INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI-110016

NAME OF WORK	:	**Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi**
ESTIMATED COST	:	**Rs.65,31,389.00**
EMD	:	**Rs.1,30,628.00 (No Exemption allowed)**
N.I.T. No.	:	**95/IITD/EW/1175/2026-2027**
Last date of submission	:	**24/11/2026 up to 03:00PM**
Date of Opening	:	**25/11/2026 at 03:00PM**

Name of work: **Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi**

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

1	Amount of NIT	:	**Rs.65,31,389.00**
2	Earnest money	:	**Rs.1,30,628.00 (No Exemption allowed)**
3	Work completion time	:	02 Months for SITC plus 5 years CAMC
4	Last date of submission(online)	:	24/11/2026 upto 03:00PM
5	Date of opening of Technical Bid	:	25/11/2026 at 03:00PM
6	Form of NIT	:	IITD–8
7	Schedule applicable	:	Market Rate
8	Material stipulated	:	As per Schedule of Work
9	Chargeable head	:	Rehabilitation / Renovation (Furniture and Fixtures)/ 35.04.01 Operation and maintenance of building services/ 31.06.30
10	Estimate no.	:	541396
11	T/s No.	:	IITD/DB/IE/2026/628, dt.26/10/2026 IITD/DB/IE/2026/629, dt.26/10/2026
12	Work code no.	:	2021/006/1175 (For SITC work) 2021/006/1176 (For CAMC work)
13	NIT No.	:	**95/IITD/EW/1175/2026-2027**
14	Type of work	:	Implementation of Smart Commercial and Domestic Energy Metering System Across the IIT Delhi Campus, Including Supply, Installation, Testing, Commissioning, Centralized Monitoring and Automated Meter Reading Facilities

Certified that this NIT contains **01** to **50** pages.
NIT amounting to **Rs.65,31,389.00 only** is approved.

AEE [E] **JE [E]**

E.E(ED-II)

INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI – 110016

NOTICE INVITING TENDER

IITD/WORKS (SP-5462)/2026

Executive Engineer (Electrical-II), Indian Institute of Technology Delhi, Hauz Khas, New Delhi–110016, **Ph.No.011-2659 7199** on behalf of Board of Governors invites **online Item Rate Tender from Firms / Contractors Registered in appropriate class and category with CPWD, MES, BSNL, Railways and firms/ contractors of repute in two/three bid system** for the following work:

1	Name of work	**:**	**Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi**
2	NIT No.	**:**	**95/IITD/EW/1175/2026-2027**
3	Estimated Cost (Rs.)	**:**	**Rs.65,31,389.00**
4	Earnest Money Deposit (Rs.)	**:**	**Rs.1,30,628.00 (No Exemption allowed)**
5	Period of completion	**:**	**02 Months for SITC plus 5 years CAMC**
6	Last date & time of bid submission	**:**	**Upto 3.00 PM of 24/11/2026**
7	Date of opening		**25/11/2026 at 03.00 PM**
8	Performance Bank Guarantee		**5% (percent) of Estimated cost put to tender (ECPT) or Contract amount whichever is higher. Requirement of Additional Performance Guarantee (APG): In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG) as stated above. The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (E.g. if ECPT is a and quoted amount is 0.7A then the amount of APG shall be 0.8A – 0.7A).**

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

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

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

Executive Engineer (Electrical-II)
For & on behalf of BOG, IIT Delhi

Ch. Head : Rehabilitation / Renovation (Furniture and Fixtures)/ 35.04.01
Work Code : **2021/006/1175**

Ch. Head : Operation and maintenance of building services/ 31.06.30
Work Code : **2021/006/1176**

Copy to: -

1. Assistant Executive Engineer (E)P
2. D.R (Works Accounts)
3. D.R. (A/C)
4. D.R. (Store Purchase Section)
5. Notice Board
6. Website Administrator, IIT Delhi
7. Office copy

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SCHEDULE

1	Name of organisation	**:**	Indian Institute of Technology Delhi
2	Tender / Quotation type (open / limited / EOI / auction / single)	:	Open
3	Tender / Quotation category (services / goods / works)	**:**	Goods & Works
4	Type 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)	**:**	Electrical
7	Is multi-currency allowed?	**:**	No
8	Date of publishing / issue / start	**:**	**17-11-2026 at 15:00 Hrs.**
9	Document download start date	**:**	**17-11-2026 at 15:00 Hrs.**
10	Document download end date	**:**	**24/11/2026 at 15:00 Hrs.**
11	Date & time of pre-bid meeting	**:**	No pre-bid meeting be held
12	Venue of pre-bid meeting	**:**	Not applicable
13	Last date & time of uploading of bids	**:**	**24/11/2026 up to 15:00 Hrs.**
14	Date & time of opening of technical bids	**:**	**25/11/2026 at 15:00 Hrs.**
15	Tender fee	**:**	NA
16	Earnest Money Deposit (EMD)	**:**	**Rs.1,30,628.00 (No Exemption allowed)**
17	Mode of payment of EMD		Can be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-I) **OR** Demand Draft favouring of **Registrar, IIT Delhi** Payable at SBI, IIT Delhi Branch. Scanned copy of DD needs to be uploaded along with the Technical Bid. Original DD shall have to be submitted to the tender inviting authority by the bidder as and when required after opening of bid.
18	No. of bids / covers (1 / 2 / 3 / 4)	**:**	**2**
19	Bid without EMD/ Non-submission of original DD		To be considered as UNRESPONSIVE and bid shall summarily be rejected.
20	Address for communication	**:**	**Executive Engineer (Electrical-II)**, Works Department, Room No. MZ-108, Main Building IIT Delhi, Hauz Khas, New Delhi – 110016.
21	Contact No.	**:**	**011-2659-7199 / 1779 & 011-2654-8836**
22	e-mail address	**:**	rafatjamal@admin.iitd.ac.in / rajagopal@admin.iitd.ac.in

INSTRUCTIONS FOR ONLINE BID SUBMISSION

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

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

REGISTRATION

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

SEARCHING FOR TENDER DOCUMENTS

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

3. The bidder should make a note of the unique Tender ID assigned to each other, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

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

SUBMISSION OF BIDS

1. Bidder should log into the site well in advance for bid submission so that he / she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page no. 5)
4. A standard BOQ Format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the white coloured [unprotected] cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

OR

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

5. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
6. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorised persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
7. The uploaded tender documents become readable only after the tender opening by the authorised bid openers.
8. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
9. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS

1. Any queries relating to tender document and the terms and conditions contained therein should be addressed to the tender inviting authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP portal in general may be directed to the 24 x 7 CPP Portal Help Desk. The contact number of the helpdesk is 18002337315.

GENERAL INSTRUCTIONS TO THE BIDDERS

1. The tenders will be received online through portal https://eprocure.gov.in/eprocure/app. In the technical bids, the bidders are required to upload all the documents in PDF format.
2. Possession of a valid class II / III Digital Signature Certificate (DSC) in the form of smart card / e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorised certifying agencies, details of which are available in the website https://eprocure.gov.in/eprocure/app under the link "Information about DSC".
3. Tenderers are advised to follow the instructions provided in the "Instructions to the tenderer" for the e-submission of the bids online through the Central Public Procurement Portal for e-procurement at https://eprocure.gov.in/eprocure/app.

INFORMATION& INSTRUCTION TO BIDDERS FOR TENDERING

Executive Engineer (Electrical-II), Indian Institute of Technology Delhi, Hauz Khas, New Delhi–110016, **Ph. No. 011-26597199** on behalf of Board of Governors invites **online Item Rate Tender from Firms / Contractors Registered in appropriate class and category with CPWD, MES, BSNL, Railways and firms/ contractors of repute in two/three bid system** for the following work:

Sr. No.	NIT No.	Name of Work	Estimated cost (Rs.)	Earnest money (Rs.)	Period of completion	Last date & time of submission of bid	Time & date of opening of Technical Bid	Time & date of opening of Financial Bid
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	95/IITD/EW/1175/2026-2027	Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi	Rs.65,31,389.00	Rs.1,30,628.00 (No Exemption allowed)	02 Month plus 5 year CAMC	Upto 03 PM of 24/11/2026	25/11/2026 at 03 PM	To be decided after assessing Technical Bids

1. The successful bidder shall be required to submit performance guarantee of (a) 5% of tendered Value or Estimated Cost Put to Tender (ECPT), whichever is higher. (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between Eighty percent (80%) of the ECPT and the tendered amount, in the form of Bank Guarantee or F.D.R. from a Nationalized/Scheduled Bank within 15 days of issue of letter of intent before award of work. In case of failure by the Contractor to supply the performance guarantee within the specified period, full earnest money will be forfeited, and the tender shall be treated as void. The performance guarantee shall be initially valid up to the date of completion plus 180 (One Eighty) days beyond that. **A separate PBG shall be submitted for the CAMC work for the entire period of CAMC plus 6 months more at the rate of 5% of the CAMC amount.**

2. Contractors who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.

i. Should have satisfactorily completed the works as mentioned below during the last Seven years ending **previous day of last date of submission of bids.**

ii. **One** similar works costing not less than **Rs.52,25,120.00**, or **Two** similar works each costing not less than **Rs.39,18,890.00**, or **Three** similar work each costing not less than **Rs.26,12,600.00.**

3. **Earnest money (EMD) Rs.1,30,628.00 (No Exemption allowed)** shall have to be deposited/submitted as stipulated in the Schedule. **Declaration to be submitted** by the bidder as indicated in the list of mandatory documents, if scanned copy of DD/ FDR is submitted for EMD.

4. 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 bids.**

5. **Similar work means** 'Providing Smart Energy Meters with Centralised Monitoring and Billing System for Domestic and Commercial Buildings.'

6. **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*.

7. 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:

   i. The similar work executed shall be **as per '5' above**

   ii. The completed cost of the work

   iii. Actual date of completion of the work

8. 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.**

9. **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.

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

11. 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.

12. But the bid can only be submitted after depositing requisite EMD as prescribed in the schedule.

13. 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.

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

15. 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.

16. 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.

17. 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.

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

19. **The Bid Submitted shall become invalid if:**

a. The bidder is found ineligible.
b. The bidder does not upload scanned copies of all the documents stipulated in the bid documents.
c. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening/ accepting authority.
d. If a tender quotes nil rates against each item in item rate tender or does not quote any percentage above/ below on the total amount of the tender or any section/ sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
e. EMD not deposited/ submitted as specified.
f. Not registered with EPFO & ESIC.

20. Requirement of **Additional Performance Guarantee (APG)**: In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG) as stated above. The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (E.g. if ECPT is a and quoted amount is 0.7A then the amount of APG shall be 0.8A–0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. Of APG shall be same as that of PG.

List of Mandatory Documents to be scanned and uploaded within the period of bid submission:

1. Annexure – 1 duly filled in and got signed by the bidder.

2. Proof of online EMD deposit/ scanned copy of DD/ FDR submission (Favouring 'Registrar, IIT Delhi').

(a). The following undertaking on firm's letter head shall be uploaded by the bidder if scanned copy of DD/ FDR is uploaded by the bidder: **"The exact physical EMD (as uploaded) shall be deposited by me / us with the authority inviting tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, IITD may reject the tender and also take actions to debar me / us from tendering in any form in IIT Delhi."**

3. Self-attested copy of valid Enlistment order of contractor as applicable.

4. Self-attested copy of work experience Certificate as desired. (Read as vide clause 2 to 7 above & Page no.9-10).

5. Self-attested copy of GST Registration certificate. If already obtained by the bidder.

   If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents.

   "if work is awarded to me, I/we shall obtain GST registration certificate as applicable 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 vide in the following page (To be submitted on stamp paper (not less than One Hundred rupees only) and date of affidavit and purchase of stamp paper shall not be earlier than the publication of NIT. NIT number, name of work and matter of the clause 1.2.2 shall be written on the 1st page of the Stamp Paper and can be continued up to the back side of the page. **No separate annexure paper should be attached. The affidavit shall be duly notarized. Bidder will be required to resubmit a fresh affidavit if any deviations are noticed.**
   Note: A sample affidavit write-up is illustrated for the convenience of the bidder vide Annexure-2.

7. Acceptance to execute INTEGRITY PACT [see integrity pact page 18 to 24].

8. IITD 7 / 8 duly signed.

9. Self-attested copy of valid Electrical License in the name of contractor.

10. Self-attested copy of EPFO & ESIC Registration proof or if the bidder has not obtained EPFO & ESIC registration as applicable, then he shall scan and upload an undertaking along with bid documents.

11. The bidder shall submit an OEM Authorization Certificate, duly issued on the OEM's letterhead and specifically mentioning the name/reference of this tender. The certificate shall confirm that the energy meters and associated metering software are of the same make/brand and that the OEM shall provide all necessary technical support, assistance and services throughout the entire DLP as well as CAMC period as Annexure-3 enclosed at page no.47

12. Any other document as specified in the NIT.

NOTE:

(a) Original copies are to be submitted as per clause 9.1 of IITD-6.

(b) Bidders are advised to keep the original Affidavit, EMD (if not deposited online) 'as it is' in safe custody till finalization of bid.

Executive Engineer [Electrical-II]
For & on Behalf of BOG, IIT Delhi

CPWD/IITD – 6

INDIAN INSTITUTE OF TECHNOLOGY DELHI

NOTICE INVITING TENDER

Executive Engineer (Electrical-II), Indian Institute of Technology Delhi, Hauz Khas, New Delhi–110016, **Ph. No. 011-26597199** on behalf of Board of Governors invites **online Item Rate Tender from Firms / Contractors Registered in appropriate class and category with CPWD, MES, BSNL, Railways and firms/ contractors of repute in two/three bid system** for the following work **"Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi"**

1.1 The work is estimated to cost **Rs.65,31,389.00.** This estimate, however, is given merely as a rough guide.

1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

1.2 Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

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

1.2.1.1 **Three** similar works each costing not less than **Rs.26,12,600**, or **Two** similar works each costing not less than **Rs.39,18,890.00**, or **One** similar work costing not less than **Rs.52,25,120.00** 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 previous day of last day of submission of bids.

1.2.2 To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under: - *"I / We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I / we shall be debarred for bidding in IIT Delhi in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy to be uploaded at the time of submission of bid)"*

2.0 Agreement shall be drawn with the successful bidders on prescribed Form No. IITD 7/8 which is available as IIT Delhi Publication. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.

3.0 **The time allowed for carrying out the work will be 02 Months for SITC** 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 **Earnest Money as specified to be paid through RTGS / NEFT/ Online.**

IIT Delhi Bank details are as under:

Name of the Bank A/C	: IITD Revenue Account
SBI A/C No	: 10773572622
Name of the Bank	: State Bank of India, IIT Delhi,
	: Hauz Khas, New Delhi-110016
IFSC Code	: SBIN0001077
MICR Code	: 110002156
Swift No	: SBININBB547

(This is mandatory that UTR Number is provided in the on-line quotation/bid. Kindly refer to the UTR Column of the Declaration Sheet at Annexure-I)

9.1 Copy of all 'mandatory documents' and other documents as specified in the tender notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. ***However, original affidavit, EMD (if not deposit online) and certified copy of all the scanned and uploaded documents as specified in NIT shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority. Original copies of other documents are also to be shown for scrutiny and verifications by the tender opening / accepting authority.***

10.0 The bid submitted shall become invalid, if:

10.1 The bidder is found ineligible.

10.2 The bidder does not upload all the documents (including GSTIN Registration) as stipulated in the bid document**.**

10.3 EMD & Proper Affidavit not submitted as specified will summarily be rejected.

10.4 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 (a) 5% of tendered Value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above , shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/ Demand Draft of any scheduled bank/Pay order of any Scheduled Bank 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 if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

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 validity shall be 90 days from the last date of submission of bid.

18.1 if any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

18.2 if any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of

submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

18.3 In case of forfeiture of earnest money as prescribed in para (18.1) and (18.2) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

19.0 This notice inviting bid shall form a part of the contract document. The successful bidder / contractor, on acceptance of his bid by the Accepting Authority shall **within fifteen days** from the stipulated date of start of the work, sign the contract consisting of: -

19.1 The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

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

20.0 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.**

21.0 **Integrity Pact:** The contractor shall download the integrity pact, which is a part of tender documents, affix his signature and upload the same while submitting online bids. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.

22.0 **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 up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.**

INTEGRITY PACT

To

……..,

……..,

……..

Sub: NIT No. **95/IITD/EW/1175/2026-2027** for the work of **"Implementation of Smart Commercial and Domestic Energy metering System across the campus of 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 (ED-II)

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

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

Subject: Submission of Bid for the work of **"Implementation of Smart Commercial and Domestic Energy metering System across the campus of 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, and New Delhi - 16 represented through **Executive Engineer (ED-II)**, IIT Delhi
....., (Hereinafter 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. 95/IITD/EW/1175/2026-2027)** (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for **"Implementation of Smart Commercial and Domestic Energy metering System across the campus of 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 wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests**.

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

ARTICLE 3: CONSEQUENCES OF BREACH

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

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner**.

2. **Forfeiture of EMD/Performance Guarantee/Security Deposit**: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3. **Criminal Liability**: If the Principal/Owner obtains knowledge of conduct a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal / Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

ARTICLE 4: PREVIOUS TRANSGRESSION

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

2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.

3. If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

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

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-

contractors/sub-vendors.

2. The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
3. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

ARTICLE 6: DURATION OF THE PACT

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

ARTICLE 7: OTHER PROVISIONS

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Head Quarters of the Division of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by Board Resolution.
4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original 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:

Dated:

CPWD/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 **"Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi"**

1. To be submitted online by **Upto03 PM of 24/11/2026**
2. To be opened on **25/11/2026 at 03 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 **90 (Ninety) days from last date of submission of bid.**

A sum of Rs.**1,30,628.00 (No Exemption allowed)** is hereby deposited in IIT Delhi Revenue Account No. 10773572622 as earnest money/ A Demand Draft/ FDR of **Rs.1,30,628.00 (No Exemption allowed) favouring Registrar, IIT Delhi-16 or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.** Further If I / We fail to commence the work as specified, I / We agree that the 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 available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise they said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I / We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid I / We shall be debarred for participation in the re-tendering process of the work.

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

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

Signature of Contractor

Witness:

Postal Address
Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 110016 for a sum of (Rupees……..……).
The letters referred to below shall form part of this contract agreement: -

(a)

(b)

(c)

For & on behalf of Board of Governors, IIT Delhi

Signature ……..

Dated: Designation …….

PROFORMA OF SCHEDULES

SCHEDULE "A"
Schedule of Quantities (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	Reference to General Conditions of Contract	**:**	**GCC for Maintenance work 2023 for CPWD works along with correction on slips/amendments issued up to last date of submission of bid.**
2	Name of work	:	**Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi**
3	Estimated cost of work (Rs.)	**:**	**Rs.65,31,389.00**
4	Earnest Money (Rs.)	**:**	**Rs.1,30,628.00 (No Exemption allowed)**
5	Performance Guarantee	**:**	**5% (percent) of Estimated cost put to tender (ECPT) or Contract amount whichever is higher. Requirement of Additional Performance Guarantee (APG): In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG) as stated above. The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (E.g. if ECPT is a and quoted amount is 0.7A then the amount of APG shall be 0.8A – 0.7A).**
6	Security Deposit	**:**	**2.5 percent of tendered value.**

SCHEDULE "F"
GENERAL RULES & DIRECTIONS:

Officer inviting tender	:	Executive Engineer (ED-II)
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 12 below**

DEFINITIONS:

2 (V)	Engineer-in-charge	:	Executive Engineer (ED-II)
2 (viii)	Accepting authority	:	**Executive Engineer (ED-II)**
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits	:	15 percent
2 (xi)	Standard Schedule of Rates	:	Market, DSR Electrical Works with corrected up to date of submission of bid.
2 (xii)	Department	:	Estate & Works, IIT Delhi
9 (ii)	Reference to General Conditions of Contract	:	CPWD/ IITD Form 7/8 as modified & corrected up to date GCC 2023 for Maintenance work of CPWD with latest modifications.

CLAUSE 1

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

CLAUSE 2

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

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 MILESTONE(S):

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

Time allowed for execution of work		**:**	**02 Months for SITC**
Authority to decide:	Extension of time	:	**Executive Engineer**
	Rescheduling of milestones	**:**	**Executive Engineer**
	Shifting of date of start in case of delay in handing over of site.		**Engineer-In-Charge**

CLAUSE 6, 6A

Clause applicable – (6)	**:**	Applicable (Computerized MB)

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	**:**	

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	**:**	15 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 percent of total value of work	:	**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 Specification 2023 for Electrical works corrected slips & manufacturers Specifications up to the last date of bid submission /uploading of tender. Detailed nomenclature of items & specifications for market rate items as per Engineer-in-charge**

CLAUSE 12

12.2& 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work/ Upgradation for providing and fixing E.I work	:	100%
12.3 A	Type of work	:	Implementation of Smart Commercial and Domestic Energy Metering System Across the IIT Delhi Campus, Including Supply, Installation, Testing, Commissioning, Centralised Monitoring and Automated Meter Reading Facilities
12.5	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	:	100%

CLAUSE 16

Competent authority for deciding reduced rates	:	**Institute 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 19C

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

CLAUSE 19D

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

CLAUSE 19G

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

CLAUSE19K

Authority to decide penalty for each default	:	Not applicable

CLAUSE 32

Requirement of Technical Representative 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 32	
						Figures	**Words**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Graduate Engineer Or Diploma Engineer	Electrical / Electronics	Technical Representative (for SITC work)	2 years for Graduate Or 5 years for Diploma	1.0	15,000.00	Fifteen thousand per month per person

CLAUSE38

Authority to clause 38	:	Not applicable

COMMERCIAL AND ADDITIONAL CONDITIONS

1. GENERAL

1.1. A good maintenance programme is the key to long system life and ease of serviceability. Maintenance & service should only be carried out by experienced / qualified personnel as desired in the schedule of work. The maintenance and service which are done must be as per specifications and up to the satisfaction of the Engineer-in-charge.

1.2. **N.W & Location: Implementation of Smart Commercial and Domestic Energy metering System across the campus of IIT Delhi**

1.3. The work shall be executed as per CPWD General Specifications for Electrical works Part – I (Int.) 2023, Part-II (Ext.) 2023, Part-III (Lift & Escalators) 2003, Part-IV (Sub-station) 2013 as amended up to 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 clarifications required by the department shall have to be furnished by the tenderer within the time given by the department for the same. The tenderer will have to depute his representative to discuss with the officer(s) of the department as and when so desired. In case, in the opinion of the department a tenderer is taking undue long time in furnishing the desired clarifications, his bid will be rejected without making any reference.

2.8. After obtaining clarification from all the tenders, the department will intimate the tenders who's 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 may be released quarterly basis /after successful completion (Supply, Installation, testing and satisfactory commissioning) of the work. However, R.A bill may be preferred to the extent of prorate basis based on progress of overall 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. as may be by the contractor.

3.2. Income tax, GST, labour cess & other statutory deduction etc. shall be made at source as per the prevalent laws. The deduction of Security Deposit, Income Tax, etc., shall be done after calculation for the above due payment as per clause 3 above and net payment shall reduce accordingly.

4. SECURITY DEPOSIT

4.1. Security Deposit shall be deducted from each running bill and final bill @2.5% of the tender amount. **The security deposit shall be released only after 12 Month from the date of completion of work in all respect.**

5. PERFORMANCE GUARANTEE

21. The successful tenderer shall submit an irrevocable performance guarantee of 5% of the estimated cost put to tender (ECPT) or Contract amount whichever is higher as stipulated in Schedule F, 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 one hundred eighty days for the SITC work. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the competent authority. **.** A separate PBG shall be submitted for the CAMC work for the entire period of CAMC plus 6 months more at the rate of 5% of the CAMC amount.

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.

7. COMPLETENESS OF TENDER

7.1. All sundry equipment's, 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 indicative only. Bidder should note that the whole part of the work (as given in the BOQ) will not be executed at one go. Work shall be executed as and when so required as per site requirement. No site for executing work is ready. It would be made available to the contractor as per demand. Quantity taken in the BOQ are tentative and may vary as per site requirement. Supply of materials in lieu of non-execution of any work is not acceptable.

11. VALIDITY

11.1. Tenders shall be valid for acceptance for a period 90 days from the last date of submission of bid.

12. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS

12.1. 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:

12.1.1. Factories Act

12.1.2. Indian Electricity Rules

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

12.1.4. Workmen's compensation Act

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

13. INDEMNITY

13.1. 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 operation and maintenance under the supervision of the successful tenderer. The successful tenderer shall take necessary actions in this regard. No extra payment would be made to the successful tenderer on account of the above.

14. ERECTION TOOLS

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

15. COOPERATION WITH OTHER AGENCIES AND OCCUPANTS OF THE BUILDING

15.1. 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.

16. MOBILIZATION ADVANCE

16.1. No mobilization advance shall be paid for this work

17. INTERPRETING SPECIFICATION

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

17.1.1. Schedule of quantities

17.1.2. Technical Specification

17.1.3. Drawing (if any)

17.1.4. General Specification for Electrical Works of CPWD (relevant Parts)

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

18. POLICY OF THE INSTITUTE

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

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

20. GUARANTEE

20.1 The equipment/ component/ materials or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost bthe satisfaction of the Engineer-in• Charge. In case it is felt by the department that undue delay is being caused by the contactor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of Engineer-in-Charge in this regard shall be final & binding on the contractor.

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

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

20.2.2 Safe mechanical and electrical stress on all part under all specified conditions of operation Satisfactory operation during the guarantee period.

20.2.3 The equipment/materials supplied under this contract shall be covered by a warranty for a Period of **one (1) year** from the date of completion of the work.

21. Penalty Clause

During CAMC and warranty period, the complaint should be attended within a period of 24 hrs. of complaint lodge except for the reasons beyond the control of contractor. Failure to which recovery of Rs.200/- per day per Unit shall be made from the agency's bill.

22. EXTENT OF WORK

22.1. The work shall comprise of entire labour including supervision and all material necessary to make a complete installation and such tests and adjustment and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipment's 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.

22.1.1 Minor building works necessary for installation of equipment's, foundation making of opening in walls or in floors and restoring them to their original condition / finish and necessary Grouting etc. as required.

23. AWARD OF WORK

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

24. POWER SUPPLY

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

25. Specifications

25.1 The work shall be carried out as per CPWD general Specifications for Electrical Works Part I, II & IV as amended upto date along with the following changes, relevant IE Rules and as per directions of Engineer-in-Charge. For electrical panels, CPWD General Specifications for Electrical Works Part-IV shall be applicable.

26. SAFETY CODES AND LABOUR REGULATIONS

26.1 In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for **penalty as specified in applicable clause.** In addition, the Engineer-In-Charge shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.

26.2 The contractor shall provide necessary barriers, warning signals and other safety measures while laying pipelines, cables etc. or wherever necessary so as to avoid accident. He shall also indemnify IITD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor 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 contractor due to the above provisions thereof.

27. Taxes as applicable shall be deducted from the bills of contractor.
28. Hindrance register shall be maintained by JE (E)/ AE (E)/ AEE (E) at site.
29. Instructions given in Site Order Book will be followed immediately by the contractor.

30. In case of delay beyond the control of the contractor due to unforeseen circumstances or force majeure reasons, EOT shall be considered.

31. **The Master Agreement shall be deemed complete upon successful completion of the one-year warranty/Defect Liability Period (DLP). Thereafter, the Supplementary Agreement for Comprehensive Annual Maintenance Contract (CAMC) shall commence as per the terms and conditions of the agreement.**

32. **COMPREHENSIVE MAINTENANCE**

A separate supplementary agreement shall be made with the successful tenderer for Comprehensive Maintenance for 5 years after guarantee period of 1 year. The payment for comprehensive maintenance shall be made quarterly after the end of each quarter. A separate PBG shall be submitted for the maintenance work for the entire period of CAMC plus 6 months more at the rate of 5% of the CAMC amount.

33. **The maintenance, routine as well as preventative for the first year from the date of taking over the installation as per manufactures recommendation shall be carried out free of cost.**

34. The quantities are tentative and could be increased or decreased.

35. In case of any extra item, the contractor shall seek prior permission in writing from the Engineer-in-charge and submit analysis of rates.

36. Non Judicial stamp paper worth **Rs.100/- (Hundred Rupees only)** will be submitted by the contractor which will have to be signed as token of acceptance.

37. The Work has to be completed within the stipulated time.

38. The contractor shall make his own arrangement for labour huts outside the campus.

CORRECTION SLIP

Corrections / modifications have been made in accordance with the CPWD Works Manual 2024

Reference	Existing Provision	Existing Provision
Clause5.2	**Performance Guarantee**	**Performance Guarantee**
Sl.No.1	No Change	No Change
Sl.No. 2	PG shall be 5% of the contract amount as prescribed from time to time to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of Sixty days beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.	PG shall be 5% of the **Estimated cost put to tender (ECPT)** or contract amount **whichever is higher**, or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of **Six Months** beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.
Sl.No. 3		**No Change**
Sl.No. 4	**No Provision**	4. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.
Sl.No. 5	**No Provision**	5. **Requirement of Additional Performance Guarantee (APG):** In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (E.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be 0.8 A-0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.

TECHNICAL SPECIFICATIONS AND SCOPE OF WORK

Implementation, Installation and Comprehensive Maintenance of Smart Energy Metering System

1. Scope and General Requirements

The work shall include the design/solution proposal, supply, installation, testing and commissioning (SITC) of the Smart Energy Metering System, establishment of communication between meters and the central server, configuration and hosting of the web-based application, implementation of post-paid and prepaid metering/billing facilities, training, and comprehensive maintenance of the complete system during the stipulated Warranty/CAMC period.

The system shall cover the smart meters, communication network, server and cloud infrastructure, software platform, mobile applications, payment gateway integration and all associated accessories, interfaces and services necessary for proper and reliable operation.

The contractor shall maintain the complete system in proper working condition throughout the contract period. Comprehensive maintenance shall include preventive and breakdown maintenance, inspection, testing, troubleshooting, repair, servicing, supply and replacement of required spare parts, units, components and accessories, except for items expressly excluded under this document. No additional payment shall be admissible for such maintenance activities or replacement items covered under the Warranty/CAMC.

2. Smart Energy Meter Specifications

2.1 Single-Phase Smart Meter

- Supply, installation, testing and commissioning of smart single-phase meter.
- AC single-phase, two-wire, tamper-proof static meter, Accuracy Class 1.0, 240 V, 50 Hz, 5/10 A–60 A, conforming to IS 16444 and relevant IEC standards.
- Pluggable/inbuilt cellular communication with 4G and fallback to 2G.
- Default and on-demand display, billing data generation facility, anti-tamper features, microprocessor-based circuitry and LED/LCD display.
- The meter shall provide the software with 15-minute instantaneous data for voltage, current, power factor, power, cumulative energy, cumulative apparent energy and frequency.
- The meter shall support remote connect/disconnect functionality through the prepaid billing software.

2.2 Three-Phase Smart Meter

- Supply, installation, testing and commissioning of smart three-phase meter.
- AC three-phase, four-wire, tamper-proof static meter, Accuracy Class 1.0, 415 V, 50 Hz, 5/10 A–60 A / 100 A, conforming to IS 16444 and relevant IEC standards.
- Pluggable/inbuilt cellular communication with 4G and fallback to 2G.
- Default and on-demand display, billing data generation facility, anti-tamper features, microprocessor-based circuitry and LED/LCD display.
- The meter shall provide the software with 15-minute instantaneous data for voltage, current, power factor, power, cumulative energy, cumulative apparent energy and frequency.
- The meter shall support remote connect/disconnect functionality through the prepaid billing software.

The comprehensive maintenance coverage shall include single-phase smart meters, three-phase direct-connected smart meters, three-phase LT CT-operated smart meters, cellular communication modules, SIM cards and all associated communication interfaces and accessories supplied, installed and commissioned under the project.

3. Communication Network and Meter Connectivity

The contractor shall supply, install, activate and maintain the SIM cards required for the smart meters. SIM services may be obtained from Vodafone/Vi, Airtel, Idea, Jio or other suitable service providers, as applicable.

- The contractor shall ensure reliable 24×7 connectivity between each smart meter and the central server, including data and SMS communication wherever required.
- In case communication between a smart meter and the central server remains continuously unavailable for one day, the contractor shall arrange alternate data retrieval through the meter optical port at its own cost. The downloaded data shall be uploaded to the prepaid application. No separate payment shall be made by IIT Delhi for readings obtained through the optical port.
- The contractor shall undertake network planning, configuration, administration, monitoring, preventive maintenance, stability checks and debugging to ensure reliable data transmission.
- The contractor shall provide the project plan and proposed solution document, technical details of gateways/repeaters and communication modules/chipsets, and details of software/hardware tools used for network planning, analysis and debugging.
- Meter Data Acquisition and Downloading
- The system shall download billing data and tamper-present status from single-phase and three-phase smart meters at intervals configurable by IIT Delhi, including 15 minutes, 30 minutes, one hour or 24 hours. The downloading interval shall be configurable through the data collection software.
- The system shall capture and make available 15/30-minute data, as configured, for cumulative energy, cumulative apparent energy, power, current, voltage, power factor and frequency.
- Tamper information shall be downloaded along with billing data whenever tamper-present status is indicated. Tamper data shall be downloadable daily and on demand.
- Monthly billing survey data, including cumulative energy and maximum demand, shall be captured and made available to the billing system.
- Bill history and load survey data for 45 days shall be downloaded once every month and also on demand.
- Where readings are not received through AMR during a month, the contractor shall arrange on-demand downloading of readings from the affected meters using Hand Held Terminals (HHT) or mobile application. HHTs and associated arrangements shall be provided by the contractor at its own cost. No separate payment shall be made for readings obtained through HHT/mobile application.
- The downloading interval and other data collection parameters shall be configurable as directed by IIT Delhi.

4. Web-Based Software, Hosting and Functional Modules

The contractor shall host, configure, operate and maintain the web-based software on a Government Community Cloud (GCC) platform meeting the applicable MeitY empanelment/approval requirements. The platform shall include, but not be limited to, the following modules and facilities:

- Meter Data Management Module for collection of data from meters/concentrators and making it available to the billing system.
- Billing Module supporting both post-paid and prepaid billing, calculation of energy consumption and billing determinants, and making energy/billing data available to administrators and end users.
- Occupation/Vacation Module and associated occupation/vacation and billing reports.
- Meter Management and Software Module, including meter addition, deletion, activation, deactivation and modification.
- Customer Care Module.
- Meter Installation Module.
- Activity and Communication Module.
- Monitoring, Reporting and Energy Accounting Modules.
- Mobile applications (Android/iOS) and website access for departmental staff and occupants.

- Payment gateway integration.
- Remote connect/disconnect facility through the prepaid billing software.

The software shall support interoperability for future integration with IS 16444-compliant smart meters, as specified in the source technical document. The system shall provide consumption, billing, meter-health, monitoring and energy-accounting reports.

5. Server, Cloud Hosting, Data Security and Backup

- All charges for GCC cloud hosting, server infrastructure, statutory approvals, licenses, certifications and associated services required for hosting and operating the software shall be included in the contract price. No separate payment shall be admissible.
- The contractor shall provide and maintain the required cloud hosting, server infrastructure and associated hardware throughout the contract period.
- The contractor shall ensure regular and scheduled backup and secure storage of metering, billing and consumer-related data.
- Appropriate cybersecurity measures and access controls shall be implemented to protect against unauthorized access and cyber threats.
- The contractor shall ensure data integrity, confidentiality and availability, and provide disaster recovery and data restoration facilities in the event of server failure, cyber incidents or other unforeseen events.
- All data generated and maintained under the project shall remain the property of IIT Delhi.
- Complete data backup and export facilities in commonly usable formats shall be provided whenever required by the Institute and upon completion or termination of the contract.

6. Installation, Configuration, Deliverables and Training

- The contractor shall complete installation, configuration, testing and commissioning of the meters, communication network, application server, software, prepaid metering solution and associated services.
- The contractor shall submit a project plan and proposed solution document, technical specifications/details of gateways, repeaters, communication modules and chipsets, and details of tools used for network planning, analysis and debugging.
- After successful commissioning, the contractor shall provide training to the concerned departmental staff and/or authorized representatives for operation, monitoring and management of the metering system and web-based portal.
- Training shall cover relevant software modules, report generation, billing, meter management, monitoring and other essential functionalities.
- Whenever software updates, upgrades or modifications change portal menus, features, modules or functionality, the contractor shall provide further training to the concerned departmental personnel so that the updated system can be operated effectively.

7. Operation, Monitoring and Routine Activities

- The contractor shall submit a monthly report on meter-reading performance and smart-meter health status, based on exception reports and requirements communicated by IIT Delhi.
- The contractor shall identify and provide a list of problematic/non-responsive smart meters in the field and arrange the required field support.
- Preventive maintenance of the communication network shall be carried out to ensure network stability.
- Network configuration and network administration tasks shall be performed as required.
- Based on fault/health reports, the contractor shall depute the concerned technical team to the location to service faulty units.
- The contractor shall resolve issues identified through field reports and exception reports, including cases where meter data has not been downloaded.

8. Comprehensive Warranty/CAMC Maintenance

Comprehensive, preventive and breakdown maintenance of the complete Smart Energy Metering and Electrical Energy Automation System shall be carried out throughout the stipulated Warranty/CAMC period. Maintenance shall include daily, monthly, quarterly and yearly activities, as applicable.

The maintenance coverage shall include all equipment, hardware, software and associated components supplied, installed and commissioned under the project, including:

- Single-phase smart energy meters.
- Three-phase direct-connected smart energy meters.
- Three-phase LT CT-operated smart energy meters.
- Cellular communication modules, SIM cards and associated communication networks.
- Server infrastructure, server hardware and associated equipment.
- Web-based software and all associated modules.
- Billing, monitoring, reporting and energy-accounting systems.
- Customer care portals and Android/iOS mobile applications.
- Communication interfaces, networking equipment, accessories and other components required for proper operation of the complete system.

The contractor shall provide technical support and deploy specialized/competent manpower wherever required immediately upon receipt of a complaint. Maintenance support shall be available during office hours, 9:00 AM to 6:00 PM, on all six working days of the week. Notwithstanding the stated support hours, the contractor shall ensure that every registered complaint is attended to and resolved within 24 hours of registration.

The contractor shall submit a valid authorization letter from the Original Equipment Manufacturer (OEM), confirming authorization to maintain and provide technical support for the proposed system. Maintenance shall be carried out with OEM support throughout the Warranty/CAMC period, including troubleshooting, software updates, and hardware failures, replacement of defective components and resolution of technical issues.

During the Warranty/CAMC period, the contractor shall bear all expenses related to SIM recharges, data communication, SMS charges, software updates/upgrades, bug fixes, security patches and other communication-related services. No separate payment shall be admissible.

The contractor shall add, delete, activate, deactivate and modify meters in the Meter Data Management System and associated software portal, as required due to installation of new meters, vacation, removal or replacement of existing meters, without additional cost to the Institute.

9. Tariff Updates and Billing Accuracy

Whenever electricity tariff rates are revised or changed by BSES or the concerned Electricity Distribution Company (DISCOM), the contractor shall update the corresponding rates in the billing software as required. The revised tariff structure shall be implemented in the billing module to ensure accurate billing in accordance with the prevailing tariff orders and applicable rates.

10. Complaint Resolution, Penalty and Recovery

Every complaint registered during the Warranty/CAMC period shall be attended to and resolved within 24 hours from the time of registration.

If a complaint is not resolved within the stipulated 24-hour period, a penalty of Rs. 200/- (Rupees Two Hundred only) per affected meter per day shall be recovered from the contractor's running bills for each day of delay until satisfactory resolution. The penalty shall be calculated separately for each affected meter. The penalty shall not apply where the delay is due to circumstances beyond the reasonable control of the contractor, as accepted by the Engineer-in-Charge.

If the contractor fails to provide satisfactory maintenance services or fails to maintain the complete system in proper working condition, the Institute shall be entitled to recover an amount equivalent to

a minimum of three (3) months' CAMC charges from running bills, pending payments or other dues, as applicable. The Engineer-in-Charge's decision regarding satisfactory performance shall be final and binding, in accordance with the contract.

If unsatisfactory maintenance support continues beyond two (2) consecutive quarters, the Institute may terminate the CAMC contract and initiate action for forfeiture of Performance Security in accordance with the contract. The Institute may also engage another agency at the risk and cost of the defaulting contractor, wherever applicable under the contract.

Where any system or part thereof remains unattended or non-functional due to failure by the contractor to provide the required maintenance support, recovery/penalty shall be imposed from the contractor's running bills or other dues in accordance with the relevant contract provisions.

11. Payment Terms

Payment against the Comprehensive Annual Maintenance Contract (CAMC) shall be released on a quarterly basis, subject to satisfactory performance of the maintenance services and certification by the Engineer-in-Charge.

12. Exclusions and Responsibility for Damaged Meters

An energy meter that is burnt, physically damaged or rendered non-functional due to external causes beyond the control or responsibility of the maintenance agency shall not be covered under CAMC. The cause of damage shall be jointly examined and verified by the contractor and the Engineer-in-Charge or an authorized representative of the Institute. If the damage is found to have occurred due to negligence, improper maintenance, defective installation or any act or omission attributable to the contractor, the contractor shall repair or replace the meter without additional cost to the Institute. The decision of the Engineer-in-Charge regarding applicability of this exclusion shall be final and binding.

If additional energy meters are required during the CAMC period, such meters shall be provided by the Institute or procured separately, and the cost of the additional meters shall be payable separately by the Institute. However, all related addition/deletion and configuration of meters in the metering software portal shall be carried out by the maintenance agency free of cost.

13. Service Level Agreement (SLA)

Sl. No.	Parameter	Requirement
1	Complaint resolution	Within 24 hours of complaint registration
2	Preventive maintenance	Daily/monthly/quarterly/yearly, as applicable
3	System availability	Continuous availability of the metering and billing system
4	Communication network	Proper functioning of SIM-based communication and data transmission; 24×7 meter-to-server connectivity
5	Data backup	Regular and scheduled backup of complete system data
6	Data security	Protection against unauthorized access, data loss and cyber threats
7	Billing accuracy	Accurate billing as per actual meter readings and prevailing electricity tariff
8	Software maintenance	Timely updates, bug fixing and resolution of software-related issues
9	Hardware maintenance	Repair/replacement of defective components covered under CAMC
10	Reporting	Availability of consumption, billing, meter-health and energy-accounting reports

The contractor shall comply with all SLA requirements throughout the Warranty/CAMC period. Failure to maintain the prescribed service levels shall be dealt with under the applicable penalty and recovery provisions of the contract.

ACCEPTABLE MAKE OF EQUIPMENTS AND MATERIALS

S. No	Description	Approved Makes
1.	MCB (10KA)/ Isolators & MCB DB with End Box.	Legrand / Siemens/ Lauritz Knudsen / Havells/ C&S
2.	MCCB	Legrand / Siemens/ Lauritz Knudsen / Havells/ C&S
3.	MCCB BOX	Legrand / Siemens/ Lauritz Knudsen / Havells/ C&S
4.	Modular type switch/ socket, TV socket, Fan Regulator.	Lauritz Knudsen / ABB/ Wipro North West/ Legrand (Arteor/ Myrius)/ Schneider (Zencelo), Anchor-ROMA.
5.	Steel conduit pipe and Accessories (ISI)	BEC/ AKG/ NIC / Steel Krafts
6.	PVC conduit pipe and Accessories(ISI)	BEC/ AKG/ NIC
7.	Junction Boxes/ MS Boxes	Lauritz knudsen / Wipro North West/ Legrand (Arteor/ Myrius)/ Schneider (Zencelo),Anchor-ROMA
8.	Electronic Fan Regulator	Lauritz knudsen / Wipro North West/ Legrand (Arteor/ Myrius)/ Schneider (Zencelo), Anchor-ROMA.
9.	FRLS PVC insulated copper conductor cable / Wire	Polycab / Finolex / Havells /KEI
10	LED Light Fixture	Philips / Trilux/ Crompton / Wipro / Havells
11	Ceiling Fans (BLDC) & Wall Fan	Havells/ Atomberg/ Bajaj/ Crompton/USHA.
12	Exhaust Fan/ Fresh Air Fan	Havells/ Bajaj/ Crompton/USHA.
13	Industrial type socket	Legrand / Siemens/ Lauritz knudsen / Schneider
14	DLP U-PVC channel & accessories	Schneider / Legrand or Equivalent
15	Modular Plate & Cover Plate	Lauritz knudsen / Wipro North West/ Legrand (Arteor/ Myrius)/ Schneider (Zencelo),Anchor-ROMA
16	Distribution Board	Legrand / Siemens/ Lauritz knudsen / Schneider.
17	XLPE Alumium/ Copper conductor Armoured Power cables	Havells/ Polycab/ RR kabel/ KEI/ Universal
18	**Smart/ Digital Multifunction Meter**	Lauritz knudsen / AE/ Schneider/ Rishabh/ HPL
19	Ammeter	Lauritz knudsen / AE/ Rishabh/ Kaycee / Meco / Enercom
20	Voltmeter	Lauritz knudsen / AE/ Rishabh/ Kaycee / Meco / Enercom
21	Frequency Meter	Digitron / AE/ Rishabh/ Meco / Keltron
22	CT's	AE/ KAPPA/ Pragati
23	Selector Switches	AE/ Kaycee/ Vaishno
24	Contractors	Lauritz knudsen / Seimens/ Legrand/ Havells
25	Push button	Lauritz knudsen / BCH/ Siemens / Vaishno
26	Indicating LED Lamp	Lauritz knudsen / Seimens/ AE / Kaycee
27	GI Pipe	Jindal / SAIL/ Tata
28	HDPE Pipe	Reliance/ Duraline/ Hasti
29	Cat 6 LAN Cable	Legrand/ Molex/ Amp
30	Access Control System	Bosch/ Honeywell/ Nextwatch/GE-Casi
31	Intruder Alarm Systerm	Ademco/ Bosch/ DSC/ Honeywell

32	Cable raceway floor/ wall mounted & Accessories(MS/G.I)	Legrand/ AKG/ BEC/ ESSAR/ Honeywell/ Godrej.
33	Sandwitch Bus trunking/ Rising Main	C&S/ Lauritz knudsen / Schneider/ ABB
34	Telephone wire	Delton/ Finolex/ Havells/ Skytone
35	Occupancy Sensor	Wipro/ Schneider/ Honeywell/ Seimens/ Bosch
36	Gooseneck Microphone	Televic/ Beyerdynamic/ Bosch/ Bose/ Sennheiser
37	Amplifier	Crown/ Extrom/ Crestron
38	24 Port Switch	Cisco/ Netgear/ Hp/ Juniper
39	8 Port LIU	Legrand/ AMP/ Molex
40	16 Port Gigabit POE Switch	Netgear/ Juniper/ Cisco
41	HDMI/ USB Cable	AMX/ Crestron/ Manhatten
42	AV Speaker	JBL/ Bosch/ Bose/ Sony
43	CCTV Camera	Pelco/ Bosch/ Honeywell
44	DVR (Digital Video Recorder)	Bosch/ Honeywell/ Pelco
45	Fire Suppression System	Minimax/ Ceasefire/ Ansul
46	Fire Panel	Johnson Control / Notifier / Bosch / Fike.
47	PA System	Notifier/ Johnson Control/ Fike/ Cooper/ Bosch
48	Addressable Heat/ Smoke detector/ Hooter/ RI/ Pull station/	Johnson Control/ Notifier / Bosch / Mircom / Fike.
49	Conventional Heat/ Smoke detector/ Hooter/ RI/ Pull station/	System Sensor/ Cooper/ GST/ Ravel/ Fike/ Essar/ Honeywell/ Bosch/ Bental
50	Cable joint Kit	Raychem/ M-Seal/ Densons/ 3M
51	Energy/KWH Meter	L&K/Universal/Rishabh/AE

N.B.: For any item not covered in the above list, the contractor shall require to get the samples approved from the Engineer-in-charge before the supply is made.

ANNEXURE - I

<< 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	GST number	**:**	
7	PAN number	**:**	
8	UTR no. with date [for payment of EMD]	**:**	
9	DD / FDR / Banker's Cheque No. [if uploaded scanned copy] for EMD	**:**	
	BANK DETAILS of the Bidder		
10	Bank name	**:**	
11	Branch address	**:**	
12	Branch telephone no.	**:**	
13	MICR Code of the bank	**:**	
14	IFSC code	**:**	
15	Bank Account no.	**:**	
16	Type of account	**:**	

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-II

SAMPLE AFFIDAVIT
(How the write up should be on the stamp paper)
INDIAN NON-JUDICIAL

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

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

Affidavit

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

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

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

Dated:

Place:

Signature with stamp of the bidder

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

(This is purely illustrative. Bidder must buy stamp paper and write the above matters in respective space on the front page of stamp paper)

UNDERTAKING BY THE OEM

ANNEXURE-III

(To be submitted on the Letterhead of the OEM)

Date: _____

To,
The Executive Engineer (Electrical-II)
Indian Institute of Technology Delhi
New Delhi – 110016

Subject: Consent/Authorization Letter for Providing CAMC Support as per the Scope of NIT

Reference: NIT No.: 95/IITD/EW/1175/2026-2027

Name of Work: Implementation of Smart Commercial and Domestic Energy Metering System across the campus of IIT Delhi.

Dear Sir/Madam,

We hereby give our consent and confirm that M/s _____ is authorized to undertake and execute the Comprehensive Annual Maintenance Contract (CAMC) for the smart energy metering system, including smart commercial and domestic energy meters, manufactured/supplied by us, during the entire CAMC period, as per the terms and conditions of the NIT and the agreement.

We further confirm and undertake that full technical support, assistance, and cooperation shall be provided by us to M/s_____ throughout the entire contract/CAMC period for the successful operation, maintenance, troubleshooting, repair, and servicing of the smart energy metering system installed across the IIT Delhi campus.

Accordingly, we hereby undertake the following:

1. We shall provide all necessary technical support and assistance for the execution of the work as per the approved technical specifications, scope of work, terms and conditions of the agreement, and directions of the Engineer-in-Charge throughout the contract period.
2. We shall provide necessary technical assistance for the installation, commissioning, testing, configuration, integration, and handing over of the smart energy metering system, including rectification of defects and deficiencies, wherever required.
3. We shall provide technical support for inspection, testing, troubleshooting, repair, maintenance, and smooth functioning of smart energy meters, communication devices, data acquisition systems, and associated components throughout the CAMC period.
4. We shall ensure that suitably qualified and technically competent engineers/technical personnel are made available, as and when required, for attending to technical issues, breakdowns, system failures, and other maintenance requirements.
5. Our authorized technical personnel shall attend inspections, meetings, and technical discussions with the officers/representatives of IIT Delhi as and when required.
6. We shall extend all necessary technical cooperation, including technical guidance, product documentation, configuration details, software/firmware support, and assistance for genuine OEM components/spares, wherever required for proper maintenance and reliable operation of the smart energy metering system.
7. We shall provide necessary support for communication interfaces, data transmission, integration with the central monitoring/billing system, and resolution of related technical issues, wherever applicable, as per the approved system architecture and scope of work.
8. We shall ensure continued OEM support throughout the entire CAMC period to facilitate reliable, uninterrupted, and efficient functioning of the smart commercial and domestic energy metering system installed at IIT Delhi.

We hereby confirm that this undertaking shall remain valid throughout the entire contract/CAMC period and that we shall extend the requisite technical support and cooperation to the authorized agency for successful execution and maintenance of the work.

Yours faithfully,

For M/s _____
(Name of OEM)
Authorized Signatory: _____
Name: _____
Designation: _____
Contact No.: _____
Email ID: _____

Company Seal

BID SUBMISSION CHECK LIST

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 - 1 (To be submitted on firm's letter head)	.PDF
2		Proof of EMD deposit/ scanned copy of DD submission (Favoring 'Registrar, IIT Delhi')	.PDF
3		Self-attested copy of valid Enlistment order of contractor as applicable.	.PDF
4		Self-attested copy of work experience Certificate as desired, BOQ of work showing components of work.	.PDF
5		Self-attested copy of GST Registration certificate	.PDF
6		Affidavit as per provision of the 1.2.2 of IITD-6 (To be submitted on stamp paper)	.PDF
7		Acceptance to execute INTEGRITY PACT	.PDF
8		IITD 7 / 8 duly signed	.PDF
9		Self-attested copy of valid Electrical License in the name of contractor.	.PDF
10		Self OEM mentioned makes or valid OEM Authorization Certificate on OEM letter pad.	
11		Any other document as specified in the NIT	.PDF
Envelope – 2			
Sl. No.	TYPES	Content	
1.	**Financial Bid**	Price bid should be submitted in BOQ format.	.EXL

SCHEDULE OF QUANTITY

S.No	DESCRIPTION OF ITEM	Qty	Unit	Rate	Amount
A	(SITC part)			i/c GST	
1	SITC of single phase, 6-10Amp direct-connected Prepaid/Postpaid smart energy Meter complete with meter box conforming to IS 16444 complete with Cellular communication module (4G/ Fallback to 2G), necessary accessories and all associated works, suitable for remote meter reading, monitoring etc. with the following specifications: • AC Single Phase Two Wire, Tamper Proof, Static Meter of Class 1.0, 415V, 50 Hz, 10-60A anti-tamper features • Meter Should support the following data: 15 min instantaneous data for voltage, current, power factor, power, cumulative energy and frequency Cat No: WM101BC7DSM4GBOXH or equivalent.	300	Each	******	******
2	SITC of Three Phase, 10-100Amp, direct connected Prepaid/Postpaid smart energy meter complete with meter box conforming to IS16444 complete with Cellular communication module (4G/ Fallback to 2G) necessary accessories and all associated works, suitable for remote meter reading, monitoring etc. with the following specifications: • AC Three Phase Four Wire, Tamper Proof, Static Meter of Class 1.0, 415 V, 50 Hz, 10-100A anti-tamper features, • Meter Should support the following data: 15 min instantaneous data for voltage, current, power factor, power, cumulative energy and frequency Cat No: WR300BC8DSM4GBOXH or equivalent.	25	Each	******	******
3	SITC of Three Phase LT CT 5A, Class 0.5S Meter Operated Prepaid/Postpaid smart energy meter complete with meter box conforming to IS16444 complete with Cellular communication module (4G/ Fallback to 2G), necessary accessories and all associated works, suitable for remote meter reading, monitoring etc. with the following specifications: • AC Three Phase CT operated, Tamper Proof, Static Meter of Class 0.5, 415 V, 50 Hz, -/5A anti-tamper features, • Meter Should support the following data: 15 min instantaneous data for voltage, current, power factor, power, cumulative energy and frequency Cat No: WR300BC or equivalent.	32	Each	******	******

4	**Supply and Configuration of the Web based Software per meter with following modules:**				
4.1	(i) Meter Data Management Module The meter data management module would be responsible for collecting the data from the concentrator and make the data available to the billing system. The meter data management system would capture and provide the following data: (a) 15 min instantaneous data from all the meters for seven parameters – Cumulative Energy, Cumulative Apparent Energy (as applicable), Power, Current, Voltage, Power Factor and Frequency. (c) Monthly billing survey data for cum energy and max demand.				
4.2	(ii) Billing Module The billing module would collect the data from the meter data management module, calculate the energy consumption, calculate billing determinant and make energy data / billing data available to admin and end users. The billing module would include functionalities for tariff setup, bill format setup, bill adjustment, occupation billing and vacation billing. The system would be setup as postpaid billing system. It would allow postpaid and prepaid functionality as required. Make: Transverse/ Mega Calibre or equivalent/Lauritz Knudsen (iii) Meter and Software should be of same make.				
4.3	(iii) Occupation and Vacation Module The system would support occupation / vacation and billing reports. The software would be collecting data from DCU. The software would provide access to staff as well as the occupant for the data.				
4.4	(iv) Web site: There would be a dedicated website for the admin team to view all the data and information. The designated users in MES would have the admin access to the application. The MES staff would also have the access of the key information on an android mobiles app (for admin use).				
4.5	(v) Customer Portal The system would include a customer portal for the resident /occupant to log in and view their own energy / billing data. There would be android and iOS mobile apps for the user to monitor its own data and balance on regular basis.				

4.6	(vi) Energy Accounting Module The system would include features of energy accounting. The system would be able to account for total energy block wise, facility wise and would also allow calculations of unaccounted energy in case total energy meter is also available.				
4.7	vii) Communication Module The system would provide communication of energy data and bills via print, email and sms methods.				
4.8	viii) Meter Master Data The system would support meter master data repository. The system would support meter replacement process.				
4.9	ix) Excel Export The system would support export of metering and billing data in excel format.				
4.10	x) Customer Care Module - the software would include a customer care module where the user would be log in any complaints. The service provider would monitor the complaints and carry out the necessary activities for the complaints resolution.				
4.11	(xi) Meter Installation Module - The software would include an app based meter installation module where the meter installation or changes can be captured on the app itself and the readings may be demonstrated to the user if required on the app itself.				
4.12	(xii) Activities Communication - The software support communication of the various activities such as occupation, vacation, meter change. Personal detail change etc. with the user as well as the department on email. Note: (a) The software would be hosted on MEITY (Ministry of Information Technology) approved GCC (Government Community Cloud)				
	Item No 4.1 to 4.12 (Web Based Software complete with all accessories as required)	1	Job	******	******
5	**SERVICE STATION** Supply of Server latest with Raid 5, 16GB RAM, 2 TB HDD, 24-Inc LED Backlit Monitor, USB Keyboard & Mouse including MS office License for Report & email complete as required	1	Each	******	******
	Total (A) SITC Part = Rs.				

B	CAMC				
	Comprehensive annual maintenance of the complete smart metering system along with accessories mentioned above from Item no 1 to Item No 5 including routine, preventive and breakdown maintenance, replacement of spare parts as and when required for proper functioning of the system as per the detailed specification/conditions of contract & as per the relevant sections by deploying the required staff including specialized man power and by arranging required spares, tools and plants etc., to keep all the services operational up to the required standards, complete as required. (a) Sim charges. The contractor would ensure supply of appropriate SIMs to ensure necessary single availability. The contractor would change the sim or sim provider as required. In case of network issues, the contractor would liaison with the telecom service providers for necessary resolution.				
	(b) Recurring SMS charges. The SMS would be issued for the payments alerts, low balance alerts and disconnection / connection alerts. (c) Software CAMC. This would include necessary upgradations in the software such as support to the chrome browser changes, android version changes, iOS version changes. These changes happen on frequent basis and the software would support all the changes. (One Job Means 1 Unit Per Month) **N.B During 1st year after commissioning, CAMC shall be free of cost. DLP in force**				
	For first Year (After completion of DLP) [357 X 12]	4284	Job	******	******
	2nd Year [357 X 12]	4284	Job	******	******
	3rd Year [357 X 12]	4284	Job	******	******
	4th Year [357 X 12]	4284	Job	******	******
	5th Year [357 X 12]	4284	Job	******	******
	Total B (CAMC Part) = Rs.			******	******