

**GOVERNMENT OF INDIA
OFFICE OF
THE EXECUTIVE ENGINEER (ELECT.)
INDORE CENTRAL ELECTRICAL DIVISION
C.P.W.D., INDORE**



NOTICE INVITING TENDER

N.I.T. NO. : 40 / EE (E)/ICED/2026-27

NAME OF WORK : A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.

ESTIMATED COST : Rs. 7,55,471/-

EARNEST MONEY : Rs. 15,109/-

TIME ALLOWED : 6 Months

Certified that this N.I.T. contains Total page Marked as 1 to 34 excluding this and Index page, including correction slip.

**Executive Engineer (E),
Indore Cent. Elect. Division,
CPWD, Indore**

Index

Name of work: A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.		
<u>I N D E X</u>		
Sl.No.	Description	Page No.
1.	Information and Instructions for Contractors	1-3
2.	CPWD-6 for e-Tendering	4-8
3.	Receipt of Deposition of original EMD& Form “F”	9
4.	Form CPWD – 7	10
5.	Acceptance	11
6.	Proforma Of Schedules	12-16
7.	Consent Letter	17
8.	Memorandum of understanding	18-19
9.	Additional Conditions	20-28
8.	Schedule of Quantities	29-34
NIT amounting to Rs. 7,55,471/- is hereby approved.		

Assistant Engineer (E)(P)
ICED, CPWD, Indore

Executive Engineer (E)
ICED CPWD, Indore

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

The Executive Engineer (E), ICED, CPWD, Indore on behalf of President of India invites online Composite Percentage rate bids from approved and eligible contractors of CPWD in appropriate class and in building & roads category for the following work(s):

Sl. No.	NIT No.	Name of Work & Location	Estimated composite Cost Put to Bid (Rs.)	Earnest Money (EMD) (Rs.)	Stipulated Period of Completion of work (in Months)	Last date & time of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document	Time & date of opening of bid
1	2	3	4	5	6	7	8
1	40/EE(E)/ICED/2026-27	A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.	Rs. 7,55,471/-	Rs. 15,109	6 Months.	15/10/2026 .upto 03:00 PM	15/10/2026 at 03:30 PM

- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and instructions for bidders posted on website shall form part of bid document.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
- But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. And uploading the mandatory scanned documents such as Insurance Surety Bonds/ Account Payee Demand Draft or Banker's Cheque or Fixed Deposit Receipts or/and Bank Guarantee (for balance amount as prescribed) from any of commercial bank towards **EMD in Favour of Executive Engineer , Indore Central Division-1, CPWD, Indore**, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE), CPWD and all the other documents stipulated in bid document. If the scanned copies of all the documents stipulated in the bid document are not uploaded, then bid will become invalid and shall summarily be rejected.

5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.

6. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations/transactions on the e-tendering portal / website and the bidder should download and install the eMsigner on their system as per instruction available on download section of <https://etender.cpwd.gov.in>.

7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.

8. Contractor can upload documents in the form of JPG format and PDF format.

9. Contractor must ensure to quote rate 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. Pre Bid conference shall be held in the chamber of SE (Indore) CPWD, Indore on dated at 11:00 AM to clear the doubt of intending bidders, if any

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

(ONLY SCANNED DOCUMENTS ARE TO BE UPLOADED. PHOTOGRAPHS OF RELEVANT DOCUMENTS, IF UPLOADED, ARE LIABLE TO BE REJECTED IN CASE OF LACK OF CLARITY)

(1)	Bankers Cheque of a Commercial Bank/ Account Payee Demand Draft of a Commercial Bank, Fixed Deposit Receipt (FDR) of a Commercial Bank/insurance Surety Bonds/Bank Guarantee (for balance amount as prescribed) from a commercial bank against EMD drawn in favour of Executive Engineer, Indore Central Division-1, CPWD, Indore
(2)	Copy of receipt for deposition of original EMD issued from division office (including NIT issuing EE), CPWD. Note:- EMD is required to deposit in the office of Executive Engineer (Elect.), Indore Electrical Division, CPWD, Indore who is inviting bid or Division office of any Executive Engineer, CPWD within the period of bid submission as per CPWD Works Manual-2024 and associated SOP Provision 5/1 (Refer Para 5.1.3 (1)) CPWD OM No. DG/Manual-2024/Misc./01 dated 15-07-2024). If the EMD is deposited in Sub Division office then it shall not be considered and tender shall be rejected.
(3)	Enlistment Order of the Contractor in appropriate class& category in CPWD.
(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 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 account of the work executed and/or for any action taken by CPWD or GST department in this regard"
(5)	Electrical license from competent authority in the name of the contractor or undertaking that " I hereby confirmed that I will either obtain valid electrical license at the time of execution of electrical work or associate CPWD register contractor having valid electrical licenses of eligible class".
(6)	Certificate of training of ERP
(7)	Contact Details

Executive Engineer (E)
ICED,CPWD, Indore

**CPWD-6 FOR e-TENDERING
GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER**

Online Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWD in appropriate class and in building & roads category for the work of

A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.

1. The enlistment of the contractors should be valid on the last date of submission of bids. In case only the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.
- 1.1 The work is estimated to cost : Rs. 7,55,471/-

This estimate, however, is given merely as a rough guide.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 (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 6 **Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. **The site for the work is available.**
The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work
5. The Bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms & conditions of contract to be complied with and other necessary documents except Standard General Conditions of Contract Form 2023 (Construction Work) can be seen from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost. The standard publications like General Conditions of Contract-2023 (Construction Work), Delhi Schedule of Rates (for Civil, Electrical & horticulture) specifications for Civil, Electrical and horticulture works and Delhi Analysis of Rates (for Civil, Electrical & Horticulture) with amendments / correction slips up to the previous day of submission of tender can be seen free of cost from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks(drawn in favour of **Executive Engineer, Indore Central Division-1, CPWD, Indore**) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE) 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 Commercial bank having validity for a period of 90 days for single bid or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders. The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier.

Copy of Enlistment Order and other documents as specified in the notice inviting e- tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e- tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at 15 /10/2026 at 15:30 PM.

10. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if :
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload all the documents including Goods and Service Tax (GST) registration or undertaking as stipulated in the bid document including the copy of receipt for deposition of original EMD.
 - (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 tenderer in the office of tender opening authority.
 - (iv) If a tenderer does not quote any percentage above / below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The Contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule "E" and within the period specified in schedule F. This guarantee shall be in the form of Original bank guarantee including e-bank guarantee of any commercial bank in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as

indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress) within the period of specified in Schedule-F.

12. **The work of Contingencies of**

A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.

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

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to tender for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are

subsequently employed by him and who are near relatives to any 9aboure officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. No Engineer of gazette rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.
18. **The bid for the works shall remain open for acceptance for a period of 30 (Thirty) Days from the date of opening of bid.**
 - (i) If any bidder withdraws his bid or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the government shall without prejudice to any other right and remedy be at liberty to forfeit 50% of the said earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any bidder withdraws his bid or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the government shall without prejudice to any other right and remedy be at liberty to forfeit 100% of the said earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
19. This notice inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 - a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) Standard C.P.W.D. Form-7 for CPWD works-2023 (Construction Work) as amended upto previous day of submission of bid.
20. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineer (E) (Telephone : **0731-2970313** /E-mail: **eeecidcpwdind-mp@nic.in**) or ERP help line no. 18001803286 or e-mail id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

21.0 Jurisdiction of Courts or seat of arbitration

The Court of the place from where the letter of award of work has been issued shall have the jurisdiction to decide any dispute arising out of or in respect of the contract. Similarly seat of Arbitration will be the place from where the letter of award of work has been issued.

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

Executive Engineer (E)

ICED, CPWD, Indore

PRESCRIBED FORMAT for EMD Deposition

<u>RECEIPT OF DEPOSITION OF ORIGINAL EMD</u> (Receipt No...../Date.....)		
1.	Name of work:-	A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.
2.	NIT No. :-	40/EE(E)/ICED/2026-27
3.	Estimated Composite Cost:-	Rs.7,55,471/-
4.	Amount of Earnest Money Deposit:-	Rs. 15,109/-
5.	Last date of submission of bid:-	15/10/2026 at 3:00 P.M.
6.	Name of Contractor:-#	
7.	Form of EMD:-#	
8.	Amount of earnest Money Deposit:-#	
9.	Date of submission of EMD:-#	

**Signature, Name and Designation of EMD received office
Alongwith Office Stamp.**

(#To be filled by EMD Receiving EE/DDH)

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
PERCENTAGE RATE TENDER & CONTRACT FOR WORKS**

Tender for the work of: - **A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.**

- (i) To be uploaded by 15:00 hours on 15/10/2026 at web site: <https://etender.cpwd.gov.in>
(ii) To be opened in presence of tenderers who may be present at 15:30 P.M. on 15/10/2026 in the office of Executive Engineer, (E) Indore Central Electrical Division, CPWD, Indore.

TENDER

I/We have read and examined the notice inviting tender, schedule, A,B,C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

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

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

A sum of Rs./- is hereby forwarded in cash/receipt treasury challan / deposit at call receipt of scheduled bank / fixed deposit receipt of scheduled bank / demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money.

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

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

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

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

Dated

Signature of Contractor

Witness:

Postal Address

Address: Occupation:

.....* to be filled in by 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 the President of India

Signature.....**.....

Dated**

Designation: Executive Engineer (E)
ICED, CPWD, Indore

(to be filled by EE)**

PROFORMA OF SCHEDULES

Name of work : A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.

SCHEDULE 'A'

Schedule of quantities

(Schedule of Work:- Page No. 29 - 34)

SCHEDULE 'D'

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

As attached in tender form

SCHEDULE 'E'

Reference to General Conditions of contract: General conditions of contract for maintenance works 2023 as amended upto previous day of submission of tender

Name of work : - A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.	
Estimated composite cost :	Rs. 7,55,471/-
Earnest money	Rs. 15,109/-
Performance Guarantee	(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount. As per OM No. DG/CON/Maintenance 2023 /16 dated 27/02/2026.
Security Deposit	2.5% of the tendered value of the work

Definitions:

2(v)Engineer-in-Charge

For Elect. Items of work	Executive Engineer, (E), ICED, CPWD Indore or his successor
2(vii) Accepting Authority	Executive Engineer, (E), ICED, CPWD Indore or his successor
2(x) Percentage on cost of materials and labour to cover all overheads and profits	15% (Fifteen percentage)

2(xi) **Standard Schedule of Rates:**

For Elect. Items of work	Delhi Schedule of rate 2022 (Elect.) with correction slips upto the previous day of submission of bid & Market Rate for non DSR items.
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2(xii)	Department	Central Public Works Department
	Standard CPWD contract Form:	General conditions of contract for Maintenance works 2023 & CPWD form-7 as amended upto the previous day of submission of bid.

Clause 1	1. Time allowed for submission of Performance Guarantee, Program chart (Time and Progress) and applicable labour licenses /registration, registration with EPFO, ESIC & BOCW welfare Board including Provident Fund Code No., if applicable or proof of applying thereof from the date of issue of letter of acceptance.	7 Days
	2. Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period as provided in (i) above	3 Days
Clause 2	Authority for fixing Compensation under Clause 2	SE-Indore, CPWD, Indore or his successor
Clause 5	Number of days from the date of issue of letter of acceptance for reckoning date of start.	10 Days

Table of Mile stone(s)			
Sl. No	Description of Mile stone	Time allowed from date of start (Month)	Amount to be withheld in case of non achievement of milestone
	NIL		

NOTE: Withheld amount shall be released if and when subsequent milestone is achieved within respective time specified. However, in case milestones are not achieved by the bidder for the work, the amount shown against milestone shall be withheld.

Time allowed for execution of work	6 Months.		
Authority to decide (i) Extension of time	Executive Engineer (E), ICED, CPWD, Indore		
(ii) Rescheduling of mile stone	EE(E)-Indore, CPWD, Indore or his successor		
(iii) Shifting of date of start in case of delay in handing over of site	EE(E)-Indore, CPWD, Indore or his successor		
Schedule of Handing over the site			
Part	Portion of Site	Description	Time period for handing over reckoned from date of issue of letter of intent
	Portion without any hindrance	-	Full site for the work is available.
	Portion with encumbrances	-	

Clause 6	Whether clause 6 shall be applicable	Yes-EMB/ERP
Clause 7	Gross work to be done together with net payment/Adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	2 Lacs
Clause 7 A	Whether clause 7A shall be applicable	Yes
Clause 8A	Authority to decide compensation on account if contractor fails to submit completion plans	SE-Indore, CPWD, Indore or his successor

CLAUSE 10A		
	N/A	
Above requirement of above equipment's is tentative only; which can be changed by Engineer in-Charge.		

Clause 10B(ii)	Whether clause 10B(ii) shall be applicable	Yes
Clause 10C	Component of labour expressed as percentage of value of work	70 % APPLICABLE

Clause 10 CA/CC:	NOT APPLICABLE	
Clause 11	Specification to be followed for execution of work:	
For Elect. Items of work	CPWD General Specification for Electrical Works Part I Internal – 2023, CPWD General Specification for Electrical Works Part II External – 2023 as amended upto date of receipt tender. Suppliers/manufacturers Specifications for Non DSR items.	

Clause 12

Type of work:	Maintenance work
12.3	Ammendment made in GCC 2023 for Maintanace Work vide No. DG/CON/Maintenance 2023/03 dated 18/12/2023

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Clause 16

Competent Authority for Deciding reduced rates	SE Indore, CPWD, Indore or his successor
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Clause 18		
List of machinery, tools & plants which may require to be deployed by the contractor at site.		
18	Any equipments required for testing and commissioning of work	As decided by the Engineer-in-charge
Note: Requirement of above T&P is tentative which may be changed by Engineer-in-charge as per requirement of work & site.		

Clause 19C - Executive Engineer(E), CPWD, Indore

Clause 19D Executive Engineer(E), CPWD, Indore

Clause 19G Executive Engineer(E), CPWD, Indore

Clause 19K Executive Engineer(E), CPWD, Indore

Clause 25

Designation	
Conciliator	ADG (Bhopal), CPWD, Bhopal
Arbitrator Appointing Authority	SE-Indore, CPWD, Indore or his successor
Place of Arbitration	Indore (M.P.)

Clause 32

“Requirement of Technical Representative(s) and Recovery Rate

S.No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32	
						Figures	Words
-----NIL-----							

Note: Cost of work in the table above, means the estimate amount of the work.

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Diploma holder with minimum 10 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment.

CONSENT LETTER

I/We hereby give my/ our consent to work as electrical contractor till the completion of work and I/we will be responsible for necessary action to hand over the work and for rectification of defects and repair during the maintenance period. I/we will execute the work as per CPWD specification and addition conditions of the works.

I/we will also engage suitable Engineer for the work as per condition of work. I further certify that the above particulars pertaining to me are correct.

Signature of Electrical contractor

Annexure III

Memorandum of understanding

Rs. 100/- Non-judicial stamp

This Memorandum of Understanding (MOU) is made on the _____ at _____

Between

M/s _____ (Main Contractor) having his registered office at _____ which expression shall unless repugnant to the subject or context include its administrators, successors and assigns.

And

M/s _____ (Associate contractor) registered in CPWD as class : _____ Electrical contractor and having his registered office at _____ which expression shall unless repugnant to the subject or context include its administrators, successors and assign.

Whereas, the Central Public Work Department, have issued tender papers to quote for the following work to M/s _____ (Main Contractor).

Name of work :

Whereas, This Memorandum of Understanding has been entered into to execute the above work by the Main Contractor and Associate Contractor.

Whereas, both the parties have gone through and understood the various conditions and clauses of the tender and willingly agree to abide by them.

This MOU shall be valid till the duration of completion of above work and shall be extended if so required by the CPWD.

Now, therefore it is agreed between the parties here to as follows :-

- 1 :- The associated electrical contractor shall completely execute, perform and do all the works mentioned and described in the main agreement for its electrical components according to the specifications, terms and conditions etc. of the main agreement.
- 2 :- The associated electrical contractor shall execute and complete the works in all respect up to full satisfaction of the CPWD officers and attend to them during their inspection at site, meetings etc., whenever required by the CPWD officers.
- 3 :- The cost of electrical works executed by the associated electrical contractor will include the cost of all the materials, accessories, equipments, tools & plants, laborers technical persons required etc. in all respect.
- 4 :- The associated electrical contractor is responsible for getting recorded measurements and preparation, submissions & pursuance of payment of the bills of the work done for electrical portion of the main agreement.
- 5 :- **The rate will be as per the schedule enclosed.**
- 6 :- The Quantity will be as per actual measurement as received from CPWD to main contractor and the rate will be as per the mutually agreed.
- 7 :- The payment to associate contractor will be released after the payment to main contractor is made by the CPWD.
- 8 :- The technical staff required for the associate discipline shall be of associate contractor.
- 9 :- The guarantee of the installation after the completion of the work shall be responsibility of the associate electrical contractor as required by the CPWD.

- 10 :- There is no service tax liability; work being related to the construction of the Central Govt. Deptt. However, if any liability of the service tax is imposed on the associated electrical contractor then it will be paid by main contractor.
- 11 :- Either party shall not repudiate the contract in mid way without the consent of each other. Otherwise it will be treated as breach of agreement for any reason whatsoever.
- 12 :- The main agency shall be solely responsible for deferment & rescheduling of each milestone fixed as per contract documents and in such eventuality, the consequences arising out of the same rests on main agency.
- 13 :- The main contractor only shall be responsible for getting extension of delay regularized and liability what so ever flowing out shall lies with them. There shall be no direct or indirect impact on associate contractor.
- 14 :- TDS shall be deducted by the main contractor as per Income Tax law from associated agency. In case liability of tax other than Income Tax(Such as vat, service tax, or any other mechanism formed) is levied on associated contractor then the main agency will reimburse it in full to associated agency.
- 15 :- The associated contractor shall be bound to execute work upto a deviation limit of 30% in quantities of items of work at the agreement rate. Beyond deviation limit the rates will be decided by main & Associated contractor on mutually agreed basis.
- 16 :- For the items such as extra items, substitute items and new items other than the items of main agreement, if any incorporated in the work, then the main contractor shall pay the full amount so approved to the associate contractor.
- 17 :- The validity of rates shall be _____ months after finalization & acceptance of MOU by the competent authority.
- 18 :- In case main contractor delays the payment to associated contractor after the payment is released by department to the main contractor then on receipt of delay in payment from associate contractor the CPWD shall directly make the payment to associated contractor.
- 19 :- The main contractor shall at their cost provide necessary requisite arrangement for storage of material.
- 20 :- Sand & cement used in the electrical work shall be provide by main contractor.
- 21 :- Security Deposit as deducted by the CPWD will be reimbursed by main contractor to associate contractor. However associated electrical contractor will deposit 2 ½ % of Agreement amount of Rs. _____ in shape of FDR towards S/D to be retained by main contractor which will refunded to electrical contractor after completion of electrical work.
- 22 :- The Income tax, Commercial tax and labour cess tax deducted by the CPWD from the bills of electrical work shall be reimbursed by the main contractor in favour of the associated electrical contractor accordingly.

In witness whereof we have put our hand seal on date _____.

Enclose :- Schedule of rates.

Signature
(Associate Contractor)
Address : _____

Signature
(Major Contractor)
Address : _____

ADDITIONAL SPECIFICATION, TERMS AND CONDITIONS

Name of work : A/R & M/O (Electrical) of Residential Building and Non-Residential Building of NSTI (W) Indore.

Scope of work: The scope of work covered by this contract is an integral part of schedule and include the following.

(I) Internal Electrical installation and fans

1. Persons engaged in maint. Works should be competent for the type of work involved and should possess necessary Licence.

2. Safety procedures as indicated in **appendix E** to the General Specification for internal work [Part-I: Internal 2023] should be duly followed.
3. Maintenance activities carried out as per these schedules should be noted in the maintenance register. When tests are carried out the test results should be recorded with appropriate identification reference. The voltages of supply, total load, current and PF should be noted in logbook every day, preferably during peak loading time of the day. [In the case of isolated/unattended buildings where it is not feasible to log daily, the period may be increased to weekly or fortnightly or even monthly as feasible]
4. Inspection of Electrical Installation is intended primarily from Fire Safety consideration. Following points need to be observed as part of inspection and corrective action as necessary should be taken immediately including co-ordination with the client deptt. or Concerned Engineer-in-charge at site as may be required.
 - a) There is no joint in cords connecting the WTAC units/ Voltage regulators / office equipments like photocopier, PC, etc.
 - b) No bare wiring exists over the flooring without mechanical protection by a Metallic conduit/channel.
 - c) The shaft/spaces for electrical services are not misused for storage or dumping rubbish.
- d) No addition/alterations are done by the user deptts. to the electrical installation by themselves.
5. Insulation tests should be done during monsoon season as per clause 11.2 of CPWD Specifications for Electrical Works Part-I Internal-2023.
6. Earth continuity tests and earth electrode resistant test should be conducted during summer season as per clause 16.4 and 16.5 of the above Specification.
7. The installation as included in the above contract of work as under the **Annexure –B** attached.
8. The contractor is required to render his services through his staff as per strength Specified in the **annexure – I** attached.
9. The contractor will provide Uniform to all staff engaged by him. The suitable identification mark shall be engraved on the pocket of the shirt. The identity card shall be issued by the contractor duly signed by the Engineer-in-Charge. The cost of the uniform and identity card will be born by the contractor.

10. The contractor shall pay the wages to his staff as covered under minimum wages act of M.P.Government and certificate to that effect shall be produced to the depts. Whenever called for, signed by the concerned worker in acceptance.
11. The workers should be provided with adequate tools to enable them to perform their duties efficiently. The sundries materials like cotton waste, grease, distilled water for batteries and fuse wires required for the maintenance and operation shall be provided by the contractor within the amount tendered by him. Other than the material specified above required for maint. & operation shall be regulated through DEMAND CUM-CONSUMPTION register which will have linkage with complaint register.
12. To start with, the contractor shall maintain a complaint register which will monitor the time and receipt/attending the complaint. The contractor shall be responsible for getting signature of the occupant in token of attendance of the complaint in workers diary. The complaint shall be attended to on the same day as far as possible. In case the contractor fails to attend the complaint in reasonable time [within the same day] then depts. shall be free to get the complaint attended through other agency and shall deduct the amount from the bill of the contractor at double the rate spent on such work. The judgement of the Executive Engineer (E) will be final in assessing the expenditure involved for attending the fault by the other agency.
13. 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.

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

14. The contractor 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.
15. 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.

II ADDITIONAL SPECIFICATION, FOR WATER SUPPLY PUMP SET

- a) Deputing necessary trained and technically qualified staff to operate the pump installation as specified in Annexure –I
 - b) Maintaining and up keeping of every associated equipment and machinery such as water level indicator, automatic operators, associated electrical panel and accessories in proper functional condition.
 - c) Recording of all parameters in log book as prescribed by the deptt.
 - d) Bringing to the notice of the deptt. any defect mal-functioning of any pump, motor electrical panel, switches, etc. which requires immediate attention of the deptt.
 - e) Keeping proper watch & ward of the equipment and machinery installations.
 - f) Servicing and up keeping of the equipment such as motors terminal boxes, pump, incoming cables, cable terminations and associated electrical panel in accordance with the maintenance routine specified. [Annexure –A]
 - g) Making good losses or damages to the equipment and machinery or any part there-of if as a result of negligence or default of operating staff. The decision of the Engineer-in-charge in this respect being final.
 - h) Informing the department well in advance about the requirement of any spares and other items necessary for satisfactory operation of the pump installation.
 - i) Replacement of the spares as supplied by the department and re- commissioning of pumps or equipment as the case may be.
 - j) The Contractor would be required to depute technically qualified operational staff as below.
17. After the work is awarded the contractor would be required to furnish the name, father name, qualification, local address of staff proposed to be deputed by him for the job. The staff shall be engaged after particulars are scrutinized and approved by Engineer-in-Charge. Similar procedure shall be followed if he proposes to change the staff there after.
- I] Since the operational staff is to work on all days, reliever for weekly off will have to be arranged separately.
 - II] The maintainer will be allowed one weekly off and three National Holidays, in case the maintenance staff is required on weekly or National Holidays the compensatory rest shall have to be arranged by the contractor for which no additional payment shall be payable.
18. For undertaking work such as cleaning and conditioning of valves etc. requiring additional man power, the same will have to be arranged by the contractor as and when required for which nothing extra shall be paid.
19. Specialized highly technical man power e.g. checking of Coil and adjusting of relays, starters, insulation tests and other such works in pumps which will be required to keep the pumps in good condition except major repairs to pumps and motors, rewinding of motor etc. will also be arranged by the contractor without extra cost for the same.

20. The Engineer-in-Charge reserves the rights to ask the contractor to remove any staff without assigning any reason what so ever the decision of Engineer-in-Charge will be final and binding on the contractor.
21. The contractor shall be fully responsible for the conduct of the staff deputed by him.
22. Place of duty & Shifts shall be fixed by JE-in-charge and operator concerned shall normally be available at duty place. Before leaving place of duty operator shall make entry in the log-book.
23. The operational staff shall always be as per clause 24 above. In case of unforeseen absence from duty of the operational staff, the same will have to be filled in by making suitable arrangement immediately.
24. The contractor shall make his own arrangement for tools for electrical & mechanical work for the use of their staff. No T&P shall be issued by the deptt., operating staff shall be equipped with all necessary T&P and testing equipments so as to attend to normal faults and set them right.
25. Water & power will be supplied FREE OF COST for bonafide use at the work only.
26. All spares of all equipment will be supplied by the deptt. free of cost for the bonafide use of works. However in case it is established that any of the spares and materials have been misused or has been wasted by the contractor staff on account of their negligence, inefficiency or any other reason for which deptt is not responsible.- recovery will be made from the contractor bill towards the cost of such spares/materials. Decision of Engineer-in- Charge will be final and binding on contractor.
27. In case of any damage to any equipment on account of negligence/ fault of the contractor staff, the same will have to be made good at their risk & cost. Failure of which recovery will be made from contractors bill.
28. During the concurrency of contract the pumps shall be in physical custody of the contractor & after expiry of contract the installation like pumps etc. shall be handed over to department in the similar condition in which it was taken over.
29. All works e.g. overhauling of pumps, rewinding of motors, [damaged on account of no fault of contractor] replacement of valves, etc. works involving welding, repairs, painting and any other works for which machinery has been sent out for repair, testing will be arranged by the department.
30. The operational staff shall always be as per clause-1 above. The absence of the specified staff in any shift shall attract a penalty as below.

-- Wireman / Lineman/Operator	----	Rs. 1750/- per shift.
-- Khallasi	----	Rs. 1300 /- per shift
31. The 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 contract. Validity of the contract can however be extended in accordance with clause no. 3 & 4 of the form-8.
32. Before the installations are taken over for operation and maintenance, the Contractor shall duly sign the inventory with the physical condition of pumps, motors, etc. recorded if necessary.

ANNEXURE - A

SCHEDULE OF PERIODIC MAINTENANCE

A] DAILY CHECKS

1. **The water level in the sump as well as in the O/Head tank shall be**
Checked and also suction and discharge pressure, voltmeter reading, ammeter reading shall be checked and recorded in the log-book as and when run. Necessary action to be taken if the reading is not normal.
2. To check all the electrical motor bearings/abnormal for noise/heating,
Checking of gland against leakage and to take necessary steps if found abnormal.
3. Cleaning of pump house, floor and machinery.
- To be acknowledged by JE (E).

B] WEEKLY CHECKS

1. To check pump gland packing and add more packing if required.
2. Dusting or blowing inside of all electric panel with compressed air or electric blowers.
3. To check lugs/thimbles/terminal blocks of electrical motors, switches starters, single phase preventer, indicating lamp for loose connection and to take remedial steps if required.
4. To check coupling of pumps and motor and to check alignment of pump, rectify if necessary. -----To be acknowledged by JE (E).

C] WORKS TO BE DONE ON MONTHLY BASIS.

1. To check operation of valves against leaks & proper functioning & to rectify if necessary. ----- To be acknowledged by AE (E).

D] WORKS TO BE DONE AFTER EVERY THREE MONTH.

1. To check and lubricate the bearings of motor and to keep proper records.
2. To check the foundation bolts of pumps, motors and to take necessary action if required.
3. To check all electrical motors for earthing& insulation & to maintain proper records.
4. servicing of switches, starters and adjust the relays and keep proper record.
5. To be acknowledged by EE (E).

ANNEXURE - B

DETAILS OF PUMPS

1. In Bore well – (a) 7.5 HP Pump sets Submersible – 1 Nos.
2. In Open well (a) 7.5 HP Pump sets Submersible – 2 Nos.

DETAILS OF INSTALLATIONS TO BE MAINTAINED

{A} Internal EI in various residential locations:-

S.No.	Type of Building	Qty.	Lt. /Fan / Call bell/ Ex. Fan point	Lt./Power point	Transformer	Air conditioning unit	Water cooler with RO
1	Qtrs. Type-II	2 Nos.	As per Site				
2	Qtrs. Type-III	2 Nos.	As per Site				
3	Qtrs. Type-IV	1Nos.	As per Site				
4	Hostel Bldg.	1 No.	As per Site				
5	Institutional Bldg.	1 No.	As per Site		1 No. 200 KVA		
6	Institutional Bldg.					48	6

ANNEXURE - I

The contractor shall provide or depute at least the following staff technically qualified operational staff for the maintenance of above electrical and mechanical installations including solar power installations.

Name of work:- A/R & M/O (Electrical) of Residential bldg and Non Residential bldg of NSTI W Indore

1. Khallasi - 1 No.
2. Wireman cum Operator - 1 No.

Qualifications and experience required for staff engaged on the work

a] Wireman cum Lineman/Operator

- I] He should have passed ITI / Diploma or equivalent qualification in the Trade & Electrical workman permit/workman's competency certificate/Electrical workman's/lineman license (Certificate of competency Class-II).
- II] Must have a minimum practical experience of 1 years in erection & Maintenance of different type of HT & LT electric switchgears including U G cables.
- III] He should be practically experienced to handle switchgears, transformers, motors, electric starters and rectification of faults therein. He should be able to use the allied T&P such as Tong Tester, Multimeters, etc. with skill and should preferably be aware of Indian Electrical Regulations.
- IV] Should be capable and competent to deal with electrical shocks & Operational staff affected thereby.

EXECUTIVE ENGINEER (ELECT.)

TERMS & CONDITIONS

- 1) It shall be the responsibility of the contractor for safety and cleanliness of the installation/ Equipments particularly which are under his sole possession/use as reqd. Nothing extra shall be paid to the contractor in this regard.
- 2) Rates are included of all prevailing taxes and duties. Nothing extra should be paid in this regard.
- 3) Any damage done to the existing installation/building particularly due to negligence shall be entire responsibility of contractor to make good the same free of cost.
- 4) The contractor shall provide identity card to the staff employed at site. The staff deputed at site of work shall be trained & qualified as per the CPWD manual Vol - III requirement and should be able to behave properly with client department's official. In case complaint about any misbehavior & /or of improper working of any of staff of contractor is received/noticed the concerned person shall be presumed that no such staff was on duty, beside taking any other suitable action by Engineer-in-Charge as deemed fit.
- 5) The contractor shall be responsible to provide & maintain records at site of work e.g. for attendance of on duty staff, log books for equipments etc. as required.
- 6) The department shall be at liberty to discontinue the work at any time without assigning any reason and no claim of any sort shall be entertained due to premature closure of the contract.
- 7) Cleaning agents, such as soap & dusters shall be provided by the contractor, nothing extra shall be paid for such items.
- 8) The department will not pay beyond and above the quoted rates in respect of provident fund, Gratuity, paid Holiday, Weekly off, Relieving charges, Medical Charges, Insurance Charge etc.
- 9) The department will not be responsible for any injury sustained by the agency workers during the performance of their duties and also for any damages or compensation due to any dispute between the agency and its workers. Any expenditure incurred by the department to face the situation arising out of act of his workers will be paid by the agency. The agency will be fully responsible for the payment of compensation.
- 10) In case it is noticed by the Engineer – in – charge that the work carried out by the agency is not up to the mark/required standard. Two days written notice will be given to the agency, warning the bad state of work and asking agency to Improve upon the standard within this period. In the event of the Department finding that there is no improvement and the work is not being carried out as per instructions, giving 24 hours notice shall terminate the contract.
- 11) The contractor/Agency shall be responsible for the conduct behavior and Fidelity of the staff employed by him.

- 12) The Engineer - in - charge reserves the right to extend/reduce the period of contract as per the existing conditions.
- 13) The department shall have no involvement in any claim submitted by the worker for permanent absorption in the department on the plea of working /engaged on Government duty.
- 14) Labour engaged by the contractor shall not be paid less than the minimum wages as fixed by the Government from time to time.
- 15) Engineer – in – charge shall have the absolute power to withhold such amount from the claim of the Agency /Contractor as he finds suitable for breach of any condition mentioned herein as above to compensate the damages/risk caused by negligence of Agency / Contractor or his workman.
- 16) Staff can deploy on another site within NSTI , Indore as and when required.
- 17) Staff can be deployed on other nature of work suited with the essential qualification during his idle period.
 - 18) Material should have the warranty for one year from the date of completion of work.
 - 19) No T& P issued by the department.
- 20) Final decision for approving the material is rest with the Engineer – in – charge.
- 21) Compliance of minimum wages act is the responsibility of contractor.
- 22) The contractor shall bound to make the payment of wages to the staff deployed at work by 5 th of each month in their bank account through cheque or draft or e-transaction and will submit the evidence of such transaction like photocopy of bank passbook / Account statement of staff etc. to the department along with bill to insure the payment of wages.

Terms and condition for Comprehensive maintenance of RO with water cooler Units

1. Service will be carried out in every month and service report will be submitted by the agency.
2. All the consumable and non consumable parts like All types of filters, Membrane, Pump, Motor, PCB, Taps, PVC conduits, Drain pipes, compressor are under the scope of contractor.
3. All the faulted repair parts will be replaced by the contractor at free of cost and the dismantled parts should be returned to the department.
4. TDS of water should be maintained regularly at desired level.
5. The complaint should be attended within 24 hours. Further recovery will be made @ Rs. 1000/- per day.
6. Tank cleaning should be done on weekly basis with suitable cleaning agent is in the scope of contractor.

Terms and condition for Comprehensive maintenance of Split AC Units

1. Service will be carried out in every month and service report will be submitted by the agency.
2. All the consumable and non consumable parts PCB, Blower, Condenser coil, Temperature sensing unit, refilling/ topup of suitable refrigerant gas, PVC conduits, Drain/copper pipes, compressor etc. are under the scope of contractor.
3. All the faulted repair parts will be replaced by the contractor at free of cost and the dismantled parts should be returned to the department.
4. The complaint should be attended within 24 hours. Further recovery will be made @ Rs. 1000/- per day.

**Executive Engineer (E)
CPWD, Indore.**

LIST OF ACCEPTABLE MAKES OF ELECTRICAL MATERIAL

S. No	Description of Item	Approved Makes
1	MS Conduit & its accessories	Precision/BEC/AKG/Polycab/RMCON/NIC
2	XLPE insulated PVC sheathed 1.1 KV grade Aluminum conductor Armoured Cable/Flat Copper Conductor Cable/Control Cable/FRLS Copper Wire.	R.R. Kabels / Finolex / Havells/ Polycab/Gloster/Grandlay/KEI .
3	PVC Conduit & its accessories	AKG/BEC /Polycab/Precision
4	Modular 6/16 Amp. Switch , Socket, PVC Holder , Blanking Plate, Metal Switch Box (the gauge of switch Box shall not less than 18 SWG & of the same make that of Switch) Front Plates, Telephone, T.V. Outlets Socket, Fan Regulator & other modular accessories.	Honeywell M.K.(Blenz Plus)/ Legrand (Arteor) /Schneider (Unika pure)/ North-West (Stylus Plus)
5	MCB/ DB/ Industrial Socket not less than 10 KA/ MCCB (ICS=100% ICU at 415 Volt)/RCCB/Loose wire Box /Blanking Plate/Switch Gear.	Legrand/L&T/Hager/Seimens/Schneider
6	Lugs, Thimble, Cable gland	Dowell/Jainsons/Comet/Braco / Multi
7	LED Batten, Downlighter & Street Light Fittings, LED Lamp	Philips/Wipro/Havells/Bajaj/Lighting Technology
8	Exhaust Fan/BLDC Fan	Crompron/Usha/Havells
9	Fan Condenser	Epcos/Havells/ Asian
10	Blower / Compressor, condensing coil for AC Unit	As per ISI marked.
11	Fan Condenser	Epcos/Havells/Bajaj
12	DLP Truncking	Presfit/MK/Precision/AKG
13	All other materials	Make and sample to be approved by Engineer-in-charge before use in work.

All makes for which approved has been issued by regional office till last date of submission of tenders are also deemed to be approved

**Executive Engineer (E)
CPWD, Indore.**

Schedule of Work

Name of work : A/R & M/O (Electrical) of Residential bldg and Non Residential bldg of NSTI W Indore.

S. No	Description Item	QTY	Unit	Rate	Amount
SH-I(Operation and maintenance)					
1	Operation & Maintainance of electrical & mechanical installation by deploying the minimum staff in timing 9.30 AM to 5.30 PM or to be decided by Engineer in charge .				
1.1	Wireman cum Operator -1Nos.	6	Month	₹ 31,079	₹ 1,86,474
1.2	Khallasi -1 no	6	Month	₹ 23,451	₹ 1,40,706
	Note: All complaints and work executed shall be properly recorded in the complaint register and documented. This register shall be kept at site office. Service centre and abstract of daily complaint receive/ attended shall be recorded in the register and compiled list of monthly complaint shall be submitted on first day of every succeeding month. Attendance register of staff deputed shall be maintained and kept at site office and duty chart of worker shall be displayed at site office/ service centre. (for item No. 1).				
2	Rewinding of ceiling fan/wall fan/exhaust fan with copper winding wire complete with baking, testing and commissioning i/c dismantling and refixing i/c credit for scrap etc. as reqd.	20	each	₹ 977	₹ 19,540
SH-II(Supply of Material)					
3	3 Module PVC Box	5	Each	₹ 133	₹ 665
4	Modular base & cover plate for 3 module	5	Each	₹ 72	₹ 360
5	6 Module PVC Box	5	Each	₹ 224	₹ 1,120
6	Modular base & cover plate for 6 module	5	Each	₹ 101	₹ 505
7	Fan Condenser 3.15 MFD	25	Each	₹ 36	₹ 900
8	6 Amp MODULAR type Switch	25	Each	₹ 44	₹ 1,100
9	16 Amp MODULAR type Switch	25	Each	₹ 95	₹ 2,375
10	6 Amp MODULAR Socket	25	Each	₹ 81	₹ 2,025
11	16 Amp MODULAR Socket	25	Each	₹ 135	₹ 3,375
12	Bell Push	3	Each	₹ 79	₹ 237
13	Call Bell/Buzzer	3	Each	₹ 56	₹ 168
14	5-32 amp SP MCB	25	Each	₹ 173	₹ 4,325
15	Supplying of Heavy duty PVC Casing Capping of size 20 mm X 12 mm i/c Iron screws, Internal Coupler, PVC fastener , and other complete accessories etc as required	50	Meter	₹ 27	₹ 1,350
16	1.5 sq mm Cu conductor FRLS PVC Insulated wires	50	Meter	₹ 23	₹ 1,150

17	4 sq mm Cu conductor FRLS PVC Insulated wires	50	Meter	₹ 54	₹ 2,700
18	6 sq mm Cu conductor FRLS PVC Insulated wires	50	Meter	₹ 81	₹ 4,050
19	LED Batten light (System lumen efficacy ≥ 105 <120 lm/Watt) Supplying 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)				
19.1	18- 22 watt	30	Each	₹ 391	₹ 11,730

20	Supplying 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, frequency 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 , 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 confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c 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 and <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 aluminum Body including trim with Aluminum Reflector				
20.1	8 - 10 watt	20	Each	₹ 337	₹ 6,740
20.2	12 -15 watt	20	Each	₹ 422	₹ 8,440

21	Supplying of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -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 as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitary) 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 ≥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 aluminium housing such that LED junction temperature shall not rise above 90°C).				
21.1	45 watt	5	Each	₹ 1,025	₹ 5,125

22	Brush Less Direct Current (BLDC) Fan with Remote Supply of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req.				
22.1	1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	10	Each	₹ 2,421	₹ 24,210
23	Providing services for comprehensive Maintenance of following capacity Air-Conditioners by providing all type materials i/c major & minor components required for proper running of Air-conditioners at NSTI Campus etc. complete as required. (Atleast 1 Monthly Visit)				
	a) Split Type AC Unit (upto 2 TR)- 48 Nos.	6	Months	₹ 21,851	₹ 1,31,106
24	Comprehensive Maintenance Service for 80L capacity water cooler which includes all spare parts, gas charging and unlimited breakdown support for the service tenure of agreement. - 6 Nos. (Atleast 1 Monthly Visit)	6	Months	₹ 2,639	₹ 15,834
25	Comprehensive Maintenance Service for 50LPH RO System which includes all spare parts and unlimited breakdown support for the service tenure of agreement and Replacement of all consumable parts (All Filter kits) during agreement tenure - 6 Nos.(Atleast 1 Monthly Visit)	6	Months	₹ 6,236	₹ 37,416
26	Supplying suitable size PVC 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.	5	Each	₹ 563	₹ 2,815

27	Dismantling of ceiling fan and painting the same with with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent and replacing the damaged rubber reel, nuts and bolts with washers and safety pins, reinstalling the same as required.	10	Each	₹ 47	₹ 470
28	Supply, installation, testing and commissioning of LED indoor Wall light of 3W, Alluminium housing, CCT 2700- 6500 K, 25,000 burning hours lifetime, CRI $\geq$ 80%, PF > 0.9, THD< 10%, and minimum 1 Year life warranty from the OEM,LM79 & LM 80 from NABL certified Lab alongwith connection to existing light point, body earthing and sundry materials and should have BIS certified for Driver and lumaires both etc complete etc as required.	58	Each	₹ 1,480	₹ 85,840
29	Supplying and fixing of 3x4 Sq. mm PVC insulated PVC round sheathed Multicore copper conductor Unarmoured power cable etc as required.	50	Mtr	₹ 327	₹ 16,350
30	Supplying of following size DLP Trunking including complete accessories etc as required.				
30.1	100 X 50 mm	30	Mtr	₹ 1,209	₹ 36,270
		Total			₹ 7,55,471

Executive Engineer (E)
CPWD, Indore.