



**GOVERNMENT OF INDIA
OFFICE OF
SUPERINTENDING ENGINEER, DELHI CIRCLE-VI,
C.P.W.D., THYAGRAJ NAGAR, NEW DELHI.**

NOTICE INVITING TENDER

N.I.T. No. : 13/SE/DC-6/DED-61/2026-27

NAME OF WORK : RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).

ESTIMATED COST : Rs. 1,88,04,763/-

EARNEST MONEY : Rs. 3,76,095/-

TIME ALLOWED : 12 Months

NIT amounting to **Rs. 1,88,04,763/-** [Rs. One Crore Eightty Eight Lacs Four Thousand Seven Hundred Sixty Three only) having Pages No. 1 to 66 is hereby approved.

**Assistant Engineer (Elect.)P
Delhi Circle-VI, CPWD
Thyagraj Nagar, New Delhi**

**Superintending Engineer
Delhi Circle-VI, CPWD
Thyagraj Nagar, New Delhi**

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NIT No. 13/SE/DC-6/DED-61/2026-27

Time :- 12 Months

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Certified that this N.I.T. contains page 1 to 63 **(Sixty Three Pages Only)**

Assistant Engineer(E)P

This N.I.T. is approved for **Rs. 1,88,04,763/-**

(Rs. One Crore Eighty-Eight Lacs Four Thousand Seven Hundred Sixty-Three only)

Vide NIT .No. 13/SE/DC-VI/DED-61/2026-27.

Approved

**SUPERINTENDING ENGINEER
DELHI CIRCLE-VI, CPWD,
THYAGRAJ NAGAR, NEW DELHI**

PART -A

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE
(Applicable for inviting open bids)

The Executive Engineer (E), Delhi Electrical Division - 61, CPWD, Pushpa Bhawan, New Delhi (**Telephone No. 011-29051185 & Email id: eeded61@gmail.com**) on behalf of the President of India invites online percentage rate bids from approved and enlisted contractors of composite/Building & Road category in CPWD for the following work(s):-

S. No.	NIT No.	Name of Work & Location	Estimated Cost put to bid (Rs.)	Earnest Money	Stipulated Period of completion of work (in months)	Last date and time of on line submission of Bid and other Documents as specified in the bid document	Time & date of opening of tender/ bid
1	2	6	4	5	6	7	8
1.	13/SE/DC-VI/DED-61/2026-27	RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH-Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).	Estimated: -Rs. 1,88,04,763/-	Rs. 3,76,095/-	12 (Twelve) Months	3.00 PM On 17.08.2026	3.30 PM on 17.08.2026

- 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.
- This information and Instructions for bidders posted on website shall form of bid document.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website: <http://www.etender.cpwd.gov.in> or cpwd.gov.in free of cost.

For works involving specialized E&M Services see at S.No. 1.2.1 of CPWD-6 E-tendering.

- 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 Demand draft or Pay order or Bankers Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any scheduled Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer, DED-61 **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.
- Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
- The intending bidder must have valid class-III digital signature to submit the bid.
- On opening date, the contractor can login and see the bid opening process. After opening of bid he will receive competitor bid sheets.
- Contractor can upload documents in the form of JPG format and PDF format.

-* - To be Filled By EE

9. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as “0”.

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

However, If a 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.

10. Contractor should quote the percentage above or below to two places of decimal only.
11. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
12. The tenderers shall sign a declaration under the officials Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them. Otherwise department may reject the bid.
13. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
14. If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
15. Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.

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

1. Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
2. EMD receipt for deposition of original EMD to division office of any EE, CPWD.
3. Enlistment Order of the Contractor.
4. GST Registration Certificate, if already obtained by the bidder.

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

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

5. Undertaking for site inspection (Intending bidders must upload undertaking that they have inspected and examined the site and it's surrounding before submitting their bids, duly submitted as per **Annexure-D** on Page No. 45.
6. Valid Electrical Contractor License or undertaking that “I/We shall either submit valid electrical license for the execution of electrical work along with PG or associate an approved and eligible contractor of CPWD in appropriate class having valid electrical contractor license”.
7. Copy of Pan Card.
8. Undertaking that- they will associate OEM/OEA of Lifts (**Johnson, Omega, Schindler**) and **OEM/OEA of DG Set (Cummins)** as per the criteria given in **CPWD-6 FOR e-TENDERING/ BIDDING 1.2.1 a to d**, within 10 days after issue of letter of award. **Failing which, our Performance Guarantee (PG) as well as Additional Performance Guarantee (APG) shall be liable to be forfeited**, without prejudice to any other action by the department.
9. Any other document as specified in bid document.

Executive Engineer (E)
Delhi Electrical Division-61, CPWD,
Pushpa Bhawan, New Delhi

Format of Receipt of Deposition of Original EMD

Receipt of deposition of original Bank guarantee as EMD (Receipt No..... / date.....)	
NAME OF WORK:	RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).
1. NIT No.	13 /SE/DC-VI/DED-61/2026-27
2. Estimated Cost:	Rs. 1,88,04,763/-
3. Amount of Earnest Money Deposit:	Rs. 3,76,095/-
4. Last date of submission of bid	17.08.2026 upto 3.00PM
<i>(*To be filled by Tender Inviting Authority/NIT approving authority at the time of issue of NIT and uploaded along with NIT)</i>	
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 alongwith Stamp	
<i>(# to be filled by EMD receiving EE/DDH)</i>	

CPWD-6 FOR e-TENDERING/BIDDING

Percentage Rate bids are invited on behalf of President of India from CPWD registered approved and eligible contractors of appropriate class for the work of: **RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).**

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.

- 1.2.1 The composite contractor has to associate agency(s) for specialized components(s) conforming to eligibility criteria as defined and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s):
 - a. **Comprehensive & Maintenance of Lift (Johnson make)**
The contractor must associate OEM/OEA of Lift Johnson make for Item No 2.1 & 2.2 of Schedule of work SUB HEAD - 2
 - b. **Comprehensive & Maintenance of Lift (Omega make)**
The contractor must associate OEM/OEA of Lift Omega make for Item No 2.3 of Schedule of work SUB HEAD - 2
 - c. **Comprehensive & Maintenance of Lift (Schindler make)**
The contractor must associate OEM/OEA of Lift Schindler make for Item No 2.4 of Schedule of work SUB HEAD - 2
 - d. **Comprehensive & Maintenance of DG Set (Cummins make)**
The contractor must associate OEM/OEA of DG Set Cummins make for Schedule of work SUB HEAD - 3
1. The work is estimated to cost Rs. **1,88,04,763/-**, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be 12 **(Twelve) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site shall be made available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from 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. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of Executive Engineer (E), ECD-5, CPWD, Pushpa Bhawan, New Delhi shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid

submission. The EMD receiving Executive Engineer (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 of any scheduled bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders. Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded 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.

9. The bid submitted shall be opened at 03:30 PM on 17.08.2026

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:-

- (i) The bidder is found ineligible.
- (ii) The bidder does not 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 / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11 The contractor whose bid is accepted will be required to furnish Performance Guarantee at specified percentage of the tendered amount as mentioned in Schedule E given as under and within the period specified in Schedule-F :

(a) PG shall be 5% of the **Estimated Cost put to tender (ECPT) or contract amount whichever is higher**, or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of **six months** beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh pG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.

(b) A bid will be treated as abnormally low if the quoted bid amount is **lesser than 80%** of the estimated cost put to tender.

(c) **Requirement of Additional Performance Guarantee (APG):** In case of abnormally low bids as defined the above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount is 0.7A then the amount of APG shall be 0.8A - 0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG. **(As per O.M. No. DG/Manual-2024/20 dated 27.02.2026).**

This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000) or Deposit at Call receipt of any Scheduled Bank / Banker's cheque of any Scheduled Bank / Demand Draft of any Scheduled Bank / Pay order of any Scheduled Bank (in case guarantee amount is less than Rs 1,00,000) or Government Securities or Fixed Deposit Receipts of a Scheduled Bank or Bank Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. 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 and ESIC, including Provident Fund Code Number if applicable and also ensure the compliance of aforesaid provisions by the sub-agencies, if any, engaged by the Bidder for the said work with in the period specified in Schedule-F.

12. In case, after opening of tender, the bidder withdraws or modify the bid during the validity of tender including extended validity if any or after award of work fails to sign the contract or after acceptance fails to submit performance guarantee along with requisite documents mentioned elsewhere in the NIT or fail to submit either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO and ESIC, including Provident Fund Code Number if applicable and also ensure the compliance of aforesaid provisions by the sub-agencies, if any, engaged by the Bidder for the said work before the due date indicated in Schedule-F, the bidder shall be suspended for one year and shall not be eligible to bid for CPWD tenders from the date of issue of suspension order as per undertaking given by bidder 'Form A'.

13. The description of the work is as follows: -

RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).

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 bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

14. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
15. 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 to rejection.
16. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
17. The contractor shall not be permitted to bid for works in the CPWD Circle responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
18. No Engineer of gazette rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for

a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

19. The bid for the works shall remain open for acceptance for a period of thirty (30) days from the date of opening of bids. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.
20. This Notice Inviting bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
 - (a) The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and the rates quoted at the times of submission of the bid and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard CPWD Form-7, GCC 2023 (Maintenance work) as corrected/modified, amendments issued upto last day of the online receipt of tender.
21. No advance payment is allowed in maintenance works, irrespective of the value of work.
22. In case of extension of agreement due to delay and/or reduction in scope of work due to foreclosure, no claim on account of reduction in value of work, loss of business, loss of profit, consequently overheads, any type of interest etc. shall be entertained.
23. If the exigencies of the work so demand, the engineer-in-charge may allow payment to a third party, who is creditor to the contractor, after fulfilling the conditions under clause 7B.

.....
 Signature of Divisional Officer
 For & on behalf of President of India

INFORMATION & INSTRUCTION FOR BIDDERS

1.0 DEFINITIONS

- 1.1 In this document the following words and expressions have the meaning hereby assigned to them.
- 1.2 **EMPLOYER:** Means the President of India, acting through the **Executive Engineer (E), Delhi Electrical Division - 61, CPWD, Pushpa Bhawan, New Delhi.**
- 1.3 **Bidder:** Means the individual, proprietary firm, firm in partnership, limited company private or public or corporation.
- 1.4 “Year” means “Financial Year” unless stated otherwise.

2.0 METHOD OF APPLICATION

- 2.1 If the bidder is an individual, the application shall be signed by him above his full type written name and current address.
- 2.2 If the bidder is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.
- 2.3 If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten name and current addresses or alternatively by a partner holding power of attorney for the firm. In the later case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
- 2.4 If the bidder is limited company or a corporation, the application shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a public Notary

3.0 FINAL DECISION MAKING AUTHORITY

The employer reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidder.

4.0 PARTICULARS PROVISIONAL

The particulars of the work given in Section I are provisional. They are liable to change and must be considered only as advance information to assist the bidder.

5.0 SITE VISIT

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings and himself collect all information that he considers necessary for proper assessment of the prospective assignment.

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE:- **Delhi**CIRCLE:- **Delhi Circle-VI**BRANCH:- **B&R**DIVISION:- **DED-61**REGION:- **Delhi**

PERCENTAGE RATE BID

Name of work :- RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).

SCOPE OF THE TENDER

The scope consist of : RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT New Delhi dg 2026-27. (SH-Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).

- (i) Bids to be submitted online by **3.00 PM on 17.08.2026**
- (ii) To be opened online in presence of Bidders who may be present at **3:30 PM on 17.08.2026** in the office of **Executive Engineer (E), Delhi Electrical Division - 61, CPWD, Pushpa Bhawan, New Delhi.**

Issued to Bid document made available on line to the agency.

Signature of the Officer issuing the documents on line uploading authority

Designation: **Executive Engineer (E), DED-61, CPWD, Pushpa Bhawan, New Delhi.**

Date of issue.....

-*- To be Filled By EE

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, of 2023 (Maintenance Works) with upto date amendments to 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.

We agree to keep the tender open for **Thirty (30) days** from the due date of opening of bid and not to make any modifications in its terms & conditions.

If I/We, fail to furnish the prescribed performance guarantee along with requisite documents mentioned elsewhere in the NIT within prescribed period or fail to submit either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, and ESIC including Provident Fund Code Number if applicable and also if fail to compliance of aforesaid provisions by the sub-agencies, if any, engaged by me/we for the said work before the deadline defined in the tender documents indicated in Schedule-F. 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 suspend for one year and shall not be eligible to bid for CPWD tenders from date of issue of suspension order.

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

Further, I/We agree that in case of forfeiture of 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 for ever. 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 Performance Guarantee.

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

Dated: #.....

Signature of Contractor #

Witness: #

Postal Address #

Address: #

Occupation: #

To be filled in by the contractor

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 President of India

Signature ,.....

Dated:

Designation

-*- To be filled by EE.

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 Performance Guarantee/Security Deposit

1. Whereas the **Executive Engineer (E), DED-61, CPWD, Pushpa Bhawan, New Delhi.** 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..... (name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... as **Performance Guarantee/security Deposit** 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. (Rupeesonly)
4. We, (indicate the name of the Bank) , further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, (indicate the name of the Bank)further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner. our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. We, ...-..... (indicate the name of the Bank)....., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank of 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 or demand by the Government. Notwithstanding anything mentioned above, our liabilities under this guarantee is restricted to Rs.....(Rupees.....only) and unless a claim in writing is lodged with is 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.

Part-B

कार्यों की अनुसूचियां PERFORMA OF SCHEDULES (A to F for Elect. work)

अनुसूची 'क' SCHEDULE 'A'				
मात्राओं की अनुसूची (संलग्न) Schedule of quantities			Attached (Electrical Works) Page No. 48 to 62	
अनुसूची 'ख' SCHEDULE 'B'				
ठेकेदार को निर्गत की जाने वाली सामग्रियों की अनुसूची Schedule of materials to be issued to the contractor				
क्रम. सं. S.No.	मद विवरण Description of item	मात्रा Quantity	जिस दर पर सामग्रियां ठेकेदार को प्रभावित होगी वह दर अंकों एवं शब्दों में Rates in figures & words at which the material will be charged to the contractor	निर्गत स्थान Place of Issue
1	2	3	4	5
-----NIL----- (Material required for the work shall be arranged by the Contractor)				
अनुसूची 'ग' SCHEDULE 'C'				
ठेकेदार को भाड़े पर दिए जाने वाले औजार एवं संयंत्र Tools and plants to be hired to the contractor				
क्रम. सं. S.No.	विवरण Description	भाड़ा प्रभार प्रतिदिन Hire charges per day	निर्गत स्थान Place of Issue	
1	2	3	4	
-----NIL----- (shall be arranged by the Contractor)				
अनुसूची 'घ' SCHEDULE 'D'				
कार्य के लिए विशेष अपेक्षाएं/दस्तावेज, यदि कोई हों, की अतिरिक्त अनुसूची Extra schedule for specific requirements/documents for the work, if any.			NIL	
अनुसूची 'ङ' SCHEDULE 'E'				
ठेके की सामान्य शर्तों का संदर्भ Reference to General Conditions of contract			General Conditions of Contract Maintenance Works 2023 as modified & corrected upto previous day of the last date of submission of the tender.	
कार्य का नाम Name of Work :				
RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).				
कार्य की अनुमानित लागत Estimated cost of work :			Rs. 1,88,04,763/-	
(i)	धरोहर राशि Earnest money		Rs. 3,76,095/-	

(ii)	निष्पादन गारंटी Performance guarantee	(a) PG Shall be 5% of the Estimated Cost put to tender (ECPT) or contract amount whichever is higher , or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of six months beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh pG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions. (b) A bid will be treated as abnormally low if the quoted bid amount is less than 80% of the estimated cost put to tender. (c) Requirement of Additional Performance Guarantee (APG): In case of abnormally low bids as defined the above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guafantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount is 0.7A then the amount of APG shall be 0.8A - 0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.(As per O.M. No. DG/Manual-2024/20 dated 27.02.2026)
(iii)	प्रतिभूति निक्षेप Security Deposit	2.5% of Tendered Value
अनुसूची 'च' SCHEDULE 'F'		
सामान्य नियम एवं दिशानिर्देश: General Rules & Directions :		
निविदा आमंत्रण करने वाला प्राधिकारी Officer inviting tender -		Executive Engineer (E) DED-61, CPWD, Pushpa Bhawan, New Delhi
कार्य की मदों की मात्रा के लिए अधिकतम प्रतिष्ठत जिससे अधिक निष्पादित मदों के लिए दरों का निर्धारण खण्ड 12.2 और 12.3 के अनुसार होगा 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 relevant clause
परिभाषाएँ:- Definitions:		
2 (v) भारसाधक इंजीनियर Engineer-in-Charge		Executive Engineer (E) DED-61, CPWD, Pushpa Bhwan, New Delhi
2(vi) स्वीकार कर्ता प्राधिकारी Accepting Authority		Superintending Engineer, Delhi Circle-VI, CPWD, New Delhi or successor thereof

2(x) अतिरिक्त और लाभों को पूरा करने के लिए सामग्रियों की लागत पर प्रतिशतता Percentage on cost of materials and labour to cover all overheads and profits		15%	
दरों की मानक अनुसूची Standard schedule of Rates		Delhi Schedule of Rates 2025 (correction issued upto day previous to the last day of online receipt of tender) and Market Rate	
2(xi) विभाग Department		Central Public Works Department	
9(ii) मानक के.लो.नि.वि. टेका फार्म तक संशोधित और शोधित के.लो.नि.वि. फार्म 7 Standard CPWD Contract Form :		Standard CPWD Contract Form General Conditions of Contract 2023 (Maintenance Works) for CPWD Form – 7/8 as modified & corrected upto previous day of the last date of submission of the tender.	
खण्ड Clause 1			
(i)स्वीकृति पत्र जारी होने की तारीख से निष्पादन गारंटी के प्रस्तुतीकरण के लिए अनुमत समय, दिनों में (i) Time allowed for submission of Performance Guarantee alongwith requisite documents mentioned elsewhere in the NIT , Programme Chart (Time and Progress) and applicable Labour Licences, Registration with EPFO and ESIC or proof of applying thereof from the date of issue of letter of acceptance, and also ensure the compliance of aforesaid provisions by the sub-agencies, if any, engaged by the Bidder, in days		07 Days	
(ii) समय वृद्धि, दिनों में (ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above		03 Days	
खण्ड Clause 2 खण्ड 2 के तहत प्रतिकर निश्चित करने वाला प्राधिकारी Authority for fixing compensation under clause 2		Superintending Engineer, Delhi Circle - 6, CPWD New Delhi or successor thereof	
Clause 2A Applicable clause/clause 2A लागू खण्ड 2 /खण्ड 2क		No	
खण्ड Clause 5 कार्य आरम्भ करने की तारीख की गणना के लिए स्वीकृति पत्र जारी होने की तारीख से दिनों की संख्या Number of days from the date of issue of letter of acceptance for reckoning date of start		10 Days	
लक्ष्य मील-पत्थर सारणी Table of Mile-stones		लक्ष्य नीचे दी गई सारणी अनुसार As per Table given below	
S. No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be withheld in case of non achievement of Milestone (of agreement amount)
-----Nil-----			
कार्य निष्पादित करने के लिए अनुमतय समय Time allowed for execution of work		12 Months	

Authority to decide :-	
(i) Authority to convey the decision of shifting of milestone and extension of time.	Executive Engineer (E), DED-61, CPWD New Delhi or successor thereof
(ii) Authority to decide rescheduling of mile stone and extension of time	Superintending Engineer Delhi Circle-6, CPWD New Delhi or successor thereof
(iii) Shifting of date of start in case of delay in handing over of site	Superintending Engineer Delhi Circle-6, CPWD New Delhi or successor thereof
खण्ड Clause 5 Applicable Clause5/Clause5A	Clause 5
Clause 6 Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB) through CPWD ERP portal	Applicable (EMB)
खण्ड Clause 7 अंतरिम भुगतान के लिए पात्र होने के लिए अंतिम ऐसे भुगतान के बाद कुल भुगतान एकत्रित सामग्रियों के अग्रिमों के समायोजन सहित किया जाने वाला कुल कार्य Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 15.67 Lakhs
खण्ड Clause 7A Whether Clause 7A shall be applicable	Yes
खण्ड Clause 7B	Applicable
खण्ड Clause 10 A List of testing equipment to be provided by the contractor at site lab:	As per direction of Engineer-in-charge All equipment required for commissioning
खण्ड Clause 10 B Whether Clause 10 B (ii) shall be applicable	Not Applicable
खण्ड Clause 10C Component of Labour expressed as percent of total value of work	60%
खण्ड 10xx खण्ड 10गग उन संविदाओं पर लागू होगा जिसमें कार्य समापन की अवधि, अगले कालम में दर्शायी गई अवधि से अधिक अनुबंधित है। Clause 10CC Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column Applicable/ Not Applicable Schedule of Component of materials, Labour etc. For price escalation. Component of civil (except materials covered under clause 10CA) /Electrical construction Materials expressed as percentage of total value of work.	12 माह 12 Months Not Applicable expressed as percent of total value of work. Xm.....%
Component of labour:-	expressed as percent of total value of work. Y.....%
POL	Nil

खण्ड Clause 11 कार्य निष्पादन के लिए अनुपालन किए जाने वाले विनिर्देश Specifications to be followed for execution of work	CPWD Specifications for Electrical works Part-1 (Internal- 2023), Part-II (External) 2023, Part-III Lift & Escalators - 2003 and Part VII D.G. Sets - 2013 with correction slips issued upto day previous to the last day of online receipt of bids & Manufacturer's Specifications.	
खण्ड Clause 12 Type of Work The completion cost of agreement should not exceed 1.5 times of Tendered amount	Maintenance Work	
Authority to decide Deviation:-		
(i) Upto 1.25 times of Contract Amount (With recorded reasons)	Engineer-in-charge	
(ii) Beyond 1.25 times upto 1.50 times of Contract Amount (With recorded reasons)	SE, DC-6 or successor thereof	
(Modified as per SOP - 2024)		
12.3 विचलन सीमा, जिसके परे खण्ड 12.2 तथा 12.3 भवन निर्माण कार्य के लिए लागू होंगे 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work	No Limit	
खण्ड Clause 16 घटी हुई दरे निर्धारित करने की लिए सक्षम प्राधिकारी Competent Authority for deciding reduced Rates	SE, Delhi Circle-6, CPWD New Delhi, upto 5% value of Agmt. Quantity beyond that with the approval of ADG (Delhi) .	
खण्ड Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site:	As per actual required at site and shall be arranged by the contractor.	
Clause 19	(Authority to decide penalty for each default)	Engineer-in-Charge.
Clause 19C		
Clause 19D		
Clause 19G		
Clause 19K		

Clause 25	
Settlement of Disputes by Conciliation and Arbitration :	
	For all claims in disputes.
1. Conciliator-	Additional Director General (Delhi)
2. Arbitrator Appointing Authority	Superintending Engineer, DC-VI, CPWD, New Delhi
Place of Arbitration	New Delhi

Clause 32**Requirement of Technical Representative(s) and recovery Rate**

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	
Minimum Qualification of Technical Representatives	Number			Figures	Words
Graduate Engineer Or Diploma Engineer	1+1	2 or 5 respectively	Project Manager/cum Planning/ Quality/site/ billing Engineer	Rs.15,000/- per month per person	Rs. Fifteen Thousand per month per person

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

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

Clause 38

(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2025 printed by CPWD with up to date correction slips	
Variations permissible on theoretical quantities:		
a)	Cement for works with estimated cost put to tender not more than Rs. 25 Lakh	3% plus/minus
	For works with estimated cost put to tender more than Rs 25 Lakh	2% plus/minus
b)	Bitumen for all works.	2.5% plus only & nil on minus side
c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	2% plus/minus
d)	All other materials.	Nil

ANNEXURE 'B'
Form-Y

MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN

1] M/S [Name of the firm/agency with full address]

Enlistment Status

Valid Upto:

[Henceforth called the main contractor]

And

2]M/S [Name of the firm/agency with full address]

Enlistment Status

Valid Upto:

[Hence forth, called Associated Agency]

1. For the execution of Electrical Work(s) **“RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH-Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).”**

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto date] and the department [CPWD] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the EE (E), DED-61, CPWD, New Delhi. Any of us may appeal against the mediation to the ADG(Delhi),CPWD, New Delhi. His decision shall be final and binding on both of us.

We have agreed as under:

- 1] The associated agency will execute all electrical work in the wholesome manner as per terms and conditions of the agreement and as per the direction of the Engineer-in-charge.
- 2] That the Associated agency has gone through the contract and has understood the scope of work required for the purpose of executing electrical work.
- 3] All the machinery and equipments, tools and plants, special T&P required for execution of the specialized work(s), as per agreement, shall be the responsibility of the associated ed agency.
- 4] The site staff required for the electrical work(s) shall be arranged by the associated agency as per terms and conditions of the agreement.
- 5] Site order book maintained for the said work shall be signed by the authorized representative of main contractor as well as Associated Agency.

6] All the correspondence regarding execution of the electrical work(s) shall be done by the Department with the Associated agency with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated agency shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR

Date:

Place:

SIGNATURE OF ASSOCIATED AGENCY

Date:

Place:

TERMS AND CONDITIONS

Name of Work : RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH-Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).

Staff requirement on duty at NCERT Campus, New Delhi.

A. SUB HEAD-I (Operation & Maintenance)

S.No.	Category	Shift(Time)	Qty.
Item No. 1.1.1	For Non-Residential/Office Buildings		
(i)	Wireman grade-1 (On all working days excluding Sundays andHolidays)	9.00 am - 5.00 pm	04 Nos.
(ii)	Khallasi (On all working days excluding Sundays andHolidays)	9.00 am - 5.00 pm	02 No.
Item No. 1.2.1	Pump Operator (One in each shift)	6:00 AM to 2:00 PM 2:00 PM to 10:00 PM	2 Nos
1.3.1	Wireman cum DG Operator (One in each shift)	6:00 AM to 2:00 PM 2:00 PM to 10:00 PM 10:00 PM to 06:00 AM	3 Nos.
1.3.2	Khallasi (General shift)	9.00 AM - 5.00 PM	1 No.
1.4	Electrical Technican (General shift)	9.00 AM - 5.00 PM	1 No.
1.5	Fire Technician/ Fire Operator = (1No. in each shift), Khallasi 1 No. in general shift.	6:00 AM to 2:00 PM 2:00 PM to 10:00 PM 10:00 PM to 06:00 AM 9.00 AM - 5.00 PM	3 Nos 1 No.

1.6	Lift Operation	Shift(Time)	Qty.
	NIE Guest House		
	Lift operator (On all days including Sundays and Holidays) (1 No. in each shift)	6.00 am- 2.00 pm, 2.00pm -10.00pm, 10.00 pm-6.00 am	03 Nos.
	Science block		
1	Lift operator (On all working days excluding Sundays andHolidays)	9.00 am - 5.00 pm	01 No.
	G.B Pant block		
	Lift operator (On all working days excluding Sundays andHolidays)	9.00 am - 5.00 pm	01 No
	B.R. Ambedkar Khand		
	Lift operator (On all working days excluding Sundays and Holidays)	9.00 am - 5.00 pm	01 No.

	Z.H Khand		
	Lift operator (On all working days excluding Sundays and Holidays)	9.00 am - 5.00 pm	01 No.

The above staffs are minimum requirement, the contractor shall depute more staff as and when situation arises so that the works are executed in time for which no extra cost shall be made.

(Separate reliever for above staff is to be provided as per labour law)

(Khallasi in all above works can be utilized where ever required other then specified.)

Qualification:- Wireman/Operator/ AC Mechanic should have passed ITI / Diploma and should possess valid wireman license / electrical wireman permit / electrician license with at least Five years' experience.

Khallasi should be physically & mentally fit.

1. The work shall be carried out as per CPWD general specification for electrical works Part-I (Internal) 2023, Part-II(external)-2023, Part-III (Lift & Escalator)-2023, Part-IV (Sub Station)-2013, Part-V (Wet Riser and Sprinkler System)-2020, Part-VI (Fire Detection and Alarm System)-2018, Part-VII (DG Sets)-2013, HVAC Works-2017, IE rules, Indian standards amended upto date and as per direction of Engineer-In-Charge. The additional specifications are to be read with above and in case of any variations, specifications given along with the tender shall apply.
2. In respect of all labour employed directly on the work for the performance of the contractors part or work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I. S recommendations, factory act, workman/s compensation act, CPWD code and instructions issued for time to time. Failure to provide such safety requirements would make the tenderer liable for penalty for Rs. 200/ for each violation. In additions the Engineer-In-Charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.
3. The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work 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 executions of work. The contractor shall also provide all insurance including third party insurance as may be necessary to covet the risk. No extra payment would be made to the contractor due to the above provisions thereof.
4. The firms are advised to inspect the site before quoting the rate and no increase shall be entertained afterwards.
5. Safe custody including watch and ward of the plant/ system, all the fixtures and other machinery will be entire responsibility of the contractor.
6. Cleaning of entire system/ units/ room/ machinery and other equipment will be the responsibility of the contractor. If the room is not found satisfactory at any time by the department recovery of Rs.50/- per day shall be made from the contractor's bill.
7. The contractor will be responsible for conduct of the contractor's staff, should have to obey the instructions of the Engineer-in-charge.
8. Contractor has to take over the complete inventory before starting the work and should return the same in good working condition after close of contract. If any discrepancy is found the contractor has to make good at his own cost otherwise recovery will be made from the contractor's bill. Decision of EE (E) will be final and binding on the contractor.
9. Contactor shall provide first aid facility for his staff at site. Failing to which Rs. 5000/- per incident noticed shall be made from the bill.
10. The firm should pay at least minimum wages fixed by the Central Government with other allowances etc. to all his employees covered under this contract.
11. For Holiday/ Sunday no extra payment will be made. It is the contractor's duty to arrange weekly off or holiday to the workers by making alternative arrangement for which no extra payment shall be made.

12. The staff employed by the contractor should wear the uniform and badges otherwise recovery at the rate of Rs.50/- per day will be made from the contractor's bill. Liveries will be provided by the contractor to his staff for which nothing extra shall be paid.
13. The deptt. will not be a party in event of any dispute between contractor and his staff on legal matters. The contractor is fully responsible for any dispute between him and his labourer.
14. The contractor shall be fully responsible for any loss of life/ accident of all his staff during currency of the contract due to any reason. Any amount of compensation to be paid on account of such happening shall be borne by the firm himself and not by the department.
15. Whenever any major defects occur in the system the firm will inform immediately to department for taking proper action.
16. The contractor will be fully responsible for the conduct of staff so deputed by him.
17. The contractor shall provide and maintain attendance register for the maintenance staff at site which shall be checked by JE (E)/ AE (E). Bonus paid to labour is covered under overhead charges. Nothing extra shall be paid by the department on this account.
18. All the sundry material soap, complaint register, log book for workers diary, tape, detergent, old dhoti etc. the agency has to arrange at his own cost.
19. All the dismantled material shall have to be returned to JE (E) Incharge at his store.
20. Contractor has to maintain compliant register at his own cost. A complete record of all the complaints is to be entered in the register, the register is to be get checked from JE in-charge of the work.
21. The Contractor shall make his own arrangement for tools for electrical and mechanical works for the use of their staff. No. T&P shall be issued by the department. Nothing extra shall be paid to the firm in any shape by the department.
22. Water and power supply will be supplied free of cost for bonafide use at the work only.
23. Department reserves the right to terminate the contract before/after the expiry of contract period without assigning any reason. This will normally be as a result of unsatisfactory performance of the contract validity of the contract can however be extended in accordance with of PWD-7.
24. The operation timings can be modified as per need of the client department.
25. Any damage made by the contractor or the staff of the contractor deployed at the site of work during contract period shall be made good by the contractor at his own cost. The staff engaged by the contractor should be well behaved, polite and courteous. Any complaints against staff misbehavior should be taken very seriously and such staff should be removed by the contractor immediately from the site and arrange replacement for the same failing which the Engineer- in-charge has the power to cancel the contract and the contractor shall have no right to claim of loss/compensation.
26. The character and antecedents of staff employed by the contractor shall be got verified from the police by the contractor.
27. The contractor shall provide details of Staff to be engaged containing information's like name, father's name, residential address and Date of Birth of staff alongwith recent passport size photograph, residential address and identity proof etc. as may be required.
28. All the complaint registers, log books, workers diary or any other record pertaining to work shall be supplied by the contractor and will be maintained by the staff of the contractor which will be handed over to the department on the completion/ termination of the contract.
29. The contractor shall submit the attested photocopy of wiremen's license & produce the wiremen' license in original to Engineer-in-Charge before start of the work and as and when demanded.
30. The Contractor shall provide 1 no mobile phone round the clock at site to enable the JE(E)/AE(E) Engineer-in-charge to have easy and quick communication. Nothing extra shall be paid to the contractor on this account and his quoted rates for various items under this contract will be inclusive of this obligation.
31. The contractor shall arrange to render efficient services as outlined above. However in case he fails to maintain the services to the satisfaction of the Engineer-in-charge and the department has to incur any expenditure to maintain the installations by alternative arrangement the expenditure thus incurred will be recovered from the contractor, for which

- decision of the Engineer-in-Charge shall be final and binding.
32. The quantity & item stipulated in schedule of quantity of each work is tentative and indicative hence subjected to variation. Payment of only those quantities will be made which is actually executed at site.
 33. As the installations /equipments are in running condition. The installations shall be handed over on "as is where is basis" and nothing extra shall be paid towards pre- maintenance as the equipments are in running condition.
 34. Any other inventory added during the contract period to any of the installations will also be maintained within the scope of work without any extra cost.
 35. After the expiry of the contract, the firm shall have to hand over all installations to the department in proper working order. All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge failing which the work shall be got done at the risk and cost of the firm.
 36. Inventory of the installations to be maintained under the agreement of this work will be taken over by the contractor at the time of start of work and same inventory shall be handed over to the department by the contractor in working condition on completion of work.
 37. Workers engaged by the contractor/ firm cannot claim for permanent Job/ Regularization as this is a Job Oriented Work only.
 38. The Bonus, EPF & ESI etc shall be paid to the concerned department by the firm in respect of labour engaged by them & shall be reimbursed to the firm on production of documentary proof thereof.
 39. The contractor will arrange & store all the materials at Enquiry office within **15 days of the issue of award letter, failing so penalty of 1000/- per day** shall be levied, required for attending day to day maintenance complaints for at least 3 months or as decided by Engineer-in-Charge, throughout agreement period. A material at site (MAS a/c.) register shall be maintained by the contractor for materials brought at site & used in day-to day maintenance work. The MAS a/c. shall be kept at service centre so that officers of CPWD can review the quantity and quality of material present in store. This MAS a/c. shall be the property of Engineer-in-Charge after the completion of work.
 40. The Contractor has to make his own arrangement of the tools. Further T&P required at site shall be arranged by Contractor. Following T&P shall always be available at site of work otherwise recovery at the rate of Rs 5000/- per month shall be made for number of days it is not found at site of work: -

Megger	:	1 No.
Earth tester	:	1 No
Crimping tools	:	1 Set
Spanner Set	:	3 Set
Allen Keys set	:	3 Set
Hammer Drill	:	1 Set
hacksaw	:	3 Nos
Vacuum Cleaner		1 No.
Smoke Generator:		1 No.
Portable Emergency Light	:	2 Nos.
Tongtester	:	1 No.
Air Blower	:	1 No.
Ladder of different sizes	:	2 Set
Tool Bags with required tools such as Plier, Tester, Knives Screw Driver set, Rawl Plug with different size of screws etc.	:	All wiremen

41. If the electric supply fails from the supply company, the necessary complaint will be logged by the agency and shall be got it restored. Nothing extra will be paid on this account.
42. In the wake of any pandemic, all the labour/ staff deployed at site has to follow all the guidelines/ safety precautions issued by the Govt. time to time like mask, hand sanitizer, social distancing etc., failing so penalty of Rs.1000/- per labour per incidence shall be levied. Arrangements may be also be made for testing and vaccination of the workers.
43. The agency will maintain and get various registers viz. attendance register, log book, complaint register, workers diary, MAS register, T&P register, wages register along with ESI, EPF and bank statement and record of all workmen employed by him for the work vide GCC annexure-IV "Regiser of Workmen employed by contactor". It should checked on monthly basis latest by 7th day of the month, failure to which Rs. 3000/- per incident shall be made from the bill.
44. All the documents related to worker shall be submitted latest within 3 days from the commencement of work otherwise penalty of R. 1000/- per day for delay shall be made from the bill.
45. Without tools, the staff deployed shall be consider absent from duty.
46. The record of all the preventive maintenance as per periodicity and test report shall be entered in the logbook.
47. **The work shall be carried out in security zone area, hence necessary passes shall have to be arranged by the contractor for the workers engaged by him. The deployment shall be done in consultation with client and CPWD. The contractor has to get the approval of the client through CPWD before actual deployment.**
48. **The lowest bidder for security verification will be send to client and after getting Security Approval from client, his bid will be considered otherwise his bid will be cancelled.**

(Sub-Head-A- Routine Maintenance)

1. All maintenance as well as repair /addition alteration /modification work will be strictly carried out & followed as per CPWD Maintenance Manual 2023 amendment upto date for all relevant E&M service.
2. All the material to be used on this work by the contractor shall be got approved from the Engineer-in- Charge before supplying at site.
3. The bad workmanship will not be accepted and defects shall be rectified at contractor's cost to the satisfaction of the Engineer-in-Charge. The electrical works are to be executed in coordination with the building work and no claim for idle labour will be entertained.
4. All the debris of the works should be removed and the site should be cleared by the contractor immediately after accumulating of debris. Similarly, any rejected material should be immediately cleared off from the site by the contractor and will be dumped at places notified by local authorities.
5. The Electrical items of supply shall be ISI marked wherever applicable and as per the approved list enclosed in NIT. If any of the accessories available in the market is not ISI marked then decision of Engineer-in-charge will be final and binding to the contractor.
6. All the cleaning material i.e. soap, duster, PVC tape roll etc. shall be arranged by the contractor at his own cost, for cleaning of Electrical Installations & fans, switch gears, DBs, Panel and all other equipments/ accessories/pipe lines etc. associated with above E&M Services. If cleaning of installation is not found satisfactory at any time, a recovery of Rs. 500/- per occasion per site shall be made from the bill of contractor.
7. The contractor shall monitor the complaints lodged by the occupants by any mode such as verbally, telephonically, CPWD e-Sewa website etc., by receiving, attending and closing the case with suitable remarks, after duly attending the complaints.
8. The complaints lodged shall be attended within 12 Hrs. of lodging. Emergency complaints like leakage of Electric currents, sparking, short circuiting, Fire and No electricity shall be given priority and will be attended within 2 Hrs. of lodging. Failure of which shall attract a penalty of Rs. 500/- per complaint per day. The complaint can be lodged through writing /telephonically /text message/orally shall be treated as registered complaint at the time of communication of same to contractor staff.
9. In case of major break down the staff deployed by contractor at site may be asked to stay beyond their duty hours whenever required and nothing extra shall be paid on account of this.

10. The sundry material like hole fastners, dash fastners, nuts bolt, screws, washers, fan rubber reel/Fan cotter pin, PVC tape, saddles, tie, clip for wire/cables, mobil oil, grease, gland dori, PVC Seals, Rubber bushes, old dhoti, detergent, thimble, connector, holder, gland packing, torch, cell, starter, choke, driver, gland, cable joint, cement and sand for minor repairs etc. should be made available by contractor free of cost & nothing extra shall be paid by department on this account.
11. The contractor will test insulation and earth test of the system once in six months and submit the results to the engineer in charge. Non compliance of this clause shall invite penalty @ Rs. 500 per fortnight.
12. The firm must observe all the necessary precautions/measures so that there should not be any breakdown during the meeting/conferences/events. The firm has to attend to any fault immediately or has to provide suitable alternative immediately so that programme/ proceedings should not be disturbed.

13. Scope of Work for Routine Maintenance:-

- i) For EI works requirement is to attend day to day complaints, rectifying defect and making functional all electrical points, fans, luminaries & circuit wiring, sub main wiring, switchgears, bus bars, cables etc. in the electrical installations by replacing the defective fans/ fittings/ item/parts/wires, cables, if necessary, and carry out routine maintenance of internal electrical installation i.e. main switch boards, sub-distribution boards, sub-main connection, cable connection, inter-connections, fittings including various electrical accessories.
- ii) Check that – there is no sign of heating up, burning smell, sparking at any of the boards (SDBs as well as main boards), and Rising Mains. These may occur due to overloading or loose terminations. Highly unbalanced loading may cause heavy neutral currents and consequent heating of neutral conductors and terminals.
- iii) Cleaning, Servicing & up keeping of equipment such as control panel, busbar, cables, starter, ceiling fan, motor, pumping set, DG Sets and associated installation i/c all the electrical panel/meter/ pump rooms as required in accordance with maintenance, routine & specific as required.
- IV) Minor Repair of collar and cable entry box of street light pole.
- V) Maintenance schedule for E.I.

S. No.	Activity	Periodicity
1	Inspection, cleaning, tightening of loose connection of all electrical installation, Panel, DB, MCB, MCCB etc.	Fortnightly
2	Cleaning of All E.I. by blower	Bi-monthly
3	Checking of system load distribution & balance the same	Half Yearly
4	Cleaning fittings and fan	Half yearly
5	Conducting insulation and earth test	Half Yearly
6	Conduct polarity test	Yearly

Terms and Conditions for Material.

- The material shall be procured only from the manufacturers & their authorized dealers & documentary proof for such procurement & supply shall be produced by the contractor. Contractor has to produce original bill/challan to the Engg.-in-charge and will maintain alongwith MAS register.
- The department reserves the right to send such materials to the manufactures authorized test laboratory to verify the genuineness & quality of the product.
- The successful bidder must keep sufficient quantity of fixtures like switch, socket, wires, MCB's, isolators, DB's, choke, condenser, tape, fitting fans, exhaust fan, fresh air fan and other consumable required for day to day maintenance at store of engineer in charge at site. The contractor shall also arrange all the material like cotton waste, cloth soap bar, fuse wire, black tape, cable glands, rope, cables, wires, call bell, thimble lugs, HRC fuses, cable jointing kits, insulation tape, all other consumable materials. Nothing extra is payable on account of the materials required to maintain the electrical installation.

AIR CONDITIONING SYSTEM:

1. The work is to be carried out in NCERT Campus, which is restricted area. Hence No claim for idle labour if any shall be entertained.
2. The contractor shall be responsible to maintain all Split / window type AC units installed at different floors in NCERT Campus in perfect working condition as stated in schedule of work. During running period of contract, the responsibility of physical custody of Air conditioners will rest on the contractor. It shall be the responsibility of the firm to hand over the AC units under contract in working condition to the deptt at the end of the contract.
3. The running maintenance work involves routine servicing, repair & comprehensive maintenance of split type AC units & window type AC units, and shall include all repair/replacement of parts,i.e. thermostat,relay, condenser, fan blade, PCB, Remote control, running capacitor/moder capacitor air filter, thimble, copper pipe, condensing unit and motor etc i/c attending electrical faults complete with chemical for cleaning, foam insulation, lugs, screws, nuts & bolts, PVC tape, PVC wire, etc. Nothing extra shall be paid on this account. However compressor & gas charging are not covered in the scope of work, which shall be paid separately as per actual requirement.
4. A minimum stock of spares including compressors,relay, capacitor, fan & blower motors,refregrant gas, PCB, Remote control, fan blades & accessories etc will have to be maintained at the premises by the firm for meeting immediate exigencies of work and upkeep of equipments at all times.
5. The contractor has to do complete service of the units i/c overhauling, greasing, cleaning with vomikline / lifeguard chemical of the complete units maintained by him from the month of February every year compulsory. In addition to this if service and cleaning as & when required will also be done free of cost for smooth running of the machines. Nothing extra shall be paid on this account.
6. The outdoor & indoor units of the split ACs shall be kept neat & clean & all waste material & malba if any around the outdoor units shall be removed immediately. Nothing extra shall be paid on this account.
7. Recovery shall be made @500/- per complaint if any complaint is not attended within 12 hours.
8. In case the services are found unsatisfactory, the department has got the right to close the contract after giving one month notice to the contractor without assigning any reason & without giving any compensation.
9. Log book as per standard Performa will be supplied by the contractor and have to be filled in by the contractor's staff. The log book will be kept in the custody of AE/JE which will be checked by the Engineer-in-charge or his representative. The contractor will have to take action as per direction of Engineer-in-charge or his representative from time to time.
10. All the materials including cleaning material required at site shall be supplied by the contractor for which nothing shall be paid extra.
11. At the start of work contractor has to make all units in working condition and after due repair excluding replacement of cooling and condenser coil. Presently maximum no. of AC units are in working condition.
12. Contractor is advised to visit the site to assess the condition of AC units before quoting the rates.
13. A number of AC units are new and may have guarantee on compressor and PCB. It is the responsibility of the contractor to get repaired and replaced the compressor from the OEM during the guarantee period if there is a delay a stand by arrangement is to be made by the contractor.
14. The contractor shall be responsible for any damage done to the building or electrical installations during the execution of the work. Damage, if any shall have to be made good by the contractor at his own cost failing which the same shall be got rectified/made good at the risk and cost the contractor.

15. The work shall be carried out in engineering like manner and bad workmanship shall be rejected summarily. For redoing the job, no claim of the contractor shall be entertained on this account.
16. Any damage caused to the electrical installation A.C. Units such as Window Type/ Split Type/ Cassette Type Air Conditioning system, or its accessories due to carelessness of the contractor's staff or any, shall have to be made good by the contractors at his own cost and nothing extra shall be paid on this account.
17. The work is of purely temporary nature and can be closed at any time without assigning any notice/ reason to the contractor. It may also be noted that the contractor shall be employer of all workmen/staff engaged by him on this work and any claim raised by them for regularization in the department shall not be entertained.
18. Contractor has to maintain the weekly check report of all equipments for comprehensive maintenance.
19. The contractor has to maintain the service / preventive / routine maintenance record and the same should be submitted to the department duly signed by the JE (E)/ AE (E).
20. The contractor have to submit proof (such as bill/challan etc.) of purchasing the material from authorized source with supply of material serial no. of compressor must be mentioned in the documents.
21. If the compressor of AC out of order or worn out that the firm will intimate to the Department Immediately otherwise he will be reportable for any hardship or in conveyance.
22. All the material to be used on this work by the contractor shall be got approved from the Engineer-in-Charge before supplying at site.
23. In case of any damage to any machine, equipment and building on account of negligence of contractor's staff, the same will have to be made good promptly at his own cost, & to the entire satisfaction of the Engineer-in-charge or his representative failing which, suitable recovery will be made from the contractor's bill.
24. After the expiry of the contract, the WTAC/STAC will be handed over back to the department in similar condition as was handed over to the contractor at time of start of the contract except normal wear and tear and the part of which the contractor is not responsible, failing which recovery will be made from contractor's final bill. The decision of Engineer-in-charge shall be final and binding.

Substation

1. The work shall be carried out as per CPWD general specifications of Sub-Station works (Part-IV), 2013 as amended upto date.
2. The contractor shall have to arrange the minor repair works such as replacement of gland dori, distilled water, battery terminals rubber gasket, greasing of motor bearings, oiling screws and bolts, indicating lamps, glass for manual call box, tapes etc. for which nothing extra shall be paid. Other works which is not included in the minor works shall be taken care by the department.
3. All the minor items such as cotton waste, grease, detergent, pilot lamp for phase indicator , kerosene oil, sand paper PVC tapes, stationery items/ printed stationery and control fuses shall be arranged by the contractor for which nothing extra shall be paid.
4. The skilled person of the firm has to maintain log books for sub-station showing all the details. The log books for sub-station will be arranged by the firm and shall be deposited with the department after its completion. Hourly readings shall be entered in the log books for HV and MV sides.
5. The staff engaged on operation and maintenance should be able to do preventive maintenance visualize the faults likely to crops up during operation to avert major break down or wear and tear of the installation. Record of preventive maintenance shall be kept in the log books.

6. The firm should use the change over system i/c sharing of load on the LT panel through bus coupler etc. provided in the sub-station to ensure uninterrupted power supply in case of occurrence of fault in any of box and its sections.
7. The contractor and or his representative, labour should not remove, disturb, dislocate the existing equipment and its parts from its position until and unless it is authorized by the Engineer-in-Charge in writing. The entire installation should be intact at any time of inspection. Care shall also be taken not to damage installation by improper handling etc. The contractor shall be responsible for any damage or theft and shall have to make good to its original shape and description as and when damage/theft etc. is noticed or taken place due to wrong operation of the equipment or negligence of the contractor's staff.
 - (i) The scope of work includes operation and maintenance of Sub Station.
 - (ii) Repair and replacement of internal wiring, fuses, MCB, MCCB/FSU, indicating instruments, meters etc. in MV panel/feeder pillars.
 - (iii) The contractor shall clean LT switchgears, feeder panel, bus-bars by air blower once in three months.
 - (iv) All the routine parameters and fortnightly routine preventive maintenance and others schedule maintenance carried shall be entered in the logbook. Non-carrying of preventive maintenance will attract penalty of Rs. 5000/- per incident which shall be levied from the bill.
 - (v) Proper preventive maintenance of electrical installation particularly for the following items of work shall be carried out as per period stated against them. The contractor should chalk out the suitable programme for doing the test result and inform the Engineer-in-charge in advance and same shall be noted in suitable register maintained by the contractor.
 - Earth testing: Once in a year.
 - Insulation test: Once in six months.
 - Cleaning of installation: Once in three months
 - Consumables like electrolyte, distilled water & Jelly are included in the scope of work.

Note: However, the contractor has to take corrective measure whenever required.

Scope of work for Preventive Maintenance

1. Servicing, overhauling, cleaning & testing of HT Panel board with ACB/VCB/OCB with Busbar, tightening of contacts/ connection, removing dust with blower/vacuum cleaner, cleaning & decarbonising the HT panel, fixed contacts of switchgears, replacement of burnt thimbles, oiling, greasing, HT taping & compound etc.
2. Servicing, overhauling, cleaning & testing of LT Panel board alongwith all switchgears with Busbar, tightening of contacts/connections, tightening of cable end termination, replacing burnt thimbles etc.
3. Testing , Servicing & calibration of IDMT relays by primary & secondary injection method, cleaning the contact, resetting with required accuracy complete with checking and set right the wiring etc.
4. Servicing of 11 KV/ 110V PT i/c removal of PT from HT panel board, cleaning of main tank after taking out the complete oil etc.
5. Checking and testing of transformer, wiring, connection, dehydration & filtration of transformer oil upto minimum BDV of 50 KV at standard gap electrodes etc.
6. Supplying and topping up of transformer oil & replacement of silica gel etc.

NOTE: - Periodical servicing & overhauling for Sub Station (SOQ) shall be done every year. Ist servicing and overhauling shall be done within 6 months after award of work, failing which recovery shall be made @ 50000/- for each sub station.

DG SET

1. The scope of work includes operation and day to day maintenance of installations i.e. cleaning of installations, checking of all parts, oil level lubrication level, batteries terminal & water i/c recording of all parameters.
2. The following activities is intended to be covered under this contract:
 1. Operation and maintenance of D.G. Sets as specified in BOQ or as directed by the Engineer- in-charge or his authorized representatives.
 2. Watch and ward of all the installations.
 3. Taking preventive measures to avoid complaints.
 4. Routine test & Maintenance activities carried out as per schedule should be recorded in the maintenance register.
 5. Performing the daily/weekly/monthly/quarterly /six monthly/annually checks as detailed below and taking remedial action for proper operation and maintenance.
3. All the cleaning material i.e. soap, duster etc. shall be arranged by the contractor at his own cost. If cleaning of installation is found unsatisfactory at any time, a recovery of Rs.500/- (Rupees Five Hundred) per occasion shall be made.
4. The following consumable materials & tool items for maintaining the DG set shall be arranged by the firm at their own cost and shall keep ready at site in sufficient quantity under the scope of work for which nothing extra shall be paid.
 - a) Battery acid, distilled water, battery thimbles clamp, grease, copper cond. PVC insulated wire & control cables, connectors, testing lamps, PVC insulation tapes, old dhoti, duster, vim, brooms, C.T.C. cleaning detergent, torch, cells, tester, panel knobs, welding rod, petroleum jelly, log book and lub oil for topping up etc.
 - b) Tool & plant required to operate, repair servicing and maintain the DG Sets like spanners, goti sets, screwdriver, crow bars, megger, multimeter, blower, crimping tool, torch hand lamp bucket, container, table, chair, Almirah & other T & P.
5. Spare parts & accessories of DG sets and panels (which are not included for supply under the firm's scope of work) required for replacement if made available to the firm by the department shall be replaced by the firm free of cost and nothing extra will be paid.
 - i) Diesel oil for running the DG Sets shall be supplied by the department, which will be filled in service tank by the agency. Arrangement and carriage for bringing HSD from the petrol pump upto site of work shall be paid by the contractor and nothing extra shall be paid on this account.
 - ii) Remarks and observations regarding maintenance / malfunctioning of DG Sets panels and accessories recorded in the log book / conveyed through message / letter shall be complied within 24 hours on all days i/c Sundays and holidays failing which same shall be got rectified by the department at the risk and cost of the firm without entering in to any correspondence and necessary recovery shall be made from the bill of the contractor.

Daily Routine Checks:-

- (i) Keep the Substation and DG Set Room clean: wipe out dirt from external surface of engine, generator and control panels, transformer, HT panel etc.

- (ii) Check the levels of diesel in daily services tank, lubricant oil, in engine crankcase, and water in radiator. Fill / Top up as necessary.
- (iii) Inspect the engine for leakage of diesel oil, engine (lub.) oil, and coolant in the respective system.
- (iv) Check that the selector in control panel is in AUTO mode.
- (v) Record the reading of voltage of supply and engine battery voltage.
- (vi) Run each DG Sets for a period of 5-10 minutes daily for testing and entries of these tests shall be recorded in log books of each DG Sets.
- (vii) Checking the MV panel etc. for local heating of any feeder.
- (viii) Check for any leakage of transformer oil, level of oil in consecrated tank, condition of silica gel and take remedial action required.

Weekly Checks:

- i) Check the automatic starting of engine by switching of the main supply to the AMF panel. Run the set on load for 15 minutes. Observe for any abnormality of noise. Vibration, bearing surface heating (whether warm), engine pick up, voltage level and frequency.
- ii) Check the level of electrolyte in the battery of the engine. Top up with distilled water as necessary. If the battery needs charging (as can be judged by the cell voltage). Arrange for its charging early and also examine whether trickle charger is defective.
- iii) Check whether all panels lamps, fuses & instruments are healthy in the control panel.

Monthly Checks

- a) Check engine radiator for air restriction if any. Clean up. Check the conditions of drive belts, hose and radiator cap.
- b) Clean the battery terminals and apply grease to prevent corrosion. Check specific gravity of the electrolyte.
- c) Check the exhaust system for leakage, corrosion and vibration, See whether the exhaust smoke is not very dark.
- d) Check that there is no restrictions to air flow in air cleaner.
- e) Check that oil heater is functional.
- f) Check coupling with alternator for any sign of fatigue.

Six Monthly Checks

- i) Inspect the electrical control panel and starters to see that all power/control contacts are clean all terminations, including control cables. Tighten as required.
- ii) Inspect all cable end terminations, including control cables, Tighten as required.
- ii) Check all safety control and alarms in the set supply system.
- iv) Check and change filters of diesel oil, engine oil, coolant and air cleaner element of the engine after checking total hours of operation and manufacture's recommendation. Drain and change the cooling water.
- v) Check the belt tension. Tighten if required.

Annual Checks

- a) Inspect the fuel tank for any sedimentation. Clean up.
- b) Replace the engine oil as per hours of operation and recommendation of the manufacturer.
- c) Check shaft alignment and condition of anti-vibration mountings, in case any abnormal noise or vibration is observed.

- d) Blow through radiator core in a direction opposite to the normal flow of air (Reserve flushing).
- e) Conduct megger test on all cabling, mains and control wiring motors, and earth test, (Earth test is to be done in summer).

EXCLUSION FROM SCOPE OF WORK

The following works are excluded from the scope of work of this contract.

- 1. Rewinding of transformer.
- 2. Replacement of ACB / MCCB.
- 3. Overhauling and major repair to DG sets.
- 4. The diesel oil for running the DG Sets shall be arranged and supplied by the department at site store free of cost, which will be filled in service tank by the agency free of cost.

(Fire Alarm System & Fire Fighting System and water supply)

- 1. The contractor shall depute staff having knowledge of maintaining automatic / manual fire alarm system, public address system & talk back system ,wet riser i/c sprinkler system along with their control panels. In case of false alarm the staff on duty shall be capable to handle the situation accordingly and in case of fire they should act as per advice of the Delhi Fire Services personnel's.
- 2. Routine maintenance of automatic/manual fire alarm system, PA & tack back system, and their fixtures and accessories shall be carried out as per CPWD maintenance manual amended up to date.
- 3. In case of any fire accident the staff on duty will take appropriate action and also inform the department officers and Delhi Fire Service.
- 4. The firm shall conduct fire drill test once in a month in presence of client department officials and representatives of deptt. where one of these JE (E), AE (E), or EE (E), should be present.
- 5. The staff deputed shall maintain and up keep of all associated equipment in proper functional condition
- 6. Special repair work will be carried out by the contractor under the supervision. Co-ordination of the Engineer-in-charge or his authorized representative. However the sole responsibility for installation and successful commissioning of the materials will rest with the contractor.
- 7. Test certificate of equipments issued by the respective manufacturers shall be furnished by the Agency before claiming the payment.
- 8. The material shall be procured only from the manufacturers & their authorized dealers & documentary proof for such procurement & supply shall be produced by the contractor. Contractor has to produce original bill/challan to the Eng-in-charge.

Pump Sets

- 1) Repairing / rewinding of All types & capacities of submersible / Borewell/ booster/ Monoblock pumps including. Scope of work includes Lifting / lowering of submersible Pumps.
- 2) Water supply must be restored in the Campus within 06 hour of breakdown etc. otherwise penalty will be imposed @ Rs. 5000/- per day and if contractor is failed to repair/ replace the pump set, work shall be got done by the other agency and expenditure will be recovered from the bill.
- 3) All the electrical panel, starter, cabling, pipes & other accessories etc. to be maintained in healthy conditions for smooth functioning of Pumps. All spare parts etc required is included in the scope of this contract.
- 4) Operation and maintenance of installation as specified in BOQ or as directed by the Engineer-in-charge or his authorized representative.
- 5) Performing the daily/weekly/six monthly checks as detailed in remedial action for proper maintenance & smooth functioning of Pump sets.
- 6) Cleaning of all equipments.

- 7) Watch and ward of all equipments (Internal and external both).
- 8) The contractor shall maintain the log books of pumps and shall be checked by JE (E)/AE(E) concern regularly as per CPWD norms.
- 9) The contractor shall take over the site as per inventory before starting the work and will return the same in working conditions after completion of work.
- 10) Checking of leakages of water from pump set / pipeline / control valves and remedial measures of same within 50 meter radius from pump house.
- 11) Monitoring of ammeter & voltmeter reading and remedial measures in case of abnormal reading.
- 12) Checking of all electric connections and tightening of loose connections.
- 13) Checking of earth connections.
- 14) Security & safety of all electric equipments associated with above water supply system.
- 15) Oiling & greasing of all moving parts of motors & Pumps time to time i/c providing gland dori/rubber seal gaskets/ tyre coupling etc.
- 16) All the pump sets shall be serviced twice a year and necessary parts as bush, bearing, gland, etc. Shall be replaced within the scope of work.
- 17) Minor repair of GI pipe, ball valve, NRV, Stop valve, union, elbow, nipple, socket, repairing of leakage and painting (if necessary) are included in the scope of work.

Note:- Running operation & comprehensive maintenance of all type of pumps such as water / sewage/booster and starter panel i/c lowering and lifting of pump sets, rewinding of motors, replacement of defective parts of P/sets, repairing of starter panel board with replacement of spare parts by deputing of suitable staff for operation of P/Sets in all days i/c Sundays and holidays and daily cleaning of pump house and maintaining of log book etc. associated with this work as required shall be done within the scope of work without extra cost.

Following works are not included in this scope of work

- a. Replacement of GI Pipes, valves & painting of GI Pipe.
- b. Replacement of incoming cables to panel board.

LIFTS

1. All the work shall be carried out as per CPWD General specifications for Electrical works, Part-I (Internal)-, Part-II (External)- Part IV, (Lift & Escalators) amended upto date and should also comply with relevant provisions of the Indian Electricity Rules and /Acts as applicable, amended upto date.
2. The work is to be carried out to the entire satisfaction of the Engineer-in-charge and his authorized representative.
3. The following activities are intended to be covered under this contract:-
 - (a) Operation of lifts as specified in BOQ, or as directed by the Engineer-in-charge or his Authorized representatives.
 - (b) Maintenance of log book for each lift.
 - (c) Switching of the lights of break down lift from lift machine room and placement of OUT OF ORDER board/placed at the entrance of lift.
 - (d) Lodging of break down complaint (telephonically) with the lift comprehensive maintenance agency and recording the complaint no. and time of complaint in the log book.
 - (e) Recording of time of repair of break down lift and getting the certificate from the Mechanic/Engineer of company that the lift is fit for operation.

- (f) Daily cleaning of lift cars, lift facia and machine rooms.
 - (g) Up-keeping of locks and keys of lift machine rooms, keys of lift loading doors.
 - (h) Restricting the transportation of inflammable materials like gas cylinders etc. in the lift.
 - (i) Performing the following daily checks on each lift:- Daily Checks of all Lifts are to be carried out by the Lift Operators as per Performa 1 & 2. The contractor shall maintain log books as per these Performa, which shall be got checked fortnightly by JE-in-charge. Failing to which Rs. 5000/- per incident shall be made from the bill.
4. Informing the department well in advance in writing about the requirement of necessary spares consumables items required in connection with the satisfactory operation/availability of the system services.
 5. The cleaning of the entire system components, its various equipments and Components, control panels, rooms etc. shall be the responsibility of the contractor at all times. All the materials needed for it like brooms, cleaning powder, dhotis; cotton waste and log book etc. shall be arranged by the contractor at his own cost. If the cleaning is not found satisfactory at any time, a recovery of Rs.500/- (Rupees Five hundred only) per day shall be made from the bills of the contractor.

SCHEDULE OF CHECKS

DAILY CHECKS (Proforma – I)

1. Landing locks

- (a) Movement of car with gate open.
(b) Try to open the gate when car is not landing.

2. Car gate switch

- (a) Movement of car with gate open.
(b) Open the gate while car is moving.

3. Door operator safety (on automatic doors)
4. Emergency stop button works:
5. Emergency call bell:
6. Car lights, landing lights and landing call buttons:
7. Lift locked by:
8. Lift opened by:

DAILY CHECKS BY LIFT OPERATOR

Name of Bldg.

Lift No.

Division

Sub-Division

Date	1(a)	1(b)	2(a)	2(b)	3	4	5	6	7	8	Remarks	Initials of	
												Operator	
												I	II

FORTNIGHTLY MAINTENANCE OPERATIONS (Proforma-2)

Sl.No.	Items	Checked By
1.	Check that lift stops in downward direction properly with 25% over load with operation of the Emergency stop when lift is moving at full speed.	
2.	Check that leveling is within limits + 75mm for single speed lifts and + 10 mm for other lifts. (For certain makes of lifts slightly larger tolerances may be permitted.)	
3.	Check and lubricate by grease cup or top up oil on sleeve type bearings on: Sheave shaft Motor shaft Deflector sheave shaft. Governor pulley	
4.	Check and lubricate sleeve bearings of governor tensioning pulley at the pit.	

Commercial Conditions

1. The payment of work shall be made quarterly after verification of work and attendance of worker for the period, by the Engineer-in-charge of work. However the payment to site staff shall have to be given on monthly basis by the contractor.
2. In the event of operational staff not reporting for duty a penalty as following shall be imposed.
 - i) AC Mechanic/ Wireman cum operator /technician - Rs. 2000/- Per shift
 - ii) Khallasi/ Helper - Rs. 1800/- Per shift
3. Terms of payment and other facilities for workers.
 - i) The contractor shall pay wages to the workers not less than the rates as per minimum wages act notified by Ministry of Labour, Govt. of India time to time. The contractor shall maintain all the paid wages records duly verified by the JE(E)/AE(E). The payment of the contractor will be made only after production of wages paid records.
 - ii) The payment to the workers shall be made through NEFT / RTGS / ECS mode etc.
 - iii) The payment to the staff shall be made upto 7th day of next month positively otherwise **penalty of Rs. 100/- per worker per day** shall be recovered from the bill of the contractor.
 - iv) The contractor shall deduct worker subscription towards Provident Fund and ESI, as per rules and he shall deposit the same along with his contribution into the respective accounts of the worker latest by 10th of each month and submit the detail to this office for verification.
 - v) Copy of relevant period physical attendance sheet /register.
 - vi) Fortnightly labour report.
4. The contractor will ensure the disbursement of wage and documentary evidence paper shall be submitted along with bill by AE (E) while submitting in Division office.
5. No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-charge.
6. Nothing extra will be paid on account of GST /Turnover Tax or any other Taxes.
7. Rates quoted by the firm will be inclusive of all wages, taxes and duties. Firm should submit the proof/challans of submission of EPF & ESI at time of payment.
8. Biometric machines/ stationary required for attendance shall be provided by the firm for attendance of the staff employed within the quoted amount for which noting extra shall be paid. The attendance of the staff shall be submitted by the firm on monthly basis to the concerned JE(E). The contractor has to provide Aadhaar card, Passport size photograph and mobile no. of the worker deputed by him on the work.

PERFORMA OF VERIFICATION OF CPWD CONTRACTOR WORKERS

Name of work: -

Agreement No.: -

Name of Agency:-

Name of

Worker: -

Post:-

Qualification:-

Father's / Husband Name: -

Age: -

Present Address: -

Permanent Address: -

Timing of duty: -

Contact Nos.:-

(Signature of Worker)

(Signature of Contractor)

Note: - Worker / Contractor to submit attested photocopy of the Identification of the refers.

NOTE 1. This Card is valid only for specified working place/place of 2. The Contractor is fully responsible for any misuse of this card beyond the duty hours 3. The contractor bears responsibility for the character of the card holder.	SL. WORKER Mobile VALID UPTO: -
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Name of worker: - Present Address: - Permanent Address: - Identification Mark: - Place of Duty: -	Signature of Worker: - Signature of Contractor: -
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INVENTORY- NCERT Campus

1.0	Non-Residential Building / Office Building		
	Total Electrical points	10227	Points
2.0	Sub-Station & Equipments, NCERT Campus		
2.1	HT Panel Board		
	Incoming , Oil Circuit Breaker 630A	1	No.
	Outgoing-1, Oil Circuit Breaker 630A	1	No.
		to 750kVA Tr.	
		to 1250kVA	
	Outgoing-2, Oil Circuit Breaker 630A	1	No.
		Tr.	
		to 1250kVA	
	Outgoing-3, Vacuum Circuit Breaker 630A	1	No.
		Tr.	
3.0	Transformer		
3.1	750kVA Transformer, Oil Type, 11kV to 415V -1	Alustom	1 No.
3.2	1250kVA Transformer, Dry Type, 11kV to 415V -2	Voltamp	1 No.
3.3	1250kVA Transformer, Dry Type, 11kV to 415V -3	Kirloskar	1 No.
	Essential LT Panel	1	No.
	Incomer - 630A		
	Coupler-1, 630 for DG Set-1		
	Coupler-2, 630 for DG Set-2		
	Outgoing		
	100A -6Nos.		
	200A -16Nos.		
	Bus coupler -200Amp -1No.		
	Changeover -200A -2Nos.		
	Non-Essential LT Panel		
	Incomer - 2000A, ACB EDO, 50kA	2	Nos.
	Bus Coupler 2000A, ACB EDO, 50kA	1	No.
	TPN Al, 3200A Bus Bar		
	Outgoing		
	630A 4P, MCCB, 35kA	4	Nos.
	400A 4P, MCCB, 35kA	12	Nos.
	250A 4P, MCCB, 35kA	12	Nos.
	Non-Essential LT Panel for HVAV Load only		
	Incomer - 2000A, ACB EDO, 50kA	2	Nos.
	Bus Coupler 2000A, ACB EDO, 50kA	1	No.
	TPN Al, 3200A Bus Bar		
	Outgoing		
	630A 4P, MCCB, 35kA	8	Nos.
	800A 4P, MCCB, 35kA	2	Nos.
	400A 4P, MCCB, 35kA	2	Nos.
	200A 4P, MCCB, 35kA	4	Nos.
4	320kVA DG Set	2	Nos.
5	400kVAr APFC Panel/ Capacitor Bank	1	No.
6	310kVAr APFC Panel/ Capacitor Bank	2	Nos.
7	Air Conditioning Units		
7.1	1.0/1.5/2.0 TR Split/Window Type AC Unit	580	Nos.

Annexure-D**Letter Head of Contractor****Site Inspection Undertaking**

Date:.....

To,

The Executive Engineer (E),
Delhi Electrical Division-61,
CPWD, Pushpa Bhawan, New Delhi.

Name of Work: RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH-Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus)

NIT No.:- 13/SE/DC-6/DED-61/2026-27

I/we have inspected and examined the site and its surroundings is / are satisfied before submitting our bid as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation I/we may require and in general shall myself / ourselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid. I/we shall be deemed to have full knowledge of the site whether I/we inspect it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. I/we shall be responsible for arranging and maintaining at our own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a I/we implie(s) that I/we have read this notice and all other contract documents and has made myself / ourself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to us by the Government and local conditions and other factors having a bearing on the execution of the work.

Signature of Contractor with stamp

List of Preferred Make for Electrical Works

S. No	Details of Materials / Equipments	Manufacturer's Name / Make
1	FRLS PVC insulated copper conductor single core cable for wiring. (ISI marked)	Finolex / RR Kabel / KEI /Havells / Polycab/Plaza / Rallison
2	PVC sheathed / XLPE power armoured copper/ Aluminium conductor cable of 1.1 KV grade	Finolex / RR Kabel / Polycab/Havells / KEI/Plaza / Rallison
3	MS Conduit (ISI Marked) with heavy duty MS conduit pipe accessories	BEC / NIC / AKG (ISI Marked)
4	PVC Conduit medium class	AKG/ BEC/ Polypack/ Precision/ Norpack
5	G.I. Box	Honeywell/ Schneider Electric/ Legrand / North West / Havells / ABB
6	G.I./M.S. Pipe	Tata/ Jindal / Prakash Surya / SAIL
7	Piano type switches & accessories	Kinjal/Anchor/Antex
8	Modular Type switch, socket & accessories	Honeywell- Aspect/ Schneider Electric (Zencelo)/ Legrand (Murano)/ North West (Artisa)/ Havells (Crab Tree)/ ABB (Tvisha)
9	Phenolic laminated sheet	Hylem/Formica (White colour) ISI Marked
10	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's	Schneider Electric-ACT19 / Legrand DX3/ Hager-H3/ L&T-EXORA / ABB-S-200-M
11	MCBDB & Loose Wire Box	Schneider Electric / Legrand / Hager/ L&T / ABB (Note : MCBs Make shall be same as DBs Make)
12	Moulded Case Circuit Breaker (MCCB) Thermal Release / Microprocessor based (Ics=Icu=100%)	Schneider Electric-NSX / Legrand-DPX3 / Hager/ L&T-DU / ABB-T-MAX/Seimens
13	Panel/ Feeder Pillar	Tricolite/ Advance/ Adlec/ Neptune/ Milestone/ SPC electrotec / ASPL
14	Contactora/Timer	Schneider Electric / L&T / BCH / Siemens / Legrand / ABB / Hager
15	Voltmeter/Ammeter	Conzerv / Larsen & Toubro / Secure / AE / Socomac / Neptune /Hager/ABB
16	LED type indicating lamps / Push Button	Schneider Electric / L&T / Siemens / Vaishno/Legrand/Trilux
17	LED Fittings	Phillips/ Havells/ Wipro/LT/Regent/Trilux / Orient
18	Ceiling/ Wall/ Fresh Air Fan/ Exhaust Fan	Crompton/ Havells/ Usha/ Orient
19	Pole Box	Hensel / Spelsberg / Naptune-Bals / Syntex
20	Window/Split AC	Mitsubishi/ Toshiba/ O General/ Daikin/ Hitachi/ Panasonic
21	Paint/ Primer	Asian/ Berger/ Dulux/ Nerolac/ Shalimar
22	Cement	ACC/ Birla/ Ambuja/ Jaypee/ J.K.

23	D.W. Corrugated HDPE Pipe	REX / Dura plast / Zenduct / Triputi / Duraline/Astral
24	GSS Sheet	Jindal/Tata (Hissar)
25	Cable Tray	Pilco/ Slotco/ MEM/ MEC/ Steelways/ Legrand/ Ctm Engineering/ Kepl/RP Controls
26	Brass Compression Gland	Baliga lighting/ Comet/ Cosmos/ Dowells/ Lapp/ Gripwell
27	Voltage Stabilizer	V-Guard/ Bluebird/ Voltas/ Servokon
28	Copper pipe	Totaline/ Mandev/ Rajco/ Diamond/ Star/ MetTube/ Hindustan/ Jindal refrigeration
29	Nitrile rubber insulation	A-flex/K-flex/ Vidoflex/ Euro/ Batex/ Armacell/ Superlon
30	Fire Extinguisher	Minimax/ Safex/ Lifeguard/ Kanex/ Omex
31	Online UPS	Nuberica/ Eaton/ APC/ Vertiv/ABB
32	SMF Battery	Exide/ Amara raja/ Amaron/ Luminous/ Rocket/ HBL
33	Rack	MTS/ Surya/ APW/ Netrack/ Valrack
34	PVC Trunking	MK/ Legrand/ Schneider/ Hager
35	24 Port L2 Switch	Legrand/Systimax/Panduit
36.	Butterfly Valve/NRV/Ball Valve/ Y Strainer/ Sluice Valve	Sant/ Leader/ Kirloskar/ Audco/ Advance/ Indofos
37.	Cushy Foot Mountings	Dunlop/ Resistoflex/ Jyoti
38.	Batteries	Exide/ Panasonic/ Amarraja
39.	Pressure Switch/ Pressure Gauges/ Flow Switch	Indofoss/ Feibig/ H.Guru/ Marsh/ Japson/ Rapid Control/ System Sensor
40.	Internal/ External Hydrant/ RRL HOSE Pipe/ Branch Pipe/ First Aid Hose Reel Drum/ Air Vessel/ Hose Box	Lifeguard/ Neage/ Getech/ Minimax (ISI Marked)
41.	Hose Reel	Lifeguard/ Neage/ Getech/ Minimax (ISI Marked)
42.	Fire Brigade Inlet Connection	Lifeguard/ Neage/ Getech/ Minimax (ISI Marked)
43.	Sprinkler Head	Mather & Platt/ Tyco/ HD
44.	Cubical Panel	
45.	ACB	Legrand/ ABB/ Seimens/Schneider
46.	Measuring instruments	L&T/Siemens/C&S/AE/Schneider
47.	C.T.	L&T/Siemens/C&S/GE/ABB/Schneider
48.	Indicating lamps, control Switches & push buttons	L&T/Siemens/C&S/AE/ABB/Schneider
49.	Onload changeover	L&T/Siemens/C&S/ABB/ Legrand /Schneider
50.	Relays/ Contactors/Capacitor	L&T/Siemens/ABB/C&S/Schneider/Havells/Epcos
51.	Compressor	Tecumseh/ Hitachi /Carrier/Daikin/ Mitsubishi/ /LG/Emerson/ Lloyd/ Voltas/ O-General.
52	Strip heater/ Geyser state	Daspass/ Wattco

NOTES:-

In respect of materials for which approved makes are not specified above, then proposed makes shall be decided by the Engineer-in-Charge and as per sample approved before procurement & Installation.

SCHEDULE OF WORK

Name of work :- RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).

S.No	Description of Items	Qty.	Unit	Rate	Amount
	SUB HEAD-1 (Operation & Maintenance)				
1.1	Providing services for operation & routine maintenance service of internal & external electrical installation i.e. fans, fittings, cable wiring switch, sockets, MCB, MCCB DB, Existing panel, compound street light poles, feeder pillar and attending day to day electrical complaints in all residential and non residential bldg./office buildings of NCERT Campus. (Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel bldg. campus, Barracks 1 to 9, Playground and Badminton Court) and other office building under jurisdiction of NCERT Campus round the clock by providing following staff as per specified terms and conditions enclosed.				
1.1.1	For Non-Residential Office Buildings. A). Wireman = 4 Nos. (9:00 AM to 5:00 PM) B). Khallasi = 2 No. (9:00 AM to 5:00 PM) on all working days excluding Sunday and holidays.	12	Per Job Per Month	217422.00	2609064.00
1.2	Providing services for pump operation, monitoring and upkeep of NCERT Pump House alongwith all pumps and panels installed in NCERT Residential and Non Residential building area by deputing the following manpower on all day including Sunday and Gazetted Holiday and as per terms & conditions attached.				
1.2.1	Pump Operator = 2 Nos (1No. 6:00 AM to 2:00 PM) (1No. 2:00 PM to 10:00 PM)	12	Per Month	87826.00	1053912.00
1.3	Operation & day to day routine maintenance of sub station having 1x750 KVA + 2x1250 KVA, 11/0.4 KV transformers, LT Panel, HT Panels and other associated sub-station equipments + 2 x 320 KVA stand by DG set round the clock (01 No. Wiremen in each shift and 1 no. Khallasi in general shift) on all days i/c Sunday and holidays.				
1.3.1	Wireman = 3 Nos (1No. in each shift)	12	Per Month	131739.00	1580868.00
1.3.2	Khallasi = 1 No. in general shift.	12	Per Month	34004.00	408048.00

1.4	Providing services of a qualified electrical technician for works on 11 KV HT line, including maintenance, testing fault identification and rectification of HT line component , such as insulators, HT cable fault, VCB fault, transformers, HT/LT bus trunking etc and also will upkeep all the HT system functional. All the complaints and work executed shall be properly recorded in the seperate "HT" works related register. The minimum qualification of the technician will be as per the CPWD specification.	12	Per Month	47449.00	569388.00
1.5	Providing services for Operation & routine maintenance and periodically testing of fire fighting system, Automatic fire alarm system, PA system inside & out side of above mention buildings i/c maintaining the system round the clock for residential and non residential building of NCERT Campus on all days i/c. Sunday and Holidays etc as required as per direction of engineer-in-charge and as per actual assessment of work at site upto the satisfaction of the client department as per terms & conditions attached.				
1.5.1	Fire Technician/ Fire Operator =3 Nos (1No. in each shift), Khallasi 1 No. in general shift.	12	Per Month	168210.00	2018520.00
1.6	Providing services for operation, monitoring and upkeep the following 10/13 passenger Schindler/Johnson/ Omega/Escon Lifts at NCERT Campus by deputing the following lift operator as per the details given below as per the directions and decision of the engineer-in-charge and terms & conditions attached.				
1.6.1	a) NIE Guest House = 3 Nos. Operators (1 No. in each shift). on all working days i/c. Sunday & Holiday. b) Science Block = 1 No. Operator (9:00 AM to 5:00 PM). on all working days excluding Sunday & Holiday. c) G.B Pant Block = 1 No. Operator (9:00 AM to 5:00 PM). on all working days excluding Sunday & Holiday. d) Z.H Khand = 1 No. Operator (9:00 AM to 5:00 PM). on all working days excluding Sunday & Holiday. e) B.R. Ambedkar Khand = 1 No. Operator (9:00 AM to 5:00 PM). on all working days excluding Sunday & Holiday.	12	Per Month	270074.00	3240888.00
1.7	Overtime charges for the Lift Operator for an extra hour for duty performed during Sunday and gazetted holiday for the period of maintenance.	500	Per Hours	173.00	86500.00
1.8	Supply of Following materials required at site and installation the same as and when required at site with existing labour.				
1.8.1	1200 mm sweep BLDC motor ceiling fan i/c remote or electronic regulator unit for speed control and all remaining accessories etc as reqd.	80	Each	2446.00	195680.00
1.8.2	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable.	500	Mtr	23.00	11500.00
1.8.3	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable.	500	Mtr	54.00	27000.00
1.8.4	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable.	150	Mtr	82.00	12300.00
1.8.5	10.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable.	150	Per Mtr	137.00	20550.00
1.8.6	S.P. 5/6 A, one way modular switch, ISI marked	150	Each	44.00	6600.00

1.8.7	S.P. 15/16 A, one way modular switch, ISI marked	150	Each	96.00	14400.00
1.8.8	3 pin 5/6 amps socket outlet, Modular type ISI marked	150	Each	82.00	12300.00
1.8.9	6 pin 15/16 & 5/6 amps socket outlet, Modular type ISI marked	150	Each	136.00	20400.00
1.8.10	S.P. 5/6 A, one way switch, piano type ISI marked	80	Each	13.00	1040.00
1.8.11	S.P. 15/16 A, one way switch, piano type ISI marked	80	Each	62.00	4960.00
1.8.12	3 pin 5/6 A socket outlet, piano type ISI marked	80	Each	30.00	2400.00
1.8.13	6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	80	Each	78.00	6240.00
1.8.14	Bell push, Modular type	50	Each	80.00	4000.00
1.8.15	6 amps. To 32 amps. Ratings, SP MCB. "C" curve, 10 KA breaking capacity	400	Each	175.00	70000.00
1.8.16	40 - 63 amps. ratings, DP MCB. "C" curve, 10 KA breaking capacity	30	Each	510.00	15300.00
1.8.17	40 - 63 amps. ratings, TP MCB. "C" curve, 10 KA breaking capacity	10	Each	908.00	9080.00
1.8.18	40 - 63 amps. ratings, TPN/ Four pole MCB. "C" curve, 10 KA breaking capacity	20	Each	1124.00	22480.00
1.8.19	3 pole MCCB, 100A, 25 KA	5	Each	4403.00	22015.00
1.8.20	Stepped type Modular Fan regulator (2 module)	70	Each	285.00	19950.00
1.8.21	2.5 mfd fan capacitor	200	Each	34.00	6800.00
1.8.22	3.5 mfd fan capacitor	100	Each	38.00	3800.00
1.8.23	Plug Top 5/6 A	100	Each	63.00	6300.00
1.8.24	Plug Top 15/16 A	100	Each	87.00	8700.00
1.8.25	9-15 watt all type LED Bulb	100	Each	131.00	13100.00
1.8.26	1400 mm ceiling fans	5	Each	3457.00	17285.00
1.8.27	25 mm dia, ISI marked, steel conduit	100	Mtr	120.00	12000.00
1.8.28	25 mm dia, ISI marked, PVC conduit	150	Mtr	38.00	5700.00
1.8.29	2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	100	Mtr	13.00	1300.00
1.8.30	4 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	50	Mtr	25.00	1250.00
1.8.31	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath	200	Mtr	26.00	5200.00
1.8.32	Modular GI box for 3 module	70	Each	53.00	3710.00
1.8.33	Modular base & cover plate for 3 module	70	Each	72.00	5040.00
1.8.34	Modular GI box for 6 module	40	Each	96.00	3840.00
1.8.35	Modular base & cover plate for 6 module	30	Each	102.00	3060.00
1.8.36	Brass batten/ angle holder	20	Each	49.00	980.00
1.8.37	3 mm thick phenolic laminated sheet	10000	Sq cm	0.26	2600.00
1.8.38	Ceiling rose, 3 pin, 5 A ISI marked	100	Each	26.00	2600.00
1.8.39	Telephone Socket outlet modular type	100	Each	88.00	8800.00
1.8.40	T.V. Socket outlet modular type	10	Each	88.00	880.00
1.8.41	PVC Batten/ Angle Holder	50	Each	28.00	1400.00
1.8.42	UTP 4 Pair CAT 6 LAN Cable	100	Mtr	36.00	3600.00
1.8.43	Single pole, blanking plate	100	Each	10.00	1000.00

1.8.44	6 way, SPN, double door, MCB DB	6	Each	1743.00	10458.00
1.8.45	8 way, SPN, double door, MCB DB	8	Each	2101.00	16808.00
1.8.46	Sheet steel DP MCB enclosure	5	Each	388.00	1940.00
1.8.47	Sheet steel TP MCB enclosure	5	Each	458.00	2290.00
1.9	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS/HFFR PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required.				
1.9.1	Group C	100	Points	1064.00	106400.00
1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS/HFFR PVC insulated copper conductor single core cable etc as required.				
1.10.1	Group C	70	Points	2101.00	147070.00
1.11	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.				
1.11.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	300	Mtr	370.00	111000.00
1.11.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	600	Mtr	476.00	285600.00
1.11.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	150	Mtr	652.00	97800.00
1.11.4	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	80	Mtr	1001.00	80080.00
1.12	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
1.12.1	2 + 12 way, Double door	5	Each	3367.00	16835.00
1.13	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
1.13.1	8 way (4 + 24), Double door	5	Each	6337.00	31685.00
1.14	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	50	Each	757.00	37850.00
1.15	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	25	Each	807.00	20175.00

1.16	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	50	Each	659.00	32950.00
1.17	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	20	Each	545.00	10900.00
1.18	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
1.18.1	25mm	300	Mtr	289.00	86700.00
1.19	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
1.19.1	1 or 2 Module	10	Each	156.00	1560.00
1.19.2	3 Module	50	Each	175.00	8750.00
1.19.3	4 Module	20	Each	182.00	3640.00
1.19.4	6 Module	40	Each	207.00	8280.00
1.19.5	8 Module	20	Each	238.00	4760.00
1.19.6	12 Module	5	Each	301.00	1505.00
1.20	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.				
1.20.1	1 or 2 Module (75mmX75mm)	10	Each	354.00	3540.00
1.20.2	3 Module (100mm X 75mm)	10	Each	384.00	3840.00
1.20.3	6 Module (200mm X 75mm)	10	Each	462.00	4620.00
1.20.4	12 Module (200mm X 150mm)	5	Each	614.00	3070.00
1.21	Supplying and fixing of size 32mm X 16mm (NS) medium class U PVC trunking system complete with all accessories on surface etc as required.	100	Mtr	132.00	13200.00
1.22	Supplying and fixing of size 50mm X 50mm (NS) medium class U PVC trunking system complete with all accessories on surface etc as required.	50	Mtr	387.00	19350.00
1.23	Supplying and fixing of size 100mm X 50mm (NS) medium class U PVC trunking system complete with all accessories on surface etc as required.	30	Mtr	666.00	19980.00

1.24	LED Flood Light, powder coated pressure die cast aluminium body (System lumen efficacy $\geq 105 < 120$ lm/Watt) Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency $>85\%$, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -5 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $>85\%$, THD $< 10\%$ as per IEC 61000-3-2, P. F. ≥ 0.95, IP-66, IK-10, CRI ≥ 70, under voltage and over voltage protection, EMI-EMC as per CISPR -15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq. mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
	100 watt	10	Each	2266.00	22660.00
1.25	LED Flood Light, powder coated pressure die cast aluminum (System lumen efficacy ≥ 120 and < 135 lm/Watt) Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency $>85\%$, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $>85\%$, THD $< 10\%$ as per IEC 61000-3-2, P. F. ≥ 0.95, IP-66, IK-10, CRI >80, under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg- 120deg as per the application and the project requirement deg, suitable til table fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 and < 135 lm/Watt output. LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS				

	shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).				
	100 watt	10	Each	2467.00	24670.00
1.26	Supplying, installing, testing & commissioning of Post Top LED fitting made of pressure dia cast aluminum housing for efficient thermal management having lumens out put should be >4500 or above and System Efficacy > 120lm/W, useful life of 50,000 hrs at L70 in cool day light (5700K to 6500K) , PF>0.9 , CRI>70, THD < 10% with polycarbonate clear diffuser, IP 65, complete with all accessories like integrated LED & driver etc, on the existing GI pipe pole i/c connections etc complete as reqd..	10	Each	7642.00	76420.00
1.27	LED Down lighter (SMD Type) (System lumen efficacy ≥120 <135 lm/Watt) Supplying, installation, Testing & Commissioning of LED Recessed / surface Down lighter (Round / square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. "complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminum Body including trim				
	12 -15 watt	100	Each	715.00	71500.00
1.28	SITC of 7 to 11 Watt LED Bollard Light made out of die cast aluminium housing and bottom with diffuser with lumens with 800 to 1100 lumens, THD < 10% PF 0.05, Lumen Efficacy >100lm/watt Along with External Surge 10 Kv IK 08 , Height >750 MM , Along with IP 66 Connectors i/c mounting base plate, duly wired, connection, etc. complete as reqd. Liffe of Bollard Housning including base plates >50,000 hrs. The LED fitting and driver must be BIS registered and have the BIS number printed or attached to the fitting and driver.	50	Each	6234.00	311700.00

1.29	LED Batten light (System lumen efficacy ≥ 105 <120 lm/Watt) Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS: 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10% , P. F. ≥ 0.95 , IP20, CRI ≥ 80 , Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq. mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
	Powder coated die cast /Extruded aluminium Body (Thickness ≥ 1.20 mm)				
	18- 22 watt	200	Each	681.00	136200.00
1.30	LED Panel light 2x2 ft. (System lumen efficacy ≥ 105 <120 lm/Watt) Supplying, installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140- 270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10% , P. F. ≥ 0.95 , IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitry), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be				

	submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast / Extruded aluminium Body (Thickness ≥ 1.20 mm)				
	36 watt	100	Each	2508.00	250800.00
1.31	SITC of Bulk Head fitting made of Aluminum die cast housing duly powder coated and polycarbonate opal diffusser, IP65, color temperature 5700K-6500K system efficacy ≥ 120lm/W (not LED Chip efficacy), CRI≥80, Minimum System Output ≥ 1200 Lumens, useful life of 50,000 hrs at L70 & driver having PF ≥ 0.9 & THD<10% and Surge Protection of 2.5 KV on the existing wall/ceiling surface including connection with 3X1.5 sq.mm FRLS PVC insulated copper conductor, earthing etc complete as required. The LED fitting must have the embossed/engraved logo the approved make (fittings with stickers shall not be approved)	100	Each	1471.00	147100.00
1.32	Supplying, Installation, testing and commissioning of LED Mirror Light made out of extrusion aluminium powder coated body having maximum wattage operating voltage 140-290 V, lumen output not less than 1320 lumen, Lumen efficacy not less than 120lm/watt, THD < 10%, Color temperature 6500 K, IP rating 20, and PF>0.95, including connection with 1.5 sq mm FRLS copper conductor single core cable complete in all respect etc as reqd.	20	Each	312.00	6240.00
1.33	SITC of 400 mm Sweep Wall mounted oscillating type Fan suitable for 230 V 50 Hz Ac Supply complete with all accessories etc. as required.	20	Each	3202.00	64040.00
1.34	SITC of heavy Duty motor, metal make exhaust fans 300 mm sweep dia, 1400/900RPM speed and air delivery between 1150-1710 m3/hr with louvers/shutters & all accessories in the existing opening including resizing the existng hole to suit the dia of the exhaust fan and making good the damage i/c providing connection with 1.5Sqmm FRLS copper conductor cable etc complete as required.	15	Each	5077.00	76155.00
1.35	Supplying, fixing of PVC body 250 mm sweep Fresh air fan, suitable for operation on 240 volts, 50 Hz AC supply, along with all accessories in toilet in the existing hole/ ventilator with suitable size of mountings i/c connection with suitable size copper wire etc. as required.	20	Each	1914.00	38280.00
1.36	HI - WALL SPLIT SYSTEMS Supply, Installation, Testing and Commissioning of Air Cooled HI Wall split type Air conditioners complete with Indoor unit (IDU), Outdoor unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low & high voltage cut off and 50 hz, 1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll /rotary compressor. The system shall be able to deliver 100%				

	of the rated capacity upto 42 Degree Celsius. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply : Electrical cable IS694 or IS 9968 temperature sensing control IS/ International Electro technical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS :1391 Part II 2023. The system shall be able to operate up to 50 Degree C (outdoor ambient temperature). Inverter Type - Cooling only				
	2.0 TR with 5 Star BEE Rating	15	Each	57396.00	860940.00
1.37	Supply of Refrigerator having Capacity min. 90-100 litres, min. 1 Star Energy Rating, Compartment Space with Toughened Glass shelf type, Child Lock Facility, Interior Lamp, Single Door Refrigerator. Environment friendly refrigerant gas. Single Phase 230 V AC, 50 Hz. with all necessary connection complete etc. as required.	5	Each	11514.00	57570.00
1.38	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft /hard drawn copper refrigerant piping for VRV / VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :				
1.38.1	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	50.00	Mtr	346.00	17300.00
1.38.2	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	50.00	Mtr	615.00	30750.00
1.39	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.				
1.39.1	1 run of cable	100.00	Mtr	64.00	6400.00
1.40	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.				
1.40.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	60	Mtr	289.00	17340.00
1.41	Supply, installation, testing & commissioning of 25 ltrs capacity storage type electric water heater closed/vented type geyser (5 star) with vitreous enamel coated tank SS 800 glass lined heating element 2000W, PUF insulation, adjustable temp. Controls, temp. Indicator display, withstand 8 bar of water pressure, 240 V AC supply, 50 Hz etc as required.	6	Each	13164.00	78984.00

1.42	Supplying, testing and commissioning of following capacity submersible borewell pump motor set having the following specification : (a) Capacity of the Pump - 5.0 HP (b) Speed - 2900 RPM (c) Head Range - 70Mtr - 68Mtr (d) Discharge Range - 60 LPM - 120 LPM (e) Outlet/Delivery Size - 50mm The pump shall be placed in the existing bore well by lowering with chain pully block and tripod stand with GI Pipe, submersible cable, nut bolts & rubber packing etc. complete with connections, testing etc. as required. The pump shall be provided with suitable rating motor suitable for operation on 50Hz, 415Volt, 3Phase AC Supply with voltage variation upto 10%(+/-).	1	Each	51654.00	51654.00
1.43	Providing, laying, testing & commissioning of 'B' class medium duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :				
1.43.1	100 mm	50.00	Mtr	1925.00	96250.00
1.43.2	80 mm	50.00	Mtr	1514.00	75700.00
1.43.3	50 mm	30.00	Mtr	1066.00	31980.00
1.44	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :				
1.44.1	80 mm	10	Per Set	5406.00	54060.00
1.44.2	100 mm	10	Per Set	7271.00	72710.00
1.45	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required :				
1.45.1	80 mm	2	Per Set	8255.00	16510.00
1.45.2	100 mm dia	2	Per Set	11853.00	23706.00
1.46	Supplying & fixing of 1 HP Single-phase Self Priming Monoblock PumpSingle-phase Water Pump (candy type) In-built Thermal Over Load Protector Power Rating: 0.75 kWPower Supply: 180-260v & minimum 67 LPM at 40 M head i/c connection etc complete as reqd.	3	Each	10308.00	30924.00
1.47	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.				
1.47.1	3.5 X 35 sq. mm (32mm)	5	Each	437.00	2185.00
1.47.2	3.5 X 50 sq. mm (35mm)	5	Each	484.00	2420.00
1.47.3	3.5 X 95 sq. mm (45mm)	5	Each	684.00	3420.00
1.47.4	3.5 X 120 sq. mm (45mm)	4	Each	710.00	2840.00
1.47.5	3.5 X 150 sq. mm (50mm)	3	Each	798.00	2394.00
1.47.6	3.5 X 240 sq. mm (62mm)	2	Each	1160.00	2320.00
1.47.7	3.5 X 300 sq. mm (70mm)	2	Each	1336.00	2672.00

1.47.8	3½ X 400 sq. mm (82mm)	2	Each	1713.00	3426.00
1.48	Supplying and Laying of one number armoured XLPE aluminium conductor power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.				
1.48.1	4x25 sqmm	80	Mtr	847.00	67760.00
1.48.2	3.5x120 sqmm	100	Mtr	2233.00	223300.00
1.48.3	3x10 sqmm	200	Mtr	587.00	117400.00
1.48.4	3.5x95 sqmm	100	Mtr	1821.00	182100.00
1.48.5	2x10 sqmm	400	Mtr	553.00	221200.00
1.49	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
1.49.1	2 X 25 sq. mm	6	Each	2698.00	16188.00
1.49.2	3½ X 120 sq. mm	4	Each	4886.00	19544.00
1.49.3	3½ X 240 sq. mm	6	Each	5283.00	31698.00
1.49.4	3½ X 400 sq. mm	4	Each	8541.00	34164.00
1.49.5	4 X 16 sq. mm	6	Each	4210.00	25260.00
1.50	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
1.50.1	250 A, 25 KA, TPMCCB	2	Each	13647.00	27294.00
1.50.2	125 Amp, 36KA, FPMCCB	2	Each	8644.00	17288.00
1.50.3	150 A, 16 KA, TPMCCB	2	Each	6326.00	12652.00
1.50.4	200 Amp, 16 KA, TPMCCB	2	Each	8111.00	16222.00
1.50.5	100 Amp, 16 KA, TPMCCB	5	Each	4003.00	20015.00
1.51	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. (but without charcoal/ coke and salt) as required.	5	Per Set	5958.00	29790.00
1.52	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30	Mtr	287.00	8610.00
1.53	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.	20	Mtr	50.00	1000.00

1.54	Servicing of VCB with Drawing out VCB with the help of rotating draw out handle panel and servicing / overhauling of existing, VMX type VCB of 11 kv, 630 to 800 amps, checking and cleaning of VCB & Draining out the Sewage Water & Wet Waste with Cloath etc & interrupter contacts with waste cloth, blower, tetrachloride etc. checking and cleaning of auxiliary contact (NO/NC) with CTC & bus bar with CRC2-26 spray i/c checking of 24 volts closing/ trapping mechanism, bus bar insulators, spout insulators etc. meggering of VCB on opening/ closing, high voltage testing for vacuum interrupter, continuity test , CRM Test , Time Interval Test for VCB contacts, testing of battery charger unit for 24 volt DC tripping function checking & testing of current transformer (150/5A) of 0.5 accuracy & potential transformer of 110 volts, electrical & mechanical interlocking, earth continuity testing for HT panel etc. complete i/c greasing, setting for spring, charging gear tripping and closing, roller gearing etc. and refixing the VCB in its chamber, testing, commissioning complete in all respect etc. as reqd. (Make:- Siemens/Crompton) 800 Amp = 6 Nos.	6	Jobs	6395.00	38370.00
1.55	Servicing/overhauling of existing 800Amp to 2500 Amp capacity air circuit breaker of including testing and re-commissioning as required, cleaning of breaker with CRC & checking of control wiring, arcing contacts, microprocessor/ thermal magnetic release, alignment, arc chutes, CT'S, reset & tripping mechanism and connections i/c carrying out contact resistance test, Insulation test and Protection Release LSIG Testing & calibration & tripping mechanism and connections etc. complete as required. (Make:-ABB, L&T) 2000 Amp = 9 Nos.	9	Jobs	5078.00	45702.00
1.56	Servicing of 750-1250 KVA Dry Type Transformer complete with Cleaning & Draining of Sewage Water Waste & Wet Carbon from Cloth etc. & Blowering of Dust & Carbon inside the Transformer with Checking of Transformer with IR Value Test , Magnetic Balnace Test , Vector Group Test and Checking the Trapping Mechanisium of Transformer from TR-7570 Temp. Winding Relay complete with Test Report with Testing , Commissioning & Heating etc. (Make :- Kirloskar) 1250 kVA = 2 No.	2	Jobs	11129.00	22258.00
1.57	Servicing of De-Hydration of 750-1500 KVA Oil Type Transformer Complete with Draining the Oil into the Filtartion Machine with the Gap of 2mm complete with De-Hydration of Transformer Oil Complete with Removing of Sewage Water Waste & Checking the Tripping Mechanisium of Transformer Relay - OTI , WTI , Buchloz etc. , Replacement of Silica Gel complete with Top of Oil -Power Make with Testing of Transformer with IR Value , Magentic Balance , Vector Group Test at your Site. (Make :- Alstom) 750kVA = 1 No.	1	Jobs	19613.00	19613.00
1.58	Collecting the following capacity and types Fire extinguisher from various location, floor and refilling the extinguisher after hydraulic pressure testing in the plant and return back at site i/c painting in post office red color paint, supplying and fixing sticker, service slip and fixing hose pipe, installation at same place at different floor and location complete etc as reqd.				

1.58.1	MAP 90% ABC Powder Type (Stored Pressure) Fire Extinguishers 4.0 KG capacity.	100	Each	255.00	25500.00
1.58.2	MAP 90% ABC Powder Type (Stored Pressure) Fire Extinguishers 9.0 KG capacity.	50	Each	425.00	21250.00
		Total of Sub Head-1			17391362.00
	SUB HEAD - 2 (Comprehensive & Maintenance of Lift)				
2.1	Comprehensive maintenance of Johnson make two nos. 8 passenger lift (544 kg) capacity installed at Zakir Hussain Khand , serving G+5 floors which include routine preventive & break down maintenance i/c repair/replacement of worn out items with minimum downtime and warranty & guarantee of repaired/replaced items, etc complete as required. (2 Jobs for 12 Months)	12	Per Month	17007.00	204084.00
2.2	Comprehensive maintenance of Johnson make two nos. 8 passenger lift (544 kg) capacity installed at G.B Pant Block , serving G+5 floors which include routine preventive & break down maintenance i/c repair/replacement of worn out items with minimum downtime and warranty & guarantee of repaired/replaced items, etc complete as required. (2 Jobs for 12 Months)	12	Per Month	13042.00	156504.00
2.3	Comprehensive maintenance of OMEGA make 10 passenger lift installed at Science Block , service G+3 floor with center/side opening doors include routine preventive & break down maintenance i/c repair/replacement of worn out items with minimum downtime and warranty & guarantee of repaired/replaced items, etc complete as required.	12	Per Month	11259.00	135108.00
2.4	Comprehensive maintenance of Schindler make 8/10 passenger lift installed at NIE Guest House , service G+6 floor with center opening door include routine preventive & break down maintenance i/c repair/replacement of worn out items with minimum downtime and warranty & guarantee of repaired/replaced items, etc complete as required.	12	Per Month	17858.00	214296.00
		Total of Sub Head-2			709992.00
	SUB HEAD - 3 (Comprehensive & Maintenance of DG Set)				
3.1	Annual preventive and periodical maintenance of 02x320 kVA Cummins make DG set installed at following locations complete with AMF panels including carrying out preventive periodic maintenance and servicing (A/B checks) attending all major /minor faults & breakdown maintenance etc. It also include minium 12 visits annually for each set i/c checking of electrical and mechanical parts etc as and when required at site as per terms and conditions attached and directions of Engineer-in-charge. (i) 2x320 kVA DG set - NCERT- 2 Jobs	12	Months	10965.00	263160.00
3.2	Supplying & replacement of following worn out unserviceable parts at the time of service and as & when required of above DG sets complete as reqd at site.				
3.2.1	ELEMENT LUB OIL FILTER (3238204)	8	Nos	1398.00	11184.00
3.2.2	KIT FUEL FILTER AND RING (3238493)	8	Nos	1969.00	15752.00

3.2.3	KIT SUPER BYP FILTER ELEM (3879488)	4	Nos	2890.00	11560.00
3.2.4	SEAL, O RING (3010937)	8	Nos	46.00	368.00
3.2.5	INHIBITOR CORROSSION 05 LTRS (3816986)	4	Nos	3498.00	13992.00
3.2.6	FOIL SEALED TEST STRIP CC2602 (3403800)	4	Nos	575.00	2300.00
3.2.7	INDICATOR RESTRICTION (3872813)	4	Nos	1092.00	4368.00
3.2.8	KIT AIR CLEANER ELEMENT (3238358)	2	Nos	18623.00	37246.00
3.2.9	RECTIFIER SERVICE KIT HC 4/5	2	Nos	29062.00	58124.00
3.2.10	GASKET ROCKER LEVER COVER (3629140)	12	Nos	1075.00	12900.00
3.2.11	FUNNEL DUAL FILTER CONDUCTIVE M (AX1015646)	2	Nos	6169.00	12338.00
3.2.12	INHIBITOR CORROSSION 10 LTRS (4926654)	24	Nos	6703.00	160872.00
3.2.13	PREMIUM BLUE 7800 PLUS (1/55 Ltr) (506655)	4	Nos	46815.00	187260.00
		Total of Sub Head-3			791424.00
	SUB HEAD - 4 (Rebate and Credit)				
4.1	Buyback for dismantled Material (To kept by the Contractor) including dismentling of following material. All material consider to be as assorted.				
4.1.1	Against Item No. 1.8.1, 1.8.26	85	Each	-350.00	-29750.00
4.1.2	Against Item No. 1.8.2, 1.8.3, 1.8.4, 1.8.5	65	P/kg	-250.00	-16250.00
4.1.3	Against Item No. 1.8.6, 1.8.7, 1.8.8, 1.8.9, 1.8.14, 1.8.20, 1.8.23, 1.8.24, 1.8.38 to 1.8.43	1280	Each	-1.00	-1280.00
4.1.4	Against Item No. 1.8.15, 1.8.16	430	Each	-5.00	-2150.00
4.1.5	Against Item No. 1.8.17, 1.8.18, 1.8.19	35	Each	-15.00	-525.00
4.1.6	Against Item No. 1.8.21, 1.8.22	300	Each	-2.00	-600.00
4.1.7	Against Item No. 1.9	5	P/kg	-250.00	-1250.00
4.1.8	Against Item No. 1.21.1, 1.21.2, 1.21.3, 1.21.4	56.5	P/kg	-250.00	-14125.00
4.1.9	Against Item No. 1.22.1, 1.23.1	10	Each	-50.00	-500.00
4.1.10	Against Item No. 1.24, 1.25, 1.26, 1.27	145	Each	-25.00	-3625.00
4.1.11	Against Item No. 1.28.1	15	P/kg	-15.00	-225.00
4.1.12	Against Item No. 1.29.1, 1.29.2, 1.29.3, 1.29.4, 1.29.5, 1.29.6	145	Each	-1.00	-145.00
4.1.13	Against Item No. 1.31, 1.32, 1.33	9	P/kg	-10.00	-90.00
4.1.14	Against Item No. 1.34.1, 1.35.1, 1.36, 1.37.1, 1.38, 1.39.1, 1.40.1, 1.41, 1.42	600	Each	-20.00	-12000.00
4.1.15	Against Item No. 1.43, 1.44, 1.45	55	Each	-100.00	-5500.00
		Total of Sub Head-4			-88015.00
		Total of all Sub Head = 1,2,3,4			18804763.00

Note:-

In case of overall percentage rates quoted by Agency is below the schedule of rates, such below percentage shall not apply on the items at Sub Head- 4 . However in case quoted overall percentage is above the Schedule of rates, such percentage shall also be applied on these items.

Executive Engineer (E)
DED-61, CPWD
Pushpa Bhawan New Delhi

FINANCIAL BID
(Performa for Quoting the Rates)

CENTRAL PUBLIC WORKS DEPARTMENT					
NIT No. 13/SE/DC-VI/DED-61/2026-27					
NAME OF WORK :- RMO various Electrical & Mechanical services at "Non Residential office Building" NCERT Campus, New Delhi dg 2026-27. (SH: Routine maintenance & Operation of electrical installation at Z.H. Khand, G.B. Pant Block, Janki Ammal Khand, NIE Guest House, Ambedkar Block, PG Hostel, Workshop and other office building at NCERT Campus).					
SCHEDULE OF QUANTITY					
S.No	Name of Components	Estimated Cost	Percentage above or below the Estimated Cost	%age in Figures	Total Cost
1.	Elect. Works	Rs. 1,88,04,763.00			
	Total	Rs. 1,88,04,763.00			

