



**GOVERNMENT OF INDIA  
CENTRAL PUBLIC WORKS DEPARTMENT**

**Notice Inviting e-tenders**

**The Executive Engineer (E), Mumbai-II (MCED-IV), CPWD, B wing, 2nd Floor, New Office Building, CGS Colony, Sector-7, Antop hill, Mumbai-37,** e-mail ID [eeemced4@rediffmail.com](mailto:eeemced4@rediffmail.com) on behalf of President of India invites online ~~Item~~ ~~rate/~~ percentage rate tenders from Single Bid system from Approved and Eligible Contractors of CPWD Enlisted in Composite (Building and Road) Category for executing the following work:

**NIT No.:- 41/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27**  
**Name of Work :- (1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans & fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai. (2) Providing & fixing of LED Flood Lights in Gymnasium at ICAR- CIFE, New Campus, Mumbai. (SH : Various E&M works).**  
**Estimated Cost:- ₹ 12,02,795.00**  
**Earnest Money:- ₹ 24,056.00**  
**Period of Completion:- 03 Months (Three Months)**  
**Last Time and Date of Submission of Bid:- 29/05/2026 at 15:00 Hrs**

The tender forms and the other details can be obtained from the website [www.etender.cpwd.gov.in](http://www.etender.cpwd.gov.in) or [www.eprocure.gov.in](http://www.eprocure.gov.in)

**Executive Engineer (E)  
For & On Behalf of President of India  
Mumbai-II (MCED-IV), CPWD, Mumbai**

## INFORMATION AND INSTRUCTION FOR BIDDER FOR e-TENDERING

**The Executive Engineer (E), Mumbai-II (MCED-IV), CPWD, B wing, 2nd Floor, New Office Building, CGS Colony, Sector-7, Antop hill, Mumbai-37** e-mail ID [eeemced4@rediffmail.com](mailto:eeemced4@rediffmail.com) on behalf of President of India invites online ~~Item~~ ~~rate/percentage rate~~ tenders from Single Bid system from Approved and Eligible Contractors of CPWD Enlisted in Composite (Building and Road) Category for executing ~~and those of appropriate list of M.E.S., BSNL, Railway and ..... State P.W.D. (B&R) or State Govt.'s Department ..... dealing with building and roads, if there is no State PWD (B&R), (strike out as the case may be) the~~ following work(s):

S. No.	NIT No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Period of Completion	Last date & time of submission of bid, <b>original EMD, copy of receipt for deposition of original EMD</b> , and other document as specified in the press notice	Time & date of opening of bid
1	2	3	4	5	6	7	9
1	<b>41/EE(E)/Mumbai-II (Firstwhile MCED-IV)/2026-27</b>	<b>(1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans &amp; fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai. (2) Providing &amp; fixing of LED Flood Lights in Gymnasium at ICAR-CIFE, New Campus, Mumbai. (SH : Various E&amp;M works).</b>	<b>Rs. 12,02,795.00</b>	<b>Rs. 24,056.00</b>	<b>03 Months (Three Months) .</b>	<b>Upto 03:00 PM. On 29/05/2026</b>	<b>03:30 PM. On 29/05/2026</b>

- The intending bidder must read the terms and condition of CPWD-6 carefully. He should only submit his bid if he consider himself eligible and he is in possession of all the document required.
- Information and instruction for bidders posted on website shall form part of the 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 to be complied with and other necessary documents can be seen and downloaded from website [www.etender.cpwd.gov.in](http://www.etender.cpwd.gov.in) or [www.eprocure.gov.in](http://www.eprocure.gov.in) free of cost.

4. 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. (The EMD document shall only be issued from the place in which the office of receiving division office is situated)** and uploading the mandatory scanned documents such as Demand draft or pay order or Banker's cheque or deposit at call Receipt of Fixed Deposit Receipts and bank guarantee of any scheduled 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, CPWD** and other document as specified.

**The contractor already registered on the e-tendering portal will have option to continue by paying tender processing fee upto one year from the date of registration, or to switch over to new registration without tender processing fee any time. All new registration from 01/04/2015 will be without tender processing fee.**

5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online tendering process as per details available on the website. The intending bidder must have valid class-III digital signature to submit the bid.
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 yellow color and the moment rate is entered, it turns sky blue.
10. 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".
11. 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).
12. SC/ST contractor enlisted under class V category are exempted from processing fee payable to ITI.
13. Bidder is requested to carry out a physical survey at site to get familiar with system installed at site no hindrance shall be given at site on these grounds.

**Eligibility Criteria / Experience of work:-**

**SH-A** -Approved and Eligible CPWD Enlisted Contractors in Composite (Buildings & Road) Category having Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class. **(Undertaking Form Enclosed.)** and duly registered with ESIC and EPFO Authorities shall be eligible to apply. Joint ventures are not accepted.

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

1. Demand Draft/Insurance Surety Bonds/ Pay order or Banker`s Cheque/ FDR of any Commercial Bank against EMD. **To be uploaded in the eligibility document section.**
2. Enlistment Order of the CPWD Contractor in Composite (Buildings & Road) Category. **To be uploaded in the eligibility document section.**
3. Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class. **Undertaking Form Enclosed.**
4. **GST Registration certificate and upto date file return of the state in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following under taking along with other bid documents. If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payment 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. To be uploaded in the eligibility document section.**
5. Registration certificate of EPFO, ESIC **to be uploaded in the eligibility document section.**
6. Copy of receipt for deposition of original EMD **(PROFORMA “A”)** to the division office of any Executive Engineer, CPWD **(The EMD document shall only be issued from the place in which the office of receiving division office is situated)** **To be uploaded in the eligibility document section.**
7. Certificate as per **PROFORMA “B”**.
8. **The training certificate of ERP issued through LMS portal of ERP which is imparted to the contractor should be scanned and uploaded with all other requisite documents or undertaking that contractor shall obtain certificate within 45 days from award of the work.**

**Assistant Executive Engineer (P) (E)  
Mumbai-II, CPWD, Mumbai.**

**Executive Engineer (E)  
Mumbai-II, CPWD, Mumbai.**

**Undertaking Form**

**UNDERTAKING FOR ASSOCIATING VALID ELECTRICAL CONTRACTOR LICENSE HOLDER**

- 1. Name of Work: **(1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans & fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai. (2) Providing & fixing of LED Flood Lights in Gymnasium at ICAR- CIFE, New Campus, Mumbai. (SH : Various E&M works).**
- 2. NIT No. **41/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27**
- 3. Estimated Cost. **Rs. 12,02,795/-**
- 4. Amount of Earnest Money Deposit Rs. **24,056/-**
- 5. Last date of submission of bids **29/05/2026** upto **3:00** PM.

**I undertake that I will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class after acceptance of tender along with Performance Guarantee otherwise department shall forfeit the deposited EMD absolutely & shall reject my/our tender and debar me/us from re-tendering for this work”**

**Signature :-.....**

**Agency Name :-.....**

**Agency Address :- .....**

**.....**

**.....**

## CPWD-6 FOR e-TENDERING

1. ~~Item rate/percentage rate tenders from Single Bid system from Approved and Eligible Contractors of CPWD Enlisted in Composite (Building and Road) Category for executing and those of appropriate list of M.E.S., BSNL, Railway and ..... State P.W.D. (B&R) or State Govt.'s Department ..... **strike out as the case may be**) dealing with building and roads, if there is no State PWD (B&R) for the work of **(1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans & fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai.**~~

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

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

- 1.1 The work is estimated to cost **Rs 12,02,795/-**. This estimate, however, is given merely as a rough guide.
- 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the tenders. He will also nominate Division which will deal with all matters relating to the invitation of tenders. For composite tender, besides indicating the combined estimated cost put to tender, should clearly indicates the estimated cost of each component separately. The eligibility of tenderer will correspond to the combined estimated cost of different components put to tender.
- 1.2 ~~Intending tenderer is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-~~

Criteria of eligibility for submission of tender documents

- ~~1.2.1 Conditions for Non-CPWD contractors only, if tenders are also open to non-CPWD contractors. For works estimated cost up to Rs. 15 Crore **( the figure of Rs. 15 Crore may be modified as per tendering limit of CPWD class I contractors of respective discipline such as Electrical, Horticulture and Furniture etc. as the case may be)**~~

~~Three similar works each of value not less than Rs. .... or two similar work each of value not less than Rs. .... or one similar work of value not less than Rs. .... (all figures rounded to nearest Rs.10 lac) in last 7 years ending last day of the month previous to the one in which the tenders are invited.~~

~~Note :-~~

~~For works costing above Rs. 3 Crore but up to Rs. 15 Crore, **( the figure of Rs.3 Crore and Rs. 15 Crore may be modified as per tendering limit of CPWD ss II and CPWD Class I contractors respectively of respective discipline such as Electrical, Horticulture and Furniture etc. as the case may be)** when tenders are open to non-CPWD contractors also, then class II contractors of CPWD shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

- ~~1.2.2 Criteria of eligibility for CPWD as well as non-CPWD contractors. For works estimated to cost above Rs. 15 Crore.~~

~~Three similar works each of value not less than Rs. .... or two similar work each of value not less than Rs. .... or one similar work of value not less than Rs. .... (all figures rounded to nearest Rs.10 lac) in last 7 years ending last day of the month previous to the one in which the tenders are invited.~~

~~The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of tender.~~

~~To become eligible for issue of tender, the tenderer shall have to furnish an affidavit as under :-~~

~~I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for 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. (Scanned copy to be uploaded at the time of submission of bid)~~

~~1.2.3 When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of clause 1.2.1 above, it will be mandatory for non CPWD contractors and CPWD class II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of clause 1.2.3.~~

~~But for such tenders, Class I contractors of CPWD are eligible to submit the bids without submission of work experience certificate and affidavit. Therefore, CPWD class I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.~~

2. Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website [www.cpwd.gov.in](http://www.cpwd.gov.in). Tenderer 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 **03 Months (Three Months)** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work is available.

OR

~~The site for the work shall be made available in parts as specified below:-~~

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 from website [www.etender.cpwd.gov.in](http://www.etender.cpwd.gov.in) or [www.cpwd.gov.in](http://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 tender 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 tender 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 tender submitted earlier shall become invalid.
9. Demand Draft/Insurance Surety Bonds/ Pay order or Banker's Cheque/ FDR of any Commercial Bank against EMD. (drawn in favour of **Executive Engineer(E), MCED-IV, CPWD, Mumbai-37.**) shall be scanned and uploaded to the e-tendering website within the period of bid submission. **The original EMD should be deposited either in the office of Executive Engineer inviting the bids or division office of any Executive Engineer, CPWD with the period of bid submission. (The EMD document shall only be issued from the place in which the office of receiving division office is situated). The EMD receiving Executive Engineer shall issue a receipt of disposition of earnest money deposit to the bidder in the prescribed format (enclosed) uploaded by tender inviting EE in the NIT.**

**This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.**

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for six month 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 press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. **However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of the tender opening authority.**

Online tender documents submitted by intending bidders shall be opened only of those bidders, **whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.**

The bid submitted shall be opened at 03:30 PM on 29/05/2026 .

10. **The Bid submitted shall become invalid and cost of bid & e-tender processing fee shall not be refunded if:**
  - i) The bidder is found ineligible.
  - ii) The bidder does not upload all the document (including GST registration) as stipulated in the bid document including the copy of receipt for deposition of Original EMD instrument.

- iii) If any discrepancy is noticed between the document as uploaded at the time of submission of bid and hard copies as submitted **physically by the lowest tenderer** in the office of the tender opening authority.
  - iv) **The lowest bidder does not deposit physical EMD within the prescribed time limit of opening of tender.**
11. The contractor whose tender is accepted, will be required to furnish performance guarantee of 5% (Five Percent) as per the latest circular dated 27/02/2026 within the period specified in Schedule F. This guarantee shall be in the form of Demand Draft/Insurance Surety Bonds/ Pay order or Banker's Cheque/ FDR of any Commercial Bank against EMD 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 with in the period specified in schedule F.**
12. Intending Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer 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 tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer 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 tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to 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 tender and the tenderer shall be bound to perform the same at the rate quoted.

16. The contractor shall not be permitted to tender 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 gazette 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 gazette rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.
18. The tender for the works shall remain open for acceptance for a period of ~~Fifteen/ thirty/ forty five/ sixty/ ninety (15/30/45/60/90)~~ days from the date of opening of tenders/~~Ninety days (90) from the date of opening of financial bid in case tenders are invited on 2/3 bid system / One hundred twenty days (120) from the date of opening of technical bid in case bids are invite on 3 bid system for specialized work (strike out as the case may be)~~ if any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.
19. This notice inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - b) Standard C.P.W.D. Form ~~7/8~~ or other Standard C.P.W.D. Form as mentioned
20. **For Composite Tenders**
- ~~20.1.1 The Executive Engineer in charge of the major component will call tenders for the composite work. The cost of tender document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite tender.~~

~~20.1.2 The tender document will include following three components:~~

~~Part A: CPWD 6, CPWD 7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2010 as amended/modified up to .....~~

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

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

~~20.1.3 The bidders must associate with himself, agencies of the appropriate class eligible to tender for each of the minor component individually.~~

~~20.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.~~

~~20.1.5 After acceptance of the tender 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. 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.~~

~~20.1.6 Entire work under the scope of composite tender including major and all minor components shall be executed under one agreement.~~

~~20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The Earnest Money will become part of the security deposit of the major components of work.~~

~~20.1.8 The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the tender 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).~~

~~20.1.9 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.~~

~~20.1.10 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.~~

~~20.1.11 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.~~

~~20.1.12 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~~

**21. 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 Executive Engineer (P) (E) (e-mail Id eeemced4@rediffmail.com) or ERF help line 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.**

**22. CPWD does not have its own fund. Payment will be done only after funds received from client.**

**GOVERNMENT OF INDIA  
CENTRAL PUBLIC WORKS DEPARTMENT**

**Percentage Rate Tender/~~Item Rate Tender~~ & Contract for Works Tender for the work of:- (1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans & fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai.**

- (i) To be submitted by 29/05/2026 at 15.00 hours on as per the NIT.  
(ii) To be opened in presence of tenderers who may be present at 15:30 hours on 29/05/2026 as per the NIT in the office of **Executive Engineer(Elect), Mumbai-II, CPWD, Mumbai-37.**

Issued to

Signature of officer issuing the document .....

Designation **Executive Engineer(Elect)...**

Date of Issue **20/05/2026**

**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 ~~Fifteen/thirty/ forty five/ sixty/ ninety (15/30/45/60/90)~~ days from the date of opening of tenders/~~Ninety days (90) from the date of opening of financial bid in case tenders are invited on 2/3 bid system / One hundred twenty days (120) from the date of opening of technical bid in case bids are invite on 3 bid system for specialized work~~ (strike out as the case may be) and not to make any modification in its terms and conditions.

A sum of **Rs. 24,056/-** is hereby forwarded in Demand Draft/Insurance Surety Bonds/ Pay order or Banker's Cheque/ FDR of any Commercial Bank against EMD. 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 earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. If I failed to execute the work after awarded or failed to submission of PG in time department can take action as per rules and regulation of department in time to time. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in CPWD in future as per latest circular Performance Guarantee.

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

**Dated:**

**Signature of Contractor**

**Witness:**

**Postal Address**

**Address:**

**Occupation:**

#### ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of the President of India for a sum of       Rs.       ...       ..... (Rupees .....).

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

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

**For & on behalf of President of India**

**Signature**

.....

**Dated:**

**Designation**

.....

**PROFORMA OF SCHEDULES****CPWD****PROFORMA OF SCHEDULES**

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)  
(Operative Schedules to be supplied separately to each intending tenderer)

**SCHEDULE 'A' AS PER SCHEDULE OF WORK ATTACHED**

Schedule of quantities (as per PWD-3)

**SCHEDULE 'B'**

Schedule of materials to be issued to the contractor.

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

**SCHEDULE 'C'**

Tools and plants to be hired to the contractor

S.No.	Description	Hire charges per day	Place of issue
1	2	3	5
	<b>NIL</b>		

**SCHEDULE 'D'**

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

**AS PER SHEET ATTACHED****SCHEDULE 'E'**

Reference to General Conditions of contract:- General Conditions of Contract 2023 (Maintenance work) CPWD-7/8 with up-to date corrections slip issued till last date of submission of bid.

Name of work:	<b>(1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans &amp; fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai. (2) Providing &amp; fixing of LED Flood Lights in Gymnasium at ICAR- CIFE, New Campus, Mumbai. (SH : Various E&amp;M works).</b>
(i) Estimated cost of work:-	<b>Rs. <u>12,02,795/-</u></b>
(ii) Earnest money:-	<b>Rs. <u>24,056/-</u></b>
(iii) Performance Guarantee:-	<b>@ 5 % As per the lates circular dated 27/02/2026</b>

(iv) Security deposit :-	@2.5% of Tendered value + Additional @2.5% for LED Items
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**SCHEDULE 'F'****GENERAL RULES & DIRECTIONS:Officer inviting tender: Executive Engineer(Elect), Mumbai-II,CPWD, Mumbai-37.**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3: See below under clause 12 of Schedule 'F'

**Definitions:**

- 2(v) Engineer-in-Charge Executive Engineer(Elect), Mumbai-II,CPWD, Mumbai-37 or success or thereof
- 2(viii) Accepting Authority As per delegation of Financial Power
- 2(x) Percentage on cost of materials and Labour to cover all overheads and profits: 15%
- 2(xi) Standard Schedule of Rates: DSR-2025 with upto date correction slips, MR
- 2(xii) Department : CENTRAL PUBLIC WORKS DEPARTMENT
- 9(ii) Standard CPWD Contract Form 7 for General Conditions of Contract for CPWD work –2023 with amendments issued

**Clause 1**

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. 7 Days

Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above. 7 Days

**Clause 2**

Authority for fixing compensation under clause 2: CE,Mumbai-I,CPWD,Mumbai or success or thereof

**Clause 2A**

Whether Clause 2A shall be applicable No

**Clause 5**

Number of days from the date of issue of letter of acceptance for reckoning date of start 10 days

**Clause 5.1**

Schedule of handing over of site:

**Site is available.**

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance	---	N.A
Part B	Portions with encumbrances	---	N.A
Part C	Portions dependent on work of other agencies	---	N.A

Schedule of issue of Designs

Part A	Portion of Design	Description	Time Period for issue of design reckoned from date of receipt of tenders.
Part B-1	Portion already included in NIT	Full	N.A
Part B-2	Portions of Architectural Designs to be issued	---	N.A
Part B-3	Portions of E&M Designs to be issued	---	N.A

**Table of Milestone (s)**

Sl. No.	Description of Milestone (Physical)	Time allowed for achieving in days (from date of start)	% Amount of tendered cost to be with-held in case of non-achievement of milestone
1	Submission of drawings, make & model along with datasheets	NA	---
2	Supply of material	NA	---
3	Installation of material	NA	---
4	Testing & commissioning	NA	---
5	Handing over	NA	---

Time allowed for execution of work:- **03 Months (Three Months)**

Authority to decide:

(i) Extension of time

Chief Engineer-MUMBAI-I, CPWD,  
MUMBAI or successor thereof

(ii) Rescheduling of mile stones      **Chief Engineer-MUMBAI-I, CPWD,  
MUMBAI or successor thereof.**

(iii) Shifting of date of start in case of delay in handing over of site      **Executive Engineer (E), MUMBAI--II, CPWD,  
or successor thereof**

**Clause 5.2**

Nature of Hindrance recording: As per GCC applicable.

**Clause 5.4**

Schedule of rate of recovery for delay in submission of the modified programme in terms of days.

S.N.	Contract Value	Recovery (in Rupees)
(i)	Less than or equal to Rs 1 Crore	500
(i)	More than Rs 1 Crore but less than or equal to Rs 5 Crore	1000
(ii)	More than Rs 5 Crore but less than or equal to Rs 20 Crore	2500
(iii)	More than Rs 20 Crore	2500

**Clause 6      Applicable**

**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. 4 Lakh**

**Clause 7A**

**Whether Clause 7A shall be applicable**

**Yes/No**

**Clause 8A**

Authority to decide compensation on account if contractor fails to submit completion plans

**Executive Engineer (E),  
MUMBAI--II, CPWD,  
MUMBAI or successor  
thereof**

**Clause 10A**

**Materials to be provided by the Contractor      Yes, applicable.**

**Clause 10B**

**Whether clause 10-B shall be applicable**

**No**

**Clause 10C**

**Component of labour expressed as percent of value of work: 25%**

**Clause 10CA : Not Applicable**

<i>Materials covered under this clause</i>	<i>Nearest material (other than cement, reinforcement bars and structural steel) for which All India Wholesale price index to be followed</i>	<b>Base price of all the materials covered under clause 10CA (excluding GST)</b>
<b>Not Applicable</b>		

Clause 10CC

**.....NOT APPLICABLE....**

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

Clause 11

Specifications to be followed: **C.P.W.D. General Specifications for PART-I (INTERNAL-2023) & PART-II (EXTERNAL-2023), HVAC-2024,PART-III 2003 (Lifts & Escalators), PART-IV 2023 (Substations), PART-V 2020 (Wet Riser & Sprinkler System), PART-VII 2013 (DG Set), PART-VIII-2013 (Gas Based Extinguishers) as amended upto date.**

**PROFORMA OF SCHEDULES**

**CPWD**

Clause 12 Type of Work

Maintenance work

Authority to decide deviation		
1. Upto 1.25 times of contract amount	:	Executive Engineer (E), MUMBAI—II, CPWD, MUMBAI or successor thereof
2. 1.25 to amount 1.50 time of Contract amount	:	Chief Engineer , MUMBAI-I, CPWD, MUMBAI or successor thereof
3. 1.50 to 2.0 times of contract amount	:	SDG (Mumbai) (in exceptional case)

**12.2.& 12.3 Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work. Deviation limit for all items **No Limit****

Clause 16

Competent Authority for deciding reduced rates **Chief Engineer- MUMBAI-1 CPWD, MUMBAI – 20** or successor thereof.

**Clause 18:**

**- Reqd. as per Scope of work–**

List of mandatory machinery tools & plants to be deployed by the contractor at site:	
<b>Clause 19:</b> Labour laws to be complied by the contractor:	<p>The contractor shall obtain a valid license under the Contract Labour (R&amp;A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971. The contractor shall also obtain a valid license under the said Act before the commencement of the work, and continue to have a valid license until its completion. The Contractor shall also comply with provisions of the Inter – State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.</p> <p>The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986.</p> <p>The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment &amp; Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.</p>

**Clause 19 L****Contribution of EPF and ESI**

The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The verification of deployment labour will be done through biometric attendance system or any other suitable method by the Engineer in Charge. The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order

**Clause 25: Settlement of Disputes by Conciliation an Arbitration:**

Sl. No	Description of DRC	
1.	Conciliator	SDG (Mumbai) or successor thereof
2.	Arbitrator Appointing Authority	Chief Engineer CPWD, MUMBAI-1 or successor thereof
3.	Place of Arbitration	Mumbai

**Assistant Executive Engineer (P) (E)**  
**Mumbai-II, CPWD, Mumbai.**

**Executive Engineer (E)**  
**Mumbai-II, CPWD, Mumbai.**

**PROFORMA "A"**  
**RECEIPT OF DEPOSITION OF ORIGINAL EMD**  
**(To be filled by the contractor / Firm at the time of Bid submission)**

(Receipt No. .... / Date .....) )

**1. Name of work :- (1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans & fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai. (2) Providing & fixing of LED Flood Lights in Gymnasium at ICAR- CIFE, New Campus, Mumbai. (SH : Various E&M works).**

**2. NIT No. :- 41/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27**

**3. Estimated Cost :- Rs. 12,02,795/-**

**4. Amount of Earnest Money Deposit :- Rs. 24,056/-**

**5. Last date of submission of bid :- 29/05/2026**

**6. EMD drawn in favour of Executive Engineer (E), MCED-IV, CPWD, Mumbai-37**

(To be filled by NIT approving authority/ EE at the time of issue of NIT and uploaded alongwith NIT)

**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)  
alongwith Office stamp

**PROFORMA “B”****CERTIFICATES :-**

1. The rates quoted are Net and inclusive of all duties, levies & taxes without any conditions. We understand that any condition in the price bid shall make the tender liable for cancellation.
2. I/we have inspected and examined the site and its surroundings is / are satisfied before submitting our bid 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 I/we may require and in general shall myself / ourselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid. I/we shall be deemed to have full knowledge of the site whether I/we inspect it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. I/we shall be responsible for arranging and maintaining at our own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents.
3. Submission of a bid by I/we implies that I/we have read this notice and all other contract documents and has made myself / ourselves 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 us by the Government and local conditions and other factors having a bearing on the execution of the work.
4. Certified that except for the departures brought down me / us, the tender complies with the BOQ-Schedule of work, Specifications and Terms & Conditions of the NIT in all respect.

**CONTRACTOR’S Signature with stamp of Bidder**

		<b>Central Public Works Department</b>				
<b>NIT No. 41/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27</b>		<b>SCHEDULE OF QUANTITY</b>				
<b>Name of work:-(1) Upgradation of IEI fans i/c providing and fixing various types of LED fittings, ceiling fans i/c dismantling of old fans &amp; fittings , switch/socket etc. of Library bldg. at CIFE New Campus Versova, Mumbai.</b> <b>(2) Providing &amp; fixing of LED Flood Lights in Gymnasium at ICAR- CIFE, New Campus, Mumbai. (SH : Various E&amp;M works).</b>						
S.No	Description of Items	Qty	Unit	Quoted rates are negative or positive	Rate in Figures in Rupees	Amount
1	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy $\geq 120 < 135$ lm/Watt) Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency $>85\%$ , Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range $-5^{\circ}\text{C}$ to $50^{\circ}\text{C}$ , internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $>85\%$ , THD $< 10\%$ as per IEC 61000-3-2, P. F. $\geq 0.95$ , IP-66,IK-10, CRI $>70$ , under voltage and over voltage protection, EMIEMC. As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT $3000^{\circ}\text{K} / 4000^{\circ}\text{K} / 5700^{\circ}\text{K} / 6500^{\circ}\text{K}$ (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) $<5$ , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated					

	copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 120 < 135$ lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
1.1	50 watt	59	Each	Normal Item	1,934.00	114106.00
1.2	150 watt	13	Each	Normal Item	3,443.00	44759.00
2	LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy $\geq 105 < 120$ lm/Watt). Supplying, Installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency $> 85\%$ , Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $> 85\%$ , THD $< 10\%$ as per IEC 61000-3-2, P. F. $\geq 0.95$ , IP-66, IK-10, CRI $> 70$ , under voltage and over voltage protection, EMI-EMC as per CISPR - 15, lenses for beam angle 30 deg-120deg as per the application and the project requirement., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K /4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) $< 5$ , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty.					

	System lumen efficacy $\geq 105$ <120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
2.1	50 watt	3	Each	Normal Item	1,436.00	4308.00
2.2	50 watt	9	Each	Normal Item	3,166.00	28494.00
3	Supply, installation, testing and commissioning of Direct-On-Line (DOL) starter control panel suitable for operating 7.5 HP, 415 V, 3-phase, 50 Hz horizontal open-well submersible pump, comprising powder-coated sheet steel dust and vermin proof enclosure (IP-54) with suitable TPN isolator/MCCB incomer, AC-3 duty contactor, thermal overload relay with adjustable current setting, single phasing preventer/phase failure relay with under/over voltage protection, control MCB, ammeter with CTs, voltmeter with selector switch, start and stop push buttons, power ON, pump ON and trip indicating lamps, copper busbars, internal control wiring with ferruling and terminal blocks, cable glands, earthing terminals and all necessary accessories, complete with interconnections, testing and commissioning for satisfactory operation of the pump as required.	15	Each	Normal Item	8,936.00	134040.00
4	Supply, installation, testing and commissioning of digital control panel for 1 HP, 230 V, single-phase, 50 Hz monobloc pump, comprising powder-coated sheet steel dust and vermin proof enclosure (IP-54) with suitable DP MCB/isolator as incomer, DOL starter with contactor, thermal overload relay/overload protection, single phase preventer/voltage protection relay, start and stop push buttons, power ON and pump ON indicating lamps, control MCB, internal wiring with ferruling and terminal blocks, cable glands, earthing terminals and all necessary accessories, complete with interconnections, testing and commissioning for satisfactory operation of the pump as required.	3	Each	Normal Item	2,919.00	8757.00

5	Supply, installation, testing and commissioning of LED bollard light fitting suitable for outdoor pathway/garden illumination, comprising die-cast aluminium or extruded aluminium housing with corrosion resistant powder coated finish, opal/clear polycarbonate diffuser, integral energy efficient LED light source of suitable wattage, IP65 or better protection, complete with driver, internal wiring, mounting base plate, foundation bolts, earthing arrangement, and connection with suitable size PVC insulated copper cable including all accessories required for proper installation, testing and commissioning as per site requirements.					
5.1	10 watt	20	Each	Normal Item	8,612.00	172240.00
6	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
6.1	12 way , Double door	1	Each	Normal Item	2,871.00	2871.00
7	Supplying and Fixing Following way, Horizontal Type Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).					
7.1	6 way (4 + 18), Double door	2	Each	Normal Item	5,299.00	10598.00
8	Supplying and fixing of following ways surface/ recess mounting, Vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer ) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) <b>(with provision for 160 Amp. TP MCCB as incomer but without MCCB)</b>					
8.1	4 way (4 + 12), Double door	1	Each	Normal Item	7,951.00	7951.00

9	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
9.1	Single pole	66	Each	Normal Item	285.00	18810.00
9.2	Double pole	1	Each	Normal Item	696.00	696.00
10	Supplying and fixing following rating, 415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
10.1	63 Amp Triple pole and Neutral	2	Each	Normal Item	3234.00	6468.00
10.2	63 Amp Triple Pole	4	Each	Normal Item	2651.00	10604.00
11	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel including drilling holes in cubicle panel, making connections, etc. as required.					
11.1	100 A, 30KA, FP MCCB	1	Each	Normal Item	8127.00	8127.00
12	Supplying of one number XLPE insulated and PVC sheathed armoured aluminium conductor power cable of 1.1 KV grade etc as required.					
12.1	3C x 6 sq. mm	100	Metre	Normal Item	268.00	26800.00
12.2	4C x 16 sq. mm	50	Metre	Normal Item	470.00	23500.00
12.3	4C x 35 sq. mm	100	Metre	Normal Item	798.00	79800.00
13	Supplying of one number XLPE insulated and PVC sheathed armoured copper conductor power cable of 1.1 KV grade etc as required.					
13.1	3C x 1.5 sq. mm	350	Metre	Normal Item	308.00	107800.00
14	Supplying and making end termination with brass compression gland and <b>copper lugs</b> for following size of PVC insulated and PVC sheathed/XLPE copper conductor cable of 1.1 KV grade as required.					
14.1	3 x 6 sq. mm (19mm)	2	Sets	Normal Item	356.00	712.00

15	Fabrication, supplying, installation, testing and Commissioning of flange mounted hot dip galvanized octagonal poles of minimum <b>5 mtr.</b> height made from 3 mm thick HT steel plate, having bottom dia. Of 130 mm & top dia. of 70 mm complete with window with flush cover at suitable height for cable termination block etc. & 4 nos. 20 mm dia. x 600 mm long GI foundation bolt with nuts, washer i/c with 4 nos.suitable dia holes matching galvanized base plate of size 200 mm x 200 mm x 12 mm thick erected on Reinforced Cement Concrete Foundation (Minimum 4 Nos. vertical bars of dia, length not less than 12 mm, 1400 mm respectively and 8 Nos. bars of dia, length not less than 8 mm, 1800 mm respectively) of (0.45m*0.45m*1.4m) and not less than 0.28 Cumecs with 1:2:4 (1Cement: 2Coarse Sand: 4Graded Stone of 20 mm nominal size) as per manufacturing standards having provision of minimum 63 mm OD DWC, HDPE Pipe for cable entry & Exit i/c. 3x1.5 Sq.mm. flexible copper cable FRLS for Termination of fittings from Junction Box to Fittings mounted on bracket, etc complete as required.					
	a) Supplying & Fixing 3 mm thick laminated mounted sheet inside the window mounted etc as reqd. (As per OEM)					
	b) Supplying & Fixing 6 Amp SPMCB 'C' curve -1 No. i/c P/F din channel of suitable length - 2 No., heavy duty bolt type connecter suitable for cable size upto 10 sq. mm. earth stud -1 No. welded at suitable height 1 No. washesr, spring washers & nuts.	8	Each	Normal Item	21958.00	175664.00
16	Providing and fixing GI Pole bracket on the pole with suitable size 4 nos. GI bolts. The bracket shall be approximately 1 Mtr long hot dip galvanized, Welded cap with following nos. of arms, made of approximately 40 mm nominal dia x 1000 mm long "B" class pipe, welded at reqd degree apart and over hung at 10 degree to horizontal, support with 3 mm thick MS FIN, suitable for mounting on top of pole as required.					
16.1	Single Arm	8	Each	Normal Item	2358.00	18864.00

17	Laying of one number PVC insulated and PVC sheathed / XLPE aluminium conductor armoured power cable of 1.1 KV grade of following size in the existing RCC/ HUME/DWC/HDPE/ METAL pipe as required.					
17.1	Upto 35 sq. mm	300	Metre	Normal Item	47.00	14100.00
18	Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required.	8	Each	Normal Item	3378.00	27024.00
19	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.					
19.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	300	Metre	Normal Item	289.00	86700.00
20	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
20.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	4	Cu. m.	Normal Item	7878.50	31514.00
21	Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 mtr including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 Mtrs (0.45 x 0.45 x 1.4)	4	Cu. m.	Normal Item	260.30	1041.20
22	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 meter lead as per direction of Engineer-in-Charge.	10	Sq. m.	Normal Item	131.75	1317.50
23	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer in-charge. (Old CC paver blocks shall be supplied by the department free of	10	Sq. m.	Normal Item	402.95	4029.50

	cost).					
24	Supply, installation, testing and commissioning of weatherproof street light pole junction box made of UV-stabilized FRP/polycarbonate enclosure of minimum IP65 protection, suitable for outdoor mounting on street light poles, complete with terminal connectors, neutral link, earth terminal, DIN rail, MCB/fuse arrangement, gland plate, cable glands, mounting hardware, internal wiring and all accessories as required. The junction box shall be suitable for looping in and looping out of underground cable and connection to street light luminaire complete in all respects as per specifications and direction of Engineer-in-Charge.	25	Each	Normal Item	1244.00	31100.00
	<b>Total</b>					<b>1202795.20</b>
	<b>Say</b>					<b>1202795.00</b>

### Bid Sheet

Name of the Contractor					
Sl.No.	Name of component	Estimated cost	Percentage above or below the estimated cost	% in Figures	Total Cost
<b>1</b>	<b>Electrical</b>	<b>1202795.00</b>			
	<b>Grand Total</b>				-
					-

**Assistant Executive Engineer (P) (E)**  
Mumbai-II, CPWD, Mumbai.

**Executive Engineer (E)**  
Mumbai-II, CPWD, Mumbai.

**PARTICULAR SPECIFICATIONS AND SPECIAL CONDITIONS**

**1. Location**

The work will be required to operate under the Climatic conditions as prevailing.

**2. Related Documents**

These additional specifications are to be read in conjunction with the specification given in the tender. In case any item/items or part thereof are not covered under these specifications, the same shall be carried out as per relevant part of the **CPWD General Specification for Electrical Works amended up to date**-CPWD Part-I 2023, CPWD Part-II 2023, HVAC – 2024, Part-III 2003 (Lifts & Escalators), Part-IV 2013 (Substations), Part-V 2020 (Wet Riser & Sprinkler System), PART-VI 2018 (Fire detection & Fire Alarm System), Part-VII 2013 (D.G. Set), Part-VIII -2013 (Gas Based Extinguishers), Relevant Indian Electricity Rules and Indian Electricity Act amended up to date; Relevant BIS specifications amended up to date; NBC 2016 amended up to date and ECBC-2017 amended up to date and as per direction of Engineer-in-Charge.

These additional specifications are to be read in conjunction with above and in case of variations; specifications given in this additional condition shall apply. However, nothing extra shall be paid on account of these additional specifications and conditions, as the same are to be read along with schedule of quantities for the work.

**3. Terminology**

The definition of terms used in these specifications shall be in accordance with relevant IS. All components shall conform to relevant Indian Standard Specifications, International Standards and shall bear the stamp of the testing laboratory wherever existing and amended to date.

**4. Order of Preference:**

In case of discrepancy, if any, between the description of items as given in the Schedule of quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:

- (i) Schedule of quantities
- (ii) Additional and Commercial Conditions
- (iii) Technical specifications specified in the tender
- (iv) General Conditions of Contract for CPWD Works
- (v) Drawings
- (vi) CPWD General Specifications
- (vii) Relevant IS or any other International code in case IS code is not available.
- (viii) Manufacturer's Catalogue, Specifications and Recommendations.

**5. Site Information**

The work shall be carried out in a pre-occupied building, and working time may be restricted by the client, claims for idle labour(s) will not be entitled. The Bidder should in his own interest visit the site and get themselves familiarize with the site condition and have to upload an undertaking for site inspection as per Annexure-B of tender document.

**I. Completeness of the Tender, Submission of Programme, Approval of Drawings and commencement of work Completeness of the tender:-**

All sundry equipments, fittings, assemblies, accessories, hardware items, foundation blots, supports, termination lugs for electrical connections, cable glands, junction boxes and all other items which are useful and necessary for proper assembly and efficient working of the various equipments and components of the work shall be deemed to have been included in the tender, irrespective of the fact whether such items are specifically mentioned in the tender or not.

## 6. **Safety Codes and Labour Regulations**

- i. In respect of all labour employed directly or indirectly, for the execution of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provision, B.I.S. recommendations, factory act, and workman's compensation act. CPWD code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty. In addition the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost incurred thereon from the contractor.
- ii. The contractor shall provide necessary barriers, signals and other safety measures wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

## 7. **General security restrictions are given as under:**

- a) No inflammable materials including P.O.L. shall generally be stored at site of work.
- b) The movement of trucks and vehicles will be regulated in accordance with rules and regulations as approved by competent authorities.
- c) The contractor shall inform in advance, the truck registration number, Ownership of the trucks, names and address of the drivers and labour for necessary action by the security agency.
- d) Due to the site conditions, no space for construction of go down and stay of site staff may be allowed.
- e) Names and addresses of labourers /staff along with identity proof and residence address proof etc. working at site shall be furnished in advance for security verification for issue of passes.
- f) The labourers /staff should not be changed too frequently once the verification of the character and antecedents is done.
- g) As and when there will be security requirements, certain additional restrictions can be proposed as per the requirement of the situation.
- h) **IDENTITY CARDS:-**The identity cards will be issued to the workmen employed by the contractor after proper police verification for which Contractor shall submit a list of worker's to be deployed on site of work. The cost of photos would be borne by the contractor. They will be required to carry the identity- cards with them during their working inside the building.
- i) Due to security constraints, all the working personal may not be allowed to carry the mobile phone or any other electronic gadgets. The instruction of security personal in this regard shall be followed religiously.
- j) Therefore in view of the situation explained under above paragraphs the tenderer must visit the site and must get himself acquainted with the proposed site of work, study specifications and conditions carefully before tendering rates. Nothing extra shall be paid on account of compliance of any of these clauses. The hindrance due to security constraints shall be not be accounted towards adjustment of completion time mentioned in the tender document.

## 9) **Works to be Arranged by the department**

Unless otherwise specified in the tender documents: Space for accommodating all the equipment and components involved in the works, shall be arranged by the Department However, arrangement to make it lockable and its watch & ward shall be made by contractor himself.

## 10) **Works to be done by the contractor**

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost-whether specifically indicated in the schedule of work or not: -

- i) Suspenders, brackets and supports for suspending/ supporting cable tray etc.
- ii) Sealing of all floor slab/wall openings provided by the Department or made by the contractor for laying of pipes & cables from fire safety points of view.
- iii) Painting of all exposed metal surfaces of equipments and components appropriate colour as per relevant part of bid document.

- iv) Making opening in the wall/floors/slabs or modifications in the existing openings wherever provided for cable/cable tray etc. Opening in the slab/retaining walls/brick wall etc. shall be made by means of core cutting machines only.
- v) All electrical works including cable/wires, earthing etc. beyond power supply made available by the department.
- vi) Making good all damages caused to the structure during installation and restoring the same to their original finish.
- vii) Approval from Local Body as may be required as per local bye-laws. (The contractor's responsibility shall be limited to the work executed by him.)
- viii) The water and power supply for installation, testing and commissioning of the complete installation shall be made available by the contractor themselves.

### **11) Rates**

The rate quoted by bidder, shall be firm and inclusive of all taxes including GST, duties and levies and all charges for packing, forwarding insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary constructional storage, risks, overhead charges, general liabilities / obligation etc. No separate reimbursement shall be made on this account. However, statutory deductions shall be made from the bills, as per rule. The contractor has to carry out maintenance of entire installation for a period of 09 Months from the date of handing over. The rates quoted by the tenderer shall also be inclusive all this, nothing extra shall be paid on this account.

Quoted Rates should be inclusive of all taxes & levies except EPF/ ESIC which shall be reimbursed as per actually paid to Concerned Govt deptt. Nothing extra shall be payable. It will be the responsibilities of the contractor to provide EPF / ESIC and other facility to their employees as per current labour laws.

### **Taxes and Duties**

The tender is for entering into percentage rate works contract. The rates quoted shall be inclusive of all materials, prevailing taxes, duties, levies, Cess, freight and delivery, labour for installation, testing, commissioning etc. at site including temporary constructional storage, risks, overhead charges, general liabilities / obligation etc. No separate reimbursement shall be made on this account. Statutory deduction on account of GST, Income Tax, Labour Welfare Cess etc, as applicable on Original work, (Except credit items) shall be made at source from each running /final bill payment. A certificate of TDS shall be issued by the department to the contractor.

### **12) Acceptable Makes**

The acceptable makes of the various equipments/components/accessories have been indicated in "Acceptable Makes" annexed with this document. The bidders shall work out the cost of the offers on this basis. Prospective bidders are to quote as per the acceptable makes specified in the tender documents. However, all departure from the specifications and also from the Acceptable Makes of the equipments / components have to be brought down in the forwarding letter to this tender. However, the departures taken by the bidders shall be evaluated at the time of Technical Evaluation, based on the documentary evidence and also their past performance & provenness in case of the alternative makes, if any. Except for the departures brought down in the forwarding letter the tender, it is presumed that intending bidder confirms compliance to the tender specifications in all respect. Successful bidder is to comply with the Public Procurement (Preference of Make in India), Order 2017 Revision-dated 23-07-2020 of Govt. of India, while executing the contract. If any provision made elsewhere in this NIT, which in contravention with the Make in India policy, the latter shall have preference over the former. Engineer-in-charge will have the final authority to take appropriate decision in the matter.

### **13) Execution: -**

#### **a) Machinery for Erection**

All tools and tackles required for unloading/handling of equipments and materials at site, their assembly, erection, testing and commissioning shall be the responsibility of the contractor.

**b) Dispatch of Materials to Site and their Safe Custody**

The contractor shall dispatch material to site in consultation with the Engineer-in-Charge. Suitable accommodation shall be made available free of charge temporarily. The arrangement to make it lockable/secure by means of partitions, locks etc. shall be responsibility of the contractor. Watch and ward however, shall be the responsibility of contractor. Program of dispatch of material shall be framed keeping in view the building progress. Safe custody of all machinery and equipment supplied by the contractor shall be the responsibility of the contractor till final taking over by the department.

**a) Extent of Work**

The work shall comprise of entire labour including supervision and all material necessary to meet a complete installation and such tests and adjustment and commissioning, as may be required by the department. The term complete installation shall not only mean major items covered by the specification but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in detail in the tender documents in connection with this contract as this is a turnkey job.

**b) 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.
  - v) Statutory norms prescribed by local bodies like CEA, Power Supply Co., Local Body etc.
- c) 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.
- d) 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 tenderer liable for penalty of Rs. 500/- 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.

**e) 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 equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

**f) Co-ordination with other Agencies**

The contractor shall co-ordinate with all other agencies involved at the site of work so that the work of other agencies is not hampered due to delay in his work. The work, which directly affect the progress of work of other agencies, shall be given priority.

**g) Quality of Materials and Workmanship**

- (i) The components of the installation shall be such design so as to satisfactorily function under all conditions of operation.
- (ii) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.

(iii) All equipments and material to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.

(iv) All equipments and materials to be used in the work shall be brand new having its date of manufacturing not more than 09 Months old from the date of delivery at site with manufacturer's certificates, warrantee cards, technical catalogues, instructions, manuals and wiring diagrams etc.

#### **14. Inspection of materials and equipments:**

A) Materials and equipments to be used in the work shall be inspected by the departmental officers. Such inspection will be of following categories:

- a) Inspection of materials / equipments to be witnessed at the Manufacturer's premises in accordance with relevant BIS / Agreement Inspection Procedure.
- b) To receive materials at site with Manufacturer's Test Certificate(s)
- c) To inspect materials at the authorized dealer's Godown to ensure delivery of genuine materials at site.
- d) To receive materials after physical inspection at site.

B) Adequate care to ensure that only tested and genuine materials of proper quality are used in work shall be ensured by firm. The firm shall ensure that:

- a) Material will be ordered & delivered at site only with the prior approval of the department to ensure timely delivery.
- b) As and when the order is placed for the fittings / fixtures, cables, switchgears, poles, rising main, other main items etc, its copy shall be endorsed to the CPWD Engineer-in-charge.
- c) The firm will be required to procure material like exhaust fans, MCB's & DB's, switches & sockets, wires & cables, conduits and switchgears etc directly from the manufacturer/ authorized dealers to ensure genuineness & quality and as per the approved makes only. Proof in this regard shall be submitted by the contractor if required by the department.
- d) Inspection at factory or at Godown of the manufacturer, as required, shall be arranged by the firm for a mutually agreed date. Certificate for genuineness of the fittings shall have to be provided duly signed by the manufacturer's officer not below the rank of Regional Manager.
- e) Delivery of material shall be taken up only with the consent of department, after clearance of the material.
- f) Department shall reserve the right to waive inspection in lieu of suitable test certificate, at its discretion.
- g) Similarly, for fabricated equipments, the contractor will first submit dimensional detailed drawings for approval before fabrication is taken up in the factory. Suitable stage inspection at factory also will be made to ensure proper use of materials, workmanship and quality control.
- h) The contractor shall give a trial run of the equipments and machinery for establishing its capability to achieve the specifications within laid down tolerances to the satisfaction of the Engineer-in-charge before commencement of work.

#### **15. Final Inspection and Testing**

- I. Final Inspection and testing will be done by the Engineer-in-Charge or his representative as per details indicated in relevant section of Technical Specifications.
- II. The installation will be offered for inspection by local bodies, if required. The contractor or his representative shall attend such inspection of the Local Fire authority, Local Body etc, if any and extend all test facilities as are considered necessary, rectify and comply with all observations of the Local Fire authority, Local Body etc, if any, which are part of the agreement and arrange for obtaining necessary clearance certificate in favor of department. In case contractor fails to attend the inspection and make desired facilities available during inspection, the department reserves the right to provide the same at the risk and cost of the contractor and impose penalty for the same. The installation will be accepted by the department only after receiving clearance from Local Fire authority, Local Body etc, for the work executed by the contractor under the agreement.

#### **16. Guarantee**

- i) The contractor shall guarantee the complete system to maintain the specified conditions under all conditions of ambient temperature.
- ii) All equipments shall be guaranteed for a period of at-least 1- year or as per Manufacturer's standard whichever in more, from the date of acceptance and taking over of the installation by the department against unsatisfactory performance and/ or breakdown due to defective design, material, manufacture, workmanship or installation. The equipment or component or any part thereof so found defective during the guarantee period shall be repaired or replaced free of cost to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of Engineer-in-Charge in this regard shall be final.
- iii) **LED items shall have warranty of 5 years by the manufacturer from the date of installation.** Additional security shall be deducted @2.5% for items and be released on annually pro-rata basis after one-year free maintenance period.

#### **17. A) Terms of Payments:**

Following payment terms shall be applicable.

- i) No advance payment shall be made and Quarterly payment against bills shall be admissible.
- ii) Payment shall be made as per availability of funds.

#### **17 B).**

- i) All Dismantled materials shall be returned back to the department and stacking as per direction of Engineer-In -Charge or his representative.
- ii) Inventory duly signed by Client Department / JE in charge shall be submitted along with final bill.

#### **18. SPECIAL CONDITION FOR SAFETY AT THE WORK SITE**

The contractor will identify one of the supervisors for taking care of implementation of Safety systems. The Contractor should follow the following General Guidelines governing the safety rules as laid down under:

- i. Smoking is strictly prohibited at workplace.
- ii. Nobody is allowed to work without wearing safety helmet. Chinstrap of safety helmet shall be always on. Drivers, helpers and operators are no exception.
- iii. No one is allowed to work at or more than three meters height without wearing safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level.
- iv. No one is allowed to work without adequate foot protection.
- v. Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-ordinator insists eye protection has to be provided.
- vi. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.
- vii. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach is to be ensured into every excavation.
- viii. Adequate illumination at workplace shall be ensured before starting the job at night.
- ix. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.
- x. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.
- xi. Material shall not be thrown from the height. If required, the area shall be barricaded and one person shall be posted outside the barricading for preventing the tress-passers from entering the area.
- xii. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.
- xiii. All electrical connections shall be made using 3 or 5 core cables, having an earth wire.

- xiv. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.
- xv. A tools and tackles inspection register must be maintained and updated regularly.
- xvi. Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work every day.
- xvii. All the unsafe conditions, unsafe acts identified by contractors, reported by site supervisors and / or safety personnel to be corrected on priority basis.
- xviii. No children shall be allowed to enter the workplace.
- xix. All the lifting tools and tackles shall be stored properly when not in use.
- xx. lamps shall be used on Return cables to ensure proper earthing for welding works.
- xxi. Return cables shall be used for earthing.
- xxii. All the pressure gauges used in gas cutting apparatus shall be in good working condition.
- xxiii. proper eye washing facilities shall be made in areas where chemicals are handled.
- xxiv. Connectors and hose clamps are used for making welding hose connections.
- xxv. All underground cables for supplying construction power shall be routed using conduit pipes.
- xxvi. Spill trays shall be used to contain the oil spills while transferring / storing them.
- xxvii. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.

#### **19. QUALITY ASSURANCE PLANS:A) Internal & External Electrical work:**

1. For Internal and External electrical works, the bidder should have **valid electrical contractor license from competent authority in the name of the contractor.**
2. Electrical agencies shall submit the fortnightly labour report.
3. Sample of materials like pipe, conduits wires, of each size etc. may be got tested in the laboratory approved by Engineer -in charge, as and when desired by Engineer-in-charge. All the materials intended to be used in the work shall be got approved by Engineer-In-Charge before use at site.
4. Fish wire shall be provided in each conduit where wiring is not carried out.
5. Extra item, substitute item, deviation etc. shall be carried out only with written permission of competent authority.
6. Necessary documents of handing / taking over of the installation will be duly signed by the parties namely EE (E) and the main contractors.
7. The contractor will have to ensure that the skilled / Semi skilled labour, engaged in the execution of the work must possess valid electrical license / qualifications, otherwise he will not be permitted to execute the work.
8. The contractor shall be responsible for removal of all defects in the work during the defect liability/guarantee/warranty period. The department shall carry out routine maintenance only. However, if any failure is noticed during this period which is attributable to poor quality of material and bad workmanship, the contractor will be required to rectify the same at his own cost, failure of which the department will be at liberty to get the defects rectified at the risk & cost of the contractor. The contractor will also be required to carry out his own inspection/testing during the guarantee/warranty period and attend to any defect taking place during this period.

9. Material required for the work shall be brought at site at the appropriate time keeping in view the requirement of material depending on progress of the work.
10. The work shall be carried out as per direction of Engineer -in-charge and CPWD specifications for Electrical Works.
11. Taxes, levies etc. as applicable shall be deducted from the contractor's bill. No Road Permit/ From 31 etc. shall be issued by the Department. The rates quoted shall be inclusive of all taxes, duties, levies, T & P and petty items like including log book, complaint register duster, Mobil oil, test lamp etc. and no advance payment will be made.
12. The materials supplied shall be new (Manufactured not earlier than 04 (Four) Months before the date of tender opening) and preferably ISI marked. Test certificate / reports and warranty certificates as required shall be provided by the agency to the entire satisfaction of Engineer-in-Charge before bill submission for payment.
13. The labour deployed site for execution of work shall take all safety precautions and the contractor shall be responsible for compliance of all labour regulations, liabilities and safety measures. If CPWD is not satisfied with the performance of labour, then alternate staff is to be provided immediately.
14. All required documents shall be provided for verification of the staff deployed at site for execution of work.
15. The contractor shall be required to possess during the full currency of the contract a valid license for employing contract labour from the appropriate licensing authority under the contract labour (Regulation and abolition) act 1970. The contractor shall be solely responsible for compliance of various statutory obligation (including the financial liabilities) under contractor labour regulation & abolition Act. Minimum wages act etc. and other applicable laws and rules framed their under from time to time. Contract workers are to be paid not less than fair wages which means wages fixed by CLC, Govt. of India under the provisions of the Minimum Wages Act. Wages due to the worker shall be paid to him directly by the contractor through Bank or ECS or Online transfer to his bank account and receipt of wages shall be attested by the worker concerned.
16. The contractor shall depute 01 (ONE) nos. Project Manager cum Planning/ Quality/ Site/ billing Engineer- Electrical / Electronics / Mechanical discipline (Graduate Engineer having 2-year experience or Diploma Engineer having 5 year experience) for electrical works who shall remain present at site during execution / planning of work, failing which recovery shall be made from the contractor in the event of not fulfilling provision at the rate of Rs. 15000/- Per Month/per person.
17. The contractor will have to arrange his own T & P required for the work. The department will not arrange any T & P and nothing shall be paid on this account.
  - a) EARTH TESTER
  - b) MEGGER 500 V / 2500 V
  - c) LINE TESTER, TEST LAMP
  - d) VERNIER/WIRE GUAGE
  - e) SPANNER KIT.
  - f) CHASE CUTTING MACHINE
  - g) CRIMPING TOOLS
  - h) MULTI METER & TONG TESTER
  - i) ALUMINIUM LADDER –SINGLE / FOLDABLE / TROLLEY MOUNTED

- j) CHAIN WRENCH/PIPE WRENCH.
  - k) HYDROMETER.
  - l) LUX METER (DIGITAL)
18. No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any temporary set up for staff in the campus.
  19. The Site Engineers and all deputed staff shall carry mobile telephones(s) to enable the Engineer-in-charge or his representative to have easy and quick communication. Nothing extra shall be paid on account and his quoted rates for various items under this contract will be inclusive of this obligation. Contractor is bound to give all the telephone no. of their staff deployed at site to the Engineer in charge, immediately after award of work.
  20. Safety codes and Labour Regulations:- In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instruction issued from time to time. Failure to provide such safety requirement would make the tenderer liable for penalty as per Part-A for each default. In addition the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor. Safety of the staff employed will be the responsibility of the contractor. CPWD will not be responsible for any mishap, injury / accident or death of the staff. No claim in this regard shall be entertained / accepted by the department.
  21. Contractor shall be fully responsible for any damages caused to govt. property or allottee's property by his or his labour during the carrying out the work. All such damages shall be rectified by the contractor at his own cost, failing which the same will be got rectified by Engineer-in-charge and the expenditure incurred shall be recovered from the contractor bill. The watch and ward of installation shall be the responsibility of the contractor.
  22. All the items to be replaced should be of same specifications or better with ISI marked or as approved by the Engineer-in-charge. Makes of the items used has been specified, however if make of any item not mentioned below same will be used ISI marked after getting approval by Engineer-in-charge..
  23. Contractors are requested to inspect the site before quoting their rates for the tender; later on no further claims in this regard shall be entertained.
  24. After the completion of the contract, the firm shall have to hand over complete installation to the department in good working condition. All defects and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge failing which the work shall be got done at the risk and cost of the firm. Any damage caused to the fittings/ switch gears/ installations/ machinery as a result of execution of this work shall have to be made good by the contractor at his own risk and cost.
  25. The staff engaged has to be courteous and maintain good behavior at site. Any person find discourteous or misbehavior shall have to be replaced within 48 hours, failing which, the Engineer-in-Charge has the power to cancel the contract, and the contractor shall have no claim of compensation. Decision of the Engineer-in-Charge shall be final and binding on the contractor. The contractor shall submit the name, address & character certificate of the worker/ staff employed by them at the site of work to the Engineer-in-Charge before start of the work.

26. Wages Payment by the contractor to the deployed staff shall be mandatorily paid through digital mode of Bank / ECS / Online transfer on monthly basis.
27. The staff should wear clean uniforms and badges (Name plate) to be supplied by the contractor. If the staff service is not provided by the contractor any day, a recovery of double of quoted rate per day per person shall be done from the bills of the contractor.
28. The contractor has to arrange Dress, petty items like Soap, Duster, Complaint Register / Log- book, Mobil Oil, Test lamp, PVC Tape, Screws / Lugs, jute, old cotton, grease, distilled water, petroleum jelly, T & P etc. (Other items as and when required shall be paid extra as per actual requirements including during free Annual Servicing by OEM / Authorized Agencies etc. Nothing extra is payable on account of the materials required to maintain the electrical installation. All the equipment's and installations shall be maintained in neat and clean condition.
29. The scope of work does not include comprehensive maintenance of installations including the works such as overhauling/ rewinding of fans / exhaust fans or any other minor/ major repair for which part of the machine, installations, is to be sent out for repair/ testing.
30. The staff of the contractor shall maintain the complaint register, logbooks, job diary, maintenance records and registers, which will be supplied by the contractor. The staff should wear clean uniforms and badges (Name plate) to be supplied by the contractor.
31. Lowest bidder shall submit along-with the performance guarantee after acceptance of tender, an undertaking from the OEM on following for specialized (E&M) works: -
- b) Authorization certificate / Affidavit to confirm their association from OEM.
  - c) The OEM shall unconditionally support the lowest bidder technically throughout the execution of contract as well for Maintenance / Comprehensive Maintenance Contract for useful life of the system.
  - d) OEM shall provide all spares required for healthy functioning of the equipments for entire life of equipments.
  - e) Officers of the department may conduct inspection before dispatch of equipments/ materials at manufacturer's works. The contractor has to arrange facilities for inspection of equipments/ materials including conducting the required tests in the manufacturing unit.

### **Additional Terms & Conditions**

1. The work shall be carried out in accordance with relevant CPWD specifications, latest amendments, BIS standards, IE Rules, CEA regulations and directions of Engineer-in-Charge.
2. All materials to be supplied shall be new, genuine, defect free and of approved make conforming to relevant IS/BIS standards. The contractor shall submit manufacturer's test certificates, LM-79, LM-80 reports, BIS certificates and technical datasheets for approval before procurement and installation.
3. The LED luminaires, flood lights, bollard lights and accessories shall be complete in all respects including drivers, internal wiring, mounting hardware, glands, connectors, earthing arrangement, interconnections and all incidental items required for proper functioning whether specifically mentioned in the schedule or not.
4. The LED street lights/flood lights shall have minimum 5 years comprehensive onsite OEM warranty from the date of successful commissioning. During warranty period,

- defective fittings/drivers/components shall be replaced free of cost including labour, transportation and allied accessories.
5. The contractor shall obtain prior approval of Engineer-in-Charge for make, model, wattage, CCT, optical distribution, dimensions, appearance and mounting arrangement of all luminaires before execution of work.
  6. The quoted rates shall include supply, loading, unloading, transportation, insurance, storage at site, handling, installation, testing, commissioning, complete wiring connections, earthing and all taxes, duties and labour charges required for completion of work.
  7. The contractor shall ensure proper thermal management of LED fittings and submit technical details confirming junction temperature limits as specified.
  8. The cables supplied shall be ISI marked and conform to relevant IS specifications. Cable laying, dressing, clamping, termination, ferruling and identification shall be carried out neatly as per CPWD specifications and directions of Engineer-in-Charge.
  9. Cable terminations shall be made using suitable brass compression glands, copper lugs and approved crimping tools. Improper or loose terminations shall not be accepted.
  10. The octagonal poles shall be hot dip galvanized after fabrication and shall conform to approved manufacturing standards. Necessary test certificates for galvanization and steel thickness shall be submitted.
  11. RCC foundations for poles shall be executed to required dimensions and grade as specified in the schedule. Proper curing shall be carried out for minimum 7 days.
  12. Excavation, reinstatement of road/footpath, restoration of paver blocks and disposal of surplus earth/debris shall be carried out by the contractor without causing inconvenience to traffic or public movement.
  13. Any damage caused to existing services, cables, pipelines, roads, drains or structures during execution shall be made good by the contractor at his own cost to the satisfaction of Engineer-in-Charge.
  14. The contractor shall ensure proper earthing continuity for all poles, junction boxes, panels and lighting fixtures as per IE Rules and CPWD specifications.
  15. All control panels and DBs shall be factory fabricated, dust and vermin proof, duly powder coated and complete with busbars, interconnections, labels, danger notices and earthing terminals.
  16. The contractor shall carry out insulation resistance test, earth continuity test, polarity test, load test and operational test before commissioning and submit test results to Engineer-in-Charge.
  17. The work shall be executed in phased manner as per site requirement and in coordination with other agencies without any extra cost.
  18. Necessary shut down, if required, shall be arranged by the contractor in consultation with department. Work in live installations shall be carried out carefully with proper safety precautions.
  19. The contractor shall deploy qualified supervisor and skilled electricians holding valid electrical license wherever required under prevailing rules.
  20. All safety measures including barricading, caution boards, PPEs, insulated tools and safe working practices shall be strictly followed during execution of work.
  21. Rejected materials not conforming to specifications shall be removed from site immediately at contractor's own cost.
  22. The contractor shall maintain proper record of materials brought at site and shall produce the same whenever demanded by Engineer-in-Charge.
  23. Payment shall be made on actual measured quantity of work executed satisfactorily at site as per schedule items and measurements recorded in MB.

24. Nothing extra shall be paid for minor civil works, cutting, drilling, chasing, grouting, welding, foundation bolts, clamps, supports, consumables and other incidental works necessary for completion of installation.
25. The contractor shall clean the site after completion of work and remove all debris, packing materials and surplus materials from premises.
26. The dismantled serviceable materials obtained during dismantling work shall be deposited in departmental store as directed by Engineer-in-Charge. Unserviceable material shall be disposed off as per departmental instructions.
27. The complete installation shall be handed over in fully functional condition along with catalogues, warranty certificates, test reports and as-built details.
28. Any defect noticed during defect liability/warranty period shall be attended within 24 to 48 hours failing which the same may be got rectified departmentally at risk and cost of contractor.
29. The decision of Engineer-in-Charge regarding quality of materials, workmanship, interpretation of specifications and satisfactory completion of work shall be final and binding on the contractor.

### List of Acceptable Makes of Electrical Items

SN.	Details of Materials	Acceptable Make
1.	11 KV XLPE Cable	Finolex / Havells / Universal / Polycab/ KEI
2.	1.1 KV XLPE Cable/Control cable	Finolex / Havells / Universal / RR Kabel / Polycab/ KEI
3.	11 KV, CT / PT	AE / Crompton Greaves / Kappa /BHEL /Alstom/Investech switchgears
4.	LT Current Transformer	AE / Kappa / LK (Formerly L&T)
5.	11 KV Cable Jointing Kit / End termination	Raychem / 3-M / M-seal/Jaison
6.	GI Pipe	TATA / Jindal / SAIL
7.	Rubber Mat	Sintex / Birla/ Jyoti /Vinyl
8.	DWC Pipe	Rex / Supreme / Dutron / Duraline
9.	Cable gland	Comet / Dowell / Jainson
10.	Any other item not mentioned above	As per samples approved by Engineer-in-charge
11.	HT Panel Boards	Channel partner of OEM/ L&T / Siemens / ABB / Schneider Electric / Crompton / Kirloskar
12.	HT VCB Panel	ABB/ Siemens/ Schneider Electric/ L&T/ Kirloskar/Crompton
13.	HT XLPE 33 KV, 11 KV Cable	Polycab / Havells / Universal / KEI / Finolex / RR Kabel
14.	Power Transformer	Crompton/ ABB/ Voltamp/ Siemens/ BHEL/ Schneider / Kirloskar / Sudhir
15.	Selector switch/ push button/ indicating lamps for Internal Electrification	L&T/ Kaycee/ Siemens / Schneider
16.	Selector Switches	Kaycee / L&T / AE / BCH / Siemens

17.	HT Cable Termination/ Jointing Kit	Raychem / 3M / Xicon
18.	Aluminium Housed LED Batten Light	Philips/ Havells/Wipro/LT/Surya
19.	LED Street Light	Philips/ Havells/Wipro/LT/Surya
20.	BLDC Fan	Atomberg/Orient/Havells/Almonard
21.	LT Panel/ TTA/ FTFA	OEM or System integrator of ABB/ LT/ Schneider / Legrand
22.	Any Other material	As per the approval of Engineer-in-charge

**Assistant Executive Engineer (P) (E)**  
**Mumbai-II, CPWD, Mumbai.**

**Executive Engineer (E)**  
**Mumbai-II, CPWD, Mumbai**