

NIT NO. 30/2026-27/EE(E)/Ranchi-I/I

Name of Work: Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Primises)

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Certified that this N.I.T. amounting to Rs. 598299/- (Rupees Five lakh Ninety Eight thousand Two hundred Ninety Nine) only contains 0 to 26 pages only in chronological order.

**Assistant Engineer (E)
Ranchi- I, AG Office Complex
CPWD, Ranchi**

CPWD-6 FOR E- TENDERING

Percentage rate bids are invited by Assistant Engineer (Electrical), Ranchi - I, CPWD, AG office Complex, Doranda, Ranchi (Ph:-0651-2412660) on behalf of President of India from approved and eligible contractors of CPWD for the Work of **“Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Primises)”**

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

The work is estimated to cost **Rs. 598299/- (Rupees Five lakh Ninety Eight thousand Two hundred Ninety Nine) only.** This estimate, however, is given merely as a rough guide.

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

~~For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.~~

- 2 Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7** (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
- 3 The time allowed for carrying out the work will be **01 (One) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
- 4 The site for the work is available.
- 5 The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
- 6 After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- 7 While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
- 8 When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
- 9 Earnest Money in the form of Insurance Surety Bonds, Account payee demand draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee (for balance amount as prescribed) for any of the commercial banks (drawn in favour of Executive Engineer (E), RCED, CPWD, Ranchi Payable at Ranchi) 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 bids or division office of any Executive Engineer, CPWD within the period of bid

submission. The EMD receiving Executive Engineer (i/c NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to be bidder in a prescribed format (enclosed) uploaded by tender inviting EE/AE 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 Lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Commercial bank having validity for a period of 90 Days for single bid works and 180 Days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all tenders except the lowest bidder shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e-tender 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 the e-tender notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.

Online bid document submitted by intending bidder shall be opened only of that bidder, whose original EMD deposited with any division office of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at 03:30 PM on 10.09.2026.

- 10 **The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:**
- i. The bidder is found ineligible.
 - ii. The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD (The EMD documents shall only be issued from the place in which the office of receiving division office is situated).
 - iii. The bidder does not upload all the documents (including GST registration) as stipulated in the bid document including the copy of receipt for deposition of original EMD.
 - iv. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
- 11 The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account payee demand draft, Fixed Deposit Receipt or Bank guarantee from any of the commercial banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee with 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 license, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the Sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

- 12 The description of the work is as follows:

“Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Primises)

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

- 13 The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
- 14 Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
- 15 The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
- 16 The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
- 17 No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
- 18 The bids for the work shall remain open for acceptance for a period of **Thirty (30) days** from the date of opening of bids in case of single bid system and 75 (Seventy Five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system.
- I. If any bidder with draws his tender or makes any modifications in the terms & condition of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the government shall without prejudice to any other right or

remedy, be at liberty to forfeit 50 % of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

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

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

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

(b) Standard CPWD Form 7/8 or other standard CPWD Form as applicable.

20 — For Composite Bids

~~20.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid~~

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

~~**Part A:** CPWD-6, CPWD-7 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2020 for construction works, as amended/modified up to last date of submission of bid.~~

~~**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 (competent authority under clause 2 and clause 5 shall be same authority 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 himself, with agencies as per NIT conditions~~

~~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 bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate Part A and Part B of the agreement. EE/DDH in charge of minor component(s) shall operate Part C along with Part A of the agreement.~~

~~20.1.6 Entire work under the scope of composite bid 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.~~

~~20.1.8 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-~~

~~in charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant 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 relevant specialized component(s).~~

~~20.1.10 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.~~

~~20.1.11 The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE in-charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.~~

~~20.1.12 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.A The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.~~

~~20.1.12.B 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. Integrity Pact : The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness and upload the same while submitting online bids for all work of estimated cost put to tender equal or more than the threshold value given in Scheduled - F. In the event of his failure to sign and upload the integrity pact along with other bid documents, his bid shall be rejected.~~

~~22. The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/Assistant Engineer 0651-2412660 e-mail rcesd1@gmail.com or ERP helpline No. 18001803286 or e-mail ID cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.~~

PROFORMA FOR ORIGINAL EARNEST MONEY DEPOSITION	CPWD
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Receipt of deposition of original EMD (Receipt No..... /date.....)
Name of work: Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Primises)
1) NIT No.: 30/2026-27/EE(E)/Ranchi-I/I
2) Estimated Cost: Rs. 598299.00
3) Amount of Earnest Money Deposit: Rs. 11966.00
4) Last date of submission of bid: 10.09.2026
(To be filled by NIT approving authority/EE at the time is issue of NIT and uploaded along with NIT)
i) Name of Contractor:
ii) Form of EMD:
iii) Amount of Earnest Money Deposit:
iv) Date of submission of EMD:
EMD to be made in favor of Executive Engineer (E), RCED, CPWD, Doranda, Ranchi
Signature, Name and Designation of EMD Receiving officer (EE/AE(P)/AE/AAO) along with office stamp

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING
PART OF BID DOCUMENT
(Applicable for inviting open bids)**

The Assistant Engineer (Electrical), Ranchi - I, CPWD, AG office Complex, Doranda, Ranchi (Ph:-0651-2412660) on behalf of President of India invites online percentage rate bids from approved and eligible contractors of CPWD for the following work(s):

S. No.	NIT No.	Name of work & Location	Estimated cost put to bid (Rs.)	Earnest Money	Stipulated Period of Completion of work (in months)	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document.	Date & time of opening of bids
1	2	3	4	5	6	7	8
1	30/2026-27/EE(E)/Ranchi-I/I	Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Primises)	Rs. 598299/-	Rs. 11966/-	01 (One) Months	Up to 03:00 PM on 10.09.2026	At 03:30 PM on 10.09.2026

- The successful bidder shall associate with him OEM of Air Conditioning system (Bluestar)/Authorized service agents for Air Conditioning system (Bluestar).
- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and Instructions for bidders posted on website shall form part of bid document.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
- Those contractors not registered on the website mentioned above, are required to get registered before and. If needed they can be imparted training on online bidding process as per details available on the website.
- The intending bidder must have valid class-III digital signature to submit the bid.
- On opening date, the contractor can login and see the bid opening process. After opening of bid he/she will receive the competitor bid sheets.
- Contractor can upload documents in the form of **JPG** format and **PDF** format.
- Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

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

10. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

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

- i) Insurance Surety Bonds, demand draft, Account payee Banker's Cheque, Fixed Deposit Receipt or Bank guarantee of any commercial banks against EMD.
- ii) Copy of Enlistment Order of the Contractor.
- iii) Copy of Valid Electrical licence.
- iv) Copy of Valid Certificate is issued through LMS of ERP i.e. Training Certificate
- v) GST Registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder.

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

"If work is awarded to me, I/we shall obtain GST registration Certificate as applicable within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.

- vi) Copy of receipt for deposition of original EMD to Division office of any Executive Engineer (including NIT issuing EE / AE) of CPWD.

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT
Percentage rate tender & contract for works

(A) Tender for the work of:-“**Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Primises)**”.

(i) To be uploaded by **03.09.2026** at <https://etender.cpwd.gov.in>

(ii) To be opened in presence of tenderers who may be present **at 03:30 PM on 10.09.2026** in the office of Assistant Engineer (Electrical), Ranchi - I, CPWD, AG office Complex, Doranda, Ranchi.

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.

I/We agree to keep the tender open for Thirty **(30) days** from the due date of its opening in case of single bid system and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee(as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance

guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated	Signature of Contractor
Witness:	Postal Address
Address:	
Occupation:	

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and 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)
- ©

For & on behalf of the President of India.

Dated:	Signatures
	Designation

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

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

OR**

- Whereas the Executive Engineer (Name of division)....., CPWD on behalf of the president of India (hereinafter called "The Government") has entered into an agreement bearing number with (Name and address of contractor) (hereinafter called "the contractor") for execution of work (name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date) as Performance Guarantee/ Security Deposit/ Mobilization Advance from the said contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of bank) (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees Only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of the Bank), do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupeesonly).
4. We, (indicate the name of the Bank)....., further undertake to pay the government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, (indicate the name of the Bank)....., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said

Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, (indicate the name of the Bank)....., further agree that the Government at its option shall be entitled to enforce this guarantee against the bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the government may have in relation to the contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
8. We, (indicate the name of the Bank)....., undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank guarantee shall be valid up to*.....unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupeesonly) and unless a claim in writing is lodged with us within the date of expiry or the extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.....

Witness :

1. Signature.....

Name and address

Authorized signatory

Name

Designation

Staff code no.

Bank seal

1. Signature

Name and address

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

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

Note:-Form of Bank Guarantee for Earnest Money Deposit / Performance Guarantee/APG / Security Deposit / Mobilization Advance drawn in favour of Executive Engineer (E), RCED, CPWD, Ranchi.

SCHEDULES

SCHEDULE 'A'

Schedule of quantities (as per PWD-3)	:	from Page No 23 - 26
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SCHEDULE 'D'

Extra schedule for specific requirements / documents for the work, if any	:	General Conditions, Additional Specifications
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SCHEDULE 'E'

Reference to General Condition of contract	General Conditions of Contract 2023 (Maintenance work) CPWD-7 with upto date corrections slip issued till last date of submission of bid.
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1. Name of work	Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Primises)
2. Estimated cost of work	Rs. 598299/-
3. Earnest money	Rs. 11966/- (to be returned after receiving performance guarantee).
4. Performance Guarantee	5% of Estimated cost put to tender (ECPT) or 5% of tendered amount whichever is higher (as per OM No. DG/CON/Construction 2023/20 dated 27.02.2026).
5. Additional Performance Guarantee (APG)	Tendered Amount below 80% value of ECPT (as per OM No. DG/CON/Construction 2023/20 dated 27.02.2026)
6. Security Deposit	2.5 % of tendered value.

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

Officer Inviting Tender	:	Assistant Engineer (E), Ranchi-I, AG Office Complex, CPWD, Ranchi.
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

Definitions:

2(v)	Engineer-in-Charge	:	Assistant Engineer (E), Ranchi-I, AG Office Complex, CPWD, Ranchi.
2(viii)	Accepting Authority	:	Assistant Engineer (E), Ranchi-I, AG Office Complex, CPWD, Ranchi.
2(x)	Percentage on cost of materials and labour to cover all overheads and profits.	:	15%
2(xi)	Standard Schedule of Rates	:	Prevailing Market Rate
2(xii)	Department	:	Central Public Works Department
8(ii)	Standard CPWD contract Form GCC 2023 (Maintenance work) , C.P.W.D Form 7 as modified and corrected up to last date of submission of bid.	:	Form 7

Clause 1

(i)	Time allowed for submission of Performance Guarantee Programme Chart (Time and Progress) and applicable Labour Licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue letter of acceptance.	:	07 Days
(ii)	Maximum allowable extension with late fee @ 0.10% Per day of Performance Guarantee amount beyond the period provided in (i) above	:	03 Days

Clause 2

Authority for fixing compensation under clause 2	:	Chief Engineer, Ranchi, CPWD, Ranchi
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Clause 2A

Whether clause 2 A shall be applicable	:	Yes
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Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start	:	10 days
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Mile stone(s) as per table given below:-

Sl. No.	Description of Mile stone(s) (Financial)	Time allowed in days (From date of start).	Amount to be withheld in case of non-achievement of mile stone(s).
1.			
2.			
3.			
4.			

Time allowed for execution of work.	:	01 (One) Months.
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Authority to decide:

(i)	Extension of time under clause 5	:	Assistant Engineer (E), Ranchi-I, AG Office Complex, CPWD, Ranchi.
(ii)	Rescheduling of mile stones	:	-NA-
(iii)	Shifting of date of start in case of delay in handing over of site.	:	As per CPWD Works Manual-2024 or amendments till date of bid submission.

Clause 6

Whether applicable or not applicable	:	Yes
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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 for interim payment.	:	Rs. 1.50 lakh
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Clause 7A

Whether applicable or not applicable	:	Yes
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Clause 10A

List of testing equipments to be provided by the contractor at site lab:

1. Earth Tester, 2. Test lamp, 3. Meggar, 4. Line Tester, 5. Chese Cutting Machine, 6. Bending device

All equipments required till handing over the works

Clause 10-B (ii)

Whether clause 10-B (ii) shall be applicable	:	No
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Clause 10 C **Not Applicable**

Component of labour expressed as percentage of value of work	:	25%
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Clause 10 CA	:	Not Applicable
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Clause 10 CC	:	Not Applicable
Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	:	
Schedule of component of other materials, labour etc. for price escalation. Component of Civil (except materials covered under clause 10 CA) construction value of work	:	
Component of labour Expressed as percent of total value of work.	:	

Clause 11

Specifications to be followed for execution of work	:	CPWD General Specification for Electrical Works Part-I (Internal) 2023,
	:	CPWD General Specification for Electrical Works Part-II (External) 2023

Clause 12

Nature of work

Maintenance Work

Clause 12.2 and 12.3

Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work.	:	No Limit
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Clause 12.5

(i) Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work.	:	No Limit
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Clause 16

Competent Authority for deciding reduced rates	:	CE-Ranchi, CPWD, Ranchi
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Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site:-

List of mandatory machinery tools & plants to be deployed by the contractor at site	:	NIL
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Clause 25

Settlement of Dispute by Conciliation and Arbitration:-

- (a) Conciliator : ADG-Patna, CPWD, Kolkata
- (b) Arbitrator Appointing Authority : CE-Ranchi, CPWD, Ranchi
- (c) Place of Arbitration : Ranchi

A. GENERAL TERMS & CONDITIONS FOR INTERNAL ELECTRICAL INSTALLATION WORK

1.1 Scope

- i. Electricity has become the lifeline of modern society. Homes, Offices, Industry, Schools, Hospitals, Transportation, Communication, Road Lighting, Markets all depend on reliable Electric Supply. Life comes to a standstill without electricity. Electricity has become an integral and inevitable part of every body's life.
It is also necessary to remember that electricity becomes destructive and dangerous, if not handled with care, safety conforming to laid down safety standards and norms. In case of building fires, which often destroy property and lives causing sufferings to the affected people, the first culprit is often supposed to be 'Electric Short Circuit'.
In the above context, the General Specification for Electrical Works (Internal) aims to lay down General guidelines to ensure safe, efficient, reliable and economical use of electricity.
- ii. While these Specifications serve as general guidelines, appropriate technical sanctioning authority can depart from such guidelines to meet the particular requirements of any work or for other technical reasons.
- iii. These General Specifications are subject to revision from time to time.

1.2 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 Part-I (Internal) 2013, General Specification for Electrical Works PART II (EXTERNAL) 1994, General Specification for Electrical Works PART-V (wet riser & sprinkler system) 2006, General Specification for Electrical Works PART-VI (Fire detection) 2018, General specification for Heating, Ventilation & Air conditioning (HVAC) work 2017, Part – III- Lifts and Escalators) – 2003 amended up to date, relevant I.E. rules, BIS/IEC 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. In case of discrepancy among the specifications/conditions as mentioned above the precedence given in general condition of contract shall be followed.

1.3 Terminology

- 1.3.1 The definition of terms shall be in accordance with IS 732: 1989 (Indian Standard Code of Practice for Electrical Wiring), except for the definitions of point, circuit, and submain wiring, which are defined in this specification.

1. 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

1.4 Submission of Tenders

- 1.4.1 The tender shall be submitted complete with the following:-
 - a. Complete tender documents as purchased from CPWD duly filled in and signed. The price part of the tender shall be indicated only on the tender schedule of work.
 - b. Earnest Money deposition in the specified forms.
 - c. Any other supplementary details required for the evaluation of the tenders such as drawings, technical literature / catalogues, data etc.

- 1.4.2 Where two part tendering system is proposed to be adopted in any particular work, the procedure for submission and opening of tenders shall be indicated in tender documents for that work.
- 1.5 Rates**
- 1.5.1 The work shall be treated as on works contract basis and the rates tendered shall be for complete items of work (except the materials, if any, stipulated for supply by the department) inclusive of all taxes (including works contract tax, if any), duties, and levies etc. and all charges for items contingent to the work, such as, packing, forwarding, insurance, freight and delivery at site for the materials to the supplied by the contractor, watch and ward of all materials (including those, if any, supplied by the department) for the work at site etc.
- 1.5.2 Prices quoted shall be firm. Price adjustments shall however be governed by Clause 10C/10CC of the Conditions of Contract given in form CPWD 7 or 8 of the tender documents, for works executed under these forms. All relevant documents shall be produced by the contractor to the Engineer-in-charge, whenever called upon by him to do so, for working out such adjustments in rates.
- 1.6 Taxes and Duties**
- 1.6.1 Being an indivisible works contract, Sales Tax, Excise Duty etc. are not payable separately if applicable.
- 1.6.2 The works contract tax shall be deducted from the bills of the contractor as applicable in the State in which the work is carried out, at the time of payments.
- 1.6.3 Octroi shall not be paid separately for the materials supplied by the contractor, but the Department, on demand, can furnish octroi exemption certificate. However, the Department is not liable to reimburse the octroi duty in case the concerned authorities do not honor such exemption certificates.
- 1.7 Mobilization Advance**
- No mobilization advance shall be paid for the work, unless otherwise stipulated in tender papers for any individual work.
- 1.8 Completeness of Tender**
- All sundry fittings, assemblies, accessories, hardware items, foundation bolts, termination lugs, POL for electrical connections as required, and all other sundry items which are useful and necessary for proper assembly and efficient working of the various components of the work shall be deemed to have been included in the tender, whether such items are specifically mentioned in the tender documents or not.
- 1.9 Works to be Arranged by the Department**
- Unless and otherwise specified in the tender documents, the following works shall be arranged by the **Department**:
- i) Supply of materials to the contractor as stipulated in the tender documents.
- 1.10 Works to be done by the Contractor**
- Unless and 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 :-
- i) **Storage space for all equipments, components and materials for the work.**
- ii) Making good all damages caused during installation and restoring the same to their original finish.
- iii) Damages to finished surfaces of these items while handling and erection, shall however be rectified to the satisfaction of the Engineer-in-charge.
- iv) Testing and commissioning of completed installation.
- 1.11 Storage and Custody of Materials**
- No storage accommodation shall be provided by the Department to the contractor, However, the watch and ward of the stores and their safe custody shall be his responsibility till the final taking over of the installation by the Department.
- 1.12 Electric Power Supply and Water Supply**

Power supply and water supply will be arranged by the contractor at the site for installation purpose.

However, for testing purpose, electricity supply will be made available free of cost to the contractor.

Contractor will take due care to ensure safety of electrical installation during execution of work.

1.13 Tools for Handling and Erection

All tools and tackles required for handling of equipments and materials at site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the contractor.

1.14 Payment Terms

1.14.1 Unless otherwise specified in the additional conditions of the contract, the payment shall be made as per the relevant clauses of form PWD 7/8 forming a part of the tender documents.

1.14.2 Security deposit shall be deducted in such form and as per provisions contained in CPWD form 7/8 as amended from time to time. The earnest money deposit shall be adjusted against this security deposit. The security deposit shall be released on the expiry of guarantee/ maintenance period stipulated in the contract.

However, the contractor can furnish a bank guarantee in the specified format from a scheduled bank for the full value of the security deposit, in which event no recovery shall be made towards security deposit from his bills. The bank guarantee shall be kept valid till the expiry of the above guarantee / maintenance period.

1.15 Care of Buildings

Care shall be taken by the contractor to avoid damage to the building during execution of his part of the work. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of his work from the site.

1.16 Addition to an Installation

Any addition temporary or permanent to the existing electrical installation shall not be made without a properly worked out scheme/design by a qualified Electrical Engineer to ensure that such addition does not lead to overloading, safety violation of the existing.

1.17 Work in Occupied Buildings

- a. When work is executed in occupied buildings, there would be minimum of inconvenience to the occupants.
- b. The contractor shall be responsible to abide by the regulations or restrictions set in regard to entry into, and movement within the premises).
- c. The contractor shall not tamper with any of the existing installations including their switching operations or connections thereto without specific approval from the Engineer-in-charge.

1.18 Conformity to IE Act, IE Rules, and Standards

1.18.1 All Electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 amended up to date (Date of call of tender unless specified otherwise).

1.19 General Requirements of Components

1.19.1 Quality of Materials

All materials and equipments supplied by the contractor shall be new. They shall be of such design, size and materials as to satisfactorily function under the rated conditions of operation and to withstand the environmental conditions at site.

1.19.2 Inspection of Materials and Equipments

- (a) The Departmental officers will take adequate care to ensure that only tested and genuine materials of proper quality are used in work.

1.19.3 Conformity to Standards

- (a) All components shall conform to relevant Indian Standard Specifications, wherever existing. Materials with ISI certification mark shall be preferred.

1.20 Workmanship

1.20.1 Good workmanship is an essential requirement to be complied with. The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.

1.20.2 Proper Supervision/Skilled Workmen

The contractor shall be a licensed electrical contractor of appropriate class suitable for execution of the electrical work. He shall engage suitably skilled/ licensed workmen of various categories for execution of work supervised by supervisors / Engineer of appropriate qualification and experience to ensure proper execution of work. They will carry out instructions of Engineer-in-charge and other senior officers of the Department during the progress of work.

1.20.3 Use of Quality Materials

Only quality materials of reputed make as specified in the tender will be used in work.

1.21 Testing

All tests prescribed in these General Specifications, to be done before during and after installation, shall be carried out, and the test results shall be submitted to the Engineer-in-charge in prescribed Performa, forming part of the Completion Certificate.

1.22 Commissioning on Completion

After the work is completed, it shall be ensured that the installation is tested and commissioned.

1.23 Completion Plan and Completion Certificate

- (i) 3 copies of completion plan and completion certificate as per (appendix – “E) of CPWD specification for electrical work (internal) – 2013 after completion of work shall be submitted to the Engineer-in-charge by the contractor.

1.24 **Guarantee:** The installation will be handed over to the Department after necessary testing and commissioning. The installation will be guaranteed against any defective design/workman-ship. Similarly, the materials supplied by the contractor will be guaranteed against any manufacturing defect, inferior quality. The guarantee period for electrical/mechanical installation will be for a period of 12 Months from the date of handing over to the Department. Installation/equipments or components thereof shall be rectified / repaired to the satisfaction of the Engineer-in-charge.

1.25 INTENT OF SPECIFICATIONS

The work shall be carried out in accordance with the following relevant & applicable codes amended up to date and to the best available standards of engineering practice, design & workmanship.

- a) Items of schedule of work & technical specifications of the agreement, CPWD General Specifications for CPWD General Specifications for Electrical Works Part VIII Gas Based Fire Extinguishing System – 2013. (as amended upto date)
- b) Indian Standards Specifications by BIS, IS code.
- c) National Building Code 2016
- d) Indian Electricity Rules & Statutory Regulations.
- e) Local Fire Authority Regulations.

1.26 The contractor shall submit proof of procurement of material from authorized dealer/OEM.

1.27 The following documents should be the part of bill submitted by the agency and Engineer-in-charge/authorized representative of Engineer-in-charge should verify these documents before making payment:-

- a) Invoice bill and challan of the fire extinguishers delivered at site.
- b) Test certificates of all fire extinguishers.

B. TECHNICAL SPECIFICATION FOR INTERNAL ELECTRICAL INSTALLATION WORK

- 1.0 SITE CONDITION:** The work is to be carried out for **AG Colony, Doranda, Ranchi.**
- 1.2 The Tenderers are advised to visit the site for any site particular to be well acquaintance about the site requirement by him, before tendering.

SCOPE OF WORK AND EXCLUSIONS:

- 1.3 The work shall comprise entire labour including supervision and all materials necessary to make a complete installation to the entire satisfaction of the department. The term complete installation shall mean, not only major items of equipment covered by these specifications, but also incidental sundry components necessary for complete execution and satisfactory performance of the installation, with all labour charges, whether or not these have been mentioned in detail in the tender documents. The work shall include data entry, programming, start up test and demonstration, training of personnel for maintenance and operation, submission of construction and installation drawings and wiring diagrams, as built documents and system guarantee.

INTERPRETING SPECIFICATIONS

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

- a) Schedule of quantities
- b) Technical specifications of the NIT
- c) Approved Drawing (If any)
- d) CPWD General Specifications for Electrical Work Part-I (Internal) 2013, Part-II (External) 1994.
- e) Relevant IS or other international code in case IS code is not available.

C. ADDITIONAL SPECIFICATION FOR INTERNAL ELECTRICAL INSTALLATION WORK

- i) The work shall be carried out in conformity with relevant CPWD specifications for electrical works and as per relevant IS norms as amended up to date and as per instructions of the Engineer-in-Charge of the work wherever the specification is silent relevant. Indian standard specifications are to be followed.
- ii) Wherever makes of materials are not mentioned in the schedule of work / additional condition & specification of the work, the contractor shall quote clearly the make of materials in his tender. If it is not mentioned so, makes of the materials shall be decided by the Executive Engineer (E), & decision of the Engineer in Charge shall be final & binding.
- iii) The contractor will ensure that all the skilled persons managed/deployed for executing the electrical work possess the wireman license issued by approved authorities. Consequences arising due to the default of the contractor to comply with this condition would be contractor's responsibility only.
- iv) The contractor will make his own arrangement for storage of material arranged by him, and material issued from the department. The material, if issued, shall be issued to him from store of the Junior Engineer (E). The watch and ward of the materials and of the installations would be responsibility of the contractor till the work is completed & handed over to the client department. Nothing extra shall be paid to the contractor on this account. The contractor shall make his own arrangement for carriage of materials, fittings, cables etc. issued to him departmentally from the site store to the site of work at his own cost. Nothing extra shall be paid on this account.
- v) All the material should be ISI marked wherever not specified, if ISI marked material is not available it should be conforming to BIS specification amended up to date, approval of Engineer in Charge in such case shall be final & binding to contractor.
- vi) The contractor shall submit the completion certificate and completion plan as per Clause 1.26 of General specifications for Electrical Works Part-I, Internal 2013 after completion of work.
- vii) CPWD Contractors's labour regulations 5. Payment of wages vide office memorandum

No. DG/SE/CM/CON/283 dated 05.05.2015. **Copy of the office order as stated above has been uploaded in the e-tender web site and shall be part of the Agt.**

- a) Wages due to every worker shall be paid to him direct by contractor through bank or ECS or online transfer to his bank account.
- b) All wages shall be paid through Bank or ECS or online transfer.
- c) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour.
- viii) The field units may also pursue with contractors of the existing contract to make payment to the labour by contractor through Bank or ECS or online transfer also.
- ix) Acceptable makes of materials to be used in the work are as under. However approval of the makes of material out of acceptable make shall be got from Engineer-in-Charge.

ACCEPTABLE MAKES OF EQUIPMENTS / ACCESSORIES

Sl. No.	Materials	Acceptable makes
1	MS Conduit (ISI Marked)	BEC / AKG / MKAY / RMG Steel Pvt. Ltd. (RMCON)
2	MS Conduit accessories (ISI Marked)	BEC / AKG / MKAY / RMG Steel Pvt. Ltd. (RMCON)
3	FRLS PVC insulated copper conductor (ISI Marked)	Polycab / RR Kable / Havells / Finolex / KEI
4	Modular Switch / Socket	Legrand (Arteor) / Schneider (Unica pure) / ABB (Ivie) / L&T (Englaze)
5	MCBDB	Siemens (Betagard) / ABB (Elegance) / Schneider (Acti-9) / Legrand (Ekinox)
6	Ceiling/Exhaust Fan	Usha / Havell's / Orient / Bajaj / Crompton
7	LED Light Fittings	Philips/ Trilux/ L&T / Wipro / Crompton / Havell's

Preference to PPP-M – II Policy (Make in India):

- (i) The Government has issued public procurement policy (Preference to Make in India) vide Ministry of Commerce and Industry Development of industrial policy and promotion (PPS) vide order No. P- 45021/2/2017-PP BE-II dated 28.05.2018, to –Encourage Make in India|| and to promote manufacturing and production of Goods and services in India with a view to enhancing income and employment. CPWD has decided to implement this policy.
- (ii) The agency shall submit list of makes of materials proposed to be used on the work from local suppliers (as defined in the above order dated 28.05.2018) along with minimum local content as specified below for approval of the department out of the approved makes kept in the tender.
- (iii) The department will be approving only makes of the materials having a minimum local content of 50% for use on this work, out of the preferred makes list.
- (iv) The minimum local content of 50% is considered for the complete item including labour component. The agency shall obtain the certificate for all items except for sundry items.

**Assistant Engineer (E)
Ranchi- I, CPWD,
AG Office Complex, Ranchi**

SCHEDULE OF WORK					
Name of Work : Maintenance of E & M Installation in Residential Building of New A.G. Colony at Doranda, Ranchi. (SH:- Repair & Renovation of Qtrs at New AG Colony Premises)..					
S No.	Description	Qty	Unit	Rate	Amount
1	Sub-Head-I (Wiring)				
1.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mmFRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required				
a)	Group A	60	Point	1440.00	86400.00
1.2	Wiring for light/ power plug with 2X4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	200	Metre	480.00	96000.00
1.3	Wiring for light/ power plug with 4X4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos. 4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable for loop earthing as required.	100	Metre	724.00	72400.00
1.4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.				
a)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	150	Metre	370.00	55500.00
b)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	75	Metre	652.00	48900.00
1.5	Supplying and drawing following pair 0.5 mm dia FRLS/HFFR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a)	2 Pair	50	mtrs	39.00	1950.00
1.6	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	50	Metre	54.00	2700.00
1.7	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
a)	20 mm	100	Metre	254.00	25400.00
1.8	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a)	20-25A Starter	9	Each	625.00	5625.00
b)	6 pin 15/16 A socket outlet	9	Each	219.00	1971.00
c)	Telephone socket outlet	3	Each	168.00	504.00
d)	TV antenna socket outlet	6	Each	168.00	1008.00
1.9	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	25	Each	47.00	1175.00
1.10	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	12	Each	402.00	4824.00
1.11	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch , connections etc. as required.	15	Each	545.00	8175.00

1.12	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	15	Each	659.00	9885.00
1.13	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required	3	Each	112.00	336.00
1.14	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	6	Each	757.00	4542.00
1.15	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
a)	1 or 2 Module (75mmX75mm)	10	Nos	354.00	3540.00
1.16	Providing and fixing plain 16/0.20mm (0.50sqmm) twin circular flexible FRLS/HFFR PVC insulated, PVC sheathed copper conductor cable direct on the wall with PVC clips etc. as required.	5	Mtrs	40.00	200.00
1.17	Supplying and fixing PVC batten/ angle holder including connections etc. as required.	15	Nos	132.00	1980.00
	SH:-II(MCB & DB)				
2.1	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, 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)				
a)	16 way, Double door	3	Nos	3367.00	10101.00
2.2	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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.				
a)	Single pole	42	Nos	285.00	11970.00
2.3	Supplying and fixing 40 amps to 63 amps rating, 240/415 volts, "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.				
a)	Double pole	3	Nos	1510.00	4530.00
3	SH-III (Fittings & Accessories)				
3.1	Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor , class of insulation: B, 3 nos. metal(Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al bodyPower Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req.				
a)	1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210	10	Each	2695.00	26950.00

3.2	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) COB Type of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing 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 ≥105 and <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) Powder coated die cast /Extruded aluminium Body including trim with Aluminium Reflector				
a)	18 watt	30	Each	920.00	27600.00
3.3	Supplying,Installation, testing and commissioning of surface mounted LED batten (length 2') fitting having System Lumen output ≥ 1000 lm, Metal housing , Power factor ≥ 0.9 having suitable diffuser and CCT in between 4000K to 6500 K (i/c both Limits) complete with all accessories etc. directly on ceiling/wall including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.(Mirror Light)	3	Each	678.00	2034.00
3.4	LED Batten light (System lumen efficacy ≥105 <120 lm/Watt) Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. 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 ≥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). Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm)	25	Each	681.00	17025.00

3.5	Supplying, Installation, Testing and Commissioning of Bulk Head LED fitting having System Lumen output ≥ 1000 lm, Powder coated die cast /Extruded aluminum Body housing Confirming to IP 65 & IK 08 , CRI ≥ 70 , Power factor ≥ 0.9 , having suitable diffuser and CCT in between 4000K to 6500 K (i/c both Limits) complete with all accessories etc. directly on ceiling/wall including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	5	Each	1591.00	7955.00
3.6	Supplying, Installation, Testing and Commissioning of wall mounting wall bracket, nickel/chrome finish fixture with acrylic/Opal Glass/Polypropylene carbonate diffuser suitable with 9 W LED lamp E27/B22 base. with 9W LED Bulb suitable for operation on 230 V, 50 Hz, AC supply including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	6	Each	1472.00	8832.00
3.7	Supplying, Installation ,Testing and Commisioing of fresh air fan with louver having sweep not less than 250 mm ,plastic body with all accessories suitable for operation on 230 volt ,50 Hz AC supply in existing opening, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	6	Each	2191.00	13146.00
3.8	Supplying, Installation ,Testing and Commisioing of Metal body light duty exhaust fan having sweep not less than 300 mm and RPM not less than 900 with all accessories suitable for operation on 230 volt ,50 Hz AC supply, in existing opening, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	3	Each	3237.00	9711.00
3.9	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, freq 50/60 hz, Operating temp range -5 deg to 50 deg centigrade, 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. ≥ 0.95 , IP-66, IK-10, CRI ≥ 70 , under voltage and over voltage protection, EMI-EMC 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°K/ 4000°K/ 5700°K/ 6500°K (As per ANS 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 $\geq 105 < 120$ 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).				
a)	100 watt	10	Nos	2543.00	25430.00
GRAND TOTAL					598299.00
GRAND TOTAL Say Rs					598299.00

Assistant Engineer (E)
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