

## INDEX

**Name of Work: Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus.**

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**NIT amounting to Rs. 26,62,672/- (Rupees Twenty Six Lacs Sixty Two Thousand Six Hundred Seventy Two Only) is approved.**

**[Certified that this N.I.T. contains 35 (Thirty Five pages only)].**

**Executive Engineer  
I.W.D. Elect. Division  
I.I.T., Kanpur**

**Superintending Engineer  
Central Office, I.W.D.  
I.I.T., Kanpur**

# ***PART-A***



भारतीय प्रौद्योगिकी संस्थान, कानपुर  
संस्थान निर्माण विभाग, केंद्रीय कार्यालय

इ-निविदा सूचना संख्या - सं०नि०वि०/के०का०/2020/ 779

दिनांक: 24-03-2020

अधिकाधी अभियंता, संस्थान निर्माण विभाग, संस्थान के संचालक मंडल की ओर से (1. निविदा संख्या: 138/ विद्युत्/2020. कार्य का नाम: आईआईटी कानपुर में पुराने SAC के ब्लॉक C फर्स्ट फ्लोर पर 4 केमिस्ट्री लैब में डिस्ट्रीब्यूशन बोर्ड और अन्य सम्बंधित कार्य के साथ अतिरिक्त पावर पॉइंट उपलब्ध कराने के कार्य। अनुमानित लागत: ₹० 7,20,694/- धरोहर राशि: ₹० 14,414/- कार्य पूर्ण करने की अवधि: 02 माह, (2. निविदा संख्या: 139/ विद्युत्/2020. कार्य का नाम: आईआईटी कानपुर में प्लाइट लैब में इंटरनेशनल GNSS सर्विस स्टेशन बनाना। (सब डेड: विद्युत् कार्य) अनुमानित लागत: ₹० 9,60,511/- धरोहर राशि: ₹० 19,210/- कार्य पूर्ण करने की अवधि: 02 माह), (3. निविदा संख्या: 140/ विद्युत्/2020. कार्य का नाम: आईआईटी कानपुर में सेंट्रल वर्कशॉप में imagincering लैब में नई मशीन ले आउट के अनुसार विद्युत के नवीनीकरण और संशोधन कार्य। अनुमानित लागत: ₹० 5,84,455/- धरोहर राशि: ₹० 11,689/- कार्य पूर्ण करने की अवधि: 04 माह) 4. आई आई टी कानपुर परिसर में स्थापित विभिन्न सबस्टेशनों में 2x750KVA, 5x500KVA, 6x320KVA, 4x250KVA, 1x200KVA और 1x50KVA DG सेटों का वार्षिक मेंटेनेंस अनुबंध अनुमानित लागत: ₹० 26,62,672/- धरोहर राशि: ₹० 53,253/- कार्य पूर्ण करने की अवधि: 12 माह, (निविदा क्र० 4, डीजी सेट के अधिकृत डीलरों (सेल्स एंड सर्विस) किलोस्करबीक्स कॉन्टन से मद दर निविदाएं आमंत्रित की जाती हैं।) कार्य हेतु योग्य "A" क्लास अनुमोदित गवर्नमेन्ट विद्युत् ठेकेदार जो कि सीपीडब्ल्यूडी, बीएसएनएल, एमईएस, पीडब्ल्यूडी, रेलवे, केंद्र/ राज्य सरकार के उपक्रम में उचित श्रेणी में पंजीकृत हो, से मद दर निविदाएं आमंत्रित की जाती हैं। निविदा सूचना [www.tenderhome.com](http://www.tenderhome.com), <http://eprocure.gov.in/cppp/latestactivebidders> तथा [www.iitk.ac.in/ovd/tenderhall.htm](http://www.iitk.ac.in/ovd/tenderhall.htm) वेबसाइट पर उपलब्ध है तथा ऑनलाइन निविदाएं [www.tenderwizard.com/IT](http://www.tenderwizard.com/IT) वेबसाइट द्वारा ही डाली जा सकेंगी। ऑनलाइन निविदाएं 03.04.2020 को 15:30 बजे तक प्राप्त की जाएगी। यदि इस निविदा सूचना के सम्बन्ध में कोई संशोधन सूचना जारी की जाएगी, तो केवल उपरोक्त वेबसाइट पर ही उपलब्ध होगा।

कृपया निम्न में प्रकाशित करें  
हिन्दुस्तान (दिल्ली):- कानपुर संस्करण।

20/3/2020  
अधीक्षण अभियंता  
राष्ट्र-3 ई

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

The Superintending Engineer, IWD, I.I.T., Kanpur on behalf of Board of Governors of IIT Kanpur invites online Item rate tender from approved and eligible\* contractors for the following work(s):

S. No. 4	NIT No 141 /Elect./2020	Name of work and location	Estimated cost put to tender	Earnest Money (In favour of Director IIT Kanpur)	Period of Completion	Last date & time of submission of tender	Period during which EMD, Cost of Tender Document, e-Tender Processing Fee and other Documents shall be submitted	Time & date of opening of tender
		Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus.	Rs. 26,62,672/-	Rs.53,253/-	12 Months	Upto 3:30 PM on 03.06.2020	After last date and time of submission of tender and upto 3:30 PM on 05.06.2020	At 3:30 PM on 08.06.2020

The registration of the contractors should be valid on the last date of submission of tenders.

1. Eligible electrical contractor born on the approved list of CPWD, BSNL, MES, PWD, Central PSUs/ State PSUs in the appropriate class, **or authorized dealer (sales & services) of Kirlosakar/ Greaves Cotton DG sets.**
2. Having satisfactorily completed 3 (three) similar works of value 40% or two similar works of value 50% or one similar work of value 80% of estimated cost during last seven years in the registered department are eligible to participate.
3. Having GST, ESI & EPF registration No. of government authorities.
4. Having similar nature of works mean **maintenance & servicing of Diesel generator set of 500 KVA & above and PLC control system panel.**

5. Three similar completed works (at least of them should be in Central Govt./ State Govt./ Central autonomous bodies/ State autonomous bodies / Central PSUs and State PSUs).
6. Two similar completed works (at least of them should be in Central Govt./ State Govt./ Central autonomous bodies/ State autonomous bodies / Central PSUs and State PSUs).
7. One similar completed works (in Central Govt. / State Govt. / Central autonomous bodies/ State autonomous bodies / Central PSUs and State PSUs).
8. Details of average annual financial turn over on electrical works should be at least 100 % of the estimated cost during the last three consecutive financial year.
9. Having a bank solvency certificate not less of 40% of estimated cost.

In case the last date of submission of tender is extended, the registered of contractor should be valid on the original date of submission of tenders.

1. The intending tenderer must read the terms and conditions of CPWD-6 for e-Tendering carefully. He should only submit his tender if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for tenderer posted on website shall form part of tender document.
3. The tender document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.iitk.ac.in/iwd/tenderhall.htm](http://www.iitk.ac.in/iwd/tenderhall.htm) and [www.tenderhome.com](http://www.tenderhome.com) free of cost and shall be submitted on line on website [www.tenderwizard.com/IIT](http://www.tenderwizard.com/IIT).
4. The bids can only be submitted after filling all the details in new drop down menu of e tendering portal such as demand draft or pay order or bankers cheque or deposited call receipt or fixed deposited receipt and bank guarantee of any scheduled bank (bankers name, amount, number and date) towards cost of bid documents and EMD in favour of the Director IIT Kanpur and processing fee in favour of ITI Ltd, New Delhi and other documents as required.
5. The intending tenderer has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt /Pay Order/ Banker's Cheque/Bank Guarantee number, amount and date.

The amount of EMD can be paid by multiple Demand Draft / Pay Order / Banker's Cheque / Deposit at call receipt / Fixed Deposit Receipts along with multiple Bank Guarantee of any Scheduled Bank if EMD is also acceptable in the form of Bank Guarantee.

6. 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.
7. The intending tenderer must have valid class-III digital signature to submit the tender.
8. On opening date, the contractor can login and see the tender opening process. After opening of tenders he will receive the competitor tender sheets.
9. Contractor can upload documents in the form of JPG format and PDF format.
10. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures in yellow colour.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".

Therefore, if any cell is left blank and no rate is quoted by the tenderer, rate of such item shall be treated as "0" (ZERO).

**List of Documents to be scanned and uploaded within the period of tender submission:**

- Copy of Registration with the Department.
- Required Experience - Completion certificates with Bill of quantity of similar works.  
The works certificates submitted by the bidder clearly indicate that:
  - Similar work executed shall be **maintenance & servicing of Diesel generator set of 500 KVA & above and PLC control system panel.**
  - 
  - The completion certificate cost of the electrical work.
  - Actual date of completion of the electrical work.
- Copy of GST, EPF & ESI No.
- Details of turn over during the last three years.
- E.M.D. and Bank drafts of tender cost & processing fee.

## CPWD-6 FORM e-Tendering

The Superintending Engineer, IWD, I.I.T., Kanpur on behalf of Board of Governors of IIT Kanpur invites online item rate tenders from approved and eligible\* contractors for the works of: **Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus.**

- 1.1 The work is estimated to cost **Rs. 26,62,672/-** This estimate, however, is given merely as a rough guide.
- 1.2 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the tenders. He will also nominate Division which will deal with all matters relating to the invitation of tenders.

### 2 Criteria of eligibility

1. Eligible electrical contractor born on the approved list of CPWD, BSNL, MES, PWD, Central PSUs/ State PSUs in the appropriate class or **authorized dealer (sales & services) of Kirlosakar/ Greaves Cotton DG sets.**
2. Having satisfactorily completed 3 (three) similar works of value 40% or two similar works of value 50% or one similar work of value 80% of estimated cost during last seven years in the registered department are eligible to participate.
3. Having GST, ESI & EPF registration No. of government authorities.
4. Having similar nature of works mean **maintenance & servicing of Diesel generator set of 500 KVA& above and PLC control system panel.**
5. Three similar completed works (at least of them should be in Central Govt. / State Govt. / Central autonomous bodies/ State autonomous bodies / Central PSUs and State PSUs).
6. Two similar completed works (at least of them should be in Central Govt. / State Govt./ Central autonomous bodies/ State autonomous bodies / Central PSUs and State PSUs).
7. One similar completed works (in Central Govt. / State Govt. / Central autonomous bodies/ State autonomous bodies / Central PSUs and State PSUs).
8. Copy of Registration with the Department.
9. **Required Experience - Completion certificates with Bill of quantity of similar works.**
10. Details of average annual financial turn over on electrical works should be at least 100 % of the estimated cost during the last three consecutive financial year.
11. Having a bank solvency certificate not less of 40% of estimated cost.
3. Agreement shall be drawn with the successful tenderers on prescribed Form No. CPWD 7 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website [www.iitk.ac.in](http://www.iitk.ac.in) Tenderers shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
4. The time allowed for carrying out the work will be **12 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.

5. The site for the work is available.\*
6. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.iitk.ac.in/iwd/tenderhall.htm](http://www.iitk.ac.in/iwd/tenderhall.htm) and [www.tenderhome.com](http://www.tenderhome.com) free of cost and shall be submitted on line on website or [www.tenderwizard.com/IIT](http://www.tenderwizard.com/IIT).

Other necessary documents also can be seen in the office of the Superintending Engineer, IWD, IIT, Kanpur between hours of 10:00 AM to 5:00 PM from **20.05.2020 to 03.06.2020** every day except on Saturdays, Sundays and Public Holidays in free of cost.

7. After submission of the tender the contractor can re-submit revised tender any number of times but before last time and date of submission of tender as notified.
8. While submitting the revised tender, 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.
9. Earnest Money can be paid in the form of Treasury Challan or Demand Draft or Pay order or Banker`s Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of Director, IIT, Kanpur along with Bank Guarantee of any Scheduled Bank wherever applicable.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lac, whichever is less, will have to be deposited in shape prescribed above, and balance in shape of Bank Guarantee of any scheduled bank.

- (i) **Cost of Tender Document – NIL/- (Including GST)** drawn in favour of the Director IIT, Kanpur e-payment.
- (ii) **e-Tender Processing Fee – Rs. 3,142/- (Including GST)** drawn in favour of **"ITI Limited"** payable at Delhi through e-payment.

Treasury Challan or Demand Draft or Pay Order or Banker`s Cheque or Deposit at Call Receipt or FDR or Bank Guarantee against EMD, Cost of Tender Document and cost of tender processing fee shall be placed in single sealed envelope superscripted as "Earnest Money, Cost of Tender Document and cost tender processing fees with name of work and due date of opening of the tender also mentioned thereon.

Copy of Registration Order and certificate of work experience wherever applicable and other documents if required and specified in this bid document shall be scanned and uploaded to the e-Tendering website within the period of tender submission and certified copy of each shall be deposited in a separate envelop marked as "Other Documents"

Both the envelopes shall be placed in another envelope with due mention of Name of work, date & time of opening of tenders and to be submitted in the office of Superintending Engineer after last date & time of submission of tender and up to 03:30 PM **on 03.06.2020**.

Online tender documents submitted by intending tenderers shall be opened only of those tenderers, whose Earnest Money Deposit, Cost of Tender Document and e- Tender Processing Fee and other documents placed in the envelope are found in order.



The tender submitted shall be opened at 03:30 PM on **08.06.2020**.

10. The tender submitted shall become invalid and cost of tender & e-Tender processing fee shall not be refunded if:
  - (i) The tenderers is found ineligible.
  - (ii) The tenderers does not upload all the documents as stipulated in the tender document.
  - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of tender and hard copies as submitted physically in the office of tender opening authority.
11. The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be 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 or Government Securities or Fixed Deposit Receipts or 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. Intending Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderers 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 tenderers 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 tender by a tenderers 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 and local conditions and other factors having a bearing on the execution of the work.
13. The competent authority on behalf of the Board of Governors, IIT, Kanpur does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderers shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of Board of Governors, IIT, Kanpur reserves to himself the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to tender for works in the IIT Kanpur 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 Kanpur. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. 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 tender or engagement in the contractor's service.
18. The tender for the works shall remain open for acceptance for a period of **ninety (90) days** from the date of opening of tenders if any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderers shall not be allowed to participate in the retendering process of the work.
19. This Notice Inviting Tender shall form a part of the contract document. The successful tenderers/contractor, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
  - a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of submission of tender and acceptance thereof together with any correspondence leading thereto.
  - b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.

20.1.1 The tender document will include following three components:

**Part A:-**

CPWD-6, CPWD-7 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2010 as amended/modified up to **03.06.2020**.

**Part B:-**

General/specific conditions, specifications and schedule of quantities applicable to major component of the work.

**Part C:-**

Schedule A to F for minor component of the work. (SE/EE in charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.

- 20.1.2 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The Earnest Money will become part of the security deposit of the major components of work.
21. In case any discrepancy is noticed between the documents as uploaded at the time submission of bid on line and hard copies as submitted physically in then office of the superintending engineer, then the bid submitted shall become invalid and the institute shall, without prejudiced to any other right or remedy, be at the liberty to forfeit 50% of said EMD as affosaid. Further the bidder shall not be allowed to re-tendering process of the work
22. EPF & ESI paid to contractor worker shall be reimbursed actual basis.

**Superintending Engineer**  
**For & on behalf of the Board of Governors, IIT, Kanpur**

**ITEM RATE TENDER AND CONTRACT FOR WORK**

(A) **Tender for the work of:**

**Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus.**

**Signature of officer issuing the documents**

Designation: **Superintending Engineer, IWD Electrical and Air Conditioning Division, IIT, Kanpur**

Date of Issue \_\_\_\_\_

**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, Kanpur within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender **open for (90) ninety days from the date of opening of tender** and not to make any modifications in its terms and conditions.

A sum of **Rs. 53,253/-** is hereby forwarded in Cash/Receipt Treasury Challan/Deposit at call Receipt of a Scheduled Bank/Fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by scheduled bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee or fail to commence the work within prescribed period I/we agree that the said Board of Governors, IIT, Kanpur 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 of commence work as specified, I/we agree that Board of Governors, IIT, Kanpur 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 the 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 therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be

determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of earnest money or both 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, Kanpur 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 therefrom 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 \_\_\_\_\_ \*\* \_\_\_\_\_

Witness: \*\*  
Address: \*\*  
Occupation: \*\*

\*\*  
Signature of contractor  
Postal Address \*\*

## ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Board of Governors, IIT, Kanpur for a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_)

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

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

For & on behalf of the Board of  
Governors, IIT, Kanpur

Dated \_\_\_\_\_

Signature \_\_\_\_\_  
Designation \_\_\_\_\_

**Operative schedules shall be supplied separately to each intending tenderer)**

**SCHEDULE 'A'**

Schedule of Quantities :

**Page 1 of 1**

**SCHEDULE 'B'**

Schedule of materials to be issued to the contractor:

S. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
-----NIL-----				

**SCHEDULE 'C'**

Schedule of Tools and Plants to be hired to the contractor

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

**SCHEDULE 'D'**

Extra schedule for specific requirements/document for the work, if any: **As attached in tender form.**

**SCHEDULE 'E'**

Schedule of component of other Materials, Labour, POL etc. for price escalation : **N.A.**

**SCHEDULE 'F'**

Reference to General Conditions of contract.

<b>Name of Work:</b>	<b>Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus.</b>		
<b>Estimated cost of the work:</b>	Electrical Items of Work	<b>Rs. 26,62,672/-</b>	
<b>Earnest money</b>	<b>Rs. 53,253/-</b>		
<b>Performance Guarantee</b>	5% of the tendered value of the work		
<b>Security Deposit</b>	5% of the tendered value of the work		

**General rules and direction :**

**Definitions:**

2(v)	<b>Engineer-in-Charge</b>		
	For Electrical items of work		<b>Executive Engineer, Institute Works Department IIT, Kanpur</b>
2(vi)	Accepting Authority		<b>Superintending Engineer, Institute Works Department IIT, Kanpur</b>
2(vii)	Percentage on cost of materials and labour to cover all overheads and profits	15%.	
2(viii)	<b>Standard Schedule of Rates:</b>		
	Electrical Items of Work:		D.S.R. 2014 with up to date correction slips
2(ix)	Department:		Central Public Works Department
2(x)	Standard CPWD contract Form:		GCC 2014, CPWD <b>form-7</b> as modified & corrected up to <b>03.06.2020</b> (Whether correction vide latest circulars are incorporated or not in this document).
<b>Clause 1</b>	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 as provided in i) above	7 Days	
<b>Clause 2</b>	Authority for fixing Compensation under Clause 2		<b>Superintending Engineer, Institute Works Department IIT, Kanpur. Or successor thereof</b>
<b>Clause 2 A</b>	Whether Clause 2A shall be applicable	No	
<b>Clause 5</b>	i) Number of days from the date of issue of letter of acceptance for reckoning date of start	22 Days	
	ii) Time allowed for execution of work	<b>12 (Twelve) Months</b>	
<b>Authority to decide</b>	<b>Extension of time</b>		<b>Superintending Engineer, Institute Works Department IIT, Kanpur</b>
<b>Clause 6/ 6A</b>			<b>Only clause 6 applicable.</b>
<b>Clause 7</b>	Gross work to be done together with net payment/Adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment		<b>Not applicable</b>
<b>Clause 10A</b>	Material to be provided by the contractor.		<b>Applicable</b>



**Clause 10B (ii), (iii)** Whether clause 10-B (ii) and 10-B (iii) shall be applicable. **Not Applicable**

**Clause 10 C** Component of labour expressed as percentage of value of work **---**

**Clause 10 CA** Materials covered under this clause. Nearest material(**other than cement, reinforcement bars and structural steel**) for which All India Whole sale price Index is to be followed. Base price of all the materials covered under clause 10 CA

	1. Cement (PPC)	<b>Nil</b>	<b>NIL</b>
	2. Steel	<b>Nil</b>	<b>Nil</b>
<b>Clause 10 CC</b>	Increase/Decrease in Price of materials/wages		<b>Not Applicable</b>

**Clause 11** **Specification to be followed for execution of work:**

**For electrical works** **CPWD specifications 2013 internal and 1994 external electrical works**

For Civil items of work CPWD Specifications 2009 Vol. 1 and Vol. 2 with up to date correction slips.(Hereinafter called CPWD specifications also)

**Clause 12**

12.2 & 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work **---**

12.5 Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work **50%**

**Clause 16** **Competent Authority for Deciding reduced rates:**

For electrical/civil items of work **Superintending Engineer, Institute Works Department IIT, Kanpur**

**Clause 18** List of mandatory machinery, tools & plants to be deployed by the contractor at site. **Ladders, drill machine, crimping tools, chase cutting tools , cable jointing tools, blower**

**Clause 36 (i)** **Requirement of technical Representative(s)**

For supervision of civil as well as electrical items of work, technical representatives of the respective disciplines will be required to be deployed.

**Clause 42**

- i) a) Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2016 printed by CPWD **D.S.R. 2016(with up to date correction slips)**
- ii) **Variations permissible on theoretical quantities**
- a) Cement for works with estimated cost put to tender not more than Rs. 5 lakhs. **3% plus/minus**  
 For works with estimated cost put to Tender is more than Rs. 5 lakhs **2% plus/minus**
- b) Bitumen all works **2.5% plus only & nil on minus side.**
- c) Steel reinforcement and structural steel Sections for diameter, section and category. **2% plus/minus.**
- d) All other materials **Nil**

**RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**

SI No	Description of items	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement (PPC)	N. A	NIL
2.	Steel reinforcement (TMT Bars)		NIL

# SALIENT/MANDATORY REQUIREMENTS FOR THE TENDER

**Name of Work:** **Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus.**

- 1 The tenderer is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.
- 2 Separate schedule of quantity is included in this tender for civil and electrical items of work. If the tenderer wants to offer any unconditional rebates on their rates, the same should also be offered in the respective components of civil and electrical schedule separately. The contractor shall quote the percentage rates in figures and words accurately so that there is no discrepancy in rates written in figures and words.
- 3 Time allowed for the execution of work is **12 (Twelve) months.**
- 4 The contractor(s) shall submit a detailed program of execution in accordance with the master programme/milestone within ten days from the date of issue of award letter.
- 5 Contractor has to arrange and install field laboratory during the currency of work and nothing extra will be paid on this account.
- 6 Quality of the project is of utmost importance. This shall be adhered to in accordance with the provisions of CPWD specifications and guidelines given in the relevant paras.
- 7 Contractor has to deploy required Plant and machinery on the project. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor.
- 8 The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Superintending Engineer/Executive Engineer may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
- 9 Temporary Electric connection shall be issued as per request and the water charges shall be recovered as per rule.

# ***PART-B***

## **QUALITY ASSURANCE OF THE WORK**

1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.
2. The contractor shall get the source of all other materials, not specified else where in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.

### **3. Other Laboratories :**

1. The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing. The said cost of tests shall be borne by the contractor/department in the manner indicated below.
  - i) By the contractor, if the results show that the test does not conform to relevant CPWD Specifications / BIS code or specification mentioned else where in the documents
  - ii) By the department, if the results conforms to relevant CPWD Specifications / BIS code or specification mentioned else where in the documents.
2. If the tests, which were to be conducted in the site laboratory are conducted in other laboratories for what ever the reasons, the cost of such tests shall be borne by the contractor.

### **C) Sampling of Materials :**

1. Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.
2. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.
3. BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate or test certificate from approved testing laboratory to establish that the material

produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.

4. The contractor shall procure all the materials at least in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.
5. All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorised representative of the work on receipt of the same at site before use.
6. The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.

## ADDITIONAL TERMS AND CONDITIONS

- 1 Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same. Extra payment for centering/shuttering, if required to be done for heights greater than 3.5 m shall however be admissible at the rates arrived at in accordance with clause 12 of the agreement, if not already specified.
- 2 Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
- 3 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on account of the same.
- 5.1 The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and abide by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
- 5.2 The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
- 6 If as per local Municipal regulations, huts for labour are not to be erected at the site of work, the contractor shall be required to provide such accommodation at a place as is acceptable to the local body and nothing extra shall be paid on this account.
- 7 The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.
- 8.1 For the purpose of recording measurements and preparing running account bills, the abbreviated nomenclature indicated in the publications Abbreviated Nomenclature of Items of DSR 2016 shall be accepted. The abbreviated nomenclature shall be taken to cover all the materials and operations as per the complete nomenclature of the relevant items in the agreement and relevant specifications.
- 8.2 In case of items for which abbreviated nomenclature is not available in the aforesaid publication and also in case of extra and substituted items for which abbreviated nomenclature are not provided for in the agreement, full nomenclature of item shall be reproduced in the measurement books and bill forms for running account bills.
- 8.3 For the final bill, however, full nomenclature of all the items shall be adopted in preparing abstract in the measurement books and in the bill forms.

- 9 The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
- 10 Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.
- 11 It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
- 12 In case the supply of timber/steel frames/shutters for doors, windows etc. is made by some other agency, the contractor shall make necessary arrangements for their safe custody on the direction of the Engineer-in-charge till the same are fixed in position by him & nothing extra shall be paid on this account.
- 13 The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
- 14 The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.
- 15.1 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by the departments and shall construct suitable godowns, yards at the site of work for storing all materials as to be safe against damage by sun, rain, dampness, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose, at his own cost. Materials to be charged directly to work and stipulated for issue free of cost shall also be issued to the contractor as soon as those are received at site or at the stipulated place of issue. The provision of this para shall apply equally and fully to those as well.
- 15.2 All materials obtained from the Institute Works Department store or otherwise on receipt shall be got checked by the Engineer-in-charge of the work or his representations before use.
- 15.3 Registers for the materials to be issued by the department shall be maintained as required by the Engineer-in-charge and these shall be signed by the contractor or his authorized agent and representative of Engineer-in-charge on each day of transactions.



## SPECIAL CONDITIONS

**The contract is for Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus.**

**The contract shall be drawn initially for a period of 12 (Twelve) months and can be extended for two more years.** However the Institute reserves the right to terminate and completely extinguish the service contract within this period from the date of commissioning. It will however issue 1 (one) month advance notice in writing of its intention to do so. The Institute reserves the right to appoint another agency for service contract from the date of termination of contract.

- 1.0 Similarly the contractor shall be at liberty to seek termination of contract after the expiry of 1 (one) month from the date of commencement of the contract. It will however issue 1 (one) month advance notice in writing of its intention to do so.
- 2.0 The EMD of **Rs. 53,253/-** in respect of the successful bidder will be converted into Security Deposit and shall be held by the Institute as performance guarantee. The deposit shall be refunded within 6 (six) months from the date of completion of contract, without any interest. In the event of failure to provide satisfactory performance, the security deposit shall be absolutely forfeited.
- 3.0 No part of the contract shall in any manner or degree be transferred assigned or sublet by the contractor directly or indirectly to any person or firm. Violation of this condition shall render the contractor liable for panel action including termination of the contract and forfeiture of security deposit.
- 4.0 If the contractor does not commence any work in the manner described in the contract document or if at any time in the opinion of the Engineer-in-charge,
  - i) Fails to carry out the works in conformity with the contract document.  
OR
  - ii) Substantially suspends the work without authority from the Institute.  
OR
  - iii) Fails to carryout and execute the works to the satisfaction of the Institute.  
OR
  - iv) Commits or permits breach of any other kind, or observes or persists in any of the above mentioned breaches of the contract, after notice in writing shall have been given to the contractor by the Institute requiring such breach to be remedied.
  - v) If the contractor shall abandon the works.

Then in any such case, the Institute shall have the power to enter upon the premises, take possession thereof, to rescind the contract and to carry on with the works by the contractor's workmen the supervisor, as the Institute in its absolute discretion may think proper, without making any payment to the contractor.

- 5.0 The contractor shall have to work under the overall control of the controlling officer and in close liaison with the Engineer.

- 6.0 The contractor shall furnish to the controlling officer, bill in respect of the monthly charges for providing services under the contract, in the last week of every month. The Institute shall ensure payments within 10 (ten) working days from the date of submission of bill. The contractor shall ensure that the wages are paid to its employees before 10<sup>th</sup> of every month.
- 7.0 The controlling officer shall endorse the following certificate on the monthly bills, before recommending it for payment to Engineer-in-charge.
- i) “Certified that the contract during the period of the bill have been carried out as per the scope of work, terms & condition of the contract and to his entire satisfaction”
- 8.0 The contractor shall submit the bill along with the proof of having paid due wages to all the workmen engaged on the job during the preceding month. The wages shall be disbursed to the workmen in the presence of the controlling officer or his authorized representative, who will sign the wage register to certify the payment.
- 9.0 The employees of the contractor shall carry personal identity cards issued by the contractor, while on duty. In addition to this the contractor shall furnish from time to time a complete list of employees, along with passport size photographs and their residential address, to the security officer of the Institute. Alternately the contractor will issue numbered brass tokens to his workers and furnish to the controlling officer, a list of workers and the token number issued to them.
- 10.0 If and whenever any of the contractor’s employees shall, in the opinion of the officer-in-charge of the Institute, be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties or that it is undesirable for administrative reasons for such persons to be employed in the work comprised in the contract, the contractor if so directed, shall remove such person from employment within a reasonable time. Any persons so removed from the work shall be immediately replaced at the expense of the contractor by a qualified and competent substitute.
- 11.0 The contractor shall be responsible for the proper behavior of all the staff employed on the work and shall exercise a proper degree of control over them. In particular and without prejudice to the said generality, the contractor shall be bound to prohibit and prevent any employee from trespassing / action in any way detrimental or prejudicial to the interests of the community or of the Institute of all consequent claims or actions for damages or injury whatsoever. The decision of the Institute upon any matter arising under this clause shall be final binding on the contractor.
- 12.0 Payment, due to the contractor, under contract shall be made by the Institute by account payee cheque under acknowledgement. The contractor shall present the bill duly pre-receipted on proper revenue stamp. All efforts shall be made by the Institute to make the payment within 10 working days.
- 13.0 Payment of final bill shall be made to the contractor within 30 days from the expiry / termination of the contract, provided:

- i) It is accompanied with the wage register for the entire period of contract, duly authenticated by the controlling officer or his authorized representative.
- 14.0 No person below the age of 18 (eighteen) years shall be employed on the work. Similarly no women staff shall be employed since the duty involves working in odd hrs.
- 15.0 The contractor shall not pay to persons engaged by him on the work, less than minimum wages prescribed by labour commissioner (central), Kanpur from time to time.
- 16.0 If the prescribed minimum wages are revised by the Labour Commissioner (Central), the contractor shall revise the wages of the workers accordingly. The difference in minimum wages, with respect to the wages applicable in the month of October 2019 + 7.5% shall be reimbursed to the contractor in addition to the contract amount.
- 17.0 The contractor shall, at their own expense, comply with all labour laws and keep the Institute indemnified in respect thereof.
- 18.0 The contractor shall be registered with Regional Labour Commissioner (Central) and obtain license as per contract labour Act. 1976, within a reasonable time.
- 19.0 The contractor shall be solely responsible as regards to payment of wages / salary, service conditions and terms & conditions of employment. In this connection he shall maintain requisite records and comply with all laws / enactment's, rules, regulations and orders applicable to the contractor's employees in general and in particular laws / enactment's, rules & regulations & orders dealing with employment of contract labour, payment of minimum wages, fire & safety regulations, security arrangements and such other rules & regulations as may be applicable at present or made applicable hereafter.
- 20.0 Drinking liquor within the Institute campus is strictly prohibited. Violation of this rule by the employees of the contractor shall render them liable for prosecution as per law and automatically disqualify them from deployment on the work
- 21.0 The Institute shall not be liable for any damage or compensation payable in respect of or in consequence of any accident or injury to any person in the employment of the contractor, save and except an accident or injury resulting from any act or default of the Institute. The contractor shall indemnify and keep indemnified the Institute against all such damage and compensation whatsoever in respect of or in relation there to.
- 22.0 The contractor's staff not be treated as the Institute staff for any purpose whatsoever. The contractor shall be responsible for strict compliance of the statutory provisions of relevant labour laws applicable from time to time, in carrying out the service contract. The Institute shall not be liable to any penalty for which the contractor is responsible under the law. However if the Institute is forced to pay any cost of any nature on account of contractor's liabilities, the said cost shall be recovered from the payments due to the contractor.
- 23.0 The contractor shall be responsible for fulfilling the requirement of all statutory provisions of relevant enactment's viz minimum wages Act payment of wages Act, Industrial Dispute Act, Contract Labour (Regulation & Abolition) Act and all other

labour & industrial enactment's at their own risk and cost in respect of all staff employed by them. The Institute shall be indemnified for any action brought against it for any violation / non-compliance of any of the provisions of any of the Acts etc. The contractor shall maintain all records required to be maintained under the statutory enhancements. The controlling officer shall be entitled to inspect all such records at any time.

- 24.0 The workers shall report to Contractor and register their daily attendance and same the attendance copy submitted to Concerned Engineer.
- 25.0 The value of work shall be inclusive of the wages of the workers & supervisor, cost of tools and implements i/c contingent expenditure incidental to the work etc. Nothing extra shall be payable in addition to the monthly value of the contract except.
- i) The difference in minimum wages applicable to the labour are revised by Govt. of India, subsequent to the date of submission of tender shall be paid by the contractor to the labour and reimbursed by the institute on production of claim. Profit shall be paid on this claim.
  - ii) The contribution of EPF& ESIC by the contractor shall be reimbursed on production of the receipt of deposit of the same in the office of competent authorities. Administrative expenses deposited by the contractor shall not be reimbursed.
- 26.0 Taxes & Duties:
- i) The No other tax is payable other than GST (Goods and Service Tax). The GST shall be as applicable to IIT Kanpur as per Government rules.)
  - ii) Income tax shall be deducted as per Government law.

**PROPOSAL FOR Annual maintenance contract (AMC) of 2x750 KVA, 5x500 KVA, 6x320 KVA, 4x250 KVA, 1x200 and 1x50 KVA DG sets installed at different substations in campus. (19 DG Sets)**

**SCOPE OF WORK**

1. Contractor shall be responsible for the servicing and maintenance of these DG sets and their AMF panels, LT panel located at different locations in the campus.  
2x750 KVA DG set at SS#9, 4x500 KVA & 3x320 KVA at DG H.No.4 (near nursery), 1x500 KVA at SS#2, 3x320 KVA at DG H.No.1, 3x250 KVA at SS#3, DG H.No.1, Microscope lab & Hall-XII and 1x200 KVA at RA Hostel and 1x50 KVA multistory apartment.
2. The contractor shall abide by all the necessary requirements of labour laws & minimum wages acts while engaging the staff for servicing and maintenance of DG sets.
3. In the scope of maintenance of DG sets the following routine & regular works are covered and it includes the supply of the following maintenance materials/spares.
  - i. Checking, cleaning and general maintenance of engine and alternator on regular basis to keep the machines always in ready & fit condition.
  - ii. Checking, tightness and providing & replacing of 'V' belts, rubber hoses and gaskets etc. as and when required.
  - iii. Cleaning and providing & replacing of fuel filters, lubricant oil, lubricant oil filters & air-filters twice in year (before completion of 6 months)
  - iv. Maintenance of alternator including checking, cleaning, tightness of connections & lubrication of bearings etc as reqd.
  - v. De-scaling of water cooling system from time to time to maintain the efficiency of DG sets as per directions of engineer-in-charge (twice in year before the completion of 6 months).
  - vi. To keep all batteries in charged condition including checking of distilled water level and topping of distilled water, maintenance of connectors & terminals and providing and replacing of terminal connectors as and when reqd.
  - vii. To clean and maintain the cooling tower or the radiators as the case may be including its fan, 'V' belts, motor, pump, electrical, starter and pipe lines etc.
  - viii. To maintain all the indications/interlocks for high temperature or low lub. etc.
4. Initial charges of lubricants and distilled water shall be supplied by the Institute and any topping up or replacement required during the period of maintenance shall be covered in the scope of work of contractor.
5. HSD (High Speed Diesel) shall be procured by IIT Kanpur; however the contractor shall provide sufficient man power for bringing the HSD and should always maintain its record & a reasonable stock in the DG set room.
6. Servicing and maintenance of AMF panels and LT panels installed in the DG room this include cleaning of panels, repairing all the indicating lamps & pumps in perfect working order, tightening of all the cable connections etc. as reqd.

7. Any spare parts not covered above shall be supplied by the institute free of cost. Rewinding of motor/alternator if required but not caused by negligence of operator shall be arranged by the institute.
8. Any modification work or major overhauling as & when required for DG sets will be done by the institute.
9. The contractor shall be responsible for any damage caused due to negligence of the operator.
10. The contractor shall have to maintain proper log book on the prescribed form and shall make the records available for inspection to the Institute, whenever it is so desired. Monthly consumption of HSD shall be submitted by the contractor.
11. The contractor shall be responsible to maintain proper discipline of the operating staff in the DG house in the discharge of their duties. However Institute shall have the right to ask any of the operating staff to leave the premises if in the opinion of the Institute the conduct/behavior and activity of the individual concerned is subversive and not in the interest of the Institute.
12. The contractor shall also ensure that there should not be any shortage of operating staff in any shifts as indicated above for maintenance of the DG sets.
13. The schedule of preventive maintenance of DG sets and its accessories shall have to be prepared and submitted to Executive Engineer (Elect)/ Superintending Engineer well in advance so that shutdown program can be issued for maintenance.
14. The payment against maintenance during the contract period of one year shall be made against monthly running bills equivalent to 1/12 of the accepted amount for AMC.
15. It shall be responsibility of the contractor to supply adequately trained manpower necessary for the maintenance. There shall be one person (1 no. operator) in the DG house round the clock for seven days a week and one mechanic / operator in general shift for loading unloading of diesel for all DG sets in different locations. The contractor shall be responsible for all the requirements of labour laws or any other laws governing such deployment. If any violation is noticed any time the contractor shall be solely responsible.
16. There shall be a penalty in case of short supply of manpower. A penalty of Rs.150.00 per man shift shall be liable in case there is a shortage of manpower for more than 5 man shifts a month and this penalty shall increase to Rs.300.00 per man shifts if the shortage is more than 30 man shifts a month. In case the situation does not improve the contract shall be rescinded.
17. Only the qualified and experienced staff for operation and maintenance of the DG set shall be engaged. The qualification and experience of the staff shall be as under:-

**Category**

**Qualification**

Service Engineer

Diploma/B.Tech with 4-5 years experience

18. Any other piece of work not specifically mentioned above but essential for the normal operation and maintenance of the DG set is also covered in the scope.
19. The contribution of EPF & ESI by the contractor shall be reimbursed on actual basis and production of the receipt of deposit of the same in office of competent authorities. Administrative expenses deposited by the contractor shall not be reimbursed.

24. Taxes & Duties:

- *The No other tax is payable other than GST (Goods and Service Tax). The GST shall be quoted separately.*
- Income tax shall be deducted as per Government law.

### **Special condition for Safety at the Work Site**

*The contractor will identify one of the supervisors for taking care of implementation of Safety systems.*

*The Contractor should follow the following General Guidelines governing the safety rules as laid down under:*

- 1. Smoking is strictly prohibited at workplace.*
- 2. Nobody is allowed to work without wearing safety helmet. Chinstrap of safety helmet shall be always on. Drivers, helpers and operators are no exception.*
- 3. No one is allowed to work at or more than three meters height without wearing safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level.*
- 4. No one is allowed to work without adequate foot protection.*
- 5. Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-coordinator insists eye protection has to be provided.*
- 6. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.*
- 7. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach to be ensured into every excavation.*
- 8. Adequate illumination at workplace shall be ensured before starting the job at night.*
- 9. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.*
- 10. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.*
- 11. Material shall not be thrown from the height. If required, the area shall be barricaded and one person shall be posted outside the barricading for preventing the tre-passers from entering the area.*
- 12. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.*



13. *All electrical connections shall be made using 3 or 5 core cables, having a earth wire.*
14. *Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.*
15. *A tools and tackles inspection register must be maintained and updated regularly.*
16. *Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work everyday.*
17. *All the unsafe conditions, unsafe acts identified by contractors, reported by site supervisors and / or safety personnel to be corrected on priority basis.*
18. *No children shall be allowed to enter the workplace.*
19. *All the lifting tools and tackles shall be stored properly when not in use.*
20. *Clamps shall be used on Return cables to ensure proper earthing for welding works.*
21. *Return cables shall be used for earthing.*
22. *All the pressure gauges used in gas cutting apparatus shall be in good working condition.*
23. *Proper eye washing facilities shall be made in areas where chemicals are handled.*
24. *Connectors and hose clamps are used for making welding hose connections.*
25. *All underground cables for supplying construction power shall be routed using conduit pipes.*
26. *Spill trays shall be used to contain the oil spills while transferring / storing them.*
27. *Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.*

*Superintending Engineer*

*(Signature of Contractor)*