

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR
INSTITUTE WORKS DEPARTMENT
CENTRAL OFFICE**



**DOCUMENT RELATED TO ELIGIBILITY CRITERIA AND
PRE-QUALIFICATION**

Name of work: Construction of New 33/11 kV substation & interconnection with existing 33/11 kV substation and supply, installation testing and commissioning of 11/0.433 kV substation (HT side works) and DG sets of GSMST in IIT Kanpur

Estimated cost: Rs. 30.24 Crore

Superintending Engineer
& Head IWD
IIT Kanpur
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email : rakeshkv@iitk.ac.in

Pre-Qualification (Technical) Document

For

Name of work: Construction of New 33/11 kV substation & interconnection with existing 33/11 kV substation and supply, installation testing and commissioning of 11/0.433 kV substation (HT side works) and DG sets of GSMST in IIT Kanpur

This document consists of pages 1 to 44 pages.

Superintending Engineer

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INDIAN INSTITUTE OF TECHNOLOGY KANPUR
INSTITUTE WORKS DEPARTMENT
CENTRAL OFFICE
Notice Inviting e-Tenders

The Superintending Engineer, IWD, IIT Kanpur, on behalf of Board of Governors of IIT Kanpur, invites online percentage rate tenders in two-envelope (two bid) system from the eligible electrical contractors.

Sl. No.	Name of work	Estimated cost	Earnest money	Period
1.	Construction of New 33/11 kV substation & interconnection with existing 33/11 kV substation and supply, installation testing and commissioning of 11/0.433 kV substation (HT side works) and DG sets of GSMST in IIT Kanpur	Rs. 30.24 Crore	Rs. 40.24 Lacs/-	12 months

Last date & time of submission of bid **on 25.04.2025 upto 03.30 PM**. All details are available on website, <https://eprocure.gov.in/cppp/latestactivetenders>, & www.iitk.ac.in/iwd/tenderhall.htm. The bids can only be submitted online at <https://eprocure.gov.in/eprocure/app>.

No. 01/AC/EE/2025

Dated: 02.04.2025

Superintending Engineer

**INDIAN INSTITUTE OF TECHNOLOGY,
KANPUR INSTITUTE WORKS DEPARTMENT
Notice Inviting e-Tender**

The Superintending Engineer, IWD, IIT Kanpur, on behalf of Board of Governors of IIT Kanpur, invites online percentage rate tenders in two-envelope system from the eligible electrical contractor.

S.N	NIT No.	Name of work and location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time :technical & financial bid for online submission of	Last date for submitting hardcopy of EMD, proof of Cost of Tender documents, and other documents	Time & date of opening of technical bid
1	01/AC/EE/2025	Construction of New 33/11 kV substation & interconnection with existing 33/11 kV substation and supply, installation testing and commissioning of 11/0.433 kV substation (HT side works) and DG sets of GSMST in IIT Kanpur	Rs. 30.24 Cr.	Rs. 40.24 Lacs/-	12 Months	Up to 3:30 PM on 25.04.2025	After last date and time of submission of tender document upto 3:30 PM on 28.04.2025	Opening at 4:00 PM on 28.04.2025

Note: The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD- 6, and other terms and conditions given in the NIT, pre-qualification document and drawings. The bidder should also read the General Conditions of Contract for CPWD Works 2023 with correction slips, upto the date specified in schedule-F, which is available as Government of India Publications.

Initial Eligibility & Technical Criteria: Contractors who fulfill the following requirements shall be eligible for pre-qualification. Joint ventures are not accepted. **The bidders satisfying the initial eligibility & Technical criteria shall only be considered for pre-qualification. The financial bid of only pre-qualified bidder shall be opened.**

a) Should have satisfactorily completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids.

- * 3 (three) similar completed works costing not less than **Rs. 1209.68 Lacs** or 2 (two) similar completed works, not less than **Rs 1814.52 Lacs** or 1 (one) similar completed work of aggregate cost not less than **Rs 2419.35 Lacs.**

And

One completed work of similar nature costing not less than Rs. 1209.68.00 Lacs with some Central Government Department / State Government Department / Central Autonomous Body / Central Public Sector Undertakings/State PSU/State Autonomous Body).

Note: 1. The similar nature works means experience of "Construction of 33/11 KV substation or higher level with individual power transformer of capacity 8 MVA or higher and 11/0.433 KV substation works."

1.The value of executed works 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 the previous day of last date of submission of bids.

b) Should have average annual financial turnover of **Rs. 1814.52** Lacs of electrical works during the last three years ending 31-03-2024.

c) Bankers certificate from a commercial bank or Net-worth certificate:

Bankers certificate of the amount equal to 40% of the Estimate cost put to tender (ECPT)

Or

Net-Worth certificate of minimum 10% of the estimated cost put to tender issued by certified chartered Accountant with UDIN

- d) Should have valid Electrical license of Class A
- e) Should have the calculated bidding capacity equal to or more than the estimated cost of the work.
- f) Should have valid registration of EPF, ESIC and GST.
- g) Technical datasheet: The bidder's proposed equipment's technical parameter/specification shall be matching with the required parameter/specification by IIT Kanpur as per the Technical Datasheet for all major items as specified at Annexure-1 to 7 under Appendix-I

h) The tenderer shall have to furnish an affidavit on non judicial stamp paper of Rs. 10.00 as under:

"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 light, then I/We shall be debarred for tendering in IIT Kanpur contracts in future forever. Also, if such a violation comes to light before date start of work, the Superintending Engineer shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee."

Note: The value of executed works 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 the previous day of last date of submission of tenders.

2. The eligible tenderer electrical contractors will quote percentage rate. It will be obligatory on the part of the tenderer to sign the tender document for all the components (The schedule of quantities, conditions and special conditions etc.). After acceptance of the tender by competent authority, the SE, IWD shall issue letter of award on behalf of the Board of Governors.
3. Entire work under the scope of tender including 33/11 KV substation, 11/0.433 KV substation and DG sets shall be executed under one agreement.
4. The bid document consisting of the schedule of quantity, terms and condition, i/c plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.iitk.ac.in/iwd/tenderhall.htm, <https://eprocure.gov.in/eprocure/app>., and www.eprocure.gov.in/cppp/latestactivetenders, free of cost.
5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.

6. The intending bidder must have valid class-III digital signature to submit the bid.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload the documents in the form of JPG format and PDF format as required.
9. Contractor must ensure to quote percentage rate.
10. The Institute reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
11. 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 bid as notified.
12. **a)** Earnest Money in the form of Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of the Director, IIT Kanpur shall be scanned and uploaded to the e-Tendering website by the bidder within the period of bid submission.

A part of earnest money (EM) is acceptable in the form of bank guarantee also. In such case, **minimum** 50% of earnest money or Rs. 20 lacs, whichever is less, **shall** have to be deposited in shape prescribed above, and balance **may be deposited** in shape of Bank Guarantee of any scheduled bank **having validity for four months or more from the last date of receipt of bids** which also is to be scanned and uploaded by the intending bidders. The original EMD should be deposited in hardcopy in the office of Executive Engineer (Electrical & AC) along with the mentioned documents.

13. Copy of documents as specified in the tender document shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, copy (original/self-certified as specified in para 21) of all the scanned and uploaded documents as specified in bid document shall have to be submitted by the all bidders, physically in the office of tender opening authority.
14. The bid submitted shall become invalid if:
 - (i) The bidder is found ineligible.
 - (ii) **The bidder does not deposit original EMD to the office of Executive Engineer, IWD, IIT Kanpur.**
 - (iii) The bidder does not upload all the documents **(including GST registration)** as stipulated in the bid document **including the scan copy of the EMD.**
 - (iv) **The hardcopy of above documents (clause 1(a) to 1(h)) and the duly signed Pre-Qualification document along with earnest money deposit receipt shall not be submitted in the office of Superintending Engineer, Central Office, IWD within last date and time of submission as specified in the above bid document.**

- (v) 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 bidder** in the office of bid opening authority.
 - (vi) If a bidder does not quote any percentage rate of the tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
15. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra cost 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 bidders 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.
 16. 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.
 17. The contractor shall not be permitted to bid for works in the IWD 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 officer in the Institute Works Department. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
 18. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

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

- i. Enlistment Order of the Contractor in appropriate class/category if any
- ii. Demand Draft/ Pay Order or Banker's Cheque / Deposit at call Receipt / Bank Guarantee of any scheduled Bank against EMD (All drawn in favour of the Director, IIT Kanpur).
- iii. Photocopy/scan copy of original EMD (*Original EMD has to be submitted in hard copy*)
- iv. Certificate of Incorporation.
- v. Certificates of Work Experience.
- vi. Certificate of Financial Turnover from CA.
- vii. Certified copy of valid Electrical license of Class A
- viii. Bankers certificate or net-worth certificate.
- ix. Details of completed similar nature of work of 33/11 KV Substation & 11/0.433 KV substation.
- x. List of works in hand
- xi. Manpower details of the company
- xii. Affidavit as per provisions of clause 1.2.3 of CPWD-6.
- xiii. Certificate of Registration of GST.
- xiv. Copy of EPF & ESI Registration
- xv. Health, Safety & Environment compliance certificate of the company.
- xvi. List of Tools & Plants
- xvii. Technical data sheet for the various items as specified at **Annexure 1 to 7 under Appendix I** shall be matching with the tender specification.
- xviii. Any other Document as required.

20. **Certificate of Financial Turnover:** At the time of submission of bid, contractor may upload Affidavit / Certificate from CA mentioning Financial Turnover of last 5 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids.

21. The pre-qualification bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date if any change in opening date of financial bid.

22. Pre Bid Meeting shall be held in the office of Superintending Engineer in IWD, IIT Kanpur at **11.00 AM on 11.04.2025** to clear the doubt of intending bidders/ associates, if any. For physical attendance in pre bid meeting only one representative of firm shall be allowed to maintain the physical distance. Bidders are advised to send their queries/ doubts by email to the executive engineer on email id: vktiwari@iitk.ac.in least one day prior to the pre-bid meeting. A bidder can send multiple mails with different queries/doubts in each mail. The bidder may also raise query on the date of prebid meeting. If found necessary, an addendum/corrigendum to the tender document and /or minutes of meeting shall be issued and same shall be uploaded on the website and no further queries after

pre-bid meeting shall be entertained. Such addendum/corrigendum shall become part of tender.

23. If any Information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering for future work. The Institute reserves the right to verify the particulars furnished by the applicant independently.

Acting Superintending Engineer

SECTION- I

BRIEF DESCRIPTION OF THE WORK

1. Salient details of the work for which bids are invited are as under:

Sl. No	Name of work	Estimated Cost	Period of Completion
1	Construction of New 33/11 kV substation & interconnection with existing 33/11 kV substation and supply, installation testing and commissioning of 11/0.433 kV substation (HT side works) and DG sets of GSMST in IIT Kanpur.	Total Estimated Cost in Rs. 30.24 Cr.	12- Months

2. The work is situated inside IIT Kanpur Campus, Kalyanpur, Kanpur (UP) Pin:- 208016.

3. General features/scope of the work is as under: The scope covers the supply, installation, testing & commissioning of 33/11kV substation equipment, 11/0.433 KV substation equipment, DG sets and associated works.

Above details and status are only indicative but not exhaustive. The intending bidder shall inspect the site and fully acquaint with nature and quantum of work and site condition and assess/satisfy himself before quoting and submission of his bid. He is also advised to inspect the indicative drawings attached with this tender document to acquaint with other details about the building. The lowest bidder have to get the all the drawings approved before start of the work after incorporating the necessary changes as per the site requirement.

4. Work shall be executed according to General Conditions of Contract for CPWD 2023 with upto date correction slips. Works with correction slips issued upto as specified in schedule F.

SECTION-II

INFORMATION & INSTRUCTIONS FOR BIDDERS

1.0 General :

- 1.1 Letter of transmittal and forms for deciding eligibility are given in Section III.
- 1.2 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars/query is not applicable in case of the bidder, it should be stated as "not applicable". The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bid being summarily disqualified. Bids made by telegram or telex and those received late will not be entertained.
- 1.3 The bid should be typewritten. The bidder should sign each page of the application.
- 1.4 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the eligibility criteria document are numbered. Additional sheets, if any added by the contractor, should also be numbered by him. They should be submitted as a package with signed letter of transmittal.
- 1.5 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the bidder should be signed by an officer not below the rank of the Executive Engineer or equivalent.
- 1.6 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of eligibility criteria document unless it is called for by the Employer.
- 1.7 Any information furnished by the bidder found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering / taking up of work in IIT Kanpur.

2.0 Definitions:

- 2.1 In this document (as hereinafter define) the following definition words and expressions shall have the meaning hereby assigned to them except where the context otherwise required.
- 2.2 **Employer:** shall Means the Board of Governors, IIT Kanpur, Acting through the SE, IWD, IIT Kanpur. The SE, IWD will have the support of the following.
- 2.2.1 **Architect:** shall means every partner of the architectural firm, appointed by the Institute for the work and in the event of ceasing to be the architects, such other firms or persons as may be appointed by the Institute.
- 2.2.2 **Engineer-In-Charge:** shall mean Executive Engineer for above electrical Works.
- 2.2.3 **Site engineer:** shall mean the Sr. Assistant Engineer /Assistant Engineer/ Junior Engineer appointed by the Institute works department.
- 2.3 **Bidder:** Means an individual, proprietary firm, a firm in partnership, limited company private or public or a corporation.
- 2.4 "Year" means "Financial Year" unless stated otherwise.

3.0 Method of application:

- 3.1 If the bidder is an individual, the application shall be signed by him above his full type written name and current address.
- 3.2 If the bidder is a proprietary firm, the application shall be signed by the proprietor above his full type written name and the full name of his firm with its current address.
- 3.3 If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten names and current addresses, or, alternatively, by a partner holding power of attorney for the firm. In the later case a certified copy of the power of attorney should accompany with the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
- 3.4 If the bidder is a limited company or a corporation, the application shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

4.0 Final decision-making authority.

The Institute reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

5.0 Particulars provisional

The particulars of the work given in Section I are provisional. They are liable to change and must be considered only as advance information to assist the bidder.

6.0 Site visit

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to assess and familiarize themselves about the local conditions such as the working and other constraints at site, approach road to the site, availability of water and power supply, application of taxes, duties and levies as applicable, labour laws, nature of ground, soil and sub soil conditions, underground water table, accommodation they may require and other details required by them to execute the complete scope of work.

The bidder may obtain all necessary information as to risk, weather conditions contingencies & General Conditions of contract, special condition of contract and other circumstances which may influence or affected their bid price, bidder shall be deemed to have considered site conditions whether he has inspected it or not and to have familiarized himself in all respect before quoting his rates and no claim or extra charges whatsoever in this regard shall be entertained / payable by institute at later date.

7.0 Criteria for pre-qualification evaluation (The bidder's satisfying the Initial Eligibility & Technical Criteria as per clause no. 1(a) to 1(h) shall only be considered for pre-qualification evaluation as below):

7.1 Should have satisfactorily completed works during the last seven years ending the previous day of last date of submission of bids.

- * 3 (three) similar completed works costing not less than **Rs. 1209.68 Lacs** or 2 (two) similar completed works, not less than **Rs 1814.52 Lacs** or 1 (one) similar completed work of aggregate cost not less than **Rs 2419.35 Lacs.**

And

One completed work of similar nature costing not less than Rs. 1209.68 Lacs with some Central Government Department / State Government Department / Central Autonomous Body / Central Public Sector Undertakings/State PSU/ State Autonomous Body).

Note: 1. The similar nature works means experience of "Construction of 33/11 KV substation or higher level with individual power transformer of capacity 8 MVA or higher and 11/0.433 KV substation works."

For this purpose, cost of work shall mean gross value the completed work including cost of material supplied by the Government/Client but excluding those supplied free of cost. This should be certified by an officer not below the rank of the Executive Engineer or equivalent.

- 7.2 **The tenderer shall have to furnish an affidavit on non judicial stamp paper of Rs. 10.00 as under:**

"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 light, then I/We shall be debarred for tendering in IIT Kanpur contracts in future forever. Also, if such a violation comes to light before date start of work, the Superintending Engineer shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee."

- 7.3 The bidder should have had average annual financial turn over (gross) of **Rs.1814.52 Lacs** on electrical works during the immediate last three consecutive financial years. This should be duly audited by a Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.
- 7.4 The bidding capacity of the contractor should be equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = [A \times N \times 2] - B$$

Where, A = Maximum value of construction works executed in any one year during the last five years taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of work for which bids has been invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.

- 7.5 The bidder should have valid registration with EPF, ESIC & GST authority.
- 7.6 Bankers certificate from a commercial bank or Net-worth certificate as per initial eligibility criteria.
- 7.7 The bidder should own constructions equipment as per list required for the proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment by hiring/purchase etc.
- 7.8 The bidder should have sufficient number of technical and administrative employees for the proper execution of the contract. The bidder should submit a list of these employees stating clearly how these would be involved in this work.
- 7.9 The bidder's performance for each work completed in the last seven years and in hand should be certified by an officer not below the rank of Executive Engineer or equivalent.

7.10 The bidder should submit technical data sheet for the various items as specified at **annexure 1 to 7** under Appendix-I shall be matching with the IITK specification.

8.0 Evaluation criteria

8.1 The detailed submitted by the bidders will be evaluated in the following manner:

8.1.1 The initial criteria prescribed in **para 7.1 to 7.10 above** in respect of experience of similar class of works completed, bidding capacity, financial turn over and based on technical datasheets etc. will first be scrutinized and the bidder's eligibility for the work be determined.

8.1.2 The bidders qualifying the initial criteria as set out in **para 7.1 to 7.10 above** will be evaluated for following criteria by scoring method on the basis of details furnished by them.

CRITERIA FOR EVALUATION OF THE PERFORMANCE OF CONTRACTORS FOR PRE-ELIGIBILITY

Attributes		Evaluation				
(a)	Financial Strength	(20 marks)				
	(i) Average annual turnover	16 marks	(i) 60% marks for minimum eligibility criteria			
	(ii) Banker's Certificate	4 marks	(ii) 100% marks for twice the minimum eligibility criteria or more in between (i) & (ii) - on pro-rat basis.			
(b)	Experience in similar class of works	(20 marks)	(i) 60% marks for minimum eligibility criteria			
			(ii) 100% marks for twice the minimum eligibility criteria or more in between (i) & (ii) - on pro-rat basis.			
(c)	Performance on works (Time over run)	(20 marks)				
	Parameter	Calculation for points	Score			Maximum marks
	If TOR =		1.00	2.00	3.00	>3.50
	(i) without levy of compensation		20	15	10	10
	(ii) with levy of compensation		20	5	0	-5
	(iii) Levy of compensation non decided		20	10	0	0
	TOR= AT/ST, where AT= Actual time : ST = Stipulated Time in the agreement plus (+) justified period of extension of time Note : Marks for value in between the stages indicated above is to be determined by straight line variation basis.					
(d)	Performance on works (Quality) as per Assessment in form D-1 (40 marks)					
	Completed works (max. 25 marks)	Ongoing Works (max . 15 marks)		(Total mark assessed)		

“To become eligible for short listing the bidder must secure at least fifty percent marks in each and sixty percent marks in aggregate”.

The Institute, however, reserves the right to restrict the list of such qualified contractors to any number deemed suitable by it.

- 8.2 Even though any bidder may satisfy the above requirements, he would be liable to disqualification if he has:
- (a) Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the eligibility criteria document.
 - (b) Record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.

9.0 Financial information

Bidder should furnish the following financial information:

Annual financial statement for the last five years in (Form “A”) and solvency certificate in (Form “B”)

10.0 Experience in works highlighting experience in similar works

10.1 Bidder should furnish the following:

- (a) List of all works of similar nature successfully completed during the last seven years in (Form “C”).
- (b) List of the projects under execution or awarded in (Form “D”).

10.2 Particulars of completed works and performance of the bidder duly authenticated/certified by an officer not below the rank of the Executive Engineer or equivalent should be furnished separately for each work completed or in progress in (Form “E”).

10.3 Information in (Form “D”) should be complete and no work should be left out.

11.0 Organization information

Bidder is required to submit the information in respect of his organization in Forms “F” & “G”

12.0 Construction plant and equipment

Bidder should furnish the list of construction plant and equipment including welding machine, gas cutter, drill machine, hydraulic lifting machine, Pipe Insulation plant & machinery at site or at manufacturing etc. to be used in carrying out the work. (in Form “H”). Details of any other plant & equipment required for the work not included in Form “F” and available with the applicant may also be indicated.

14.0 Letter of transmittal

The bidder should submit the letter of transmittal attached with the document.

15.0 Opening of Price bid

After evaluation of applications, a list of short listed agencies will be prepared. Thereafter the financial bids of only the qualified and technically acceptable bidders shall be opened at the notified time, date and place online. The bids shall remain valid for 90 days from the last date of its submission.

16.0 Award criteria

- 16.1 The Institute reserves the right, without being liable for any damages or obligation to inform the bidder to:
- (a) Amend the scope and value of contract to the bidder.
 - (b) Reject any or all the applications without assigning any reason.
- 16.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

Acting Superintending Engineer

SECTION III
INFORMATION REGARDING ELIGIBILITY
LETTER OF TRANSMITTAL

From:

To

**The Superintending Engineer
IWD, IIT,
Kanpur-208016**

Sub: Construction of New 33/11 kV substation & interconnection with existing 33/11 kV substation and supply, installation testing and commissioning of 11/0.433 kV substation (HT side works) and DG sets of GSMST in IIT Kanpur.

Sir,

Having examined the details given in tender-Notice and Bid document for the above work, I / we hereby submit the relevant information.

1. I / We hereby certify that all the statement made and information supplied in the enclosed forms A to H and accompanying statement are true and correct.
2. I / We have furnished all information and details necessary for Pre-qualification and have no further pertinent information to supply.
3. I / We submit the requisite certified solvency certificate and authorize the Superintending Engineer, IWD, IIT Kanpur, to approach the bank issuing the solvency certificate to confirm the correctness thereof. I / we also authorize Superintending Engineer, IWD, IIT Kanpur to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I / We submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following works.

Name of work	Value of completed works at current costing level	Certificate from

Number of enclosures:
Seal of bidder

Date of submission:

Signature(s) of Bidder

FORM 'A'

FINANCIAL INFORMATION

- I. Financial Analysis – Details to be furnished duly supported by figures in balance sheet/profit & loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

Year	2019-20	2020-21	2021-22	2022-23	2023-24
Gross annual turnover on construction works.					
Profit (+)/Loss (-)					

- II. Financial arrangements for carrying out the proposed work.
- III. Solvency Certificate from Bankers of the Bidder in the prescribed Form "B". .

Signature of Bidder(s)

Signature of Chartered Accountant

.....

Name of Chartered Accountant

.....

Membership No. ICAI

Date and Seal

FORM 'B'

FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to the best of our knowledge and information that M/s.....
/ Sh.....

..... having marginally noted
address, a customer of our bank are/is respectable and can be treated as good for any
engagement upto a limit of Rs.(Rupees
.....)

This certificate is issued without any guarantee or responsibility on the bank or any of
the officers.

(Signature)

For the Bank.

Note

- (1) Bankers certificates should be on letter head of the Bank, sealed in cover addressed to tendering authority.
- (2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM 'C'

DETAILS OF ALL WORKS OF SIMILAR CLASS COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF BIDS.

Sl. No.	Name of work/project and location	Owner or sponsoring organization	Cost of work in crores of Rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/arbitration cases pending/in progress with details*	Name and address/telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

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

Signature of Bidder(s)

FORM 'C'-1
Calculation of bidding capacity
Details of existing commitments and ongoing works.

S. No.	Name of work/ project and location	Owner or sponsoring organization	Contract value in crore of rupees	Date of commencement as per contract	Stipulated date of completion	Upto date percentage progress of work	Remaining work in percentage (100- column 7)	Existing commitment Column 4 x Column 8 /100	Name and address/ telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10	11

Total (B) =

Maximum turnover in last seven years = Rs.....
Updated value of turnover (A) = Rs.....
No. of years (N) =
Bidding Capacity= {[AxNx2]-B} =

Certificate:

I certify that all the awarded and ongoing works have been included in the above list.

(Signature of Bidder(s))

FORM 'D'
PROJECTS UNDER EXECUTION OR AWARDED

Sl. No.	Name of work/project and location	Owner or sponsoring organization	Cost of work in crores of Rupees	Date of commencement as per contract	Stipulated date of completion	Up to date percentage progress of work	Slow progress if any, and reasons thereof	Name and address/telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

Certified that the above list of work is completed and no work has been left out and that the information given is correct to my knowledge and belief.

Signature of Bidder(s)

FORM 'D-1'

Assessment of Quality for Completed as well as ongoing works

Name of Work:-

Date of Inspection:-

Date of submission of report:-

A	General Observation & Operational Aspects	Yes/ No
1.	Availability of approval from local bodies in case of Construction of Private Buildings	
2.	Availability of approved electrical drawings	
3.	Observation on seepage/ leakage in the Transformer	
4.	Whether Transformer is with OLTC or not	
5.	Whether all Protection settings have been marked or set properly	
6.	Whether clearance received by safety Director Electrical or CEA	
7.	Whether safety measures adopted at site as per CPWD Safety Code and or govt. guidelines are adequate or not	
8.	Whether the Welfare facilities provided to labour as per Clause 19 H of GCC for CPWD Works/and or govt. guidelines are adequate or not	
9.	Whether SCADA of the substation works taken up	
10.	Whether thimbles used for termination of wires in DBs, EBDs & Panels?	
11.	Whether 11/0.433 kV substation transformer work taken up alongwith 33/11 KV substation transformer work	
12.	Whether DG sets work taken up alongwith substation work	
B.	Quality of Work	Marks Assessed
1.	Quality of transformer installation	
2.	Quality of Bus bar, Gantry, VCB, CT, PT and Isolator works	
3.	Quality of the HT panel installation	
4.	Quality of battery and battery charging installation	
5.	Quality of Switch yard work	
6.	Quality of DG set installation work	
7.	Quality of HT cable laying works, i.e. jointing and termination works	
8.	Quality of substation earthing works	
9.	Quality of substation lightening works	
10.	Functionality of SCADA system of the substation	
11.	Quality of DBs, EBDs & Panels	
12.	Quality of E&M equipment's, panels & feeder pillar	
13.	Quality of fire alarm system/ fire fighting system	
14.	Quality of Air Conditioning work	

15.	Quality of Sub-station based on complete live diagram, capacitor panel, power factor, RTU panel, insulating Mat, cleanliness, cable termination, earthing pits, earthing of transformer / DG sets	
16.	Any Other aspect (To be elaborated)	

Average Marks (To be awarded out of 100 Marks based on average of marks assessed on each attribute mentioned at B above).

Note:

1. All the above parameters may be considered for assessing the overall quality of work executed by the contractor. Each attribute shall be assessed on maximum marks of 10 under B above.

2. In case, any attribute is not applicable, the same may not be included in assessment and mentioned are not applicable (N/A).

3. The works as assessed above shall be converted on a scale of 25/15 marks for completed/ongoing works respectively.

In case of eligible completed works being more than one the average marks assigned for eligible completed works shall be considered for marking purpose. Only one ongoing work to be assessed.

FORM 'E'

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "C" & "D"

1. Name of work / Project & Location

2. Agreement No.

3. Estimated Cost

4. Tendered Cost

5. Date of start

6. Date of completion

(i) Stipulated date of completion

(ii) Actual date of completion

7. Amount of compensation levied for delayed completion, if any.

8. Amount of reduced rate items, if any.

9. Performance Report

(i)	Quality of work	Very Good/Good/Fair/Poor
(ii)	Financial soundness	Very Good/Good/Fair/Poor
(iii)	Technical Proficiency	Very Good/Good/Fair/Poor
(iv)	Resourcefulness	Very Good/Good/Fair/Poor
(v)	General behavior	Very Good/Good/Fair/Poor

Dated:

Executive Engineer

FORM "F"

STRUCTURE & ORGANISATION

1. Name & Address of the bidder
2. Telephone No./Telex No./Fax No.
3. Legal status of the applicant (attach copies of original document defining the legal status)
 - (a) An Individual
 - (b) A proprietary firm
 - (c) A firm in partnership
 - (d) A limited company or Corporation
4. Particulars of registration with various Government bodies (attach attested photocopy).

Organization/Place or registration	Registration No.
i.
ii.
iii.
5. Names and Titles of Directors & Officers with designation to be concerned with this book.
6. Designation of individuals authorized to act for the organization.
7. Was the applicant ever required to suspend construction for a period of more than six months continuously after you commenced the construction? If so, give the name of the project and reasons of suspension of work.
8. Has the bidder or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.
9. Has the bidder, or any consultant partnership firm, ever been debarred/black listed for tendering in any organization at any time? If so, give details.

10. Has the bidder or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.
11. In which field of Air-conditioning work the applicant has specialization and interest ?
12. Any other information considered necessary but not included above.

Signature of the Bidder(s)

FORM 'G'

DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED

FOR THE WORK

Sl. No.	Designation	Total	Number available for this work	Name	Qualification s	Professional	How these would be involved in this work	Remarks
1	2	3	4	5	6	7	8	9

Signature of Bidder(s)

FORM 'H'

DETAILS OF CONSTRUCTION PLANT AND EQUIPMENT LIKELY TO BE USED IN CARRYING OUT THE WORK FOR THE WORK.

Sl. No.	Qualification	Unit	Capacity or type	Age	Condition	Presently owned	Leased	To be Purchased	Present location	Remarks
1	Hydra Crane	Nos.								
2	Chain Pulley Block	Nos.								
3	Welding Machine with safety kit	Nos.								
4	Gas cutter machine with safety kit	Nos.								
5	Transformer oil testing Kit	Nos.								
6	Primary Injection transformer	Nos.								
7	Multimeter/Meggar	Nos.								

Signature of Bidder(s)

FORM 'I'
HSE COMPLIANCE CERTIFICATIONS

Sr.No.	Name of Certification	Yes/No	Date of Issue	Valid Upto
1	ISO 9001 (Quality)			
2	ISO 14001 (Environment)			
3	OHSAS 18001/ISO 45001 (Health & Safety)			
4	Any Other Certification			

TECHNICAL DATASHEETS**ANNEXURE- 1****Technical Data sheet of 10MVA, 33/11 kV power transformer**

Sr. No.	Specifications	As per Requirement	Bidders Offer/Compliance
1	Make	As per tender approved make	
2	Defect liability period	Two-years	
3	Rated MVA (ONAN rating)	10 MVA	
4	Type	Outdoor power transformer, oil immersed, Energy efficient (Level-2) with auto OLTC	
5	No. of phases	3	
6	Frequency	50 Hz ($\pm 5\%$)	
7	Type of cooling	ONAN (Oil natural / Air natural)	
8	Rated voltage (HV/LV)	33 / 11 KV	
9	Rated current HV/LV	174.95 A/ 524.89 A	
10	No. of windings	Two	
11	Connection symbol / Vector Group	Dyn 11	
12	Percentage impedance voltage on normal tap and MVA base at 75 degree C corresponding to HV/ LV rating	MVA Rating- 10MVA	
		% Impedance- 8.35	
13	Type of tap changer	Auto On -load Tap Changer. (OLTC)	
14	Range of taping	+ 5% to – 15% in 8 equal steps of 2.5% each on HV winding, or alternatively, on HV winding for HV variation, to give normal 11 KV on LV side.	
15	Insulation levels for windings: -	33 /11 KV	
	a) Lighting Impulse withstand (KVP)	33KV - 170KVP 11KV-75KVP	
	(b) Power frequency voltage withstand (KVrms)	33KV-70KVrms 11KV-28KVrms	
16	Noise level at rated voltage and frequency	As per NEMA Publication No. TR-1.	
17	Permissible Temperature Rise over ambient temperature of 40 / 45°C		

	a) Temp. of top oil measured by thermometer.	40°C	
	b) Temp. of winding measured by resistance	45°C	
18	Terminals		
	a) HV winding line end	36 KV oil filled communicating type porcelain bushing (Anti fog type)	
	b) LV Winding	12 KV porcelain type of busing (Anti fog type) for outdoor 11 KV	
19	Performance figures @ 10 MVA base		
	a) No load loss KW (Max)	7	
	b) Load loss, KW (Max)	50	
	c) Auxillary loss, kW	0	
	d) Impedance % Min @ 10 MVA base	8.35	
21	% Efficiency @ 75 deg C/Unity P.F.		
	a) at 100% load	99.43	
	b) at 75% load	99.53	
	c) at 50% load	99.61	
22	% Efficiency @ 75 deg C/0.8 P.F.		
	a) at 100% load	99.29	
	b) at 75% load	99.42	
	c) at 50% load	99.51	
23	% Regulation at Full load		
	a) Unity P.F.	0.85	
	b) at 0.8 P.F.	5.6	

ANNEXURE- II

Technical Data sheet of 2.5MVA, 11/0.433 KV Dry type Distribution Transformer

Sr. No.	Specifications	As per Requirement	Bidders Offer/Compliance
1	Make	As per tender approved make	
2	Defect Liability Period	Two-years	
3	Rated MVA (AN rating)	2.5 MVA	
4	Reference Standard	IS :11171	
4	Type	Dry Core type, Step Down indoor distribution transformer with Auto OLTC	
5	No. of phases	3	
6	Frequency	50 Hz (\pm 5%)	
7	Type of cooling	AN (Air Natural)	
8	Rated voltage (HV/LV)	11 /0.433 KV	
9	Rated current HV/LV	131.22A/ 3335.43A	
10	No. of windings	Two	
11	MVA Rating corresponding to AN Cooling system	100%	
12	Vector Group	Dyn 11	
13	% Impedance	6.25	
14	Type of tap changer	Auto ON Load Tap Changer. (OLTC)	
17	Over Voltage operating capability and duration	110 % of rated voltage (continuous) 125% for at-least five Minute 140% for at-least one minute	
18	Insulation levels for windings: -	11/0.433 KV	
	(a)1.2 / 50 microsecond wave shape Impulse withstand (KVP)	11KV - 75KVP	
		0.433KV-28KVP	
	(b) Power frequency voltage withstand (KVrms)	11KV-28KVrms 0.433KV-3Kvrm	

19	Withstand time for three phase short circuit	3 Seconds	
20	Noise level at rated voltage and frequency	As per NEMA Publication No. TR-1.	
21	Permissible Temperature Rise over ambient temperature of 50 C		
	a) Winding temp. measured by resistance	45 C	
22	Insulation level of bushing		
	a) HV/LV	HV=17.5KV/250A LV=1.1Kv/5000A	
	b) Terminal Arrangement (HV/LV)	Cable Box / Busduct	
27	Material of HV & LV conductor	Electrolytic Copper	
28	Maximum current density for HV and LV winding for rated current	2.4 A/mm ²	
29	Performance figures a) Total loss @50% load kW (Max) b) Total loss @100 load kW (Max)	As per ECBC Standards	
	c) Impedance in % (IS Tol.)	6.25	
30	%Efficiency at 75 deg c/ Unity P.F a) At 100% load b) At 75% load c) At 50% load d) At 25% load	As per ECBC Standards	
31	%Efficiency at 75 deg C/0.8 P.F. A)At 100% load b)At 75% load c) At 50% load d) At 25% load	As per ECBC Standards	
32	Maximum efficiency at unity P.F	As per ECBC Standards	
33	Load at which max. efficiency at unity P.F. occurs	As per ECBC Standards	
34	% Regulation at full load a) Unity P.F b) At 0.8 P.F	As per ECBC Standards	
40	Transformer overloading	As per IEC 60076 Part 10	

ANNEXURE- III**Technical Data sheet of 1.6MVA, 11/0.433 KV Dry type Distribution Transformer**

Sr. No.	Specifications	As per Requirement	Bidders Offer/Compliance
1	Make	As per tender approved make	
2	Defect Liability Period	Two-years	
3	Rated MVA (AN rating)	1.6 MVA	
	Reference Standard	IS:11171	
	Type	Dry, Core type, Step Down indoor distribution transformer with Auto OLTC,	
4	No. of phases	3	
6	Frequency	50 Hz ($\pm 5\%$)	
7	Type of cooling	AN (Air Natural)	
8	Rated voltage (HV/LV)	11 /0.433 KV	
9	Rated current HV/LV	83.98A/ 2134.58A	
10	No. of windings	Two	
11	MVA Rating corresponding to AN Cooling system	100%	
12	Vector Group	Dyn 11	
19	Percentage impedance voltage on normal tap and MVA base at 75o C corresponding to HV/ LV rating	MVA Rating- 1.6 MVA % Impedance- 6.25	
	Type of tap changer	Auto ON Load Tap Changer. (OLTC)	
21	Over Voltage operating capability and duration	110 % of rated voltage (continuous) 125% for at-least five Minute 140% for at-least one minute	
22	Insulation levels for windings: -	11/0.433 KV	
	(a)1.2 / 50 microsecond wave shape Impulse withstand (KVP)	11KV - 75KVP	
		0.433KV-28KVP	
	(b) Power frequency voltage withstand (KVrms)	11KV-28KVrms	

		0.433KV-3Kvrm	
23	Withstand time for three phase short circuit	3 Seconds	
24	Noise level at rated voltage and frequency	As per NEMA Publication No. TR-1.	
25	Permissible Temperature Rise over ambient temperature of 50 C		
	c) Winding temp. measured by resistance	45 C	
26	Insulation level of bushing		
	a) HV/LV	HV=17.5KV/250A	
		LV=1.1Kv/4000A	
	b) Terminal Arrangement(HV/LV)	Cable Box / Busduct	
27	Material of HV & LV conductor	Electrolytic Copper	
28	Maximum current density for HV and LV winding for rated current	2.4 A/mm ²	
	Performance figures c) Total loss @50% load kW (Max) d) Total loss @100 load kW (Max)	As per ECBC standards	
	C) Impedance in % (IS Tol.)	6.25	
30	%Efficiency at 75 deg c/ Unity P.F e) At 100% load f) At 75% load g) At 50% load h) At 25% load	As per ECBC standards	
31	%Efficiency at 75 deg C/0.8 P.F. A)At 100% load b)At 75% load c) At 50% load d) At 25% load	As per ECBC standards	
32	Maximum efficiency at unity P.F	As per ECBC standards	
33	Load at which max. efficiency at unity P.F. occurs	As per ECBC standards	
34	% Regulation at full load c) Unity P.F d) At 0.8 P.F	As per ECBC standards	
40	Transformer overloading	As per IEC 60076 part 10	

ANNEXURE- IV**Technical Data sheet of 0.630MVA, 11/0.433 KV Dry type Distribution Transformer**

Sr. No.	Specifications	As per Requirement	Bidders Offer/Compliance
1	Make	As per tender approved make	
2	Defect Liability Period	Two-years	
3	Rated MVA (AN rating)	0.630 MVA	
	Reference Standard	IS:11171	
	Type	Dry core type, Step Down indoor distribution transformer, with Auto OLTC	
4	No. of phases	3	
6	Frequency	50 Hz ($\pm 5\%$)	
7	Type of cooling	AN (Air Natural)	
8	Rated voltage (HV/LV)	11 /0.433 KV	
9	Rated current HV/LV	33.06A/ 840.49A	
10	No. of windings	Two	
11	MVA Rating corresponding to AN Cooling system	100%	
12	Vector Group	Dyn 11	
19	% Impedance	- 6.25	
	Type of tap changer	Auto ON Load Tap Changer. (OLTC)	
21	Over Voltage operating capability and duration	110 % of rated voltage (continuous) 125% for at-least five Minute 140% for at-least one minute	
22	Insulation levels for windings: -	11/0.433 KV	
	a)1.2 / 50 microsecond wave shape Impulse withstand (KVP)	11KV - 75KVP	

		0.433KV-28KVP	
	(b) Power frequency voltage withstand (KVrms)	11KV-28KVrms	
		0.433KV-3Kvrm	
23	Withstand time for three phase short circuit	3 Seconds	
24	Noise level at rated voltage and frequency	As per NEMA Publication No. TR-1.	
25	Permissible Temperature Rise over ambient temperature of 50 C		
	1. Winding temp. measured by resistance	45 C	
26	Insulation level of bushing		
	Terminal Arrangement(HV/LV)	Cable Box / Busduct	
	b) HV	HV=17.5KV/150A LV=1.1Kv/2000A	
27	Material of HV & LV conductor	Electrolytic Copper	
28	Maximum current density for HV and LV winding for rated current	2.4 A/mm ²	
	Performance figures e) Total loss @50% load kW (Max) f) Total loss @100 load kW (Max)	As per ECBC Standards	
	C) Impedance in % (IS Tol.)	6.25	
30	%Efficiency at 75 deg c/ Unity P.F i) At 100% load j) At 75% load k) At 50% load l) At 25% load	As per ECBC Standards	
31	%Efficiency at 75 deg C/0.8 P.F. A)At 100% load b)At 75% load c) At 50% load d) At 25% load	As per ECBC Standards	
32	Maximum efficiency at unity P.F	As per ECBC Standards	
33	Load at which max. efficiency at unity P.F. occurs	As per ECBC Standards	
34	% Regulation at full load e) Unity P.F f) At 0.8 P.F	As per ECBC Standards	

40	Transformer overloading	As per IEC 60076 part 10	
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ANNEXURE- V

Technical Datasheet of 1010 kVA DG Sets

Sr. No.	Specifications	As per Requirement	Bidder Offer/Compliance
1	DG Set Capacity	1010 KVA	
i)	Make	As per tender approved make	
ii)	Defect Lability period of complete unit	Two year	
iii)	Prime Power factor	0.8 as per ISO 8528 with acoustic enclosure as per CPCB norms	
iv)	CC/RCC Foundation for DG set	As per specifications / OEM recommendations	
v)	Acoustic Enclosure	Designed & Manufactured by DG Set OEM, As per CPCB-latest Norms	
vi)	Exhaust Chimney	MS Stack structure for exhaust pipe with hospital grade silencer.	
vii)	Anti-Vibration pad	Anti-Vibration pad	
viii)	Voltage regulation	$\pm 1\%$	
ix)	First fill of fuel (Diesel)	500 Ltrs. or higher	
2	Engine		
I	Make	Kirloskar / Cummins/Greaves Cotton/Baudouin/ Caterpillar/Perkins	
li	Specification	Turbocharged Diesel Engine 4 stroke as per ISO 8528 at 1500 RPM	
lii	Fuel tank capacity	Fuel tank capacity 990 Ltrs or Above	

iv	Confirmation to codes	Engine shall be confirm to IS 10000/ISO 3046/ BS 649/ BS 5514 amended upto date	
iv	Silencer	Hospital grade silencer	
3	Alternator		
I	Make	Stamford/ Crompton Greaves/ Kirloskar/Leroy Somer	
li	Specification 1	Synchronous alternator rated 1010 KVA at 1500 RPM 3 phase, 415V 50 Hz, AC supply with 0.8 PF lagging at site condition.	
lii	Specification 2	Alternator have SPDP enclosure (IP 23).	
iv	Codes	Alternator complete in all respect as per IS 4722 & IEC 34	

ADDITIONAL INFORMATION FOR PROSPECTIVE BIDDER

1. Labour hutments shall not be allowed to be erected within the premises of the campus except for the security person at work site with proper sanitation arrangement after due approval of the Superintending Engineer. The labour hutments, necessary arrangement shall be made by the agency outside of the campus at his own cost.
2. From time to time, some restrictions may be imposed by the IIT Kanpur Authority in connection with the entry and exit of construction materials and labourers within the construction site, for which no claim will be entertained.
3. The bidder has to provide a qualified safety officer for adhering proper safety requirements during the entire period of contract. The safety officer must be present at site throughout the contract period.
4. In case of any fatal accident at any site the agency may be punished upto extent of termination of contract including black listing for future work in the institute.
5. Any violation with related to labour laws with respect to construction workers shall be viewed very seriously & agency may be punished upto extent of termination of contract including black listing for future work in the institute.
6. The bidder has to open EPF account in local office at Kanpur for the work.
7. The contractor(s) shall quote all inclusive rates against the items in the schedule of quantity these rate shall be for all depth and heights unless otherwise specified in the item and no extra payment shall be made for any of the condition & specification mentioned in the tender document unless specifically specified otherwise.

Superintending Engineer