

PART-A

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INFORMATION AND INSTRUCTIONS FOR BIDDERS FORE- TENDERING FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE

(Applicable for inviting open bids)

The **Executive Engineer (E), CPWD, Allahabad** on behalf of President of India invites online percentage rate e-tenders from approved and eligible contractors of CPWD in Building & Road category Class II and above, and contractor of Class III, IV & V of NR Region for the following work(s):

S. No.	NTT No.	Name of work and location	Estimated cost put to Tender	Earnest Money	Period of Completion	Last date & time of submission of bid, EMD, e-tender processing fee and other Document as specified in the bid document	Time & date of opening of tender
1	2	3	4	5	6	7	8
1	22/ACED/2026-27/Recall-I	SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.	Electrical:- Rs. 37,01,255/- Civil:- Rs. 2,18,621/- Total: Rs. <u>39,19,876/-</u>	Rs 78,398/-	05 Months	Upto 03:00 PMon 06.07.2026	At 03:30 PMon 06.07.2026

*** To be filled in by the Executive Engineer**

- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required. He should not have been debarred by the department on the last date for submission of bid.
- Information and Instructions for bidders posted on website shall form part of bid document.
- 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

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to be complied with and other necessary documents can be seen and downloaded from website **<https://etender.cpwd.gov.in> or www.cpwd.gov.in** free of cost.

4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Banker's Cheque or Fixed Deposit Receipts or/ and Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (**including NIT issuing EE/ AE**), CPWD and other documents as specified.
5. The contractors not registered on the website mentioned above, are required to get registered before and. 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 documents in the form of **JPG** format and **PDF** format.
9. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink color and the moment rate is entered, it turns sky blue.

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 bidder, rate of such item shall be treated as "**0**" (zero).

However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

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

- I. Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
- II. Receipt of Deposition of Original EMD.
- III. Enlistment Order of the Contractor in composite category /Building & Roads Category.
- IV. GST Registration Certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable then he shall scan and upload following under taking along with other bid documents. **“If work is awarded to me, I/We shall obtain GST registration certificate as applicable within one month, from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard”.**
- V. ERP Training certificate in compliance with Directorate O.M. No. DG/Enlist. Rules-2023/07 dated 12.01.2024.
- VI. Valid Email ID & Mobile Number on your letter Pad.

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RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No. / date)

Name of Work : **SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.**

NIT No. : **22/ACED/2026-27/Recall-I**

1. Estimated Cost : **Rs. 39,19,876/-**
2. Amount of Earnest Money Deposit : **Rs 78,398/-**

(In favour of Executive Engineer (E), ACED, CPWD, Allahabad)

3. Last date of submission of Bid : **06.07.2026**

-
1. Name of Contractor: #
 2. Form of EMD #
 3. Amount of Earnest Money Deposit #
 4. Date of submission of EMD #

.....

Signature, Name and Designation of EMD
Receiving officer (EE/AE(P)/AE/AAO) along with Officer stamp

- * To be filled by EE inviting tender.
To be filled by EMD receiving EE.

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CPWD-6 FOR e-Tendering

Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of Building & Road category Class II and above, and contractor of Class III, IV & V of NR Region of CPWD for the work of **SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.**

The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

- 1.1 The work is estimated to cost: **Rs. 39,19,876/-**-This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7** which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **05 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work "**A.N. Jha Hostel, University of Allahabad**" is available.

AND

The architectural and structural drawings shall be made available in phased manner, as per requirement of the same and as per approved programme of completion submitted by the contractor after award of work.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
6. 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.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e- Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer (E), ACED, CPWD, Allahabad**) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD

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receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance **may be deposited** in shape of Bank Guarantee of any commercial bank **having validity for six months or more from the last date of receipt of bids** which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the bid document shall be scanned and uploaded to the e-Tendering website within the period of bid submission. Further, certified copy of all the scanned and uploaded documents as specified in bid document shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose documents scanned and uploaded are found in order.

The bid submitted shall be opened at 03:30 PM on **06.07.2026**.

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
 - a. The bidder is found ineligible.
 - b. The bidder does not upload all the documents (including GST registration) as stipulated in the bid document.
 - c. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the bidder in the office of bid opening authority.
 - d. If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the subcontractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

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12. Description of the work is as follows: **Renovation of Auditorium at Harivansh Rai Bachchan Cultural Center, University of Allahabad, Prayagraj comprising of Architectural and interior planning, Wall Panelling, False Ceiling, Stage Flooring, Auditorium chairs etc. including Electrical Works comprising of Internal EI, DG set, Audio-Video System, Stage Lighting, VRF Air Conditioning, Fire Fighting etc. (Balance work)** 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 bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining cost of all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work at his own 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.
13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of Conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) 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 Central Public Works Department or in the Ministry of Urban Development. 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

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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.

18. **The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and ~~75 (seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system.~~** Further

- I. If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- II. If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- III. In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

19. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

- i. The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- ii. Standard **C.P.W.D. Form 7** or other Standard C.P.W.D. Form as applicable.

20. For Composite Bids.

- 21.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document will be fixed with respect to the combined estimated cost put to tender for the composite bid.

- 21.1.2 The bid 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 (**CPWD GCC Construction Works 2023** as modified and corrected upto Previous days of **last date of submission of tenders.**

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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.

- 21.1.3 The bidders must associate himself, with agencies of the appropriate class eligible to bid for each of the minor component individually.
- 21.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 21.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate **Part A** and **Part B** of the agreement. EE/DDH in charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.
- 21.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 21.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.
- 21.1.8 The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of minor component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of minor component(s).
- 21.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 21.1.10 The main contractor has to enter into agreement with contractor(s) associated by him for execution of minor component(s). Copy of such agreement shall be submitted to EE/DDH in charge of each minor component as well as to EE in charge of major component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.
- 21.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor.
- 21.1.12 A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.

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- 21.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.
22. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (**Phone no 0532-2408609, e-mail Id - eeacedcpwd.ah-up@gov.in**) or ERP helpline no. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

*** To be filled in by the Executive Engineer**

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GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

CPWD-7

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

(A) Tender for **SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.**

- (i) To be uploaded by **03:00 PM** hours **06.07.2026** at **www.cpwd.gov.in**
(ii) To be opened in presence of tenderers who may be present at **03:30 PM** hours on **06.07.2026** in the office of **Executive Engineer (E), Allahabad, CPWD, Prayagraj.**

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

We agree to keep the tender open for ~~thirty/forty five/sixty/ninety~~(30/45/60/90) days from the due date of its opening and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document or Division office of any Executive Engineer of CPWD. **(Strike out as the case may be).**

A copy of earnest money deposit receipt of prescribed amount deposited in the form of **Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee** (as prescribed) issued by a **Commercial Bank**, is scanned and uploaded **(strike out as the case may be)**. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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

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

Dated

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

*** To be filled in by the Executive Engineer.**

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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 President of India for a sum of `(Rupees.....).

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

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

For & on behalf of the President of India

Signature

Dated:

Designation

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PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)

SCHEDULE 'A'

Schedule of quantities (sheet attached)–Electrical

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General Conditions of contract (CPWD GCC EPC Projects 2022/GCC Maintenance Works 2023/GCC Construction Works 2023)	Applicable GCC is CPWD GCC Construction Works 2023 as modified and corrected upto previous days of last date of submission of tenders. (Whether or not all the amendments in the form of latest circular issued are duly signed and incorporated in this tender or contract document)
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Name of Work:	SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.	
Estimated cost of the work:	Electrical Work	Rs. 37,01,255/-
	Civil Work	Rs. 2,18,621/-
	Total	Rs. 39,19,876/-
Earnest money	Rs. 78,398/- (To be returned after receiving performance guarantee)	
Performance Guarantee	(a) 5% of the tendered value or Estimate Cost Put to Tender (ECPT) (whichever is higher) (b) Where the tender amount is less than eighty percent (80%) of the Estimate Cost put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.	
Security Deposit	2.5% of the tendered value of the work	

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

Officer inviting tender

**Executive Engineer (E),
Allahabad, CPWD, Prayagraj.**

Maximum percentage of quantity of items of work

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to be executed beyond which rates are to be determined in accordance with Clause 12.2.& 12.3

See below

Definitions:

2(vi) **Engineer-in-Charge**
For Electrical items of work **Executive Engineer, Allahabad, (E) C.P.W.D., Prayagraj or his successor thereof**

For Civil items of work **Executive Engineer, Allahabad, CPWD, Allahabad or his successor thereof.**

2(viii) Accepting Authority **Executive Engineer (E), Allahabad, CPWD, Prayagraj.**

2(x) Percentage on cost of materials and labour to cover all overheads and profits 15%

2(x)(b) **Standard Schedule of Rates:**

Electrical Items of Work: CPWD DSR (E & M) 2025 i/c GST & MR

Civil Items of Work: **As mentioned in civil part.**

2(xi) Department: Central Public Works Department

9(ii) Standard CPWD contract Form: Applicable GCC is **CPWD GCC Construction Works 2023** as modified and corrected upto previous days of last date of submission of tenders.
(Whether or not all the amendments in the form of latest circular issued are duly signed and incorporated in this tender or contract document)

- Clause 1**
- i) Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance **07**
 - ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period as provided in (i) above **03**

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Clause 2 Authority for fixing Compensation under Clause 2

**Superintending Engineer,
Allahabad, CPWD,
Prayagraj Or successor
thereof**

Clause 5 Applicable clause 5/Clause 5A

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start.

10 Days

Schedule of Mile Stone

S. No	Description of mile stone	Time allowed from date of start (in days/months.)	Amount to be withheld in case of non-achievement of milestone.
1	Submission of MOUs, TDS & GA drawing for all the services	30 Days	1% of accepted tendered amount.
2	Supply of Material	90 Days	2% of accepted tendered amount.
3	Installation, Testing, Commissioning & handing over	150 Days	1% of accepted tendered amount.

Note:- ~~For clarification of doubt; plinth level floor level 1, First floor floor level 2, Second floor floor level 3, and so on.~~

Time allowed for execution of work

05 Months

Authority to decide

- | | |
|---|--|
| (i) Authority to convey the decision of shifting of milestone and extension of time | Engineer-in-Charge of major component of work or successor thereof |
| (ii) Authority to decide rescheduling of milestone and extension of time | Superintending Engineer, Allahabad, CPWD, Prayagraj or his successor thereof |
| (iii) Shifting of date of start in case of delay in handing over of site | Superintending Engineer, Allahabad, CPWD, Prayagraj or his successor thereof |

PROFORMA OF SCHEDULES Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of Letter of intent.
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Part A	Portion without any hindrance	Entire	At the start of work
Part B	Portions with encumbrances (Land under cultivation)	-	-
Part C	Portions dependent on work of other agencies	-	-

Clause 6

Computerized Measurement Book: EMB

Mode of Measurement: EMB

Clause 7 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 **Rs. 8.00 Lacs**

Clause 7A Whether Clause 7A shall be applicable **Yes**

Clause 8 Competent Authorities to inspect and issue completion certificate Executive Engineer (E), Allahabad, CPWD, Prayagraj

Clause 10A List of testing equipment to be provided by the contractor at site lab. **As per list**

Clause 10 B (ii) Whether clause 10-B (ii) shall be applicable. **No**

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

Clause 11 Specification to be followed for execution of work:

As per CPWD Specification for electrical work specification Part-I Internal-2023, Part-II External-2023, Part-IV Sub-station 2013 with up to date amendments.

(i) Building information model (BIM) is applicable and BIM professional to be deployed by contractor **No**

Clause 12

12.2 (c) Deviation limit beyond which clause 12.2 (c) shall apply for building work. **100%**

i) Deviation limit beyond which clause 12.2 (c) shall apply for foundation work (**except items mentioned in earth work subhead in DSR and related items**) **100%**

ii) Deviation limit for items mentioned in earth work subhead of DSR and related items **100%**

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Clause 16 **Competent Authority for Deciding reduced rates:** **Superintending Engineer, Allahabad, CPWD, Prayagraj Or successor thereof.**

Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site. **As per attached**

Clause 19C Authority to decide penalty for each default. **Engineer-in-charge.**

Clause 19D Authority to decide penalty for each default. **Engineer-in-charge.**

Clause 19G Authority to decide penalty for each default. **Engineer-in-charge.**

Clause 19K Authority to decide penalty for each default. **Engineer-in-charge.**

Clause 25

- | | | |
|-------|---------------------------------|---|
| (i) | Conciliator | ADG(Lucknow)
or successor thereof |
| (ii) | Arbitrator Appointing Authority | Superintending Engineer, Allahabad,
CPWD, Prayagraj or successor thereof |
| (iii) | Place (Seat) of Arbitration | Prayagraj (U.P.) |

Clause 32 Requirement of Technical Representative(s) and Recovery Rate

Sl. No. of work (Rs. in Crore)	Requirement of Technical staff		Minimum experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
	Qualification	Number (of Major + Minor Component)			Figures	Words
More than 50 to 100	Graduate Engineer	1	20 (and having experience of one similar nature of work)	Project manager	Rs. 60,000/- per month	Rs. Sixty Thousand per month
	Graduate Engineer	1	12 (and having experience of one similar nature of work)	Deputy Project Manager	Rs. 40,000/- per month	Rs. Forty Thousand per month
	Graduate Engineer Or Diploma Engineer	1+1	5 Or 10 respectively	Project / Site Manager	Rs. 25,000/- per month	Rs. Twenty Five Thousand per month

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	Graduate Engineer	1+1	8	Quality Engineer	Rs. 25,000/- per month	Rs. Twenty-Five Thousand per month
	Diploma Engineer	1	8	Surveyor	Rs. 15,000/- per month	Rs. Fifteen Thousand per month
	Graduate Engineer	1+1	6	Project Planning/ Billing Engineer	Rs. 20,000/- per month	Rs. Twenty Thousand per month
More than 20 to 50	Graduate Engineer	1	20 (and having experience of one similar nature of work)	Project Engineer	Rs. 60,000/- per month	Rs. Sixty Thousand per month
	Graduate Engineer	1	12 (and having experience of one similar nature of work)	Deputy Project Manager	Rs. 40,000/- per month	Rs. Forty Thousand per month
	Graduate Engineer Or Diploma Engineer	1+1	5 Or 10 respectively	Project / Site Manager	Rs. 25,000/- per month	Rs. Twenty-Five Thousand per month
	Graduate Engineer Or Diploma Engineer	1+1	2 Or 5 respectively	Project Planning/ Quality/ Billing Engineer	Rs. 15,000/- per month	Rs. Fifteen Thousand per month
More than 10 to 20	Graduate Engineer	1	10 (and having experience of one similar nature of work)	Project Manager	Rs. 30,000/- per month	Rs. Thirty Thousand per month
	Graduate Engineer Or Diploma Engineer	1	5 Or 10 respectively	Project / Site Manager	Rs. 25,000/- per month	Rs. Twenty-Five Thousand per month
	Graduate Engineer Or Diploma Engineer	1+1	2 Or 5 respectively	Project Planning/ Quality/ Billing Engineer	Rs. 15,000/- per month	Rs. Fifteen Thousand per month
More than 5 to 10	Graduate Engineer	1	5 (and having experience of one similar nature of work)	Project Manager	Rs. 25,000/- per month	Rs. Twenty-Five Thousand per month
	Graduate Engineer Or Diploma Engineer	1+1	2 Or 5 respectively	Project Planning/ Quality/ Site/ billing Engineer	Rs. 15,000/- per month per person	Rs. Fifteen Thousand per month per person

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More than 1.5 to 5	Graduate Engineer Or Diploma Engineer	1+1	2 Or 5 respectively	Project Manager cum Planning/ Quality/ Site/ billing Engineer	Rs. 15,000/- per month	Rs. Fifteen Thousand per month
More than 15 lacs to 1.5 crore	Graduate Engineer Or Diploma Engineer	1 of major component	2 Or 5 respectively	Project Manager cum Planning/ Quality/ Site/ billing Engineer	Rs. 15,000/- per month	Rs. Fifteen Thousand per month

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause 38

i) a) Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2021 printed by C.P.W.D.

ii) **Variations permissible on theoretical quantities**

- | | | |
|----|---|---------------------|
| a) | Cement for works with estimated cost put to tender not more than Rs. 25 lakhs. | As per Civil |
| | For works with estimated cost put to Tender is more than Rs. 25 lakhs | As per Civil |
| b) | Bitumen all works | As per Civil |
| c) | Steel reinforcement and structural steel Sections for diameter, section and category. | As per Civil |
| d) | All other materials | As per Civil |

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GENERAL REQUIREMENTS FOR THE TENDER

Name of Work: **SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.**

- 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 **05 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 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.
 - a. The contractor (s) shall make his own arrangements for electricity and water required for the execution of work.
 - b. **Cement, steel reinforcement, all the material required shall be arranged by the contractor himself.**
 - c. Contractor has to deploy required Plant and machinery on the project. **Minimum number of plant and machinery to be deployed by him.** 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.
 - d. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time.

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PART-B

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ANNEXURE**Clause- 10 –A & 18****List of mandatory machinery, tools and plants & testing Equipment to be deployed by the contractor at site**

1.	Steel/Aluminium Ladder 1.5 m to 8 m.	2 Nos.
2.	Chase cutting machines.	2 Nos.
3.	Electrical wire drawing equipment.	2 Set.
4.	Torque wrench for nut/bolt/screws.	2 Nos.
5.	Conduit die set.	2 Set.
6.	Pipe vice.	1 No.
7.	Bench vice.	1 No.
8.	L.T.Megger 500/1000 volts.	1 No.
9.	Tong Tester.	1 No.
10.	Multimeter.	1 No.
11.	Hydraulically operated & hand operated crimping machine.	1 No.
12.	Earth tester.	1 No.
13.	Portable Ordinary drilling machine.	2 Nos.
14.	Portable Hammer drilling machine.	2 Nos.
15.	Overhead conduit puller.	1 No.

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Eligibility condition for Associate agency for execution of work

1. The tenderer should either himself meet the eligibility conditions for execution of component of E&M work i.e. (i/c specialized E&M) Works or otherwise he will have to associate with specialized agencies, fulfilling the eligibility requirements prescribed in the tender document.
2. In case the main contractor is himself eligible (as per eligibility criteria) for executing all or some components of E&M work and intends doing job himself, he may not be required to associate with another agency for such components of E&M work of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component(s) within one month of award of work or 15 days before start of electrical related work whichever is earlier.
3. In case, the main contractor himself is not eligible (as per eligibility criteria) for executing any of the components of E&M work, he can directly procure the equipment of approved make from OEM and get it installed from authorized agency/service provider of the OEM or specialized agency as per criteria mentioned for associate eligible agency.
4. In case the main contractor himself is not eligible (as per eligibility criteria) and also not willing to directly procure the equipment as per para above, he will have to associate with him eligible agencies for doing such components of E&M work of work. In such cases the main contractor has to submit proposal for approval of associate agency along with documents in support of fulfilling eligibility criteria mentioned for associated agency of individual E&M components within one month of award of work or 15 days before start of electrical related work whichever is earlier.
5. In the event of the associated E&M agency not performing satisfactorily or failure of associate agency to complete the E&M work, the main contractor on written directions of the department, shall remove the Associate agency deployed on the work and shall submit proposal for approval of new associate agency without any loss of time or variation in cost to the department. Such new associate agency shall also give an undertaking along with the main tenderer that both of them shall guarantee for the equipment already supplied for which payment has been released by the department in part. If any equipment supplied for the work, during the currency of the earlier associate agency and paid partly by the department, becomes redundant /not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be responsible for replacement of the equipment(s) at no cost to the department. No change of associate agency will be allowed without prior approval of the Engineer-in-charge of the work.
6. The main contractor shall be responsible and liable for proper and complete execution of the Electrical work and ensure coordination and completion of both civil and electrical work.
7. The associate contractor shall attend the inspection of the work by the Engineer-in- charge of E&M works as and when required.

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PROPOSAL FOR ASSOCIATING AGENCY FOR E&M WORKS

I/we hereby propose the following agency for execution of E & M work component mentioned herein. Consent Letter from the proposed associated agency is enclosed.

- (i) **Name of work:** SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.
- (ii) Component of E&M Work :
- (iii) Name of Associated Agency :
- (iv) Details of Enlistment :
- (v) Category and Class of Enlistment :
- (vi) Monetary limit of work in Enlistment :
- (vii) Validity of Enlistment :
- (viii) Copy of Enlistment Order attached : (Yes /No)
- (ix) Copy of electrical contractor license attached: (Yes /No)
- (x) Copy of completion certificates of similar work experience attached: (Yes /No)
- (xi) Copy GST Registration attached : (Yes/No)
- (xii) Copy PAN Card Attached : (Yes/No)
- (xiii) Consent Letter of agency attached : (Yes/No)

Encls: Self Attested photocopies of as stated above

Seal & Signature of the Main Contractor

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Eligibility criteria for main contractor /associated agency for Sub-station works:

The associate specialized agency should have successfully completed works, as mentioned under during last 7 years ending previous day of last date of submission of tender.

- (i) *Three similar works each costing not less than 40% of estimated cost of relevant subhead put to tender.*

OR

- (ii) *Two similar works each costing not less than 60% of estimated cost of relevant subhead put to tender.*

OR

- (iii) *One similar work costing not less than 80% of estimated cost of relevant subhead put to tender.*

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 previous day of last date of submission of tender.

Similar work shall mean works of “SITC of Sub-station/HT equipment’s”.

However, the main contractor shall also be eligible to carrying out this work himself without associating any agency provided he fulfills the prescribed eligibility criteria respectively for this work.

“HT license of staff executing the work shall also be submitted”

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ON 100 Rs. STAMP PAPER
MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN

Component of E&M WORK:-----

- 1] M/S [Name of the firm with full address]
 Enlistment Status
 Valid Upto:
 [Henceforth called the main contractor]

And

- 2] M/S [Name of the firm with full address]
 Enlistment Status
 Valid Upto:
 [Henceforth, called Associated Contractor]

Name of Work:- *SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.*

NIT No. -

Whereas the main contractor has agreed to entrust the above work only to the associated contractor.

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of this agreement for execution of the above work only in respect of this work. Both of us shall be responsible for the execution of above work as per the agreement to the extent this MoU allows. In case of any delay in the payment by the main contractor, the associated contractor can apply to the CPWD to release the payment under Clause 7B and deduct the same from the bills of the main contractor. In case of any dispute, either of us will go for mediation by the CE or SE (as the case may be) and his decision shall be final and binding on both of us.

We have further agreed as under:

1. The Associated Contractor will execute above work as per terms and conditions of this agreement.
2. All the machinery and equipment, tools and tackles required for execution of the above work, as per this MoU, shall be the responsibility of the Associated Contractor.

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3. The site staff required for the execution of above work shall be arranged by the Associated Contractor as per terms and conditions of this MoU.
4. All the correspondence regarding execution of the above work shall be done by the department with the main contractor. In case of non-compliance of the provisions of agreement of the work by the associated contractor, the main contractor shall be held responsible and action will be taken against him as per agreement provisions.
5. In case of non-performance, associated contractor will be debarred from participation or association in the CPWD tenders by the CPWD.

(Authorized Signatory)

SIGNATURE OF MAIN CONTRACTOR

Date :

Place :

1. Witness with address

(From main contractor side)

(Authorized Signatory)

SIGNATURE OF ASSOCIATED
CONTRACTOR

Date :

Place :

1. Witness with address

(From associated contractor side)

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WILLINGNESS CERTIFICATE

Name of Work:- SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.

I hereby give my willingness to work as associated contractor for the above mentioned work.

I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer-in-charge. Also I will employ full time technically qualified supervisor for the works. I will attend inspection of officers of the department as and when required.

Date:

Signature of Contractor

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} Nil

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**(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit /performance Guarantee/Security
Deposit/Mobilization Advance**

1. Whereas the Executive Engineer..... (name of division)..... CPWD on behalf of the President of India (hereinafter called "The Government,") has invited bids under.....(NIT number)..... dated for..... (name of work) The Government has further agreed to accept irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)*..... as **Earnest Money Deposit** from (name and address of contractor)(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

- Whereas the Executive Engineer(name of division) CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing numberwith(name and address of the contractor)..... (hereinafter called "the Contractor") for execution of work..... ... (name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto..... (date).....**as Performance Guarantee/security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of the bank)..... (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs..... (Rupees only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of the Bank)....., do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupeesonly)
4. We, (indicate the name of the Bank) , further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, (indicate the name of the Bank)further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. We,(indicate the name of the Bank)....., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

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8. We,(indicate the name of the Bank).....undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up tounless extended on demand by the Government. Notwithstanding any mentioned above, our liability against this guarantee is restricted to Rs.(Rupees.....only) if unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.....

Witnesses:

- | | | |
|----|------------------------------------|--|
| 1. | Signature.....
Name and address | Authorized signatory
Name
Designation
Staff code no.
Bank seal |
| 2. | Signature.....
Name and address | |

*Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.

** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.

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Terms & Conditions

Specification:- The work shall be executed as per CPWD's general specification for Electrical Works part-I (Internal)-2023, Part-II (External)-2023, Part-IV (Sub-station)-2013, IE Rules, Indian Standards amended upto date and as per direction of Engineer-in-Charge. The additional specifications are to be read with above and in case of any variations; specifications given along with the tender shall apply.

Location:- The work is to be executed at **A.N. Jha Hostel, University of Allahabad**. The Contractor is advised to visit the site before submission of their tender.

The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.

No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

RATES

The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including works contract tax, VAT, labour cess, GST & service tax), duties levies, octroi etc. and all charges for packing, forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary construction of storage, risks, over head charges, general liabilities /obligations and clearance from CEA. However, the

fee for the CEA inspections shall be borne by the department.

The department will not issue Octroi exemption certificate.

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

STORAGE AND CUSTODY OF MATERIALS

The transformer rooms & HT panel rooms, if available, may be used for storage of sundry materials and erection equipments or else the agency has to make his own arrangements. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

COMPLETION PERIOD

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

Power supply

Responsibility for supply of power for execution of work shall be of main contractor.

Water supply

Responsibility for supply of water for execution of work shall be of main contractor.

TERMS OF PAYMENTS

The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein.

70% after initial inspection and delivery at site in good condition on pro-rata basis.

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20% after completion of installation in all respects.

Balance 10% will be paid after testing, commissioning & handing over to the department for beneficial use.

COMPLETENESS OF TENDER

All fittings, unit assemblies accessories, hardware foundation bolts, terminals blocks for connections, cable glands and miscellaneous materials and accessories of items of work which are useful and necessary for efficient assembly and working of the equipment shall be deemed to have been included within the scope of the work in the tender and within the overall details for complete item whether they have been specifically mentioned or not.

CARE OF BUILDINGS

Care shall be taken, while handling/ installing the equipment to avoid damage to the building. On completion of the installation, the contractor shall arrange to repair all damages to the building caused during plant installation so as to bring to the original condition. He shall also arrange to remove all unwanted waste materials from substation room and other areas used by him.

DATA MANUALS AND DRAWINGS TO BE FURNISHED BY CONTRACTOR

After Award of Work

The contractor shall submit the following drawing within a fortnight of the award of the work or as specified in tender document which shall prevail, for approval by the department.

- (i) General arrangement or location drawing of the equipment complete with dimensions and clearances.
- (ii) Details of foundations for the equipments and the weights of assembled equipments.
- (iii) General arrangement drawing of H.V. Panel, Transformers, M.V. panels, Earthing, Cable route etc. including details of grouting of channels / bolts of various equipments.
- (iv) All panels' schematics & wiring diagram including control wiring.
- (iv) Bar chart indicating general programme for supply, installation, testing and commissioning and handing over.
- (v) Any other drawing or data that may be necessary for the job.

Before Commencement of Installation

The contractor shall also furnish 3 copies of detailed installation, operation and maintenance manuals of manufacturers for all items of equipment together with all relevant data sheet, spare parts catalogues, repairs, assembly and adjustment procedure etc., in triplicate.

EXTENT OF WORK

The scope of work shall consist of cost of all materials, labour i/c supervision, installation, calibration, adjustments as required for commissioning of the sub-station. The term complete installation shall mean, not only, major item of the plant and the equipments covered, but also, incidental sundry components necessary for complete execution and satisfactory performance of installation with all labour charges, whether or not specifically mentioned in the tender documents, which shall be provided by the contractor at no extra cost.

In addition to supply, installation, testing and commissioning of sub-station equipments, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a trunk job:

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- (a) Minor building works necessary for installation of equipments, foundation, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.
- (b) All supports for overhead bus ducts, cables and MS channels for erection of panels & transformers etc. as are necessary.
- (c) Testing of PTs/ CTs for metering & protection purpose & relay calibration & setting.
- (d) Getting CEA inspection done & obtaining approval for energizing the installation. However, necessary fees for inspection shall be borne by the Department.

CONFORMITY WITH STATUTORY ACTS, RULES, REGULATIONS, STANDARDS AND SAFETY CODES

Indian Electricity Act and Rules

All electrical works in connection with installation of electric sub-stations shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and the Indian Electricity Rules, 1956 amended upto date. Wherever I.E. rule numbers have been indicated, they are based on I.E. Rules, 1956 amended upto date.

CPWD Specifications

The electrical works shall also conform to CPWD General Specifications for Electrical Works Part I (Internal) 2023 and Part II (External) 2023 as amended upto date wherever relevant and applicable.

Indian Standards

The sub-station equipments and their installation shall conform to relevant Indian standards.

Other Acts and Rules

The installation shall also comply with the following:-

- (i) Factories Act wherever applicable.
- (ii) Any other Act or Rules in force.

Safety Codes and Labour Regulations

In respect of all labour employed directly or indirectly on the work, the tenderer, here in after called the contractor, at his own expense will arrange for the safety provision outlined in section 9 of PART-IV SUB STATIONS to comply with the statutory regulations, ISI recommendations and CPWD codes.

In case of default, the department shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor. The contractor shall provide necessary barriers warning signals and other safety measures to avoid accidents. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect.

Nothing in these specifications shall be construed to relieve the contractor of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with applicable statutory regulations and safety codes in force from the safety angle.

WORKS TO BE DONE BY THE CONTRACTOR

In addition to supply, installation, testing and commissioning of all equipments as per schedule of work .the following work shall be deemed to be included within the scope of work, to be executed by the contractor.

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- (i) All minor building works, such as equipments foundation if required cutting and making good holes, grouting of channels belts as required. Cutting and making good damages etc.
- (ii) Provision of supports / clamps for equipments, cables etc. wherever required.
- (iii) Small wiring, inter-connection etc. inclusive of all materials and accessories, necessary to comply with the regulations as well as proper and trouble free operation of the equipment.
- (iv) Closing of the cable entry points in sub-station against seepage of water, rodents etc.
- (v) Tools and tackles required for handling and installation.
- (vi) Necessary testing equipments for commissioning.
- (vii) Watch and Ward of materials and/or installation and equipments till their handing over to the department.

INSPECTION OF SITE AND COLLECTION OF DATA

The contractor shall be deemed to have examined the tender documents, detailed specification, data etc. and to have visited the site or ascertained all relevant details for offering suitable equipments/ installation.

INTER CHANGEABILITY

All similar equipments, materials, removable parts of similar equipments etc. shall be inter changeable with each other.

INTERFERENCE WITH COMMUNICATION EQUIPMENT

Suppressors or other protection devices shall be provided, if required as per schedule of quantities, wherever the sub-station installation is likely to interfere during the operation with any other electric or electronic equipment.

QUALITY OF MATERIALS AND WORKMANSHIP

All parts of equipment shall be of such design, size and material so as to function satisfactorily under all rated conditions of loading and operation. All components of the equipment shall have adequate factors of safety. Materials/components which are not conforming to standards laid down by Bureau of Indian Standards (BIS) shall be got approved from the department before use on the work.

The entire work of fabrication, assembly and installation shall conform to sound engineering practice and on the basis of "fail safe" design. The mechanical parts subject to wear and tear shall be of easily replaceable type.

The construction shall be such as to facilitate ease of operation, inspection, maintenance and repairs. All apparatus shall also be designed to ensure satisfactory operation under working conditions as specified.

INSPECTION AND TESTING

All major equipments i.e. HT panel, RMU, transformers, bus duct, LT panel etc. shall be offered for initial inspection at manufacturers works. The contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The successful tenderer shall give advance notice of minimum two weeks regarding the dates proposed for such tests to the department's representative to facilitate his presence during testing. The Engineer-in-charge may witness such testing. The cost of the Engineer's visit to the factory will be borne by the department. Equipments will be inspected at the manufacturer/Authorised dealers premises, before dispatch to the site by the contractor if so desired by the Engineer-in-charge.

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Copies of all documents of routine and type test certificates of the equipment, carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee. After completion of the work in all respects the contractor shall offer the installation for testing and operation.

TEST CERTIFICATE

Copies of all documents for routine, acceptance and type test certificates of the equipment carried out at the manufacturers premise shall be furnished to the department along with supply of the equipment.

DISPATCH OF MATERIALS AND STORAGE

The contractor shall commence work as soon as the drawings submitted by him are approved. The contractor should dispatch all materials to site in consultation with the department where suitable storage accommodation may be made available to him temporarily. For this purpose the programme of dispatches of materials shall be framed keeping in view the building progress so that suitable storage accommodation could be made available to the contractor. Safe custody of all machinery and equipment supplied by the contractor shall be his own responsibility till the final taking over by the CPWD.

COORDINATION WITH OTHER AGENCIES

The contractor shall coordinate his work and cooperate with other agencies by exchange of all technical information like details of foundation if required, weight, over all dimensions, clearance and other technical data required for successful and proper completion of his portion of the work in relation to the work of others without any reservation. No remuneration should be claimed from the department for such technical cooperation. Care shall be taken not to damage the water proofing done in the case of substations constructed below ground level. If any unreasonable hindrance is caused to other agencies and any completed portion of the works has to be dismantled and redone for want of the cooperation and coordination by the contractor during the course of work, such expenditure incurred will be recovered from the contractor during the course of work, if the restoration work to the original condition of specification of the dismantled portion of the work was not under taken by the contractor.

PAINTING AND PROTECTION

All damages to painting during transport and installation shall be set right to the satisfaction of the department before handing over. All structural frame work for support of various items of equipment shall be given the final coat of paint of approved shade at site after erection is complete.

Additional protection measures against corrosion shall be provided when installed in special environment.

COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS

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

- (i) Factories Act.*
- (ii) Indian Electricity Rules.*
- (iii) B.I.S. & other standards as applicable.*
- (iv) Workmen's Compensation Act.*

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(v) Statutory norms prescribed by local bodies like CEA, Power Supply Co., etc.

After completion of the installation, the same shall be offered for inspection by the representatives of the Central Electricity Authority. The contractor will extend all help including test facilities to the representatives of CEA & will obtain NOC from CEA. The observations of CEA will be attended by the contractor. The installation will be commissioned only after getting clearance from CEA.

Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tender liable for penalty of Rs.15000/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

INDEMNITY

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

ERECTION TOOLS

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

MOBILIZATION ADVANCE

No mobilization advance shall be paid for this work.

INSURANCE AND STORAGE

All consignments are to be duly insured upto the destination from warehouse at the cost of the contractor. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

VERIFICATION OF CORRECTNESS OF EQUIPMENT AT DESTINATION

The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.

TRAINING

The scope of works includes the on job technical training of two persons of department at site. Nothing extra shall be payable on this account.

MAINTENANCE

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Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of one year from the handing over of the installation. The maintenance, routine as well as preventive, for one year from the date of taking over the installation as per manufacturers recommendation shall be carried out on quarterly basis.

INTERPRETING SPECIFICATIONS

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

- (a) Schedule of quantities*
- (b) Technical specifications*
- (d) General specifications*
- (e) Relevant BIS or other international code in case BIS code is not available.*

COMPLETION DRAWING

Three sets of completion drawings comprising the following shall be submitted by the contractor while handing over the installation:

- (a) Equipments layout drawing(s) giving complete details of the entire equipments.*
- (b) Electrical drawings for the entire electrical equipments showing cable sizes, equipment capacities, switch-gear's ratings, control components, control wiring etc.*
- (c) Schematic diagram of the entire sub-station installation.*

FINAL INSPECTION AND TESTING

When the installation is complete, the contractor shall arrange for inspection and testing of the installation. Test results obtained shall be recorded. The installation shall not be accepted until it complies with the requirement of these Specifications. The Sub Station installation shall be got inspected by the contractor from local licensee and/or CEA and their clearance taken before energizing the Sub Station. All the observations/ deficiencies pointed out by the inspecting authorities shall be complied with by the contractor on priority.

The department shall render all help and pay mandatory charges to CEA and local licensee, if any, in this regard.

DATE OF ACCEPTANCE

The contractor shall operate the sub station for a period of fifteen days after it is energized. The date of taking over of the sub station shall be reckoned after its trouble free operation during the running in period.

GUARANTEE

The contractor shall guarantee the entire sub-station installation as per specifications. All equipments shall be guaranteed for one year from the date of acceptance against unsatisfactory performance or break down due to defective design, manufacture and installation. The installation shall be covered by the conditions that whole installation or any part there of found defective within one year from the date of taking over shall be replaced or repaired by the contractor free of charge as decided by the department.

The warranty shall cover the following:-

- (a) Quality, strength and performance of the materials used as per manufacturers' standards.*
- (b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.*
- (c) Satisfactory operation during the maintenance period.*

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AFTER SALES SERVICES

The contractor shall ensure adequate and prompt after sales services in the form of maintenance personnel and spares as and when required with a view to minimizing the break down period. Particular attention shall be given to ensure that all spares are easily available during the normal life of installation.

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**FROM OF APPLICATION BY THE CONTRACTOR FOR SEEKING
RESCHEDULING OF MILESTONES**

[Refer Clause 5.3]

1. Name of contractor
2. Name of work as given in the agreement
3. Agreement No.
4. Estimated amount put tender
5. Date of commencement of work as per agreement
6. Period allowed for completion of work as per agreement
7. Date of completion stipulation in agreement
8. Rescheduling of milestones done previously

Milestone No. Already Rescheduled	EE's Letter No. and Date	Rescheduling Of Milestones Done	
		Original Date	Rescheduled Date
(A) 1 st Milestone			
(B) 2 nd Milestone			

Rescheduling of Milestone applied for

Milestone No. For Which Rescheduling is Applied	Original/Rescheduled Date	Details And Period of Hindrances	Comments of Executive Engineer	Proposed Rescheduled Date of
(A) 1 st Milestone				
(B) 2 nd Milestone				

Submitted to the Sub-Divisional Officer

Signature of Contactor

Dated

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Schedule of Work**Name of Work-** SITC of 2 No. 11 KV RMU at A.N. Jha Hostel, University of Allahabad, Prayagraj.

Sl No.	Description of Item	Qty.	Unit	Rate	Amount	DSR 2025/ MR
1	Supplying, installation, testing and commissioning of 11 KV, 630 Amps having short circuit capacity 21kA/3-sec, SF-6 gas insulated, Non-Extensible, Outdoor (IP54), RMU (Ring main unit) 5-way comprising of 02 Nos motorized Load Break Switch with interlock between both incomers and 03 Nos 630 Amp Fixed-Type motorized spring-charging VCB as outgoing electrolytic grade copper busbars all inside, gas-filled, robotically welded stainless steel 304 (Non Ferrite Non Megnetic Grade) tank with min. thickness 3+0.5 mm, IP 67 Degree of Protection, internal-arc classified 21kA for 1sec for cable box and tank both, on-site-repairable with site replacable bushing/ mechanism, gas refilling etc.The unit shall have a leakage rate less than 0.1% per year and should have provision of from cable entry for ease of installation. RMU should be complete with accessories such as terminal boots,VPIS, cable supports front cable termination mechanical indication ON/OFF, manometer further the enclosure shall have padlockable double-door access with anti-theft hinges, fully covering the front facia and cable boxes to ensure fail-safe anti-theft protection. Make of Vacuum Interrupter and Make of RMU shall be same. The unit shall include the following along with all necessary accessories and fittings complete etc as required at site.					
	<u>(A) 02 Nos. Incoming Load Break Switch module each consisting of following accessories :-</u>					
	(i) Each switching-unit is designed as a three position switch. This three function switch combines the functions of switch-disconnector and earthing switch.					
	(ii) 12V, 630A Load Break Switch with interlocked line-earthing scheme both short circuit current - 21kA/3-sec, Making Capacity - 50kAp -01 No					
	(iii) Auxiliary contacts - 1NO + 1NC-01 No					
	(iv) Spring-assisted snap-action motorised mechanism with un-inhibited operating shaft for emergency manual operation with integrated earthing switch -01 No					

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(v) Cable terminals (site replacable Cable bushings situated not beyond 300mm from cable-cover to allow ease of access for installation/testing/replacement purposes) with double-door arrangement for enhanced safety (IP54+IP3X) interlocked to prevent access upto 11 KV , 120 Sqmm , 3 Core , XLPE AL cable termination in live-condition. Each Set of 03					
(vi) Right angle boots (push on type)-Each Set of 03					
(vii) Arc proof cable covers having cable entry from bottom , front with Interlocking mechanism including earth switch -01 No					
(viii) Capacitive voltage indication fixed type system as per IEC62271-206 with LED - 01 Set					
(ix) Fault Passage Indicator - It is to be provided for each incomer load break unit, FPI with LED/digital display to be added for detection of cable fault-01 No					
(x) ON, OFF, EARTH mechanical indication on the front mimic of the panel - 01 No					
<u>(B) 03 Nos. Outgoing VCB module each consisting of following accessories :-</u>					
(i) Each function-unit consists of a vacuum-circuit breaker in combination with a three position-switch. The three-position-switch fulfills the operation of the disconnecter-function and earthing function.					
(ii) 12kV, 630A Fixed-Type VCB module with series disconnecter cum earthing switch of short circuit breaking current/withstand - 21kA/3-sec, Making Capacity - 50kAp-01 No					
(iii) Aux. contacts - 1NO+1NC-01 No					
(iv) Stored-energy motorised high-endurance spring charging mechanism (M1+), with inbuilt spring-charging lever and mechanically latched ON/OFF push-buttons to allow handle-less and un-inhibited operation -01 No					
(v) Cable terminals (site replacable Cable bushings situated not beyond 300mm from cable-cover to allow ease of access for installation/testing/replacement purposes) with double-door arrangement for enhanced safety (IP54+IP3X) interlocked to prevent access upto 11 KV , 120 Sqmm , 3 Core, XLPE AL cable termination in live-condition. Each Set of 3					
(vi) Right angle boots (push on type)-Each set of 3					
(vii) 3O/C + 1E/F self powered numerical protection relay with Low and High set for Over current and Earth Fault. Relay should have facility to display the maximum loaded phase current also. Relay shall record minimum 5 fault records with time stamping. Relay shall be communicable with RS 485 Port on MODBUS Protocol-01 No					
(viii) Associated ring-core cast-resin insulated CTs 50/1 Amp , 2.5 VA, 5P10 for protection - Each Set of 3					

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	(ix) Arc proof cable covers with self Interlocking mechanism with earth switch -01 No					
	(x) Capacitive voltage indication fixed type system as per IEC61243 with LED -01 No					
	(xi) Push button for breaker trip					
	(xii) Shunt trip coil 24V DC - 01					
	(xiii) ON, OFF, TRIP mechanical indication on the front mimic of the panel - 01.					
	(xiv) Emergency Trip Push Button - 01.					
	(xv) Vacuum circuit breaker with high mechanical endurance of 10000 operations (M2 Class)					
	(xvi) To ensure reliability of operation Vacuum interrupter shall be of same make as Ring Main Unit.					
	<u>(C) Additional equipment delivered separately or mounted separately :-</u>					
	(i) Operating Handle for Manual Isolator/Disconnect/Earthing Operation-02 Nos					
	(ii) Manometer with green and red zone for indication pressure of SF- 6 Gas inside the tank fitted on RMU - 01 No					
	(iii) Operation and Maintenance Manual -01 No					
	(iv) Installation & Commissioning Manual -01 No					
	(v) Cable clamping provision (standard) -01No					
	(vi) Battery and battery charger (I/P- 230 Volt, AC, O/P 24 Volt DC.					
	<u>Note:-</u>					
	(i) RMU shall have Electrical & Mechanical interlocking between both incomer load break switch modules.					
	(ii) Above switchgear shall confirm to relevant IEC (62271-200) for design, manufacturing and internal arc compliance. Any claims towards internal arc compliance, number of mechanical/electrical/short-circuit operations, gas-leakage rates etc. shall not be accepted unless proven via type-test reports of model being offered.					
	(iii) Construction of suitable foundation of RMU shall be in scope of contractor and shall constructed as per OEM foundation and GA drawing shall be approved by Engineer-in-charge.	2	Each	1477078.00	29,54,156.00	AR
2	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as required.	2	Set	15004.00	30,008.00	5.6
3	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	40	Metre	2245.00	89,800.00	5.20

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4	Providing and laying of insulating mats for electrical purposes ISI Mark, thickness should be 2.5 mm and 1 Mtr x1 Mtr wide, 15 KV dielectric strength as per confirming to latest IS: 15652:2006, black of red complete etc as required.	10	Sqm	1872.00	18,720.00	MR
5	Supplying and installing at approved location approved make fire buckets (4 No.) of 24 gauge galvanized steel sheet conforming to IS: 2546, standard 9 litre capacity and of round bottom shape, painted white inside and red outside and black on the bottom, inscribed with letters "FIRE" in black and gold. Cost shall be inclusive of providing MS stand duly painted over a coat of primer.	2	Set	7567.00	15,134.00	MR
6	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enamelled white on both sides, and with inscription in single red colour on front side as required	4	Each	340.00	1,360.00	2.22
7	Providing & fixing ABC Type, Portable Fire Extinguisher, dry powder type (Stored Pressure type) Capacity 06 Kg duly ISI marked conforming to IS: 15683:2018, with IS 4308, ISI marked ABC powder complete with squeeze grip release valve, discharge pipe, locking arrangement, pressure gauge, operation manual and bracket. Operating Temperature: -30°C to + 60°C, CI bracket for wall mounting etc as required.	2	Each	3283.00	6,566.00	MR
8	Providing and fixing 4.5 kg Carbon Dioxide (Co2) type Fire Extinguisher conforming to IS : 15683 with high pressure discharge hose with cylinder initially fully charged with ISI marked on surface of wall with required accessories such as wall suspension bracket etc. as required.	2	Each	7836.00	15,672.00	MR
9	Supplying of following size 1 No. PVC/XLPE insulated power cable of 11 KV grade earthed HT cable: Stranded compact circular aluminium conductor, conductor screened with extruded semi conducting compound, XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape, 0.3 KA for one sec cores laid up, inner sheath of PVC tape galvanised steel flat strip armoured and overall PVC sheathed cable conforming to IS 7098 part-II 85 with latest amendments.					
9.1	3x 240 Sq. mm.	120	Metre	4017.00	4,82,040.00	MR
10	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					

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10.1	Above 120 sq. mm and upto 400 sq. mm	86	Metre	170.00	14,620.00	22.3.2
11	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct/ pole as required.					
11.1	Above 120 sq. mm and upto 400 sq. mm	34	Metre	146.00	4,964.00	22.4.2
12	Supplying and making indoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.					
12.1	240 sq. mm	2	Set	4144.00	8,288.00	23.1.3
13	Supplying and making outdoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.					
13.1	240 sq. mm	2	Set	7010.00	14,020.00	23.2.3
14	Supplying and fixing of light class G.I. pipe of 100 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required	2	Each	5231.00	10,462.00	13.39
15	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required					
15.1	120 mm dia (OD-120 mm & ID-103 mm nominal)	85	Metre	417.00	35,445.00	15.16.3
				Total-	37,01,255.00	

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PREFERRED MAKES OF MATERIALS FOR E & M

Sl.	Details of Materials/ Equipment	Manufacturer's Name
	I.E.I, MCBDB & MCB, Cables and Wires	
1	MCB, Isolator, Industrial plug Socket, RCCB, RCBO's (ISI Marked/IEC Compliant)	Schneider Electric ACTI-9(N)/ Legrand (DX3)/ LK (Formerly L&T) (Exora)/ ABB (SB200M)/Siemens (Betaguard)/Havells
2	MCBDB & Loose Wire Box	Schneider Electric (Acti-9)/ LK(Exora)/Siemens/ ABB (Elegance)/ Havells/ Legrand (Ekinox)
3	Change Over Switch	LK/ Havells/ Hager/ C&S/ Schneider
4	Automatic Transfer Switch (ATS)	Socomac/Hager/ABB/ LK/Schneider/Siemens
5	FRLS PVC insulated copper conductor single core cable for wiring. (ISI marked)	Finolex/ RR Kabel/ Havells/ Polycab/ KEI/Grandlay
6	Armoured/Unarmoured Telephone cable, Coaxial Cable	Delton/ Finolex/ RR Kabel/ Havells/ Grandlay
7	MS Conduit (ISI marked) with heavy duty MS conduit pipe accessories	BEC/NIC/AKG/RMCON/JPC (Note: The make of accessories shall be same that of conduit pipe and will comply to IS/4768 part 2 2003)
8	PVC conduit (ISI marked) with heavy duty PVC conduit pipe accessories	AKG/ Norpack/BEC/Polypack/Precision/Anchor/ Polycab
9	Modular switches, socket/ telephone socket/ cable TV socket/ data outlet socket/ fan regulator/ GI boxes etc (Wiring accessories)/ regulators/ Motor starter etc.	Legrand / Schneider electric / Honeywell /Havells / ABB / LK (Formerly L&T)
10	Industrial Socket	L&T/Legrand/Schneider/Havells/ABB
11	Selector Switch & Toggle Switch	Salzer (L&T)/ Siemens/ Kaycee/Rishabh/ABB
12	PVC Trunking	MK/ Schneider Electric/ Legrand/OBO
13	GI Pipe	Tata/ Jindal (Hissar)/ Prakash Surya
14	Paints	Nerolac/ Asian/ Berger
15	Terminal Blocks & Connectors	Elmax/Wago/Hensel/Connectwell
16	Phenolic Laminated Sheet/ Bakelite sheet	Hylam/ Formica (P-I Grade)/ Mylam/Greenlam
17	Cat-6 Cable, Co-Axial cables, Telephone Wires & cable	Amp, Avaya/ Beldon/ Legrand/ Molex/ Schneider/ Comscope/ D-Link
	Fans & Fittings	
1	LED Fittings (ISI Marked/BEE Certified)	Wipro/ Phillips/ Havells/Trilux/Lighting Technology/Crompton
2	Exhaust fan/Fresh Air Fan	Havells/Crompton greaves/USHA/ Bajaj
3	Ceiling Fan ISI Marked/BEE Certified)/Wall Fan	Havells/ Crompton Greaves/ USHA/Bajaj
4	Wall Bracket Fitting	Havells/ Decon / Phillips/Lighting Technology/ Luster/ Jaquar/Anchor Panasonic/ Orient Electric/Halonix/Crompton
5	Geysers (BEE Certified)	Racold/CG/Havells/Usha/ Bajaj

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	Street Lighting	
1	LED post Top fitting	Wipro/ Phillips/ Havells/ Lighting Technology/Trilux /Crompton
2	LED Street light fitting	Wipro/ Phillips/ Havells/ Lighting Technology/Trilux /Crompton
3	LED street lights with inbuilt Solar panel and controller	Wipro/ Phillips/ Havells/ Lighting Technology/Trilux /Crompton
4	Ornamental MS & G.I pole (factory finish)	Keselec Schreder- Ecopole3m ATG in GI with base plate/ Valmont / Wipro/ Phillips/ Crompton greaves/ Bajaj/Paruthi Engineers Pvt. Ltd./ Luster/Twinkle
5	Hot Dipped Galvanized Octagonal Pole (Factory finish)	Valmont/ Wipro/ Phillips/Crompton Greaves/Bajaj/ Paruthi Engineers Pvt. Ltd.
6	Polycarbonate Junction Box/ Enclosure	Hensel/ Spelsberg/ Naptune-Bals/OBO
7	XLPE Insulated PVC Sheathed Alum./ Copper Conductor Armored Cable of 1.1KV Grade	Finloex/ RR Kabel/KEI/Havells/Polycab/Grandlay
	Sub Station Equipments	
1	LT panel/ Meter Panel Board/ Outdoor Feeder Pillar/APFC panels / Bus ducts	Tricolite Electrical Industries/ C&S/ Sterling & Wilson/ MILESTONE/ Adlec Control System Pvt. Ltd./ Advance Panels & Switchgears Pvt. Ltd./ Associated Switchgears & Projects Ltd/ Allied Engineers/ Pristine/ SPC Electrotech Pvt. Ltd. /ASES/Shalabh/ R P Control/Excel Control System/Asian Switchgear Pvt. Ltd./Precision System Control
2	SMDB	Schneider Electric ACTI-9(N)/Legrand/LK(FORMERLY L&T)(ENERSYS-S)/ABB(Elegance)/Siemens
3	Air insulated Rising Main/ Bus Trunking & accessories	C&S/ L&T/Schneider/Legrand/ABB/Siemens
4	Sandwich type bus Trunking/ Rising Main & accessories	C&S/ L&T/Schneider/Legrand/ ABB/Siemens
5	Moulded Case Circuit Breaker (MCCB) Thermal Release/ Microprocessor Based (Ics=Icu=100%)	Schneider electric NSX series/ Legrand (DPX3)/ L&T(D-Sine)/ABB(T-Max)/Siemens(VL series)
6	Power/ Aux. Contactor 3/4 Pole	Schneider Electric/ Legrand/Hager/L&T/ ABB/ Siemens /C&S
7	Potential transformers/ Current Transformers	Automatic Electric/ Gilbert & Maxwell/ Matrix/ Precise/ L&T/ Kappa
8	LED Type Indicating Lamps/ Push button	Schneider electric /L&T / Siemens/C&S/Vaishno/ABB
9	Over load relays	Schneider Electric/ L&T/ Siemens/C&S/ABB
10	Conventional/Electronic Digital Meters (A/V/PF/Hz/KW/KWH)	Conzerv/ L&T/ Secure/ AE/ C&S
11	Timer	Schneider Electric/ Legrand / Hager / L&T/ABB/Siemens/C&S
12	Fasteners/ GI Clamps	Hilti/ Fisher/ Chilli / GMGR
13	D.W. Corrugated HDPE Pipe (ISI Marked)	REX/ Duraplast/ Duraline
14	Transformer (Oil/ Dry pipe)	Crompton/ ABB/ Schneider/VOLTAMP/Siemens

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15	HT Panel/ 11 KV Ring main Unit/Vacuum Circuit Breaker/Load Break Switch	Crompton/Siemens/ ABB/ L&T/ Schneider
16	H.T. Cable (ISI marked)	Finloex/ RR Kabel/KEI/Havells/Polycab
17	HT End Termination/Cable Jointing Kit	Reychem/ Denson/ Cab Seal/safekei/3M
18	ACBs with Display	Schneider Electric(Masterpact)/Legrand(DMX3MP4)/L&T (U-Power-OMEGA)/ABB(Emax)PR122/Seimens
19	Rubber mat	Jyoti/ Deep Jyoti/ Premier (Duly ISI Marked)
20	Ammeter	Rishabh/ L&T/AE/C&S
21	Voltmeter	Rishabh/ L&T/AE/C&S
22	Capacitor and Reactors /APFC Relay	EPCOS/ L&T/ DUCATI/ ABB/ Siemens/ Schneider
23	XLPE Insulated PVC Sheathed Alum./ Copper Conductor Armored/ Unarmored Cable of 1.1KV Grade	Finloex/RR kabel/KEI/ Havells/Polyacab/ Grandlay
24	Cable Glands Double Compression With Earthing Links	Baliga Lighting/ Comet/ Cosmos/ Dowells/Gripwell
25	Bimetallic Cable Lug	Comet/ Dowells (Biller India)/ Hex Brass (Copper Alloy India) / Jainson/ Action
26	MS/ GI Cable Tray	Pilco/slotco/pasco/MEM/ BEC/ steelways/ Legrand/ RMcon/True leader/R.P. Controls/OBO
27	Programmable Logic Controller (PLC)	Siemens/ Allen Bradley/ L&T/ ABB/Schneider
	Fire Fighting Equipments	
1	Fire Extinguisher (ISI marked)	Lifeguard/Ceasefire/Minimax/Safex/ Kanex
2	Fire Bucket	Ceasefire/Newage/Safex/Minimax/Kanex

Note: Any item not mentioned in the make list shall be approved by Engineer-in-charge.

C= }
I= } Nil
O= }

AE(P)(E)