	Amount
1	By Mechanical Transport including loading, unloading and stacking				
1.1	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge. Note - Item to be applicable in urban areas having directions for restricted hours for movement/plying of load carrying motor vehicle of 3.5 cum or more.	16	***	cum	-
2	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
2.1	All kinds of soil	300	***	Sqm	-
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
3.1	All kinds of soil.	66	***	cum	-

4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	33	***	cum	-
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
5.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	5	***	cum	-
5.2	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	34	***	cum	-
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				-
6.1	1:1.5:3(1 cement: 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	10	***	cum	-
7	Cantering and shuttering including strutting, propping etc. and removal of form for				-
7.1	Foundations, footings, bases of columns, etc. for mass concrete	64	***	Sqm	-
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
8.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	1100	***	Kg	-
9	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				-
9.1	Cement mortar 1:6(1 cement : 6 coarse sand)	33	***	cum	

10	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
10.1	Hot finished welded type tubes	3883	***	Kg	-
11	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	42	***	Sqm	-
12	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.	34	***	Sqm	-
13	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
13.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	118	***	Sqm	-

14	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	148	***	Sqm	-
15	Providing and fixing factory made 18 mm thick single extruded WPC (Wood Polymer Composite) solid plain white colour board Jali, CNC (Computer numeric control) routed of approved design by Engineer in -charge which are machine cut for duct/shaft covering, partitions and facades comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives(maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with properties of being termite/borer proof, water/ moisture proof and fire retardant and fixing on M.S (mild steel) frame made of 25 x 25 x 1.5 mm square hollow box section including applying a priming coat of approved steel primer, placed at grid made at 1.0 x 1.0 m or as per requirement at site with necessary stainless steel fasteners and SS screws etc., all complete as per direction of Engineer-In- Charge. (Note: M.S (mild steel) framework with priming coat and necessary SS fasteners and SS screws shall be paid separately).	163	***	Sqm	-
	SUB HEAD - 2A (Electrical + HVAC work)				
	SITC of Air Cooled Chiller				

1	Supplying, installation, testing and commissioning of following capacity Air-Cooled Screw Chiller package complete with VFD (Variable Frequency Drive), hermetic/semi hermetic, Mono/multiple screw type compressor each with step less capacity control of 25 % to 100 % of the rated capacity, with microprocessor based control panel, motor, starter panel (VFD), machine mounted, air- cooled condensers with Copper tube and Aluminium fins, factory fitted chiller insulation, water flow switch, vibration spring Isolators, Victaulic couplings, integral refrigerant piping and wiring with multiple circuits, automatic and safety controls mounted in central console panel and all mounted on a steel frame (complete as per specifications) i/c suitable foundation/mounting structure made of RCC/MS Structure i/c anticorrosive paint, antivibration pad, power control cable and connection inter-connection etc. as per design approved by engineer-in charge. Motor shall be suitable for $415 \pm 10\%$ 50 cycles, 3 phase AC supply. Refrigerant gas used shall be R-134a. The chiller shall be Building Management System (BMS) compatible The system shall be in confirmation to IS : 16590 and CPWD Specification as amended upto date. BEE Star labelling and CPWD Specification as amended upto date and tested as per IS 16590.				
	Chilled water Leaving Temp. (6.67 deg C) Chilled water Entering Temp. (12.2 deg C) Evaporator fouling factor = 0.018 sqm. deg C/kW Condenser air entering temp. : As per Site Dry Bulb Temperature Suitable for Seismic Zone and Altitude as per location/site. Microprocessor based controller.				
	100 TR BEE 4 Star rated	3	***	Each	-
2	CHILLER PUMP				
	Supplying, erection, testing and commissioning of mono block / split casing chilled water pump set capable of delivering 1620 LPM of water against a head of 56 metre or as specified by OEM of chiller AC for this particular project. Each pump shall comprise of following as required as per specifications.				

	1 no. - Mono block / split casing type pump				
	1 no. - suitable HP, SPDP squirrel cage induction motor of IE-3 class at least with class - B insulation, 1500 rpm synchronous speed, operating on 415 +/- 10% volts, 3 phase, 50 Hz ac supply.				
	1 Lot - expanded polystyrene [T.F. quality] insulation of not less than 50 mm thick duly cladded between aluminium sheets of 0.5 mm thickness and properly clamped to pump in two semicircular sections as per specifications.				
	2 nos. - 150 mm dia dial type pressure gauges				
	1 Lot - Mounting frame with antivibration pads				
	1 Lot - RCC / cement concrete foundation for the pump unit	3	***	Each	-
3	PRESSURISATION PUMP FOR CHILLED WATER LINE MAKE UP				
	Supplying, erection, testing and commissioning of vertical in-line or mono block / split casing water pump set capable of delivering not less than 150 LPM of water against a head of 36 metre or as specified by OEM of chiller AC for this particular project for refilling / injecting of treated water into the chilled water line as and when required. Operation of this pump shall be fully automatic with provision of manual operation in the event of failure of automation. Each pump shall comprise of following as required as per specifications. (ref. similar pump set: WJ203)				
	1 no. - Vertical in-line / Mono block / split casing type pump				
	1 no. - suitable HP, SPDP squirrel cage induction motor of IE-3 class at least with class - B insulation, of suitable rpm, operating on 230V / 415 +/- 10% volts, 3 / 1 phase, 50 Hz ac supply.				
	2 nos. - 150 mm dia dial type pressure gauges				

	1 Lot - Mounting frame with antivibration pads				
	1 Lot - RCC / cement concrete foundation for the pump unit	2	***	Each	-
4	CONTROL ELECTRICAL DISTRIBUTION PANEL				
	Fabrication, supplying, Installation testing & commissioning of double door Electrical Control Panel of cubicle construction, of size not less than 3.35 m (L) x 2.4 m (H) x 0.8 m (B) floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, busbar chamber, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering, sign writing etc. complete in all respect, suitable for Air Cooled Chillers, chilled water circulating pump sets complete as per CPWD specification with following incoming and outgoing, suitable for operation on 415V, 3 phase, 50Hz ac supply with enclosure protection class IP 42 , necessary earthing, as required. Panel shall be made from CPRI approved company and schematic drawing with dimension shall be got approved by the Engineer in-charge before fabrication and assembling.				
	INCOMINGS 630A, 50kA 4 Pole MCCB with Microprocessor Release conforming to IS/IEC 60947-2, Ics=100% Icu Rating (Ref similar product: dsine-DZ iTRP1) with spreader terminal, operating handle, etc. - 02 sets for common busbar (From two different sources, priority of source to be defined at site from ATS)				
	Automatic Transfer Switch (Auto Changeover) 630 amp, 4 Pole, 400 V, to toggle between two incoming sources with interlocking arrangement (only one source shall be available at a time) (Ref similar item ATS Watson, 630 A, 4P, 400 V, Type A Schneider make)				

	OUTGOINGS (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)				
	CHILLER UNIT 200 Amp, 50kA TPN MCCB, Ics=100% Icu with Microprocessor Release conforming to IS/IEC 60947-2, (Ref similar product: dsine-DZ iTRP1) for 100 TR Chiller Unit with digital voltmeter and ammeter with selector switch and CTs etc, LED type RYB phase indicating lamp, ON, OFF, trip indicating lamps with all accessories and internal wiring required for automatic IBMS operation, selector switch for local/remote, auto/manual/OFF operation with spreader terminal, operating handle, etc.. - 4 sets (3 + 1 spare)				
	CHILLERPUMP 100 Amp, 50kA TPN MCCB, Ics=100% Icu, with Microprocessor Release conforming to IS/IEC 60947-2, (Ref similar product: dsine-DZ iTRP1) with Suitable HP fully automatic Variable Frequency Drive of rating not less than 55 KW (VFD / VSD) with current sensing type single phase preventor complete with all accessories and internal wiring required for automatic (IBMS) operation, selector switch for local/remote, auto/manual/OFF with digital voltmeter and ammeter with selector switch and CTs etc, LED type RYB phase indicating lamp, ON, OFF, trip indicating lamps with spreader terminal, operating handle, etc. - 4 sets (3 + 1 spare)				
	MISC.OUTGOINGS 40 amp, 36 kA TPN MCCB, Ics=100% Icu, with Microprocessor Release with digital voltmeter and ammeter with selector switch and CTs etc as required, LED type RYB phase indicating lamp, ON, OFF, trip indicating lamps with all accessories and terminal spreaders, operating handle conforming to IS/IEC 60947-2, (Ref similar product: dsine-DZ iTRP1) - 3 nos.				
	BUSBAR - Set of aluminium busbar (not less than 800A rating of size of each strip not less than 100 mm x 6 mm) with busbar support, protection, insulation, necessary holes, etc.				

	MULTI FUNCTION METER: Digital Multifunction meter class 0.5 with RS 485 capable of measuring voltage, ampere, PF, kW, KVA, kVAR, kWh, Interrupts, THD, Neutral current with site programmable with suitable secondary current CTs, LED indicating lamps for RYB, dedicated buttons and LCD display for direct access to Basic, Power and Energy parameters, etc complete as required. (similar product of MF meter 4410 series of LK having cat no. WL4410210000) - 02 sets for two separate incomers.	1	***	Job	-
	EARTHING				
5	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 Meter long etc. with charcoal/ coke and salt as required.	2	***	Set	-
6	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	80	***	Metre	-
7	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	50	***	Metre	-
8	Providing and fixing earth bus of 50 mm X 5 mm copper strip with number of holes with SS nuts and bolts on surface for connections etc. as required.	1	***	Metre	-
9	MAIN POWER (AL): Supplying and laying of ISI marked PVC insulated XPLE armoured aluminium conductor cable of following size of 1.1 kV grade conforming to IS:7098 on surface / recess / cable tray /above false ceiling etc. as required. (Acceptable make: Any Reputed make)				
9.01	4 core x 400 sqmm	800	***	Metre	-
9.02	4 core x 25 sqmm	800	***	Metre	-
9.03	4 core x 16 sqmm	600	***	Metre	-

10	Supplying and making end termination with brass compression gland and aluminium / copper lugs (as applicable) for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
10.01	4 X 400 sq.mm (82 mm)	12	***	Each	-
10.02	4 X 25 sq. mm (28 mm)	20	***	Each	-
10.03	4 X 16 sq. mm (28 mm)	30	***	Each	-
11	Supplying and laying of ISI marked PVC insulated XLPE armoured copper cable of following sizes of 1.1 KV grade confirming to IS:7098 on surface / recess / cable tray /above false ceiling etc. as required. (Acceptable make: Any Reputed make)				
11.01	3 core x 1.5 sq.mm	1000	***	Metre	-
11.02	3 core x 6 sq.mm	800	***	Metre	-
11.03	4 core x 2.5 sq.mm	1500	***	Metre	
12	Supplying and laying of ISI marked FRLS unarmoured screened copper cable of following size and type and of 1.1 kV grade conforming to IS694:2010 including making connection etc. on surface / cable tray through 20 mm ISI marked medium class PVC conduit complete with bends, couplers, elbows, tees, etc. as required. (Acceptable make: Any Reputed make) [NB: Single stranded cable not to be used]				
12.01	2 core x 1.0 sqmm	1500	***	Metre	-
12.02	4 core x 1.0 sqmm	1500	***	Metre	-
13	GI TRAY SUPPORT: 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 / supported from the ceiling / wall with GI suspenders including GI bolts and nuts, GI C-Channels, etc. including bends, reducers, Tees, cross-members as required, GI protective sheet covering (for outdoor portion) outside the room etc. as required.				

13.01	300 mm width X 50 mm depth X 1.6 mm thickness	200	***	Metre	-
13.02	375 mm width X 50 mm depth X 2.0 mm thickness	200	***	Metre	-
14	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray " bends " (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with two numbers GI Suspenders i/c base of suitable size GI angle, GI bolts & nuts, fastener etc as required.				
14.01	300 mm width X 50 mm depth X 1.6 mm thickness	24	***	Each	-
14.02	375 mm width X 50 mm depth X 2.0 mm thickness	24	***	Each	-
15	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray " Tee " (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with two numbers GI Suspenders i/c base of suitable size GI angle, GI bolts & nuts, fastner etc as required.				
15.01	300 mm width X 50 mm depth X 1.6 mm thickness	20	***	Each	-
15.02	375 mm width X 50 mm depth X 2.0 mm thickness	20	***	Each	-
16	Supplying, Installation, Testing & Commissioning of Flood Light , powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 OC to 50 OC, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F.≥0.95, IP-66,IK-10, CRI >70, under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin) , SDCM(Standard Deviation Colour Matching) <5,				

	Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
16.01	50 Watt	8	***	Each	-
17	Supplying and fixing following way, single pole and neutral, sheet steel MCB Distribution Board , 240 V, on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections powder painted, including earthing etc. as required. (Acceptable make: Any Reputed make)				
17.01	8 way. Double door	1	***	Each	-
18	Supplying and fixing following rating, double pole, 240 volts, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Acceptable make: Any Reputed make)				
18.01	40 A	1	***	Each	-
19	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Acceptable make: Any Reputed make)				
19.01	Single pole	8	***	Each	-

20	Supplying & laying of flame retardant LT PVC synthetic insulation mat suitable for voltage up to 3.3kv with dielectric strength of 30KV, thickness 2.0mm, tensile strength not less than 15 N/sqmm, leakage current not more than 10mA, with temperature variation from 10 to 55degC, confirming to IS-15652. NB: a) All allied material such as pu-resin, chemi-bound (hardener), special PVC adhesive, liquid primer and sealing material, tape of matching colour and design to be used to maintain aesthetic look of insulation over the joints and corners are to be provided as required. b) Test Certificate of the mat shall have to be submitted before starting work. (Suggested make of Mat: DOZZ / Insulatica 2000 / Shock PRU)				
20.01	2.0 mm class A, Working Voltage (3.3 KV)	20	***	Sqm	-
21	Providing and fixing ISI marked 4.5 kg carbondioxide type fire extinguisher in seamless MS cylinder complete with pressure gauge, discharge hose & horn, brass valve with initial full charge and base tray for keeping on floor etc. as required. (Acceptable make: Any reputed make)	6	***	Each	-
22	Providing and fixing ISI marked 4.0 kg clean agent type fire extinguisher in seamless MS cylinder complete with pressure gauge, discharge hose & horn, valve with initial full charge and base tray for keeping on floor etc. as required. (Acceptable make: Any reputed make)	4	***	Each	-
	Chilled water line insulation and cladding				
23	Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following closed cell elastomeric nitrile rubber of minimum 45 Kg / cu m density, thermal conductivity 0.037 W/MK or better at 20 deg mean temperature class 'O' insulation applied by suitable adhesive and finally applying 0.63mm aluminium sheet cladding complete with type 3 , grade 1 roofing feltstrip (as per IS:1322 as amended up to date) at joints repairing of damage to building etc. as per specifications and as required complete in all respect.				

23.01	150 mm dia. M.S. 'C' - class as per IS 1239 made of M.S. sheet of minimum thickness 6.35 mm (32 mm thick insulation)	300	***	Metre	-
23.02	100 mm dia. M.S. 'C' - class as per IS 1239 made of M.S. sheet of minimum thickness 6.35 mm (32 mm thick insulation)	250	***	Metre	-
23.03	80 mm dia. M.S. 'C' - class as per IS 1239 made of M.S. sheet of minimum thickness 6.35 mm (32 mm thick insulation)	200	***	Metre	-
23.04	65 mm dia. M.S. 'C' - class as per IS 1239 made of M.S. sheet of minimum thickness 6.35 mm (32 mm thick insulation)	150	***	Metre	-
24	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 1239/Class -II of IS: 3589 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :				
24.01	50 mm (wall thickness not less than 6.3 mm)	100	****	Metre	-
24.02	25 mm (wall thickness not less than 6.3 mm)	100	***	Metre	-
25	Supplying, fixing, testing and commissioning of following BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water circulation as specified in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications. (Acceptable make: Any Reputed make)				
25.01	150 mm dia.	41	***	Each	-
25.02	125 mm dia.	12	***	Each	-
25.03	65 mm dia	4	***	Each	-
25.04	50 mm dia.	26	***	Each	-
25.05	40 mm dia.	4	***	Each	-

25.06	25 mm dia.	7	***	Each	-
26	Supplying, fixing, testing and commissioning of following sizes Motorized Butter fly Valve with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating , conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20mA electric signal and providing similar transduced feedback output to control system as required. (Acceptable make: Any Reputed make)				
26.01	150 mm dia.	10	***	Each	-
26.02	125 mm dia.	5	***	Each	-
26.03	65 mm dia.	1	***	Each	-
26.04	50 mm dia.	3	***	Each	-
27	Supplying, fixing, testing and commissioning of following BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.				
27.01	150 mm dia.	4	***	Each	-
28	Supplying, fixing, testing and commissioning of following NON - RETURN VALVE with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.				
28.01	125 mm dia.	3	***	Each	-

29	Supplying, fixing, testing and commissioning of following Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.				
29.01	125 mm dia.	3	***	Each	-
30	Supplying, Installation, Testing and Commissioning of following sizes electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way modulating control valve in a single body. The actuator shall be capable of accepting upto 10V DC and upto 20mA electric signal and shall provide similar transduced feedback output to control system. Maximum close off pressure shall not be less than 6 Bar for upto 50 mm valves and 7 Bar for 65 mm & above. Valves should have pressure rating of 25 Bar minimum.				
30.01	150 mm dia.	4	***	Each	-
30.02	125 mm dia.	4	***	Each	-
31	Providing and fixing of Automatic Air Purging Valve made of brass DN25 of following sizes including modifications in base pipe, making sockets made of GI or MS pipe of suitable size, insulating the same with nitrile rubber, etc. in different location as directed by Engineer-in-charge. (Acceptable make: Any Reputed make)				
31.01	25 mm dia.	10	***	Each	-
32	Providing and fixing of Expansion Bellow made of EPDM rubber or any suitable materials as approved by the Engineer-in-Charge of following sizes in different location as directed by Engineer-in-charge. (Acceptable make: Any Reputed make)				
32.01	150 mm dia.	6	***	Each	-
32.02	125 mm dia.	6	***	Each	-

33	Supplying, Installation, Testing and Commissioning of Reverse Osmosis system of not less than 150 LPH capacity with following specification:- RO purification, Working pressure 150 to 250 psi, recovery of pure water up to 60 to 80% with 1.1kW/1.5HP booster pump, Pure water and waste water pressure gauge, water quality indicator like TDS meter, change cartage indicator, Pre filtration by carbon media vessel FRP size 20 inch or equivalent, Filtration by dual media filter, Micron cartridge filter 20", Membrane-300GPDx2, 100GPDx1, WATER SAVER CARTRIDGE 20 INCHx1, Run water pump of not less than 1.5 hp, Digital pH meter with carbon vessel, dual media filter, micro cartage filter with all fully automatic operation like main supply on/off overload protections, pressure pump on/off, level sensor, automatic float switch etc. for chilled water. (Suggested Make: Ion Exchange/ Kemflw/ Eureka Forbes / Thermax)	1	****	Each	-
34	Providing and placing on terrace polyethylene water storage tank with fittings and the base support at same level of main tank , IS: 12701marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes, providing and fixing level indicator, float valve etc. complete as required. (Acceptable Make: Sintex / Plasto/ Ganga / Supreme)	5000	***	Litre	-
35	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall (Acceptable Make : Astral/ AKG/ Jindal)				
35.01	40 mm nominal dia Pipes	75	***	Metre	-
35.02	50 mm nominal dia Pipes	50	***	Metre	-
	IBMS				

36	CENTRAL CONTROL SERVER Supplying Installation Testing Commissioning of Central Control Server System comprising of Intel® Xeon® CPU E5-2640 x64 (or better) compatible with dual and quad core processors, Windows 11 (Professional, Enterprise, Ultimate, 64 bit), Windows Server 2013 R2 (Standard, Enterprise, 64 bit) 16 GB or more, Video card and monitor capable of displaying at 1024 x 768 resolution or better, Latest Microsoft Licence Version Operating System Loaded with MS OFFICE 2019 Professional, Word, EXCEL, Power Point, Outlook Express, Microsoft Team official version lifetime licences suitable for running BMS software complete etc. as required.	1	***	Each	-
37	PC System Supplying Installation Testing Commissioning of Client PC System comprising of PC Hardware with minimum 11th Gen Intel® i7 processor CPU E5-2640 x64 (or better), compatible with dual and quad core processors minimum 3.1 Ghz and 8GB or higher RAM, Hard Drive Space of 256 GB SSD or better, Video card and monitor capable of 1920 x 1080 pixel resolution or better with Ethernet adapter (10/100/1000 Mbps with RJ-45 connector) with 2 GB or higher Graphics card suitable for BMS System complete etc. as required.	2	***	Each	-
38	LaserJet printer Supplying Installation Testing Commissioning of LaserJet printer having printing resolution 1200 x 1200 dpi, (dot/inch) or better, 21 to 30 ppm printing speed (LaserJet) complete etc. as required	2	***	Each	-
39	LED Display Supplying, Installation, Testing and Commissioning of following size LED display (LED monitor) industrial grade with 3840x2160 resolution or better, USB playback, bluetooth and miracast connectivity, 4X HDMI 2.0, DP 1.2, HDR 10/10+, brightness: 500-nits or better, Video wall mode should be available, contrast ratio: 1200:1, OPS slot, viewing angle (H/V): 170°/ 170°, response time less than 12ms, Display control shall be on monitor screen and programmable with remote (remote shall be supplied with system), Key Board, Optical Mouse, etc. as required.				
39.02	42 inch or larger	2	***	Each	-

40	Software for Building Management System : Supplying Installation Testing Commissioning of Necessary Software (UL listed) Packages containing Building Management with Capability of Collection, Storage, Processing and Controlling all the Data. Software shall support Open Standard Protocols like XML, BACnet, Modbus, Lon works etc. and without the use of Proprietary Protocols, with Enterprise Level Database Like MS SQL complete Lifetime Licenced & capable to collect, store & access all points from Fire Alarm Systems, IT Systems, Automation Systems, HVAC System, Lift, Energy management, Water Management System, etc. to create & monitor historical & event data, event management data, alarm management data & reporting data, Email Alerts for Critical alarms for all the systems. The scope includes additional software required by BMS software (to enable a standard Web browser) to be resident on the DDC/client machine (manufacture-specific browsers shall not be acceptable). User log-on identification and password shall be required & a minimum three-layered security system (User interface Level, Application Level and Data Base Level) to be deployed for safety. The supplied computer software shall employ objectoriented technology (OOT) for representation of all data and control devices within the system. This data shall reside on a server for all database access (Systems requiring proprietary database and user interface programs shall not be acceptable). All components and controllers supplied under this contract shall be true "peer-to-peer" communicating devices (Components or controllers requiring "polling" by a Master / Global / Host to pass data shall NOT be acceptable). Physical connection of BACnet/MOD BUS devices shall be via Ethernet at all levels. The License must be provided by default. The BMS software shall be complete in all respect to cater the following different numbers of points managed in the installation.				
40.03	For Upto 5000 point included				
		1	***	Each	-

41	Touchscreen Color portable operator terminal Supplying Installation Testing Commissioning of following sizes Touchscreen Color portable operator terminal capable of connecting to one of the controllers on the communication bus and view parameters of the complete system. The terminal should be capable of viewing /changing parameters and trends, the specified parameters as per requirement etc. as required.				
41.02	7" Touch screen	1	***	Each	-
42	DDC CONTROLLERS Supplying Installation Testing Commissioning of IP Based DDC controller capable of fully "stand- alone" operation i.e. In the event of loss of communication with other DDC's or Control Station, they shall be able to function on their own. The controllers shall consist of dual/quad core 32 bit microprocessors with EPROM based operating system on BACNET. The network Topology shall not allow single point failure. Each DDC on field level shall have embedded TCP/IP (10/100Mbps) connectivity so that it can be hooked into the Local Area Network (LAN) provided by the client or on dedicated network . Each DDC can be accessed from the Graphical User Interface (GUI) or from a standard Web browser (WBI) by connecting the server alongwith inbuilt web browser. All controllers shall accept 230V+/- 10%, 50Hz Uninterrupted power supply provided by end user. Controller shall support DHCP addressing over Local Area Network (LAN) so that the static IP requirements get reduced however a single static IP shall be provided for system so that it can be hosted on to internet in consultation with end user. The microprocessor based DDC's shall be provided with power supply, analogue to Digital and Digital to analogue converters with memory and capacity to accommodate input/output (I/O) hardware points (with or without an expansion board). Each DDC should have own board and shall accept 0-10 V / 4-20mA input signal having Minimum 20% spare capacity considered for expansion. Each DDC on field level should have minimum 128MB RAM & 64MB Flash memory. Following type of All controllers should be mandatorily BTL approved with B-BC profile complete etc. as required.				
42.02	DDC Controller-Type-II (Support upto 64 Points)	4	***	Each	-

42.03	DDC Controller-Type-III (Support upto 96 Points)	4	***	Each	-
42.04	DDC Controller-Type-IV (Support upto 128 Points)	2	***	Each	-
42.05	DDC Controller-Type-V (Support upto 160 Points)	2	***	Each	-
43	EXPNSION IO MODULE Supplying Installation Testing Commissioning of following type of input output (IO) expansion module complete etc. as required.				
43.02	I/O Module with 8 UIO channels	4	***	Each	-
43.03	I/O Module with 8 UI channels	4	***	Each	-
43.04	I/O Module with 8 DI channels	6	***	Each	-
43.05	I/O Module with 16 DI channels	4	***	Each	-
43.06	I/O Module with 8 DO channels	2	***	Each	-
44	Enclosure for DDC Supplying Installation Testing Commissioning of following sizes Powder coated wall mounted lockable and secure enclosure for DDC panel made of 16 SWG sheet steel IP -55 rated with proper internal mounting accessories for DDC such as DIN Rails, terminal block for cable terminations, well dressed for all internal cabling, ferruling, tagging etc. The DDC panels shall have power supply and connections for other peripheral equipment, switchgear protections, isolation transformer, earthing, relays, fuses, auxiliary power output socket & lamp etc. as required.				
44.01	500mm X 500mm X 200 mm	5	***	Each	-
44.02	600mm X 600mm X 200mm	5	***	Each	-
44.03	800mm X 1000mm X 200mm	2	***	Each	-

45	Integration Unit Supplying Installation Testing Commissioning following type 3rd party Integration unit to provide the interface between Ethernet LAN and the 3rd party field control devices or any other devices which need to be integrated. These shall also provide supervisory capability of functions over the devices connected to it. The purpose of using these units should be limited to integrate the devices only. The Unit must have two onboard Ethernet port, minimum 2/3 on board RS485 ports. The Integration unit should have inbuilt 4GB memory for program storage. The Unit must communicate over TCP/IP with communication speed of 10/100MBPS. The Integration unit should be capable of handling multiple protocol simultaneously such as Bacnet, Modbus, SNMP restricted to single protocol. All integrators should be mandatorily BTL listed. The integration unit shall be housed in suitable size sheet steel enclosure made of 1.6mm thick CRCA sheet, lockable front door with glass, arrangement for cable entry and duly powder coated complete etc as required.				
45.01	Integrator for 500 Points	2	***	Each	-
45.02	Integrator for 1250 Points	2	***	Each	-
46	Field Devices Supplying Installation Testing Commissioning of following Field Devices including connection etc. as required.				
46.01	Water Differential Pressure (DP) Switch for Pump Status.	3	***	Each	-
46.02	High/Low Level Switch for Tank Level Monitoring.	4	***	Each	-
46.03	Air DP Switch for Fan Run Status.	3	***	Each	-
46.05	Outside Temp & Humidity Sensor with radiation shield. Measuring Range: Temp:- -15 to 50 OC & RH 0-100%, Accuracy: +/- 1 deg C +/- 3%	2	***	Each	-
46.06	Immersion Temp Sensor for CHW line. Measuring range: -30 to 110 OC, Accuracy: +/- 1.3 deg C	2	***	Each	-

46.07	Water Pressure Sensor . Accuracy: +/-0.3% FSL	2	***	Each	-
46.09	Current Sensing Relay	6	***	Each	-
46.10	Wall Mount Temp. Sensor	4	***	Each	-
46.12	Differential pressure switch for filters & Blowers	6	***	Each	-
46.13	Bi-Level Switches (Hi/Low)	3	***	Each	-
46.14	Water Level Sensor	4	***	Each	-
46.15	Explosion proof level Switch	3	***	Each	-
46.16	Water Flow Switch	6	***	Each	-
46.18	Ultrasonic Water BTU Meter including digital display (Clamp-On) suitable for Pipe sizes dia upto 250mm	2	***	Each	-
47	Dismantling of 3 Chiller units, 3 cooling towers, its base, demolishing and removal of MS structure, sheds, cables, Electrical panels, cable trays, pipelines, pumps etc. from the existing position (terrace of Library to ground floor), storing the items in safe location as directed by the Engineer-in-charge for disposal. [N.B. - This dismantling and removal shall take place only after completion of the entire work and their successful commissioning]	1	***	Job	-
48	(-) Less buy back of dismantled 3 Chiller units, 3 cooling towers, its base, MS structure, sheds, cables, Electrical panels, cable trays, pipelines, pumps etc.	1	***	Lot	-
	Total SH- 2 A				
	SUB HEAD - 2B : Comprehensive Maintenance and Operation of Air-Cooled Screw Chiller Unit SYSTEM (Supplementary agreement shall be formed after DLP) under ARMO Fund				

1	Operation, Control, Monitoring and Comprehensive Maintenance of the entire system including operation, routine, preventive and breakdown maintenance replacement of spare parts as and when required for proper running of the system by deputing following minimum one qualified and experienced operators / technicians at the site in three shifts of 8 hours each. (a) Contractor shall ensure exclusive presence of at least one operator and one Helper per shift with required number of reliever. (b) Operator shall be skilled with minimum qualification of 2 years ITI course passed / Diploma (03 Years in engineering or higher from any Govt recognised Institute having experience in BMS operation in chiller plant of 04 years for ITI passed or 02 years for Diploma. (c) Contractor shall pay the wages to the operators not less than Rs. 1500/- (Fifteen Hundred only) per day for the first year and 5% (Five Percent) cumulative increment shall be effected every year. All labour regulations shall be followed. EPF & ESI as applicable shall be complied. (d) Before claiming bill, contractor shall have to submit biometric attendance proof of the operators alongwith wages payment proof (no cash payment is allowed), EPF & ESI payment as applicable. No reimbursement on account of EPF & ESI or wages increment etc. shall be made by IIT Delhi. Paid Challan of EPF & ESI as applicable shall be submitted before claiming bill. (e) Contractor shall be responsible for any accident or eventuality or labour dispute. Training of the operators with proper protection shall be provided by the contractor. (f) Recovery shall be made from the bill payable to the contractor for want of operator in any shift at the rate of actual wages being paid as applicable at that time plus Rs.500 (Five hundred rupees) per shift as penalty. (g) Proof of wages payment, compliance of EPF and ESI contribution, print out of biometric attendance shall be produced before claiming bill. Duty chart shall be displayed at site. Good quality Biometric attendance machine (face detection type) shall be provided by the contractor at site. Apart from this manual attendance register shall be maintained. (h) Log book, stationaries, duster, detergents, safety shoes, tools set, pressure pump for cleaning of condenser shall be provided. N.B. During 1st year after commissioning, CAMC shall be free of cost. DLP in force.				
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1.01	1st Year (Defect Liability Period)				
	Operation, Control and Monitoring				
	Operator (3 +1)	1354	***	Shift	-
	Helper / Assistant (3 +1)	1354	***	Shift	-
1.02	2nd Year				
	Operation, Control and Monitoring				
	Operator (3 +1)	1354	***	Shift	-
	Helper / Assistant (3 +1)	1354	***	Shift	-
	CAMC (1 Job means for a period of 12 calendar months)	1	***	Job	-
1.03	3rd Year				
	Operation, Control and Monitoring				
	Operator (3 +1)	1354	***	Shift	-
	Helper / Assistant (3 +1)	1354	***	Shift	-
	CAMC (1 Job means for a period of 12 calendar months)	1	***	Job	-
1.04	4th Year				
	Operation, Control and Monitoring				
	Operator (3 +1)	1354	***	Shift	--
	Helper / Assistant (3 +1)	1354	***	Shift	-
	CAMC (1 Job means for a period of 12 calendar months)	1	***	Job	-
1.05	5th Year				
	Operation, Control and Monitoring				
	Operator (3 +1)	1354	***	Shift	-
	Helper / Assistant (3 +1)	1354	***	Shift	-

	CAMC (1 Job means for a period of 12 calendar months)	1	***	Job	-
1.06	6th Year				
	Operation, Control and Monitoring				
	Operator (3 +1)	1354	***	Shift	-
	Helper / Assistant (3 +1)	1354	***	Shift	-
	CAMC (1 Job means for a period of 12 calendar months)	1	***	Job	-
	TOTAL				-

JE

AEE-in-charge AC Division