



GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

**OFFICE OF THE EXECUTIVE ENGINEER (E)
ITANAGAR ELECTRICAL DIVISION,
CPWD, ITANAGAR (AP)**

NOTICE INVITING "e-TENDER"

NIT No. : 42/NIT/EE(E)/IED/Itanagar/2023-24

Name of Work: Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.

Estimated Cost put to Tender: Rs. 32,96,951/-

INDEX

Name of Work: Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.

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Certified that this NIT amounting to Rs. 32,96,951/- (Rupees Thirty Two Lakh Ninety Six Thousand Nine Hundred Fifty One only) contains 1 to 45 pages only in chronological order.

Executive Engineer (E)
Itanagar Electrical Division
CPWD, Itanagar

**CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING e-TENDERS**

The Executive Engineer (Electrical), Itanagar Electrical Division, CPWD, Itanagar, E-mail: ee.cedcpwd-so@nic.in on behalf of the President of India, invites online percentage rate bids from eligible contractors enlisted in CPWD in Building & Road Category in appropriate class in Single bids system for following work:

1. NIT No. : 42/ EE (E)/IED/Itanagar/2023-24,
2. Name of work: - **Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.**
3. Estimated Cost: Rs. 32,96,951 /-,
4. Earnest Money: **Rs. 65,939/-**
5. Period of completion: 03 (Three) Month,
6. Last time and date of submission of bid: Up to 03:00 on **12.03.2024**,

The bid forms and other details can be obtained from the website www.e-tender.gov.in/CPWD. The press notice is also available on www.eprocure.gov.in.

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

The Executive Engineer (Electrical), Itanagar Electrical Division, CPWD, Itanagar, E-mail: ee.cedcpwd-so@nic.in on behalf of the President of India, invites online percentage rate bids from eligible contractors enlisted in CPWD in Building & Road Category in appropriate class in Single bids system for following work:

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, Copy of Receipt of deposition of original EMD and other documents as specified in the NIT	Time & date of opening of Bid
1	2	3	4	5	6	7	8
1	NIT No. : 42/EE(E)/IED/Itanagar/2023-24	Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.	Rs. 32,96,951/-	Rs. 65,939/-	03 (Three) month	Up to 03:00 PM on 12.03.2024	03:30 PM on 12.03.2024

2. 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.
3. This information and instructions for bidders posted on website shall form part of bid document.
4. The bid document consisting of Plans, Specifications, 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> and <https://cpwd.gov.in>** free of cost.
5. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds or Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/and Bank Guarantee including e-Bank guarantee (for balance amount as prescribed) from any of the commercial Bank towards EMD in favour of Executive

Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD and other documents as specified.

6. Those contractors not registered or have not updated their profile on the website mentioned above are required to get registered/update their profile beforehand. The necessary training materials including videos with step to step process are available on download section of [https:// etender.cpwd.gov.in](https://etender.cpwd.gov.in)
7. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations/ transactions on the e-tendering portal/website and the bidders should download and install the eMsigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>
8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
9. Contractor can upload documents in the form of **JPG** format and **PDF** format.
10. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow 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 tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractor 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:

1.	Insurance Bond /Demand Draft / Account Payee Banker's Cheque / FDR / Bank Guarantee of any Commercial Bank against EMD.
2.	Receipt for deposition of original EMD issued from Division office of any Executive Engineer, CPWD. (including NIT issuing EE, CPWD)
3.	Enlistment Order of the Contractor.
4.	Electrical Contractor's License. However, intending bidders not in possession of valid Electrical Contractor's License, shall give an undertaking that they shall associate an Agency, having valid Electrical Contractor's License for execution of Electrical Works, if they become successful. (If required)
5.	<p>GST Registration Certificate of State in which work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration of the State in which work is to be taken up, or as required by GST authorities, then in such a case the bidder shall scan and upload following undertaking:</p> <p>"If work is awarded to me, I/We shall obtain GST registration certificate of the States, in which said works are 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 payments which will be due towards me/us on a/c of the works executed and/or for any action taken by CPWD or GST Department in this regard".</p>
6	PAN Card of the Contractor.

**Executive Engineer (E)
Itanagar Electrical Division,
CPWD, Itanagar**

CPWD-6 FOR e-Tendering

1. The Executive Engineer (Electrical), Itanagar Electrical Division, CPWD, Itanagar, (E-mail: ee.cedcpwd-so@nic.in) for & on behalf of the President of India, invites online Percentage rate bids in single bid system from approved and eligible contractors of Building and Roads category of appropriate class enlisted in CPWD for following work:

“Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.”

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

- 1.1 The work is estimated to cost **Rs. 32,96,951/-**. 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 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.~~

~~1.2. Intending bidders 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 bid documents~~

~~1.2.1 Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD Contractors~~

~~For works estimated cost upto tendering limit of class-I Building & Roads (erstwhile Composite/Building/Infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD Class I contractors of Horticulture category).~~

- ~~(i) Three similar works each of value not less than Rs. Or two similar works each of value not less than Rs. Or one similar work of value not less than Rs. (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.~~
- ~~(ii) For EPC tender under Mode-I/II only (Applicable for CPWD enlisted contractors of appropriate class also).
One completed work costing not less than Rs. executed with structural system technology as proposed by bidder in the letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.1 (i) above or as a separate work.~~

~~Note:-~~

~~For works costing above tendering limit of class II Building & Roads (erstwhile Composite/Building/Infrastructure) category contractors but upto tendering limit of Class I Building & Roads (erstwhile Composite/Building/Infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class II and CPWD Class I contractors respectively of Horticulture Category) when bids are open to non CPWD contractors also, then class II contractors of CPWD registered 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 the tendering limit of class I (Super) Building & Roads (erstwhile Composite/Building/Infrastructure) category Contractor (However for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture Category)~~

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

~~(ii) For EPC tender under Mode I/II only (Applicable for CPWD enlisted contractors of appropriate class also).~~

~~One completed work costing not less than Rs. executed with the structural system technology as proposed by bidder in letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.2 (i) above or as a separate work.~~

~~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 bid. This is applicable for 1.2.1 as well as 1.2.2 (Para 1.2.1(i) and Para 1.2.2(i) are not applicable for CPWD enlisted contractors of appropriate class. Para 1.2.1(ii) and Para 1.2.2(ii) are also applicable for CPWD enlisted contractors of appropriate class).~~

~~**To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:**~~

~~I/We undertake and confirm that eligible similar work(s) has / have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding 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 1.2.2.~~

~~But for such bids, 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 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 of the work will be **03 (Three) Month** 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. (i) The site for the work is available
Or
~~The site for the work shall be made available in parts as specified below:-~~
.....
(iii) ~~The architectural and structural drawing for the work is available~~
Or
~~The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.~~
5. The bid documents consisting of plans, specification, 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 Receipts, Bankers Cheque or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the commercial Bank (drawn in favour of **Executive Engineer, Tezpur Central Division, CPWD, Tezpur**) shall be scanned and uploaded on the e-tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bid or division office of any Executive Engineer, CPWD within period of bid submission. The EMD

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

A part of earnest money 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 including e-Bank Guarantee of any commercial bank having validity for period of a ~~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 the tenderers except the lowest tenderer 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 on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e-tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose 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 15:30 Hrs on **12.03.2024**

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

aforesaid provisions by the 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:**

“Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.”

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder 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 bidder 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 bidder 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 bidder 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 Housing and Urban Affairs. 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 works shall remain open for acceptance for a period of 30(thirty) days from the date of opening of bids in case of single bid system and 75 (Seventy Five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system.

Further:

- (i) If any tenderer withdraws his tender or make any modification in the terms and conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any tenderer withdraws his tender or make any modification in the terms and 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 bidder 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 C.P.W.D. Form 7/8 or other Standard C.P.W.D. 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 composite bid.~~

~~20.1.2 The bid 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 2020 as amended/modified up to 13.04.2023.~~

~~**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 components(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 alongwith 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 work out separately for each component corresponding to the estimated cost of the respective component of work.~~

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

~~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 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.~~

~~20.1.11 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. The CMB shall be maintained independently by Engineer in Charge of major and minor components.~~

~~20.1.12A 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.~~

~~20.1.12B Final bill of whole work shall be finalized and paid by the EE of major component.~~

~~Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.~~

- ~~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 works of estimated cost put to tender equal or more than the threshold value given in Schedule-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 (Phone * e-mail id *) 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.

Executive Engineer (E)

Annexure - A

JURISDICTION OF COURTS

- 1) The court of the place from where the letter of award of work has been issued shall have the jurisdiction to decide any dispute arising out of or in respect of the contract.
- 2) CPWD does not have funds of its own and it carries out the works of client departments from their funds (deposit, budgetary, authorization). The CPWD is making payments to the contractors after getting budget/ authorization/ deposit from various Ministries/ Client Departments. The payment to the contractor can be done only on availability of funds for that work from client department and in case of delay in getting funds from Ministry/ Client Department, CPWD will not be responsible for delay in payment and no any extra compensation on this account shall be granted apart from specified elsewhere in this document. The contractor has to quote his tender accordingly considering this aspect.

Executive Engineer (E)
Itanagar Electrical Division,
CPWD, Itanagar

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: ASSAM

ZONE : Shillong

BRANCH: E& M

DIVISION : IED

Percentage Rate Tender & Contract for Works

Tender for the work of: **Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.**

To be submitted online upto **15:00 hours** on **12.03.2024**

To be opened in presence of tenderers who may be present at **15:30 hours on 12.03.2024** in the office of the **Executive Engineer (E), IED, CPWD, Itanagar (AP).**

Issued to: Tender document made available Online

Signature of the Officer issuing the documents.

Designation: **Executive Engineer (E), IED, CPWD, Itanagar (AP).**

Date of issue: As per INFORMATION AND INSTRUCTIONS FOR BIDDERS

Executive Engineer (E)
Itanagar Electrical Division
CPWD, Itanagar

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 respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **Thirty (30) days from the date of its opening of bids** and not to make any modifications in its terms & 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 work 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 as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

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

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

Dated:
Witness:

Signature of Contractor
Postal Address

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the 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 the President of India

Dated

Signature.....
Designation.....

PERFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of Quantities (as per PWD-3)	:	Page 33-34
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SCHEDULE 'D'

Extra schedule for specific requirements /documents for the work	:	Technical specification, General Terms & Condition attached.
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SCHEDULE 'E'

Reference to General Conditions of contract	:	GCC'2020 (Maintenance work) CPWD-7 updated upto 13.04.2023 with upto date corrections slips issued till last date of submission of bid.
Name of Work	:	Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.
Estimated cost of work	:	Rs. 32,96,951/-
1) Earnest Money	:	Rs. 65,939/-
2) Performance Guarantee	:	5% of tendered value
3) Security Deposit	:	2.5% of tendered value

SCHEDULE 'F'

General Rules & Directions:-

Officer inviting tender	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar (AP).
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	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar (AP).
2(viii)	Accepting Authority	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar (AP).
2(x)	Percentage on cost of materials and labour to cover all overheads and profits.	:	15%
2(xi)	Standard schedule of Rates	:	DSR'2022

2 (xii)	Department	:	Central Public Works Department
9(ii)	Standard CPWD contract form GCC 2020, CPWD Form-7 / 8 as modified and corrected upto	:	Form 7 corrected up to last date of submission of bid.

Clause-1

(i)	Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or Proof of applying thereof from the date of issue of letter of acceptance.	:	7 Days
(ii)	Maximum allowable extension with late fee @ 0.10% per day of Performance Guarantee amount beyond the period provided in (i) above.	:	3 Days

Clause-2

Authority for fixing compensation under clause 2	:	Chief Engineer - Shillong, CPWD, Dhankheti, Shillong.
--	---	--

Clause-2 A

Whether Clause 2 A shall be applicable	:	No
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Clause-5

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

Milestone(s) as per table given below:

Table of Milestones:

S. No.	Description of Milestone (s) (Physical)	Time allowed in days (from the date of start)	Amount to be withheld in case of non-achievement of milestone.
----- NIL -----			

Time allowed for execution of work:

03 Months

Authority to decide:

(i)	Extension of time	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar.
(ii)	Rescheduling of mile stones	:	Chief Engineer - Shillong, CPWD, Dhankheti, Shillong.
(iii)	Shifting of date of start in case of delay in handing over of site	:	Chief Engineer - Shillong, CPWD, Dhankheti, Shillong.

Proforma of schedule clause-5 schedule of handing over of site.

Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	Complete site is free from hindrance	
Part B	Portion with encumbrances		
Part C	Portions dependent on work of the agencies		

Clause 6

Computerized Measure Book (CMB) / Electronic Measurement Book (EMB)

(i)	Mode of Measurement : CMB / EMB	Computerized measurement Book (CMB)
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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 to interim payment	:	4.00 Lakh
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Clause 7A

Whether clause 7 A shall be applicable	:	Yes
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Clause 10A

List of testing equipment to be provided by the contractor at site lab	:	1) Vernier caliper 2) Micrometer 3) HT megger & LT megger. 4) Weighing machine 5) Multi meter
--	---	---

Clause 10C

Component of labour expressed as percent of Value of work	:	30%
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Clause 10CC

Not applicable

Clause 11

Specification to be followed for execution of work	:	All relevant C.P.W.D. General Specifications for electrical and HVAC works amended up to date. Indian Electricity Rules, BIS / IEC & NBC-2016
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Clause-12

Authority to decide deviation upto 1.5 time of tendered amount	:	Executive Engineer(E), Itanagar Electrical Division, CPWD, Itanagar
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Clause-12.2 and 12.3

Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work:	:	All deviated quantities shall be paid at agreement rate.
--	---	--

Clause-12.4

(i)	Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	:	NA
(ii)	Deviation Limit for items mentioned in earth work subhead of DSR and related items	:	NA

Clause-16

Competent Authority for deciding reduced rates	:	Chief Engineer - Shillong, CPWD, Dhankheti, Shillong.
--	---	--

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	:	All tools, instruments required for testing of internal and external electrical installations.
--	---	--

Clause 19C

Clause 19 C	Authority to decide penalty for each default	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar
Clause 19 D	Authority to decide penalty for each default	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar
Clause 19G	Authority to decide penalty for each default	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar
Clause 19K	Authority to decide penalty for each default	:	Executive Engineer (E), Itanagar Electrical Division, CPWD, Itanagar

Clause-25

(i)	Conciliator	ADG-Region Guwahati
(ii)	Arbitrator Appointing Authority :	CE – Shillong
(iii)	Place of Arbitration:	Itanagar (Arunachal Pradesh)

Clause 32**Requirement of Technical Representative (s) and Recovery Rates**

Sl. No.	Requirement of Technical Staff		Minimum experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling.
	Qualification	Number (of Major + Minor component)			
1.	Graduate Mechanical Engineer Or Diploma Engineer	Electrical Engineer – 1 No.	2 Years	Site Engineer	Rs. 25,000/- (Rupees twenty five thousand only)

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

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

Clause 38

(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of printed by CPWD with up to date correction slips :-	:	NA
-----	-----	---	---	----

(ii) Variations permissible on theoretical quantities:

(a)	Cement			NA
	For works with estimated cost put to tender not more than Rs. 25 lakh	:		
	For works with estimated cost put to tender more than Rs. 25 lakh	:		
(b)	Bitumen All works.	:		
(c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	:		
(d)	All other materials.	:		

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/ Manual-2022/13

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 18.12.2023


Sub: Modifications in Para 12.1 for CPWD Works Manual 2022 - regarding deviation on contract amount in Maintenance Works.

Following modifications are made in Para 12.1 for CPWD Works Manual 2022:

Existing Provision	Modified Provision
12.1 Deviation on Tendered Amount (1) The completion cost of any maintenance work shall not exceed 2.0 times the tendered amount and 10% of the sanctioned cost for budgeted works. The Engineer-in-Charge shall record reasons for such deviation beyond the contract amount. Deviation upto 1.25 times of contract amount shall be approved by the Engineer-in-Charge with recorded reasons. Deviation beyond 1.25 times upto 1.50 times of contract amount shall be approved by SE/CE (as applicable) with recorded reasons. In exceptional cases ADG/SDG (as applicable) shall have power to approve the deviation beyond 1.50 times upto 2.0 times of contract amount with recorded reasons and take suitable corrective action. (2) For Deposit works, works on letter of authorization and works of cabinet secretariat through CSSA (Cash Suspense settlement Account), completion cost shall not exceed the A/A & E/ S amount without prior approval of the client and availability of funds.	12.1 Deviation on Contract Amount (1) The completion cost of any maintenance work shall not exceed 1.5 times of contract amount and 10% of the sanctioned cost for budgeted works. The Engineer-in-Charge shall record reasons for such deviation beyond the contract amount. Prior approval from SE/CE is required when completion cost of work is likely to go beyond 1.25 times of contract amount with recorded reasons. The powers to sanction the extra items and deviation are given in 'Financial Powers delegated to CPWD officers' (2) No change

This OM shall be applicable on the agreements drawn after the date of issue of this OM. For already drawn agreements, powers prior to issue of this OM shall be applicable.


This is issued with the approval of DG CPWD.


18.12.2023
(वी. पी. साहू)

अधीक्षण अभियंता (सी. एंड एम.)

Issued from file No. CSQ/CM/16(1)/2023 e-file 9163323

कैलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(कैलोनिवि वेबसाइट के माध्यम से)


18.12.2023
R K SINGH
EE (Manual)

**Central Public Works Department
Office Memorandum**

No. DG/CON/Maintenance 2023/05

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD 61.03.2024

NIRMAN BHAWAN, NEW DELHI

Dated: 20.02.2024

**Subject: Modifications in Conditions of Contract, Clause 19 and 20 of GCC
2023 for Maintenance Works**

The following amendments are made in the GCC 2023 for Maintenance Works:

Existing provision	Modified provision
CONDITIONS OF CONTRACT Definitions 9. Signing of Contract:- 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:- (i) to (iii) No Provision	CONDITIONS OF CONTRACT Definitions 9. Signing of Contract:- The successful tenderer, 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:- (i) to (iii) No change In the event of successful tenderer being a firm/company, then the agreement shall be signed by all the partners or directors thereof individually. In the event of the absence of any partner/director, it shall be signed on his behalf by a person holding a power of attorney (duly notarized by notary public or board resolution in case of company) authorizing him to do so.
Clause 19 B Payment of Wages (i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.	Clause 19 B Payment of Wages (i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971 and Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) amended time to time.

R.K. JAIN
(EE (Contact))

<p>(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.</p>	<p>Thus higher of the wages either notified by Govt. of India, Ministry of Labour and/or that notified by the local administration of the State Govt. both relevant to the place of work and the period of reckoning shall be paid by the contractor to the labourer .</p> <p>(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) and the modifications thereof or any other laws relating thereto and the rules made there under from time to time.</p>
<p>Clause 20 Minimum Wages Act to be Complied With</p> <p>The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.</p>	<p>Clause 20 Minimum Wages Act to be Complied With</p> <p>The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.</p>

This issues with the approval of DG CPWD.

[Signature] 01.03.2024
(V.P. Sahu)

Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023 e-file no. 9163323

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

[Signature]
20/04/2024
R.K. JAIN
(EE (Contact))

**Central Public Works Department
Office Memorandum**

No. DG/CON/Maintenance 2023/06

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI


Dated: 01.03.2024

Subject: Modifications in Clause 7 of GCC 2023 for Maintenance Works

The following amendments are made in the GCC 2023 for Maintenance Works:

Existing provision	Modified provision
Clause 7 Payment on intermediate certificate to be regarded as Advances No payment shall be made for work, estimated to cost Rs. Five lac or less till after the whole of the work shall have been completed and certificate of completion given. calendar month of the measurements recorded upto previous month as per clause 6.	Clause 7 Payment on intermediate certificate to be regarded as Advances No change.
The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved.	The contractor shall not be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved.
No provision	However, to expedite the progress of work, Engineer-in-Charge, on the request of contractor, may make interim payment(s) even before the net payment limit specified in schedule 'F' is achieved. In such case(s) no interest / compensation shall be recoverable from contractor. Such payment by Engineer-in-Charge shall not be construed as waiver of limit specified in schedule 'F' for subsequent interim payment(s).

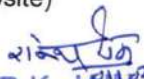
This issues with the approval of DG CPWD.


(V.P. Sahu)

Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file no. 9135972

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)


R.K. JAIN
(EE (Contact))

RECEIPT OF DEPOSITION OF ORIGINAL EMD

Name of work: - Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.

NIT No. - 42 /EE(E)/IED/Itanagar/2023-24

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

1	Estimated Cost	Rs. 32,96,951/-
2	Amount of Earnest Money Deposit	Rs. 65,939/-
3	Last date of submission of bid	12/03/2024

To be filled by EMD Receiving Executive Engineer/AE(P)/AE/AAO, CPWD

1	Name of Contractor	
2	Form of EMD	
3	Amount of Earnest Money deposit	
4	Date of submission of EMD	

**Signature, Name and Designation of EMD
Receiving officer (EE/ AE(P)/AE/AAO)
Along with office stamp**

On non-judicial stamp paper of minimum Rs. 100

(Guarantee offered by bank to CPWD in connection with the execution of contracts)

**Form of Bank Guarantee for Earnest Money Deposit/ Performance
Guarantee/ Security Deposit/ Mobilization Advance**

1. Whereas the Executive Engineer, Tezpur Central Division, CPWD, Tezpur on behalf of the President of India (hereinafter called "The Government") has invited bids under NIT No. 42/NIT/EE(E)-IED/2023-24 dated for t h e w o r k " Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.". The Government has further agreed to accept irrevocable Bank Guarantee for Rs (Rupees Only) valid up to (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, Tezpur Central Division, CPWD, Tezpur on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number with..... (name and address of the contractor) (hereinafter called "the Contractor") for execution of work " Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24". The Government has further agreed to accept an irrevocable Bank Guarantee for Rs (Rupees only) valid up to..(date) as **Performance Guarantee / Security Deposit/ Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement..

2. We, (indicate the name of the bank)..... (herein after referred to as "the bank"), hereby undertake to pay to the Government an amount not exceeding Rs..... (Rupees only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of the bank)....., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees.....only).
4. We, (indicate the name of the bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
5. We, (indicate the name of the Bank), further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said

agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, (indicate the name of the Bank), further agree that the Government as 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.
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. (Rupees only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date

Witnesses:

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

Bank seal |
| 2. Signature
Name and address | |

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

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

TECHNICAL SPECIFICATIONS AND ADDITIONAL, GENERAL TERMS AND CONDITIONS

NAME OF WORK: Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.

Technical Specifications:

1. These additional specifications are to be read in conjunction with the specifications given in respective part of this tender. In case any item/items or part thereof are not covered under given specifications in tender, 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 Heating, Ventilation & Air conditioning (HVAC) work 2017, 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.

Additional, General Terms and Conditions:

1. Terminology:

The definition of terms used in these specifications shall be in accordance with relevant IS.

2. Site Information:

Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam.

- (i) The tenderer should, in his own interest, visit the site and familiarize themselves with the site conditions before tendering.

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 labours 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.

6. Conformity with statutory Acts, Rules, Standards and codes

- i) All components shall conform to relevant Indian Standard Specifications, International Standards, amended to date and shall bear the stamp of the testing laboratory wherever existing.
All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 amended to date. They shall also conform to CPWD General Specification for Electrical Works Part-I (Internal) 2013, as amended up to date.

7. Safety Codes and Labour Regulations

- i) In respect of all labour employed directly or indirectly on the 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 form 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.

8. Works to be arranged by the department

Unless otherwise specified in the tender documents, the following works shall also be arranged by the Department:

- i) Space for accommodating all the equipments and components involved in the works. However, arrangement to make it lockable and its watch & ward shall be made by contractor himself.

9. 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 floor/wall supports for suspending/ supporting cable tray etc.
- ii) Painting of all exposed metal surfaces of equipments and components with appropriate colour as per relevant part of bid document.
- iii) 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.
- iv) All electrical works including cable/wires, earthing etc. beyond power supply made available by the department.
- v) Making good all damages caused to the structure during installation and restoring the same to their original finish.
- vi) 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.)

10. Rates:

The rate quoted by bidder, shall be firm and inclusive of all taxes, 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.

11. Power Supply:

Power supply shall be arranged by the contractor.

12. Water Supply

The water supply shall be arranged by the contractor.

13. 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.

Successful bidder is to comply with the Public Procurement (Preference of Make in India), Order 2017 dated 15.06.2017, while executing the contract. If any provision made elsewhere in this NIT, which in contravention with the Make in India policy, the later shall have preference over the former. Engineer-in-charge will have the final authority to take appropriate decision in the matter.

14. 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.

15. Completeness of the tender, submission of programme, approval of drawings and commencement of work

i) 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.

ii) Submission of programme:

Within seven days from the date of receipt of the letter of award, the successful tenderer shall submit his programme for submission of drawings, supply of equipment, installation, testing, commissioning and handing over of the installation to the Engineer-in -charge. This programme shall be framed keeping in view the building progress and the milestones fixed in Schedule 'F' Clause-5 of CPWD-7 shall be given priority.

iii) Submission of drawings:

The contractor shall submit the details drawings/AutoCAD drawings of all E & M/ installations, cable layout plan mentioned in the estimate along with detailed calculation sheets of technical data such as cable size calculation, electrical load details etc. as desired by the department to the Engineer-in-Charge for approval before start of the work and after approval of the same the supply of the materials will be initiated.

iv) Commencement of work

The contractor shall commence work as soon as the drawings submitted by him are approved either in full or in part as the case may be.

16. 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.

17. Extent of Work:

The work shall comprises 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.

18. Compliance with Regulations and Indian Standards:

18.1 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.

18.2 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.

18.3 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.

19. 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.

20. 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.

21. Verification of Correctness of Equipment at Destination:

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

22. Care of the Building

Care shall be taken by the contractor during execution of the work to avoid damage to the building. Care shall also be taken by the contractor to avoid the damage to any of these existing service/service lines, any part of the building etc. If any damage is caused to any of the existing services/service lines, or any part of the building the same shall be repaired / rectified and made functional or restored to its original finish by the contractor immediately at his own expenses failing which the same shall be repaired/ rectified and made functional by department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding. He shall also remove all unwanted and waste materials arising out of the installation from the site of work from time to time.

23. 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 6 months old from the date of delivery at site with manufacturer's certificates, warrantee cards, technical catalogues, instructions, manuals and wiring diagrams etc.

24. Safety Measures

All equipments shall incorporate suitable safety provision to ensure safety of the operating personnel at all times. The initial and final inspection reports shall bring out explicitly the safety provisions incorporated in each equipment.

25. Guarantee

- i) The contactor 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 12 months 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 contactor 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.

26. Taxes and Duties

The tender is for entering into percentage rate works contract. The rates shall be inclusive of all taxes, duties, levies, cess, packing, transportation, handling etc. Statutory deduction of GST as applicable shall be made at source from each running /final bill payment. A certificate of TDS shall be issued by the department to the contractor.

27. Terms of Payments:

Following payment terms shall be applicable.

- i) No advance payment shall be made.
- ii) Following percentage of contract rates shall be payable against the stage of work shown herein:

SL. No.	Stage of Work	Feeder Pillars & UG cable	LED fittings, Fans, MCBs & MCB DBs	All other items
1.	After initial inspection (wherever specified) and delivery at site in good condition on pro-rata basis.	60%	60%	50%
2.	After completion of installation in all respect on pro-rata basis.	25%	25%	35%
3.	After testing, Commissioning, Obtaining Clearance from Local Body and handing over to the department for beneficial use.	15%	15%	15%

28. Completion drawings

Three sets of the following laminated drawings shall be submitted by the contractor while handing over the installation to the Engineer in Charge. Out of this one of the sets shall be laminated on a hard base for display near panel. In addition one set will be given on compact disc.

- Line diagram of electrical supply.
- Detailed layout plan of electrical points and distribution boards.
- Technical particulars of each and every item to be used at site.
- Any other drawings relevant to the work.

29. Documents to be Furnished on completion of Installation

Three sets of the following documents shall be furnished to the department by the contractor on completion of works:-

- Completion drawings
- 3 Sets of manufacturer's technical catalogues of all equipments and accessories.
- Operation and maintenance manual of all major equipments, detailing all adjustments, operation and maintenance procedure.

30 GST and all other tax/cess as applicable shall be payable by the contractor and Govt. will not entertain any claim what so ever in respect of the same.

31. Agency / contractor should submit following documents.

Test report of Warranty certificate of LED fittings of OEM has to be submitted.

Executive Engineer(E)
Itanagar Electrical Division
CPWD, Itanagar (AP).

List of Acceptable Makes

Name of work: - Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.

Sl. No	ITEM	Name of Manufacturers
1	All Wires and Armoured Al. /Cu. Cables / TV Cable / Telephone wire	Havells/ RR Kable/ Polycab / KEI / Richa
2	Steel Conduit / PVC Conduit	AKG/ BEC / RM CON/ Polycab / Richa / Precision
3	Modular Type Switch/ Socket / Fan Regulator / RJ45 / TV Socket / Telephone Socket	Legrand (Myrius) / Havells (Coral) / Honeywell (BlenzePlus) / Schneider (Unica pure) / Hager (Insysta)
4	MCB DB/MCB	Legrand / Havells / L&T / Schneider / Hager / C&S / Siemens
5	MCCB	L&T- Dsine/ Schneider- Compact NSX/ Legrand- DPX3/ Havells - Loadline / C&S – Win Break 1 / Siemens
6	LT Panel /Feeder Pillar	Brahmaputra power and controls / Mariana / Electrokings / Electrowave / A.K. Engineering
7	Current Transformer	L&T / AE/ Kappa
8	LED Fittings/ Compound light / Street light/ Post top Fitting	Phillips/ Bajaj / Havells / Wipro/ Crompton
9	Ceiling fan/ Exhaust fan	USHA/ Havells/ Crompton/ Orient
10	GI / MS Pipe (ISI Marked)	Jindal /TATA
11	DWC / HDPE pipe	Gemini / Tirupati /Duraline / Rex / Astral

**Executive Engineer(E)
Itanagar Electrical Division
CPWD, Itanagar (AP).**

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NIT No. 42 / NIT/ EE(E)/ IED/ ITANAGAR/ 2023-24

Name of Work: Renovation of Residential Buildings (Electrical Work) at North Eastern Region Farm Machinery Training and Testing Institute Biswanath Chariali, Assam during the Financial Year 2023-24.					
Sl. No	Description of Item	Qty	Unit	@ 6.33% on DSR'22 item for increase in GST from 12% to 18%	Amount
1	<u>SUB-HEAD - 1 (Internal Wiring)</u>				
1.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSH PVC insulated copper conductor single core cable etc as required.				
1.1.1	Group-A	182	Points	1079.25	196423.41
1.1.2	Group-B	115	Points	1256.82	144534.37
1.2	Wiring for light/ power plug with 2X4 sq. mm FRLSH PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLSH PVC insulated copper conductor single core cable for loop earthing as required.	350	Mtrs	355.14	124299.77
1.3	Wiring for light/ power plug with 4X4 sq. mm FRLSH PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 2 Nos 4 sq. mm FRLSH PVC insulated copper conductor single core cable for loop earthing as required.	450	Mtrs	570.99	256946.45
1.4	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLSH PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required				
1.4.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	380	Mtrs	247.75	94144.58
1.5	Supplying and drawing following sizes of FRLSH PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
1.5.1	6 x 1.5 sq. Mm	150	Mtrs	192.46	28868.60
1.6	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
1.6.1	25 mm	260	Mtrs	154.18	40086.41
1.6.2	20 mm	260	Mtrs	136.10	35386.62

1.7	Supplying and drawing following pair 0.5 mm dia FRLSH PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
1.7.1	1 Pair	230	Mtrs	32.96	7581.33
1.8	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.	350	Mtrs	49.98	17491.29
1.9	Supplying and fixing of following sizes modular GI box along with modular base and cover plate for modular switches etc. as required.				
1.9.1	1 or 2 module	49	Nos	316.86	15526.31
1.10	Supplying and fixing of following modular accessories on the existing modular plate switch box including connections but excluding modular plate etc. as required.				
1.10.1	Telephone socket outlet	14	Nos	157.37	2203.16
1.10.2	TV antenna socket outlet	35	Nos	157.37	5507.89
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 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	60	Nos	507.19	30431.65
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 2 Nos 3 pin 5/6 amps modular socket outlet and 2 Nos 5/6 amps modular switch, connection etc. as required.	35	Nos	718.79	25157.68
1.13	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 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	84	Nos	623.09	52339.88
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 25 Amp amps modular socket outlet and 25 amps modular SP MCB, 'c' curve including connection etc. as required.	66	Nos	773.02	51019.26
1.15	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.	13	Nos	105.27	1368.47
1.16	Supplying and fixing PVC batten/ angle holder including connections etc. as required.	52	Nos	116.96	6082.08
	SUB-HEAD - 2 (Fans and Fittings)				

2.1	Supply, Installation, testing and commissioning of surface mounted LED light fitting 4 feet length, non-integral type, with CRCA housing and complete with high efficacy 18 / 20 Watt LED tube designed for high performance having luminous efficacy of minimum 100 lm/w, suitable for operation on 230 Volts 50Hz AC supply, complete with all accessories on wall/ceiling, including connection with 1.5 sq.mm FRLSH PVC insulated, copper conductor, single core cable etc. as required. (Luminaire shall be LM 79 & LM 80 Tested from NABL accredited lab and test report be submitted.)	53	Nos	1090.00	57770.00
2.2	Supplying, Installation, Testing and Commissioning of Fancy Wall bracket fitting along with 9W retrofit LED lamp including connection with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. as required.	46	Nos	924.00	42504.00
2.3	Supply, installation, testing & commissioning of 9-10 Watt LED mirror light fitting having aluminium housing and luminous efficacy of minimum 100 lm/w including connection with 1.5 sq.mm FRLSH PVC insulated, copper conductor, single core cable etc. as required. (Luminaire shall be LM 79 & LM 80 Tested from NABL accredited lab and test report be submitted.)	16	Nos	663.00	10608.00
2.4	Supply, Installation, testing and commissioning of recessed/surface mounted round LED light fitting, 12 Watt, with pressure die cast aluminium housing having luminous efficacy of minimum 100 lm/w, suitable for operation on 240 Volts 50Hz AC supply, complete with all accessories directly on ceiling or in recess, including connection with 1.5 sq.mm FRLSH PVC insulated, copper conductor, single core cable etc. as required. (Luminaire shall be LM 79 & LM 80 Tested from NABL accredited lab and test report be submitted.)	2	Nos	1733.00	3466.00
2.5	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor ,class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit 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 Supply, earthing etc. complete as required.	37	Nos	2902.81	107403.93
2.6	Supplying installation testing and commissioning of 250 mm sweep exhaust fan having PVC body in the existing opening including making connection etc complete as required.	17	Nos	2413.00	41021.00

2.7	Supply, installation, Testing and commissioning of 225/230 mm sweep Light duty metallic body exhaust fan in the existing opening including making connection etc. complete as required.	13	Nos	2267.00	29471.00
2.8	Supplying, Installation, testing and commissioning of Skirting/Foot LED light 3 module along with GI 3 module box i/c cover plate suitable for operation on 240 Volts 50Hz AC supply with with 1.5 sq.mm FRLSH PVC insulated, copper conductor, single core cable and earthing etc. as required.	19	Nos	1190.00	22610.00
2.9	Supplying, Installation, Testing & commissioning of 10 Watt LED Bulk head fitting with lamp having minimum luminous efficacy of 100 lumen / watt, IP65 protection directly on wall including connection with 1.5 sq.mm FR LS PVC insulated, copper conductor, single core cable & earthing etc. as reqd. (Luminaire shall be LM 79 & LM 80 Tested from NABL accredited lab and test report be submitted.)	29	Nos	1453.00	42137.00
2.10	Supplying, Installation, Testing and Commissioning of 9W LED lamp having minimum luminous efficacy of 100 lumen / watt etc. Complete as required.(Lamp shall be LM 79 & LM 80 Tested from NABL accredited lab and test report be submitted.)	52	Nos	121.00	6292.00
	SUB-HEAD - 3 (MCB & DB'S)				
3.1	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)				
3.1.1	16 way double door	16	Nos	3339.83	53437.20
3.1.2	12 way double door	4	Nos	2461.54	9846.16
3.2	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.				
3.2.1	Single pole	224	Nos	272.20	60973.88
3.3	Supplying and fixing following rating, 240 V, 10 kA, "C" curve, miniature circuit breaker of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
3.3.1	40 A DP	20	Nos	1162.00	23240.00
3.4	Supplying and fixing following rating, double pole, (Single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
3.4.1	40 A	20	Nos	2809.24	56184.77

3.5	Supplying and fixing Cable End Box (Loose wire box)(IP 43) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with testing and commissioning etc. as required.				
3.5.1	For 12 way, Double door SPN MCBDB	4	Nos	861.27	3445.09
3.5.2	For 16 way, Double door SPN MCBDB	16	Nos	959.10	15345.55
	<u>SUB-HEAD - 4 (Cabling Work and Feeder Pillars)</u>				
4.1	Supplying of following size XLPE insulated and PVC sheathed armoured aluminium power cable of 1.1 KV grade, ISI marked (IS 7098, Part 1: 1988 and ammended up to date) including transportation etc. as reqd.				
4.1.1	3.5 x 120 sq.mm	210	Mtrs.	1164.00	244440.00
4.1.2	3.5 x 95 sq.mm	140	Mtrs.	948.00	132720.00
4.1.3	3.5 x 25 sq.mm	90	Mtrs.	339.00	30510.00
4.2	Supplying of following size XLPE insulated and PVC sheathed armoured copper power cable of 1.1 KV grade, ISI marked (IS 7098, Part 1: 1988 and ammended up to date) including transportation etc. as reqd.				
4.2.1	3 x 10 sq.mm	730	Mtrs.	776.00	566480.00
4.3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/HDPE pipe as required.				
4.3.1	Upto 35 sq.mm	650	Mtrs.	39.34	25572.37
4.3.2	Above 95 sq. mm and upto 185 sq. Mm	350	Mtrs.	81.87	28655.94
4.4	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
4.4.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	50	Mtrs.	58.48	2924.08
4.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
4.5.1	Upto 35 sq. mm	30	Mtrs.	29.77	893.17
4.5.2	Above 95 sq. mm and upto 185 sq. Mm	30	Mtrs.	66.99	2009.64
4.6	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.				

4.6.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	650	Mtrs.	262.64	170712.82
4.6.2	90 mm dia (OD-90 mm & ID-76 mm nominal)	140	Mtrs.	308.36	43169.98
4.6.3	120 mm dia (OD-120 mm & ID-103 mm nominal)	200	Mtrs.	391.29	78258.88
4.7	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
4.7.1	3½ X 120 sq. mm (45mm)	4	Nos	651.80	2607.21
4.7.2	3½ X 95 sq. mm (45mm)	2	Nos	625.22	1250.44
4.7.3	3½ X 25 sq. mm (28mm)	2	Nos	332.81	665.63
4.7.4	3 X 10 sq. mm (22mm)	19	Nos	273.27	5192.09
4.8	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required				
4.8.1	100 mm dia	6	Mtrs.	1920.32	11521.92
4.9	Supplying and embedding following dia G.I. pipe (medium class) for cable entry including bending the pipe to the required shape complete as required.				
4.9.1	40 mm dia	30	Mtrs.	626.28	18788.51
4.10	Fabrication, Supplying, Installation, Testing & Commissioning of electrical Feeder Pillar of cubical construction, double door, mounted on angle iron stand, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coating of approved shade after 7 tank treatment process, cable alley, inter-connection, having switchgears and accessories as given below, mounting on suitable foundation including providing and making PCC foundations and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for operation on 415 V, 3 phase, 50 HZ. AC supply with enclosure protection class IP 54 as required, with wire mesh all around it with danger plate fixed and as per drawing approved by Engineer-in-Charge (To be fabricated from CPRI approved workshop).				
	Sheet Material and Thickness: 2 mm thick CRCA sheet.				
	Legs made out of angle iron Should be at least 750 mm in height				
	Bus Bar : 3 phase 4 strip, 200 A Aluminium busbar				
	Paint Shade & Thickness: RAL 7035(70 micron).				
	Construction of Panel Type : Outdoor , IP-55/54				
	Cable Entry -I/C -Bottom, O/G - Bottom.				

	Tape wound current transformer of suitable capacity-3 nos				
	Voltmeter and ammeter of suitable ranges.				
	LED Red/Amber/Green Phase Indication Lamps - 1 set.				
	2A MCB SP 10kA C' Curve - 3Nos.				
	32 A Neutral Link for protection -1 No.				
	125 A MCCB 4 Pole 25 kA with Thermal magnetic release for Q/L and S/C protection. -1 No.				
	125 A Spreader Links for above MCCB (set of 8 Nos) - 1 No..				
	125 A Extended Rotary Handle for above MCCB -1 No.				
	100 A MCCB 3 Pole 25 kA with Thermal magnetic release for Q/L and S/C protection -1 No.				
	100 A Spreader Links for above MCCB (set of 6 Nos) 1 No				
	100 A Extended Rotary Handle for above MCCB -1 No				
	63 A MCCB 3 Pole 16 kA with Thermal magnetic release for Q/L and S/C protection -2 Nos.				
	63 A Spreader Links for above MCCB (set of 6 Nos) 2 Nos				
	63 A Extended Rotary Handle for above MCCB - 2 Nos.				
	63 A DP, 10 Ka MCB C curve- 8 Nos	1	Job	129984.00	129984.00
	<u>SUB-HEAD - 5 (EARTHING)</u>				
5.1	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	10	Sets	7288.92	72889.22
5.2	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	20	Mtrs.	305.17	6103.34
5.3	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	10	Mtrs.	44.66	446.59
	Grand Total			Rs.	3296950.57
	SAY			Rs.	3296951.00

Executive Engineer (E),
Itanagar Electrical Division
CPWD, Itanagar (AP)