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

NAME OF WORK	:	**Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi.**
ESTIMATED COST	:	**Rs.36,52,716.00**
EMD	:	**EMD Declaration to be submitted**
N.I.T. No.	:	**10161/88/EW/IITD/2021-22**
Date of Opening	:	**11.05.2022 at 03:00PM**

Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi

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

1	Amount of NIT	:	Rs. 36,52,716.00
2	Earnest money	:	**EMD Declaration to be submitted**
3	Completion time	:	12 months
4	Last date of submission (online)	:	11.05.2022 upto 03:00 PM
5	Date of opening	:	12.05.2022 at 03:00 PM
6	Form of NIT	:	IITD 7/8
7	Schedule applicable	:	DSR/Market Rate
8	Material stipulated	:	As per Schedule of Work
9	Chargeable head	:	NPN10
10	Estimate no.	:	IITD/DB/10162
11	Work code no.	:	W03790
12	NIT No.	:	10162/88/EW/IITD/2021-22
13	Type of work	:	**Maintenance works including works of up gradation, aesthetic, special repair and addition/alteration**.

Certified that this NIT contains **1** to 55 pages.

NIT amounting to Rs. **36,52,716.00** is approved.

D/Man **Sr. F/I** **AEE[T]SS** **AEE [P]** **E.E. [ED-I]**

C…..Nil I….. Nil O….. Nil

D'Man /J.E. A.E.E / Sr. F/I E.E.

INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS, NEW DELHI – 110016
NOTICE INVITING E-TENDER

IITD/WORKS (SP- 3868)/2022

Executive Engineer (ED-II,) Indian Institute of Technology Delhi, Hauz Khas, New Delhi-16. (Phone No. 011-26598437) on behalf of Board of Governors invites **Item Rate Tender** from **M/s Voltas Ltd or their Authorized Dealers** as per details given below.

1	Name of Work	:	**Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi.**
2	NIT No.	:	**10162/88/EW/IITD/2021-22**
3	Estimated cost	:	**Rs.36,52,716.00**
4	Earnest Money	:	**EMD Declaration to be submitted**
5	Period of completion	:	**12 months**
6	Last date & time of bid submission	:	**11.05.2022 up to 03:00PM**
7	Performance Bank Guarantee	:	**3% of 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 enroll / register before participating through the website 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 Delhi 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 and Financial should be submitted in the E-procurement portal).

Executive Engineer [ED-I],
For & on Behalf of BOG, IIT Delhi

Ch. Head: NPN10
Work code- W03790

C…..Nil I….. Nil O….. Nil

D'Man /J.E. A.E.E / Sr. F/I E.E.

Copy to: -

1. Institute Engineer
2. D.A. (Works Accounts) - for opening of tenders in the office of D.R. [SPS]
3. A.E.E. (E) Plg.
4. Sr. F/I
5. D.R. (A/Cs)
6. D.R. [SPS]
7. Notice Boards.
8. Office Copy
9. Web site Administrator, IITD

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SCHEDULE

1	Name of Organization	:	Indian Institute of Technology Delhi
2	Tender / Quotation Type [open / limited / EOI / auction / single]	:	Open
3	Tender / Quotation Category [services / goods / works]	:	Goods/Works
4	Type / Form of Contract [work / supply / auction / service / buy / empanelment / sell]	:	Work & Supply
5	Form of contract (IITD – 7/8)	:	IITD-8
6	Work Category [civil / electrical / fleet management / computer systems]	:	Air-Conditioning Works/Electrical Works
7	Is Multi Currency Allowed?	:	No
8	Date of issue / publishing /start	:	**04/05/2022 (17.00 PM)**
9	Document download start date	:	**04/05/2022 (17.00 PM)**
10	Document download end date	:	**11/05/2022 (15.00 PM)**
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	:	**11/05/2022 (15.00 PM)**
14	Date & time of opening of Technical Bids	:	**12/05/2022 (15.00 PM)**
15	Tender fee	:	Free of cost
16	Earnest Money Deposit (EMD)	:	EMD DECLARATION TO BE SUBMITTED IN LIEU OF EMD AS PER PRESCRIPBED FORMAT
17	No. of covers [1/2/3/4]	:	02
18	Address for communication	:	Executive Engineer [Electrical], Works Department, Hauz Khas, IIT Delhi, New Delhi – 110016
19	Contact No.	:	011- 2659 1742, 6751,7198
20	E-mail address	:	a26335@admin.iitd.ac.in, a26318@admin.iitd.ac.in, a25891@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 soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. 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 enroll 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 Enroll". 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 username and assign a password for their accounts.
3) Bidders are advised to register their valid email address and mobile numbers 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 II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized 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 the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR QUOTATION /TENDER DOCUMENTS

1) There are various search options built in the CPP Portal, to facilitate bidders to search active Tender by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for Tender, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a 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. These Tender can be moved to the respective 'My Tender' 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 bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
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 and 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 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 fees 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 and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
   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 unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
7) The uploaded Tender documents become readable only after the Tender opening by the authorized 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 the Tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a Tender or the relevant contact person indicated in the Tender.

2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

GENERAL INSTRUCTIONS TO THE BIDDERS

1) The tenders will be received online through portal http://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- 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 authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link “Information about DSC”.

3) Tenders are advice to follow the instructions provide in the “Information’s 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

INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI – 110016

INFORMATION AND INSTRUCTIONS TO BIDDERS FOR E-TENDERING

Executive Engineer (ED-II) Indian Institute of Technology Delhi, Hauz Khas, New Delhi-16. (Phone No. 011-26598437) on behalf of Board of Governors invites online **Item Rate Tender** from **M M/s Voltas Ltd or their Authorized Dealers** as per details given below.

Sl. No.	N.I.T. No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Period of completion	Last date & time of submission of bid (online mode)	Time & date of opening of Technical Bid	Time & date of opening of financial bid
[1]	[2]	[3]	[4]	[5]	[7]	[8]	[9]	[10]
1	10161/88 /EW/IITD/2021-22	Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi.	**Rs. 36,52,716.00**	**EMD Declaration to be submitted**	**12 months**	**11.05.2022 upto 03:00 PM**	**12.05.2022 at 03:00 PM**	**To be Intimated after assessing technical bid.**

1. The bidder whose bid is accepted shall be required to submit a performance guarantee of 3 percent of the tendered amount in the form of Bank Guarantee or FDR from a nationalised/ scheduled bank within the period specified in Schedule F. in case the bidder fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, **THE BIDDER SHALL BE SUSPENDED FOR ONE YEAR AND SHALL NOT BE ELIGIBLE TO BID FOR IIT DELHI TENDERS FROM THE DATE OF ISSIUE OF SUSPENSION ORDER.** The Performance Guarantee shall initially be kept valid up to t h e stipulated date of completion plus sixty days beyond that.

2. 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 **previous day of last date of submission of bids.**

i. **Three** similar works each costing not less than **Rs. 14,61,200.00**, or **two** similar works each costing not less than **Rs.21,91,700.00**, or one similar work costing not less than **Rs. 29,22,200.00** (all figures rounded to nearest thousand)

ii. **In lieu of Earnest money** EMD Declaration shall have to be submitted as per prescribed format.

3. 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 financial bid.

4. **Similar work means Maintenance and operation of water-cooled screw chillers and HVAC system with capacity greater than (3 X 275 TR).**

5. 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*.

6. Completion certificates are required to be got issued by an officer not below the rank of Executive Engineer 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 '4' above**

b. The completed cost of the work

c. Actual date of completion of the work

7. 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.**

8. **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.

9. Information and Instructions for bidders posted on website shall form part of bid document.

10. 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.

11. But the bid can only be submitted after submission of EMD Declaration form duly signed by the bidder as per prescribed format.

12. 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. 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 e-tendering authority, if so desired, by the tender inviting authority.

13. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has submitted prescribed EMD Declaration and other documents scanned and uploaded are found in order.

14. 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.

15. 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.

16. 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.

17. Contractors must ensure to quote rate of each item.

18. '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.

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:

1. Annexure – 1 duly filled in and got signed.
2. EMD Declaration Annexure – 2 duly signed on firm letter head
3. Authorization certificate of Voltas specific & particular to this tender. [applicable for Dealer only]
4. Attested certificate of work experience as desired (vide clause 4 above). [applicable for Authorized Dealer]
5. Certificate of GST Registration of the State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking alongwith other bid documents.

   "if work is awarded to me, I/we shall obtain GST registration certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by IIT Delhi, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by IIT Delhi or GST department in this regard."
6. Affidavit as per provision of the clause 1.2.2 of IITD-6 [To be submitted on stamp paper and date of affidavit shall not be earlier than the publication of NIT. NIT number, name of work shall invariably be written on the Affidavit, any deviation will lead to rejection of bid without further notice.]
7. Acceptance to execute INTEGRITY PACT [see integrity pact]
8. IITD 7 / 8 duly signed
9. EPFO & ESIC Registration proof with up to date challan. [Not mandatory for OEM]
10. Valid Electrical license. [Not mandatory for OEM]
11. Any other document as specified in the NIT

Executive Engineer [ED-I]
For & on Behalf of BOG, IIT Delhi

IITD – 6

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 **M/s Voltas Ltd or their Authorized Dealer** as per details given below for the work of **: Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi.**

2.0 The work is estimated to cost **Rs. 36,52,716.00** This estimate, however, is given merely as a rough guide.

1.0 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:-

1.0.1 **Criteria of eligibility for submission of bid documents: Conditions for intending bidders / contractors**

1.0.1.1 **Three** similar works each costing not less than **Rs. 14,61,200.00**, or **two** similar works each costing not less than **Rs. 21,91,700.00**, or one similar work costing not less than **Rs. 29,22,200.00** in last 7 years ending previous day of last date of submission of bids. 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 financial bid.

1.0.2 **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 **12 months** 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 In lieu of Earnest Money, bidder has to submit EMD Declaration as per prescribed proforma given in the NIT.

9.01 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, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.***

10.0 The bid submitted shall become invalid, if:

10.1 The bidder is found ineligible.

10.2 The bidder does not upload all the documents (including GSTIN Registration) as 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 the bid opening authority.

11.0 The contractor whose bid is accepted will be required to furnish **performance guarantee of 3% (Three Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of Deposit at Call

receipt of any scheduled bank / Banker' cheque of any scheduled bank/ Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or irrevocable Bank Guarantee Bonds of any Scheduled Bank or the State Bank of India 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 **THE BIDDER 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.**

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 bid for the works shall remain open for acceptance for a period of **ninety days from the date of opening of financial bids**, if any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the IIT Delhi shall, without prejudice to any other right or remedy, be at liberty to **SUSPEND THE BIDDER FOR ONE YEAR AND SHALL NOT BE ALLOWED TO BID FOR IIT DELHI TENDERS FROM THE DATE OF ISSUE OF SUSPENSION ORDER.**

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:-

19.01 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.

19.02 Standard IITD Form –7/8 or other Standard IITD Form as applicable.

20.0 In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as to be submitted physically in IIT Delhi, if so desired by the accepting authority, then the bid submitted shall become invalid and the IIT Delhi shall, without prejudice to any other right or remedy, **SUSPEND THE BIDDER FOR ONE YEAR AND SHALL NOT BE ALLOWED TO BID FOR IIT DELHI TENDERS FROM THE DATE OF ISSUE OF SUSPENSION ORDER.**

INTIGRITY PACT

To

……..,

……..,

……..

3.0 Sub: NIT No. **10162/88/EW/IITD/2021-22** for the work of **"Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at 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,

Executive Engineer

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

To

Executive Engineer (ED-I),
IIT Delhi, Hauz Khas,
New Delhi – 110016

Subject: Submission of Bid for the work of **"Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at 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 is 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 **Executive Engineer (ED-I.)**, IIT Delhi

.....,(Here in after referred as the '**Principal/Owner**',

(Address of Division)

'**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. **100162/88/EW/IITD/2021-22**) (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for **"Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at 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

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 willful 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 intensions.
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.....

Date.....

IITD - 7/8

INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI - 110016

Percentage Rate Tender / Item Rate Tender & Contract for Works

Tender for the work of **"Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi."**

1. To be submitted online by **Upto 3 PM of 11.05.2022**
2. To be opened on **12.05.2022 at 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.

We agree to keep the tender open for ninety (90) days from the due date of its opening /ninety days from the date of opening of financial bid in case tenders are invited on 2/3 envelop system (**strike out as the case may be**) and not to make any modification in its terms and conditions.

In lieu of Earnest Money, EMD Declaration Form has been submitted duly signed. If I / We, fail to furnish the prescribed performance guarantee within prescribed period as specified 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 **SUSPEND ME/US FOR ONE YEAR AND I/WE SHALL NOT BE ALLOWED TO BID FOR IIT DELHI TENDERS FROM THE DATE OF ISSUE OF SUSPENSION ORDER**. 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 performance guarantee absolutely. Further, I / We agree that in case of forfeiture of 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 ……..

C…..Nil I….. Nil O….. Nil

D'Man /J.E. A.E.E / Sr. F/I E.E.

PROFORMA OF SCHEDULE

SCHEDULE "A"

Schedule of Quantities (enclosed)

SCHEDULE "B"

Schedule of materials to be issued to the contractor

Sr. No.	Description of item	Quantity	Rates in figures & words at which the materials will be charged from the contractor	Place of issue
(1)	(2)	(3)	(4)	(5)
	--- NIL ---			

SCHEDULE "C"

Tools and Plants to be hired to the contractor

Sr. No.	Description	Hire charges per day	Place of issue
(1)	(2)	(3)	(4)
	--- NIL ---		

SCHEDULE "D"

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

NIL

SCHEDULE "E"

Reference to General Conditions of Contract

1	**Name of work**	**:**	**"Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi."**
2	Estimated cost of work (₹)	:	**Rs. 36,52,716.00**
3	Earnest Money (₹)	:	**EMD DECLARATION TO BE SUBMITTED**
4	Performance Guarantee	:	3 percent of tendered value
5	Security Deposit	:	5 percent of tendered value

SCHEDULE "F"

GENERAL RULES & DIRECTIONS:

Officer inviting tender	:	Executive Engineer (ED-I)
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	:	Executive Engineer (ED-I)
2 (viii)	Accepting authority	:	Executive Engineer
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits	:	15 percent
2 (xi)	Standard Schedule of Rates	:	Market
2 (xii)	Department	:	Estate & Works, IIT Delhi
9 (ii)	Standard IITD Contract Form	:	**General Conditions of Contract 2010, IITD Form 7/8-2010** modified & Corrected up to date of submission of tender

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

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

TABLE OF MILE STONE(S):

C…..Nil I….. Nil O….. Nil

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 work	:	12 months

Authority to decide:	**Extension of time**	:	Engineer-in-charge
	Rescheduling of milestones	:	Institute Engineer

CLAUSE 6, 6A

Clause applicable – (6 or 6A)	:	6 A

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	:	Not Applicable

CLAUSE 10A

List of testing equipment to be provided by the contractor at site lab					
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

CLAUSE 10 C

Component of labour expressed as percent of value of work	:	72 Percent

CLAUSE 10 CA

Materials covered under this clause		Nearest materials (other than cement, reinforcement bars & structural steel) for which All India Wholesale Price index to be followed	Base Price of all the materials covered under clause 10 CA*
1	**NIL**		
2	**NIL**		
3	**NIL**		
4	**NIL**		

*base price of all materials covered under clause 10 CA is to be mentioned at the time of approval of NIT

CLAUSE 10CC (Not Applicable)

Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	:	NIL
Schedule of component of other Materials, Labour, P.O.L. etc. for price escalation.		
Component of Civil (except materials covered under clause 10 CA) / Electrical construction materials - expressed as percent of total value of work	:	**X_m = percent**
Component of labour - expressed as value of work percent of total	:	**Y = percent**
Component of P.O.L. – expressed as percent of total value of work	:	**Z= percent**

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

CLAUSE 12

12.2 & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work	:	50%
12.3 A	Type of work	:	Maintenance works including works of up-gradation, aesthetic, special repair, addition / alteration
12.5	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	:	50%

CLAUSE 16

Competent authority for deciding reduced rates	:	Executive Engineer

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 36 (i)

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 or Diploma Engineer	Electrical/ Mechanical	Site Engineer	02 years for Graduate & 5years for Diploma	01	15,000.00 per month	Fifteen thousand rupees only per month

Assistant Engineers retired from Govt. / IIT Delhi services that are holding Diploma will be treated at par with Graduate Engineers.

COMMERCIAL AND ADDITIONAL CONDITIONS

1. GENERAL

1.1. This specification covers supply and delivery of materials at site as per schedule of work, all preparatory work assembly and installation, testing and commissioning putting into operation of air conditioners at site.

1.2. Location: Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi.

1.3. The work shall be executed as per CPWD General Specifications for Electrical Works Part-I (Int.) 2013, Part-II (Ext.) 1994, HVAC Work 2017, as applicable, 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 familiarize 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 clarification required by the department shall have to be furnished by the tendered within the time given by the department for the same. The tendered 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 did 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. Payment shall be released after successful completion (Supply, Installation, Testing and satisfactory commissioning) of the work. 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 3 lakhs) at IIT Delhi before releasing 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. by the contractor.

4. SECURITY DEPOSIT

4.1. Security Deposit shall be deducted from each running bill and final bill to the extent of 5% of the gross amount payable. **The security deposit shall be released on the expiry of guarantee period stipulated in the contract**.

5. PERFORMANCE GUARANTEE

5.1. The successful tenderer shall submit an irrevocable performance guarantee of 3% 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 date of completion plus 12 months beyond. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the competent authority.

5.2. 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 above and net payment shall reduce accordingly.

6. RATES

6.1. The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including works GST & labour cess), duties, levies, etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing and commissioning etc. at site including temporary construction of storage, risks overhead charges, general liabilities/ obligations.

6.2. The contractor has to carry out maintenance as per manufacturer's standards for a period of 12 months from the date of handing over. Nothing extra shall be paid on this account for this period.

7. COMPLETENESS OF TENDER

7.1. All sundry equipments, 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.

8. STORAGE AND CUSTODY OF MATERIAL

8.1. 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.

9. CARE OF THE BUILDING

9.1. 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.

10. COMPLETION PERIOD

10.1. 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.

11.2 The tenderer shall guarantee among other things, the following:

11.2.1 Quality, strength and performance of the material used as per manufacturer's standards.

11.2.2 Safe mechanical and electrical stress on all part under all specified conditions of operation.

12. POWER SUPPLY

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

13 EXTENT OF WORK

13.1 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 installation 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.

13.2. 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.

14. VALIDITY

14.1 Tenders shall be valid for acceptance for a period 90 days of days from the date of openingof price bid.

15. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS

15.1 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:

15.1.1. Factories Act

15.1.2 Indian Electricity Rules

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

15.1.4 Workmen's compensation Act

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

16. INDEMNITY

16.1. 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.

17. ERECTION TOOLS

17.1 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

18. COOPERATION WITH OTHER AGENCIES AND OCCUPANTS OF THE BUILDING

18.1 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 or 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 under taken by the tenderer himself.

19. MOBILIZATION ADVANCE

19.1 No mobilization advance shall be paid for this work

20. INTERPRETING SPECIFICATION

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

20.1.1 Schedule of quantities

20.1.2 Technical Specification

20.1.3 Drawing (if any)

20.1.4 General Specification for Electrical Works of CPWD (relevant Parts)

20.1.5 Relevant BIS or other international code in case BIS code is not available.

21. POLICY OF THE INSTITUTE

21.1 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 extent rules of the Institute with due diligence. Any violation on the part of the contractor shall be dealt with the extant rules of the Institute.

22. Contract may be terminated by the Engineer-in-charge at any time giving 15days notice to the contractor.

SPECIAL TERMS AND CONDITIONS

1. That it is expressly understood and agreed between the parties to this Agreement that the persons deployed by the contractor for the services mentioned above shall be the employees of the contractor for all intents and purposes and that the persons so deployed shall remain under the control and supervision of the contractor and in no case, shall a relationship of employer and employee between the said persons and the IITD shall accrue/arise implicitly or explicitly.

2. That on taking over the responsibility of providing Contractor's Worker, the contractor shall formulate the mechanism and duty assignment under intimation to the Engineer-in-charge. Subsequently, the contractor shall review work arrangement from time to time. The contractor shall further be bound by and carry out the directions/instructions given to him by the Engineer-in-charge in this respect from time to time.

3. That the Engineer-in-charge or any other person authorized by him shall be at liberty to carry out surprise check on the persons so deployed by the contractor in order to ensure that persons deployed by him are doing their duties.

4. That in case of the persons so deployed by the contractor does not come up to the mark or does not perform his/her duties properly or indulges in any unlawful activities or riots or disorderly conduct, the contractor shall immediately withdraw and take suitable action against such persons on the report of the Engineer-in-charge. Further, the contractor shall immediately replace the particular person so deployed on the demand of the Engineer-in-charge, in case of any of the aforesaid acts on the part of the said person.

5. **That the contractor shall particularly abide by the provisions of Minimum Wages Act, 1948. Minimum wages shall be paid by the Agency / Contractor at the rate fixed by Central Govt. / IIT Delhi from time to time. Arrears, if due as result of increase in minimum wages would be reimbursed to the contractor on submission of proof of actual payment to the worker. In case of half yearly increase in Minimum wages by the Central Govt., the contractor will submit copy of gazette notification to the Institute and the same may be considered by the Institute. However base rate of wages is considered as @795/- per day for mechanic, @654/- per day for helper as per latest notification.**

6. Qualification of For **Mechanic grade: - ITI pass certificate. The contractor shall take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct or acts of his employees so deployed.**

7. That the contractor shall deploy his persons in such a way that they get weekly rest. The working hour / leave for which the work is taken from them, do not violate relevant provisions of the Act. The contractor shall in all dealings with the persons in his employment have due regard to all recognized festivals, days of rest and religious or other customs.

8. That the contractor shall keep the IITD indemnified against all claims whatsoever in respect of the employees deployed by the contractor. In case any employee of the contractor so deployed enters in dispute of any nature whatsoever, it will be the primarily responsibility of the contractor to contest the same. In case IITD is made party and is supposed to contest the case, IITD will be reimbursed for the actual expenses incurred towards Counsel Fee and other expenses which shall be paid in advance by the contractor to IITD on demand. Further, the contractor shall ensure that no financial or any other liability comes on IITD in this respect of any nature whatsoever and shall keep IITD indemnified in this respect.

9. The Work is to be carried out for stipulated period of time and may be extended further as desired by Engineer-in-charge.

10. Non Judicial stamp paper worth Rs.10/- (Ten Rupees only) will be submitted by the contractor which will have to be signed as token of acceptance.

11. Institute reserves the right to remove any person deployed by the firm, without assigning any reason/notice. This will be without prejudice to the right of the contractor to remove any of his own employees deployed in the Institute.

12. That the contractor shall submit detail of the names, parentage, residential address, age, educational qualifications, experiences, etc. of the persons deployed by him in the premises of the IIT Delhi for the purpose of proper identification & category of the employees of contractor deployed at various points/sections. He shall issue identity cards bearing their photographs / identification, etc. and such employees shall display their identity cards at the time of duty.

13. The contractor shall ensure that the persons are punctual and disciplined and remain vigilant in performance of their duty.

13. Total number of manpower is as specified in the schedule of work. However, the Institute can increase or decrease the manpower as per requirement in case there is exigencies. The increase / decrease in manpower would accordingly affect the billing on pro-rata basis.

14. That the contractor shall be required to maintain Biometric Attendance at the IITD premise.

15. That the contractor shall make the payment of wages, etc. to persons so deployed monthly basis through Bank Transfer / electronic mode on or before 10th day of every month. Wages shall include bonus @ 8.33% of daily wage of the particular worker multiplied by number of days' work actually performed by the worker in a particular month, which shall also be shown separately on the wage sheet of the worker.

16. In case of delay of payment of wages beyond 10 days as specified, IIT Delhi shall arrange for payment to the workers at the risk & cost of the contractor. Decision of the Engineer-in-charge in this regard shall be full & final and binding upon the contractor**.**

18. Attendance comparative sheet shall be prepared by the contractor and to be submitted to the Engineer-in-charge after completion of every month as per duty chart, desired days of duty of a particular worker allowing weekly off and actual days of duty performed by the said worker. Summation of the two columns should tie in normal case. Falling short of days of attendance from desired days of attendance shall be got deducted from the bill of the contractor at the rate of the wages.

19. EPF & ESI contribution in respect of the workers shall be deposited with the authority concerned in time and employer's share shall be got reimbursed to the contractor by IIT Delhi on production of proof of deposition.

20. Form IITD-8 [General Conditions of Contract] with correction slip shall form part of the contract.

21. Tax shall be deducted from bill of the contractor as applicable as per rules.

22. The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligation under the contractor.

23. Failure to comply any of the clauses(s) or due to unsatisfactory performance as observed by Engineer-in-charge, the contractor shall be terminated at any stage without assigning any reason thereof.

24. Bills including GST shall be forwarded only when GST challans are produced by the contractor. Bills after deduction of GST amount shall be forwarded in the case where GST challans are not produced. However, GST shall be reimbursed to the contractor on production of challans thereof. GST as applicable will be refunded to the contractor in monthly bills on production of proof / challan. In case the contractor does not submit the GST challans then monthly bill will be forwarded without GST amount and it will be reimbursed through hand receipt later after submission of GST Receipt / Challan.

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	**:**	NOT APPLICABLE
9	DD / FDR / Banker's Cheque No. [if uploaded scanned copy] for EMD	**:**	NOT APPLICATION
10	Date of Issue	**:**	
	BANK DETAILS		
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

ANNEXURE - 2

Performa for Earnest Money Deposition

(To be submitted on firm's letter head with Technical Bid)

Whereas, I/we ……..(write Name of Agency here) have submitted bids for "Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi."

I/we hereby submit following declaration in lieu of submitting Earnest Money Deposit.

1. If after the opening of tender, I/we withdraw or modify my/our bid during the period of validity of tender (including extended validity of tender) specified in the tender documents,

Or

2. If after the award of work, I/we fail to sign the contract, or to submit performance guarantee before the deadline defined in the tender documents,

I/we shall be suspended for one year and shall not be eligible to bid for IIT Delhi tenders from date of issue of suspension order.

Signature of the Bidder / Contractor

Annexure -4

Manpower details

Sl. No.	Team	Manpower	Location
1.	Team	2nos Mech. 2nos Helper	LHC Building at IIT Delhi.

Annexure 'A'

Equipment Maintenance Schedule

Equipment	Frequency	Activates.
Chiller	Monthly	1. Check refrigerant level, gas leak test with electronic leak detector. If as necessary, inform department in writing on the rectification. 2. Inspect level and condition of oil. If abnormal, trace fault and rectify as necessary, inform department in writing on the rectification. 3. Check the liquid line sight glasses for proper flow. 4. Check all operating pressure and temperature. 5. Inspect and adjust, if required, all operating safety controls. 6. Check capacity control, adjust if necessary. 7. Lubricated vane/linkage/bearings. 8. Visually inspect machine and associated components, and listens unusual sound or noise for evidence of unusual conditions. 9. Check lock bolts and chillers springs mount. 10. Review daily operating log maintenance by departments operating personnel. 11. Providing written report to department, outlining services carried out adjustment made, rectification carried out and if the deficiency is of a major nature, arrange with department for shut-down to rectify equipment.
Chiller	Six monthly	Checking of control & safeties/microprocessor accessories.
Chiller	Annual (Immediately after award of contract)	1. Perform all functions for monthly check. 2. Check all flanges for tightness. 3. Change oil in oil sump. 4. Replace filter. 5. Check oil temperature control. 6. Check motor terminals. 7. Check connections in starter. Please not that oil filter gasket replacement shall deem to be including in the contract
		1. Check motor earthing, meggar motor and connection wiring on each leg. 2. Check motor temperature cut-out, tighten motor terminals. 3. Check starter contracts, are shield and transformer. 4. Check dashpot oil, clean dashpot and replace oil when necessary. 5. Test and calibrate overload setting. 6. Inspect, calibrate and adjust to original specifications all gauges, safety and operating controls including low temperature and high pressure cutout, oil pressure switch, load limit relay and electrical interlocks. 7. For water cooled condenser systems, inspect condenser tubes for fouling. Carry out decaling of condenser if fouling exceeds original specifications, the controller shall carry out cleaning of the tubes at his own expense. 8. Decaling of chiller. 9. Check compressor foundation bolts. 10. Check evaporator & condenser watts flow.
Water pumps	Monthly	1. Inspect all water pumps. 2. Check all seals, glands and pipeline for leaks and rectify as necessary. 3. Re-park and adjust pump glands as necessary.

		4. Check all pump bearings and lubricate which oil or grease as necessary. 5. Check the alignment and condition of all rubber couplings between pumps and drive motors and rectify as necessary. 6. Check all bolts and nuts for tightness and tighten as necessary.
Water pumps	Annual (Immediately after award of contract)	1. Perform all function for monthly checks. 2. Check motor earthing, meggar motor and connection wiring on each 3. Tighten motor terminals. 4. Check starter contacts. 5. Test and calibrate overload setting.
Expansion tank	Annual (Immediately after award of contract)	1. Inspection expansion tank, drain, clean and flush out tanks as necessary.
Piping System	Monthly and annual	1. Check all piping system for leaks and repair these where they have 2. Check for damage deterioration of insulation or sheathings necessary.
Cooling tower	Annual (Immediately after award of contract)	1. Grease the bearing of motor. 2. General maintenance & overhaul of motor or as and when required. 3. Inspection or nozzles/fills or earlier as per requirement.
Strainer	Six monthly (Once immediately after award of contract and again after 6 months period)	1. Carry out cleaning of strainer.
Air handling units	Monthly inspection	1. Inspect all air handling and fan coil units. 2. Check all air filters and clean or change filters as necessary. 3. Check all water coils, seals and pipelines for leaks and rectify as necessary. 4. Check and re-calibrate modulating valves and controls. Adjust and rectify as necessary to ensure compliance to the original specifications. 5. Purge air from all water coils. 6. Check all fan bearings and lubricate with grease as necessary. 7. Check the tension of all belt drives and adjust as necessary. 8. Check and clean all the condensate pans, trays and drains. 9. Check measure and re-calibrate all sensors if necessary. 10. Check, clean and service smoke detectors. Carry out a system test to ensure that the smoke detector will trip the AHU's., 11. Check spring vibration isolators for abnormal vibration. Rectify If necessary. 12. Coil to be cleaned by {a) spray of high-pressure clean water (not

		exceeding 30 psi (b) with chemical spray, if necessary.
Air handling units	Annual (Immediately after award of contract)	1. Perform all functions for monthly checks. 2. Tighten motor terminals 3. Check starter contacts. 4. Test and calibrate overload settings.
Ventilation	Monthly check and Annual (Immediately after award of contract)	1. Check adjusts as necessary the -air flow of all fans are in compliance with the original specifications 2. Check the tension of all belt drives and adjust as necessary. 3. Check and lubricate all fan bearings. 4. Tighten motor terminals. 5. Check starter contacts. 6. Test and calibrate overload settings. 7. A System check shall be carried out for all Mechanical ventilation (MV), Pressurization and Exhaust system to verity the performance of the systems.
Switch board	Six monthly (Once immediately after award and of contract and again after 6 months period)	1. Clean and adjust all switch gear, contactors, relays and associated electrical equipment at intervals not exceeding six months. 2. Check and prove operation of thermal overload and protection devices. 3. Check and ensure tightness of all equipment fastenings and cable terminations within switch boards. 4. Vacuum clean all switch board cubicles.
Piping system	Monthly check and Annual (Immediately after award of contract)	1. Cheek all piping system for leaks and repair these where they have occurred. 2. Check for damage & deterioration of insulation or sheathings. Rectify as necessary

WORKS TO BE DONE ON EVERY DAY BASIS: -

25. The reading of the chiller and condenser pressure, oil pressure oil level, section and discharge pressure of pumps, voltage and Amps. etc. shall be checked and recorded in the logbooks on hourly basis. Necessary action is to be taken if the readings are not normal.

26. To check all the electrical motors and bearings for abnormal noise/heating, contractor has to take necessary action if found noise abnormal.

27. To check the water level in makeup water tank and in the cooling tower.

28. To drain out the water from A.C. Plant Room/ Cooling Tower, AHU's if required.

29. To clear/sweep the areas of A.C. Plant Room/ AHU Room/Cooling Tower etc.

30. Filters of the AHU's units are to be made clean regularly as per requirement.

31. The inside and ambient condition i.e. DB, WB & RH of all the committee halls/lounges, rooms etc. shall be recorded on a hourly basis in log book/register.

32. To check up all switch gear of electric control panels of AC plant, AHUs etc. for abnormal noise/heating, contractor has to take necessary action, if found abnormal.

33. Maintenance schedule of equipment as given in manufacture's O & M manual should also be carried by the contractor.

WORKS TO BE DONE ON MONTHLY BASIS:-

- To check the coupling of pumps etc.
- To check the safety controls and interlocking of various equipment.
- To check and clean the nozzles of the cooling tower and to clear the water basin and sump of cooling tower.

WORKS TO BE DONE EVERY THREE MONTHS:-

- To check the refrigerant system for leak test and to inform the department in case of leakage for rectification by the department.
- To dust off the inside of all the electrical panels.
- To check the lugs/Thimbles/Terminals points of the electrical motors switches, starters, single phase preventers and indication light fuses etc.
- To check the oil level and to fill if required in the gearbox of cooling tower.
- To check the alignment of all the belt driven equipment and to rectify if reqd.

General Terms and Conditions for operation (SH-II)

1. The work shall be carried out as per CPWD general specification of HVAC 2004 with up to date amended and as per direction of Engineer-in-charge.
2. The contractor will have to maintain all equipment as per Annexure-I (enclosed) in schedule of work in proper working condition and hand over the same in similar condition at the time of hand over of plant and improvement in plants subsequently carried out by the department from time to time which are not within the scope of the work.
3. Logbook, cleaning material like broom, soft broom, old dhoti, gland packing, grease, mobil oil, PVC tape, nut bolts, screws, Telfon tape, PVC tape, GLS lamp, soap & duster etc. will be provided by the firm with in scope of work nothing extra will be paid on this account.
4. The contractor will have to ensure following inside conditions. A penalty of Rs. 500/- per hour will be levied if the inside conditions are not maintained for more than 2 hours on account of improper maintenance / operation of the plant.

   a) Lecture Hall and Laboratories: DB 26$\pm$ 1^{O} C, RH not exceeding 55% $\pm$ 5%

5. The contractor will have to depute the following skilled, experienced, AC&R qualified and electrician shall have electrical license holder staff for operation & maintenance of A.C. plant for 24X 7 hrs. basis details below.

a) AC operator 1 no. in each shift (ITI certificate in the trade)
b) Khallasi 1 no. in each shift.

Specialized highly technical extra man power for works such as checking / adjusting the relays or any other works, which shall be required to keep the plant in good condition, will also be arranged by the contractor without any extra cost for the same.

6. After award of work the contractor will declare his staff to be deputed for work, their names, Father's Name, Qualification, Experience, Local address with 2 nos. photograph etc. will have to be submitted to Engineer-in-charge and staff shall be deployed only after approval of Engineer-in-charge. In case of any change is required, the same shall be intimated and got approved from the Engineer-in-charge.
7. The Engineer-in-charge reserve the right to ask contractor to remove any of the staff without assigning any reason whatsoever decision of Engineer-in-charge will be final and binding at the contractor.
8. The contractor will be fully responsible for the conduct of staff deputed by him.
9. The contractor will maintain attendance register for his staff at site, which will be checked by the JE (E) / AE (E) / EE (E) or Superior officer of the Department.
10. a) The staff always be deputed as per condition no. 5 above. In case of any unforeseen absence from duty of the operation staff, the same will have to be filled in by making suitable arrangements immediately. However, for not employing of the required staff as per condition no. 5, the recovery will be made from their bill at the

following rates, the decision of Engineer- in-charge shall be final and binding on the firm.

a) Necessary interview will be conducted by our Engineer-in-charge AC and BMS operators for their performance/ capability of handling the equipment.

11. Since the plants are catering to the AC requirement of the contractor must ensure that all the AHU's and AC plants are maintained in proper working condition. In case of any break down in plants, electrical panel etc. the same shall have to be attended immediately on the same day.
12. The contractor will make his own arrangements of all type tools for electrical and mechanical work for use of their staff. No T & P will be supplied by the department.
13. Water and power will be supplied free of cost for bona-fide use of work only.
14. In case, if it established that any of the spares and materials supplied by the Department i/c refrigerant, gases etc. are misused or have been wasted by the contractor's staff on account of due to their negligence, inefficiency or any other reasons, recovery will be made from the contractor's bill towards the cost of such spares/materials (at the double rate of present market rates). Decision of the Engineer-in-charge will be final and binding on the contractor.
15. During the running of the contract, the responsibility of physical custody of the plants and its associated equipment as per Annexure-I will rest on the contractor. If any item missing during the surprise visit of Engineer-in-charge the recovery shall be made from the contractor bill. The decision of Engineer-in-charge shall be final and binding on the contract.
16. In case of any damage to any equipment due to negligence of contractor's staff the same will have to be made good by the contractor. Failure to which suitable recovery will be made from the contractor's bills.
17. Logbook as per standard Performa will have to be filled in by the contractor's staff. The logbook shall be kept in the plant room, which will be checked by the Engineer-in-charge. The contractor's staff will have to act as per direction of Engineer-in-charge from time to time. The logbook shall be supplied by the contractor free of cost.
18. Earth/Insulation test of all equipment will be carried out quarterly and result recorded in the separate register failing which a recovery of Rs. 1,500/- per month will be affected.
19. The site (A.C. Plant room, Cooling Tower, AHU's Centrifugal pumps etc.) will have to be kept clean.
20. The maintenance work as per maintenance manual of the OEM to be carried to be out in time bound manner for which proper records history cards of each chilling machine. AHU's and other equipment etc. will have to be completed/filled by the contractor's staff.
21. After the expiry of the contract, the firm shall have to hand over complete installation to the department in proper working order. However, if any repair/ parts are reqd. after defect liability period, the same shall be provided by the department.
22. No claim of their employees/ staff employed for subject work in any from shall be entertained by the department.
23. All installation of Lecture Hall complex of IIT Delhi are in complete operational / Healthy condition shall be handed over to the contractor. & it will be his responsibility to keep

installation in operation & Healthy condition all the time including take all precautions against theft also and handed over back in healthy condition at the end of contract to the department.

Inventory of HVAC equipment of Lecture hall complex at IIT Delhi

Inventory of air-conditioning and ventilation equipment provided at Lecture hall complex at IIT Delhi and thus handed over for comprehensive maintenance and operation.

(A) Chillers

Voltas make, water cooled screw chillers of 275 TR capacity for operation on R-134a (model no. EGWFxR3002ML) complete with squirrel cage induction motor, star – delta starter, drive, shell & tube type evaporator, drive, shell & tube type condenser, microprocessor controlled controller and complete with accessories – 3 nos.

(B) End suction type condenser water pump sets with necessary drive, valves and complete with other accessories – 3nos.

(C) End suction type primary chilled water pumps sets with necessary drive, valves and complete with other accessories – 3nos.

(D) Secondary chilled water pump set package type skid mounted secondary chilled water pumping system with VFD comprising of 3 nos. of end suction type pumps AC variable speed drive, microprocessor-based controller and complete with other accessories – 1 set.

(E) Cooling towers - Induced draught type FRP cooling tower of 10.395 Lacs K. Cals/Hr heat rejection capacity - 3 sets.

(F) Air-handling units - Factory built floor mounted double skin type AHUs with cooling coils, filters, VFD, blower, electrical panels, heat recovery wheel, valves and other accessories complete as detailed below for normal cooling and free air cooling with motorized dampers and controls etc.:

(G) Electrical Panels

Main electrical panel in the plant room – 1 no.
Ventilation fans panel at basement – 2 nos.
Pressurization fans electrical panel at terrace – 3 nos.

Inventory of HVAC equipment of Lecture Hall complex at IIT Delhi

Inventory of air-conditioning and ventilation equipment provided at Lecture hall complex at IIT Delhi and thus handed over for comprehensive maintenance and operation.

24. Chillers

Voltas make, water cooled screw chillers of 275 TR capacity for operation on R-134a (model no. EGWFxR3002ML) complete with squirrel cage induction motor, star – delta starter, drive, shell & tube type evaporator, drive, shell & tube type condenser, microprocessor-controlled controller and complete with accessories – 3 nos.

25. End suction type condenser water pump sets with necessary drive, valves and complete with other accessories – 3nos.

26. End suction type primary chilled water pumps sets with necessary drive, valves and complete with other accessories – 3nos.

27. Secondary chilled water pump set package type skid mounted secondary chilled water pumping system with VFD comprising of 3 nos. of end suction type pumps AC variable speed drive, microprocessor based controller and complete with other accessories – 1 set.

28. Cooling towers - Induced draught type FRP cooling tower of 10.395 Lacs K. Cals/Hr heat rejection capacity - 3 sets.

29. Air-handling units - Factory built floor mounted double skin type AHUs with cooling coils, filters, VFD, blower, electrical panels, heat recovery wheel, valves and other accessories complete as detailed below for normal cooling and free air cooling with motorized dampers and controls etc.:

30. Electrical Panels

Main electrical panel in the plant room – 1 no.
Ventilation fans panel at basement – 2 nos.
Pressurization fans electrical panel at terrace – 3 nos.

IITD - 2010 CORRECTION SLIPS

In General condition of contract for IIT Delhi works department 2010 –

Reference	Existing	Modified
Clause 10B (ii), Para-2	Before any instalment of advance is released, the contractor shall execute a Bank Guarantee Bond from Scheduled Bank **for the amount of advance &**valid for the contract period. This shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery, **together with interest.**	Before any instalment of advance is released, the contractor shall execute a Bank Guarantee Bond from Scheduled Bank **for the amount equal to 110% of the amount of advance and** valid for the contract period. This **(Bank Guarantee from Scheduled Bank for the amount equal to 110% of the balance amount of advance)** shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery.
Clause 3 (vii)	If the contractor shall obtain a contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering.	If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering **or commits breach of Integrity Agreement.**
Reference	**Existing Provision**	**Modified Provision**
Page 5, IITD 2010	Page 5, IITD 2010 4A. Applicable for Percentage Rate Tender only (IITD-7) In case of Percentage Rate Tenders, a tenderer shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily	Page 5, IITD 2010 4A. Applicable for Percentage Rate Tender only (IITD-7) In case of Percentage Rate Tenders, **contractor** shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. **The tender submitted shall be treated as invalid if :-** **1. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.**

	rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.	**2. The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender.** **3. The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender:** Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes. **New Para 4B is added as below:** **4B: In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/ below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.** **In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.** **If the revised tendered amount of two more contractors received in revised offer is again found to be equal , the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE of the circle, EE(s) in-charge of major & minor component(s) (also DDH in case Horticulture work is also included in the tender), EE(P) or EE(HQ) of the circle & the lowest contractors those have quoted equal amount of their tenders.** **In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.** **Contractor(s), whose earnest money is forfeited because of non- submission of revised offer, shall not be allowed to participate in the re- tendering process of the work.**
Reference	**Existing Provision**	**Modified Provision**

10A (page 6-7)	In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. **However if the contractor has worked out the amount of the tender and if any discrepancy is found in the percentage quoted in words and figures, the percentage which corresponds with the amount worked out by the contractor shall, unless otherwise proved, be taken as correct. If the amount of the tender is not worked out by the contractor or it does not correspond with the percentage written either in figures or in words, then the percentage quoted by the contractor in words shall be taken as correct. Where the percentage quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the percentage quoted by the contractor will, unless otherwise proved, be taken as correct and not the amount.**	In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. **(Remaining part deleted)**
Reference	**Existing Provisions**	**Modified Provisions**
Deviations/ Variations Extent and Pricing	**CLAUSE 12** The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him writing signed by the Engineer-in- Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main works except as hereafter provided.	**CLAUSE 12** The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non- availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him writing signed by the Engineer-in- Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main works except as hereafter provided. **The completion cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration shall not exceed 1.50 times of Tendered amount.**

Deviations/ Variations Extent and Pricing	**CLAUSE 12** The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him writing signed by the Engineer-in- Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main works except as hereafter provided.	**CLAUSE 12** The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non- availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him writing signed by the Engineer-in- Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main works except as hereafter provided. **The completion cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration shall not exceed 1.25 times of Tendered amount.**
Deviations, Extra	12.2	12.2
Items, Pricing	In the case of extra items (items that are completely new and are in addition to the items contained in the contract), the contractor may within 90 days of receipt of order or occurrence of the item(s) claim rate, supported by proper analysis, for the work and the Engineer-in-charge shall within one month of the receipt of the claims supported by analysis after giving considerations to the analysis of the rates submitted by the contractor, determined the rates on basis of market rates and the contractor shall be paid in accordance with the rates so determined.	**A. For Project and original works:** In the case of extra items (items that are completely new and are in addition to the items contained in the contract), the contractor may within 90 days of receipt of order or occurrence of the item(s) claim rate, supported by proper analysis, for the work and the Engineer-in-charge shall within one month of the receipt of the claims supported by analysis after giving considerations to the analysis of the rates submitted by the contractor, determined the rates on basis of market rates and the contractor shall be paid in accordance with the rates so determined. **B. For Maintenance including works of upgradation, aesthetic, special repair, addition/ alteration:** **In the case of Extra Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plush cost index (at the time of tender) plus/minus percentage above below quoted contract amount.**

		C. Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.
Deviation, Substituted Items, Pricing	In the case of substituted items (items that are taken up with partial substitution or lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following Para. (a) If The market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted). If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted)	**A. For Project and original works:** In the case of substituted items (items that are taken up with partial substitution or lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following Para. (a) If The market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted). **(b)** If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted)**. For Maintenance including works of up-gradation, aesthetic, special repair, addition/ alteration:** **In the case of Substitute Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plush cost index (at the time of tender) plus/minus percentage above below quoted contract amount.** **Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.**
Deviation, Deviated	In the case of contract items, substituted items, contract cum substituted items,	**A. For Project and original works:**

Quantities, Pricing	which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.	In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined. **B. For Maintenance including works of up-gradation, aesthetic, special repair, addition/ alteration:** **In the case of contract items, which exceed the limit laid down in schedule F, the contractor shall be paid rates specified in the schedule of quantities.**
	12.3 The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.	12.3 **A. For Project and original works:** The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work excess of the limits laid down in Schedule F, and the Engineer-in- Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates. **B. For Maintenance including works of upgradation, aesthetic, special repair, addition/ alteration:** In the case of decrease in the rates **Prevailing in the market** of items for the work excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

Schedule F	Clause 12 No provision.	**Clause 12** **Type of work ***** ***** To be filled by NIT approving authority either Project and original work or Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration.**

C…..Nil I….. Nil O….. Nil

D'Man /J.E. A.E.E / Sr. F/I E.E.

BID SUBMISSION

ONLINE BID SUBMISSION:

The Online bids (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 – I	.PDF
2		EMD Declaration Annexure 2	.PDF
3		Authorization certificate of Voltas specific & particular to this tender. [applicable for Dealer only]	.PDF
4		Certificate of work experience as desired [applicable for Authorize Dealer]	.PDF
5		Certificate of registration for GSTIN	.PDF
6		Affidavit as per NIT condition 1.2.2 on stamp paper	.PDF
7		Acceptance to execute INTEGRITY PACT	.PDF
8		IITD 7/8 duly signed	.PDF
9		EPFO & ESIC Registration proof with up to date challan. [Not mandatory for OEM]	.PDF
10		Valid Electrical License [Not mandatory for OEM]	.PDF
11		Any other document as specified in the NIT	.PDF
Envelop - 2			
Sl. No.	TYPES	Content	
1.	Financial Bid	Price bid should be submitted in BOQ format	.EXL

SCHEDULE OF QUANTITY

Name of Work: **Comprehensive Maintenance of Voltas make water cooled screw chillers and operation of HVAC system at Lecture Hall Complex at IIT Delhi.**

Sl. No	Description	Qty.	RATE [inclusive GST] IN Rs.	Amount [inclusive GST] in Rs.
1.	**Sub Head-I (Comprehensive Maintenance of AC Plant)** Comprehensive Maintenance of 3 X 275 TR capacity water cooled screw chillers i/c allied equipment, pipe line & valves etc. installed at LHC at IIT Delhi as per the following details of equipment and as per terms & conditions. 1. Inventory of equipment attached. i. SCREW CHILLERS = 3 Nos. ii. COOLING TOWERS = 3 Nos. iii. CHILLED WATER PUMPS primary = 3 Nos. iv CONDENSOR WATER PUMPS-3Nos v. All the electrical control panel for AC plant, AHUs and ventilation panels – 1 lot vi- AHUs- 1 Lot vii- VFD driven secondary chilled water pumps – 3 Nos. viii- Ventilation & smoke exhaust fans – 1 Lot	12 jobs	**********	**********
2.	**SUB HEAD-II (Operation of AC Plant)** Operation 3 X 275 capacity AC Plants and Ventilation fans i/c allied equipment, AHUs, cooling tower, condenser water pumps, chilled water pumps (primary and secondary) and connected AHUs as per details in Annexure-I enclosed from 6:00 AM to 2:00 PM & 02:00 PM to 10:00 PM daily on all working days except Sunday as per condition attached. Mech. Grade Staff- 02 Nos. Helper Grade Staff- 02 Nos.	12 jobs	**********	**********
			Total Rs.	**********

[N.B. Bidder should not quote rates here]

D'Man / STS Plg. **Sr. F/I** **AEE[T]SS** **EE (ED-I)**

C…..Nil I….. Nil O….. Nil

D'Man /J.E. A.E.E / Sr. F/I E.E.