ANNEXURE - 20A.13.1

(New Annexure as per OM /MAN/224B, Modified as per DG/MAN/ 328)

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE

(Application inviting open bids)

The Executive Engineer (Electrical), Raipur Electrical Division, CPWD,'B' Wing, Ground Floor, Central Secretariat Building, Sector-24, Atal Nagar, Nava Raipur (C.G.) 492018 (Ph: - 0771-2284985 / email: eeerced-rpr.cg@gov.in) on behalf of the President of India invited **online percentage rate** bids from approved and eligible contractors of **Building & Road category** of CPWD for the following work(s):-

TABLE – 1

S.No.	Description	Details
1	Mode of tender	Single bid ~~/ Two bid~~
2	NIT No.	**13 /EE(E)/RAIPUR/2026-27 (Recall 2)**
3	Name of work & Location	**Providing 25 KVA DG set at RSRW, Raipur.**
4	Estimated cost put to bid (Rs.)	**5,39,863/-**
5	Earnest Money (Rs.)	**10,797/-**
6	Stipulated Period of Completion of work (in months)	**02 (Two) Months**
7	Last date of online submission Of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document.	**Up to 3.00 P.M. on 26 /11 /2026**
8	Date & Time of opening of bid	**At 3.30 P.M. on 26 /11 /2026**

1. The intending bidder must read the terms and conditions of **CPWD-6** carefully. He should only submit his bid if he consider himself eligible and he is in possession of all the documents required.
   The intending bidder shall consider order No. DG/Enlist.Rules-2016/Misc/01 dtd. 31.12.2025 and also read para 3.5 of page No.3 & table No.9 at page No.19 of the **"Rules for enlistment of contractors in CPWD,2026"**.

2. Information and Instructions for bidders posted on website shall form part of bid document.

3. 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.

4 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 Bankers Cheque or Fixed Deposit Receiptsor/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.

5. Those contractors not registered on the website mentioned above, are required to get registered before hand. 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 to submit the bid.

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

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

9. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in 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. SC/ST contractors enlisted under class V category are exempted from processing fee payable to ITI.

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

    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.

    Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online tendering process as per details available on the website. The intending bidder must have valid class – III digital signature to submit the bid.

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

    Earnest money in the form of **Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call receipt (drawn in favour *Executive Engineer (E), Raipur Central Electrical Division, CPWD Raipur* or Bank Guarantee** of any Schedule Bank shall be scanned and uploaded to the e-tendering website and shall be deposited by the lowest bidders within a week after opening of financial bid falling which the bidders shall be rejected and enlistment of the agency shall be withdrawn by the enlisting authority.

    A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lakh, whichever is less, will have to be deposited in the shape prescribed above and balance in shape of Bank guarantee.

    Interested contractor who wish to participate in the tender has also to make following payments in the form of e gateway by credit / debit card internet banking or RTGS/ NEFT facility for tender processing fee. The cost of tender document is not required.

(i) **e- Tender Processing Fee – /-drawn in favour of "ITI Limited" payable at Delhi (Not refundable).**

(ii) **EMD –Rs.10,797/- drawn in favour of Executive Engineer (E), Raipur Central Electrical Division, CPWD, Raipur.**

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

1) Treasury Challan / Demand Draft / Pay order or Bankers Cheque / Deposit at call receipt /FDR / Bank Guarantee of any Schedule Bank against EMD as per Para 9 of CPWD-6.

2) The EMD deposit receipt obtained from CPWD division as per Para 9 of CPWD-6.

3) Enlistment order of the contractor in appropriate category / concern letter.

4) Valid Electrical License. (Tenders of only those contractors will be opened who have uploaded valid electrical license from competent authority in the name of contractor. However the bid of those contractors will also be opened who have uploaded an undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate contractors having valid electrical license of eligible class (Refer Correction Slip vide No. DG/SE/CM/ENLIST.RULES/Misc./02 dated 14.07.15 attached in this NIT.)

5) 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 undertaking 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"

6) Registration of EPFO, ESIC to be uploaded in the eligibility document sections.

7) Affidavit as per page No.21 of NIT.

8) Copy of PAN Card.

9) ERP Training Certificate issued by CPWD.

10) The Contractor has mandatory to upload letter head of the firm with detail of contract no. / email ID to facilitate communication in case of any query. In the absence of this if any query is not addressed this may lead to tender rejection.

Executive Engineer (E)
CPWD, Raipur

BLANK

RECEIPT OF DEPOSITION OF ORIGINAL EMD

RECEIPT NO.: **DATE :**

1. NAME OF WORK : **Providing 25 KVA DG set at RSRW, Raipur.**
2. NIT No.: **13 /EE(E)/RAIPUR/2026-27 (Recall 2)**
3 ESTIMATED COST : **Rs.5,39,863/-**
4 AMOUNT OF EARNEST MONEY DEPOSIT : **Rs.10,797/-**
5 LAST DATE OF SUBMISSION OF BID **:** **/11 /2026**

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

1 NAME OF THE CONTRACTOR

2 FORM OF EMD

3 AMOUNT OF EARNEST MONEY DEPOSIT

4 DATE OF SUBMISSION OF EMD

Signature, Name and designation of EMD receiving officer (EE/AE(P)/AE/AAO)

along with stamp

(# To be filled by EMD receiving EE or NIT issuing EE/AE as the case may be)

BLANK

CPWD-6 FOR e-TENDERING

The Executive Engineer (Electrical), Raipur Electrical Division, CPWD,'B' Wing, Ground Floor, Central Secretariat Building, Sector-24, Atal Nagar, Nava Raipur (C.G.) 492018 (Ph: - 0771-2284985 / email: eerced-rpr.cg@gov.in) on behalf of the President of India invited **online percentage rate** bids from approved and eligible contractors of **Building & Road category** of CPWD for the following work(s):-

Name of Work :- *as per table – 1 of e-TENDER NOTICE*

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

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

1.1 The work is estimated to cost *as per table -1 of e-TENDER NOTICE* This estimate, however, is given merely as a rough guide.

~~1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.~~

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

1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

Criteria of eligibility for submission of bid documents.

~~1.2 .1 Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD contractors.~~

~~For works estimated cost upto tendering limit of class I composite category Contractor (However, for Horticulture and Furniture etc. discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be)~~
~~Three similar works each of value not less than Rs. ..... or two similar work each of value not less than Rs. ..... or one similar work of value not less than Rs. ..... (all figures rounded to nearest convenient figure) in last 7 years ending previous day of last date of submission of bids.~~

~~**Note:-**~~
~~For works costing above tendering limit of class II composite category contractors but upto tendering limit of Clause I composite category Contractor (However, for Horticulture and Furniture discipline, it may be modified as per bidding limit of CPWD class II and CPWD Class I contractors respectively of respective discipline as the case may be) when bids are open to non CPWD contractors also, then class II contractors of CPWD registered shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

~~1.2 .2 Criteria of eligibility for CPWD as well as non CPWD contractors,~~
~~For works estimated to cost above the tendering limit of class I composite category Contractor (However for Horticulture and Furniture discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be.) Three similar works each of value not less than Rs. ..... or two similar work each of value not less than Rs.....or one similar work of value not less than Rs.....(all figures rounded to nearest convenient figure) in last 7 years ending previous day of last date of submission of bids.~~

~~The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid. This is applicable for 1.2.1 as well as 1.2.2 (This is not applicable for CPWD enlisted contractors of appropriate class in composite category)~~

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

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

~~1.2 .3 When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of **clause 1.2.1** above, it will be mandatory for non CPWD contractors and CPWD class-II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of **clause 1.2.2.**~~

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

2. Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD 7/8 & General Conditions of Contracts for CPWD 2023" which is available as a Govt. Of India Publication. 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 **02 (Two) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.

4. The site for the work is available.

~~OR~~

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

……

~~(ii) The architectural and structural drawing for the work is available~~

~~or~~

~~The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.~~

5. The bid documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard "General Conditions of Contract for CPWD Works 2023" Form can be seen from website **www.cpwd.gov.in** or **etender.cpwd.gov.in** free of cost.

6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.

8. When tenders are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.

9. 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 *Executive Engineer (E), Raipur Central Electrical Division, CPWD, Raipur* 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 document shall only be issued from the place in which the office of receiving division office is situated.). The EMD receiving division office 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.

(This receipt of deposition of bank guarantee shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.)

A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lakh, whichever is less, will have to be deposited in the shape prescribed above and balance in shape of Bank guarantee of any Scheduled Bank which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. However certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.

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

9A. **The contractor registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time.**

The bid submitted shall be opened : ***as per table – 1 of e-TENDER NOTICE***

10. The bid submitted shall become invalid if:

10.1.1 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 of 5% (Five Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) 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 of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

12. **The description of the work is as follows:**

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 bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and

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

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other 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 bidders shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with bidders 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 bidders shall be bound to perform the same at the rate quoted.

16. The contractor shall not be permitted to tender for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the 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 **~~Ten / Fifteen /~~Thirty ~~/Forty Five /Sixty~~ (~~10 / 15 /~~30 /~~45 /60~~)** days from the date of opening of bids in case of single bid system / **~~Seventy Five (75) days from the date of opening of technical bid in case bids are invited on 2 or 3 bid/envelop system~~ (strike out as the case may be)**

19. This notice inviting Tender shall form a part of the contract document. The successful bidders /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 the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

    b) Standard C.P.W.D. Form 7/8 or other Standard CPWD Form as applicable.

20. **For Composite Bids**

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

20.1.2 The bid document will include following three components:

Part A:- CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 as amended/ modified up to .....

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

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

20.1.3 The bidders must associate himself, with agencies as per NIT conditions.

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

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

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

20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

20.1.8 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer in charge of relevant component(s).within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).

20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s).

The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

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

20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer- in-charge of the discipline of minor component directly to the main contractor.

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

20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

Executive Engineer (E)

BLANK

CPWD-7/8

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

Percentage / ~~Item~~ Rate Tender & Contract for Works

(A) Tender for the work of ***as per table – 1 of e-TENDER NOTICE***

(i) To be uploaded by .....hours on ..... to/ upload at .....

(ii) To be opened in presence of tenderers who may be present at …… hours on …… in the office of .....

as per table – 1 of e-TENDER NOTICE

TENDER

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

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

I/We agree to keep the tender open for Thirty (30) days from due date of opening of bids in case of single bid system / **~~Seventy Five (75) days from the date of opening of technical bid in case bids are invited on 2 or 3 bid/envelop system~~** for specialized work and not to make any modifications in its terms & conditions.

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

A sum of Rs. ***as per table -1 of e-Tender Notice*** is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a 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 performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee 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 & integrity of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

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

(Rupees……..
……)

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

(a)
(b)
(c)

For & on behalf of President of India

Signature ……

Dated: Designation……

PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) - **Attached**

SCHEDULE 'D'

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

---------- As enclosed ----------

SCHEDULE 'E'

Reference to General Conditions of contract.
(General conditions of contract for CPWD works 2023 shall be made part of agreement)

Name of Work:- as per table – 1 of e-TENDER NOTICE

Estimated cost of work : as per table – 1 of e-TENDER NOTICE

(i) Earnest Money : as per table – 1 of e-TENDER NOTICE
(to be returned after receiving performance guarantee)

(ii) Performance Guarantee : 5% of tendered value

(iii) Security Deposit : 2.5% of tendered value
Or
2.5 % of tendered value plus 50 % of PG for contracts involving maintenance of the building and services/other work after construction of same building and services/ other work.

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

Officer inviting tender	Executive Engineer (Elect.), CPWD, Raipur
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3:	See below

Definitions:

2(v) Engineer-in-Charge	Executive Engineer (Elect.), CPWD, Raipur.
2(Viii) Accepting Authority	Executive Engineer (Elect.), CPWD, Raipur
2(x) Percentage on cost of materials and Labour to cover all overheads and profits:	15%
2 (xi) Standard Schedule of Rates: -	Market Rates / DSR-2025
2 (xii) Department :	Central Public Works Department
9 (ii) Standard CPWD Contract Form GCC 2023, CPWD Form – 7/8 as modified & corrected upto date.	

Clause 1

10.2 Time allowed for submission of Performance Guarantee, Programme Chart (time and Progress) and applicable labour licenses, registration With EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance. 0 7 Days

(ii) Maximum allowable extension with late fee @ 0.1% per day of PG amount beyond the period provided in (i) above. 0 7 Days

(1 to 15 days to the filled by NIT approving authority)

Clause 2

Authority for fixing compensation under clause 2. Chief Engineer, CPWD, Raipur

Clause 2A

Whether Clause 2A shall be applicable. Yes / No

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start mile stone (s) as per table given below:- 15 DAYS

Sl.No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone.
1			
2			
3			
4			

Time allowed for execution of work **02 (Two) Months**

Authority to decide:

(i) Extension of time Executive Engineer (Elect.), CPWD, Raipur (Engineer in charge or engineer in charge of Major component in case of composite contracts, as the case may be)

(ii) Rescheduling of mile stones …… (Chief Engineer/ Superintending Engineer / PM/CPM in charge or Superintending Engineer in charge of major component in case of composite contracts, as the case may be)

(iii) Shifting of date of start in case of delay in handing over of site…….. (Chief Engineer/ Superintending Engineer / PM/CPM in charge **or** Chief Engineer/ Superintending Engineer / PM/CPM in charge of major component in case of composite contracts, as the case may be)

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

Clause 5

Applicable clause 5/ Clause 5A

Clause 6 : Computerised Measure Book (CMB) / Electronic Measurement Book (EMB)

Mode of measurement : CMB / EMB

Note:- One option to be kept by NIT approving authority.

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 .....

Clause 7A

Whether Clause 7A shall be applicable Yes / ~~No~~

Clause 8A

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

Clause 10A

List of testing equipment to be provided by the contractor at site lab.

All tools & plants as required to carryout the electrical work.

Clause 10B (ii)

Whether Clause 10B (ii) shall be applicable ~~Yes~~ / No

Clause 10C

Component of labour expressed as percent of value of work = 25%

Clause 10CC : ~~Applicable /~~ Not Applicable

Schedule of component of other Materials, Labour, etc. for price escalation.

Component of civil (except materials covered under clause 10CA)/Electrical construction value of work.- Xm …….....%

Component of Labour – expressed as percent of total value of work. Y …….....…%

Note :- Xm..... % should be equal to (100) – (materials covered under clause 10 CA i.e. cement, steel, POL and other material specified in clause 10CA+ component of labour)

Clause 11

Specifications to be followed for execution of work :

1. CPWD General Specifications for Electrical Works, Part I Internal – 2023
2. CPWD General Specifications for Electrical Works, Part II External – 2023
3. CPWD General Specifications for Electrical Works Part IV Sub Station – 2013
4. CPWD General Specifications for Electrical Works Part V Wet Riser & Sprinkler Systems – 2020
5. CPWD General Specifications for Electrical Works Part VI Fire Detection and Alarm System – 2018
6. CPWD General Specifications for Electrical Works Part VII D.G. Sets – 2013
7. CPWD General Specifications for Electrical Works Part VIII Gas Based Fire Extinguishing System-2013
8. General Specifications for Heating, Ventilation & Air-Conditioning(HVAC) – 2024
9. General Specifications for Electrical Works (Part-III-LITS & Escalators) – 2003 & As Per Additional Specifications Attached with Schedule of Work.

Clause 12 : Authority to decide deviation upto 1.5 times of Tendered amount

12.2 & 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work. **100%**

12.5 (i) Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) --

(ii) Deviation limit for items mentioned in earth work subhead of DSR and related items

Clause 16

Competent Authority for deciding reduced rates. **Chief Engineer, CPWD, Raipur.**

Clause 18

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

1. LT Megger **2. Earth tester** **3. Tongue tester**

4. Screw guage. **5. Crimping tool**

Clause 19 C .....authority to decide penalty for each default.
Clause 19 D .....authority to decide penalty for each default.
Clause 19 G .....authority to decide penalty for each default.
Clause 19 K .....authority to decide penalty for each default.

Clause 25

Constitution of Dispute Redressal Committee (DRC)	Competent Authority to appoint DRC
DRC shall constitute one Chairman and two members	Additional Director General if claim exceeds more than Rs.25lacs / Chief Engineer
	Chairman- CE Raipur Member Secretary- SE(P)(C), O/o ADG Bhopal Member- SE cum PD, BPC-I Presenting Officer- EE, Incharge of work.

Clause 32 : Requirement of Technical Representative(s) and recovery Rate
(As Per O.M. No. DG/MAN/322 DATED 11.06.2015 FOR Cost of Work upto 1.5 Crore.)

(More than 5 lac to 1.5 crore)

S.No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1	Graduate Engineer or Diploma Engineer	Elect.	Project Manager cum Planning /quality / site / billing engineer	2 Years or 5 Years	1No.	Rs.15000/- per month per person	Fifteen thousand

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

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

Clause 38

(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates : NA

(ii) Variations permissible on theoretical quantities:

(a) Cement
For works with estimated cost put to tender not more than Rs. 5 lakh. 3% plus / minus
For works with estimated cost put to tender more than Rs.5 lakh. 2% plus / minus.

(b) Bitumen All Works 2.5 % plus & only & nil on minus side.

(c) Steel Reinforcement and structural steel sections for each diameter, section and category 2.5 % plus/ minus

(d) All other materials. Nil

Executive Engineer (E)
CPWD, Raipur

BLANK

AFFIDAVIT

(To be submitted on non-Judicial stamp paper of minimum value of Rs 100/-)

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of department, then I/We shall be debarred from biding 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 performance guarantee.

(Scanned copy of this affidavit to be uploaded at the time of submission of bid)

……

……

……

Signed by an Authorised Officer
of the firm with stamp

BLANK

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/Mobilization advance

1. Whereas the **Executive Engineer (E), CPWD, Raipur** on behalf of the President of India (hereinafter called "The Government") has invited bids under ……..……..(NIT Number)..... (date) for as per table – 1 of e-TENDER NOTICE The Government has further agreed to accept irrevocable Bank Guarantee for Rs.……(Rupees……only) valid upto……..(date)*…. as **Earnest Money Deposit** from……(Name and address of contractor)……..(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the **Executive Engineer (E), CPWD, Raipur** on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number …….....with……..(name and address of contractor)..... (hereinafter called "the contractor") for execution of work as per table – 1 of e-TENDER NOTICE The Government has further agreed to accept irrevocable Bank Guarantee for Rs…… (Rupees…… ……only) valid upto……..(date)…. As **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, …….. (indicate the name of the bank)……(herein after referred to as "The Bank") hereby undertake to pay to 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 Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. ……(Rupees……..…..only).
4. We,…… (indicate the name of the bank)……..., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, ……..(indicate the name of the bank)……., further agree that the Government shall have the fullest liberty without our consent and without affecting 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 indulgency 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 principle debtor at the first instance without proceeding against the contract and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

7. This guarantee will not be discharged due to the change in the constitution of the bank or the contractor.
8. We,…… (indicate the name of the bank)……., undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This bank guarantee shall be valid upto…….. unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. ……..(Rupees)……only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expire of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date

Witness

1. Signature ……

Name and Address

Authorized signatory

Name

Designation

Staff code No.

Bank seal

2. Signature ……

Name and Address

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

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

General Conditions

The work shall be governed by the General, Operational and Commercial conditions of the contract beside the Additional specification as attached with the NIT documents.

1.0 General Condition

1.1 The intending electrical contractor shall be registered contractor of CPWD in appropriate class / approved by the competent authority through call of pre-qualification bids.

1.2 The prospective tenderer is advised to visit the site before quoting for the job and no claim whatsoever on account of any deficiency at site concerning security, restriction in working hours, non conformity of local bye laws / rules etc. No claim shall be entertained on account of same at later stage.

1.3 All the works covered by this contract shall be carried out strictly in accordance with the ***CPWD General specification for internal electrical works (Part-I 2023), External electrical works (Part-II 2023), Lifts (Part-III 2003), Sub-station (Part-IV 2013), Wet Riser & Sprinkler System (Part-V 2020), Fire Detection & Alarm system (Part-VI 2018) and General specification Heating, Ventilation and Air conditioning (HVAC) works 2017 as applicable in the above job.***

1.4 The work shall be strictly carried out as per the nomenclature of the item given in the schedule and condition or as per CPWD General Specifications of respective works or I.S code or as per prevailing practice in that order. The decision taken by the Engineer-in-charge shall be final and binding on the contractor.

1.5 The contractor shall use only the makes and brand of the materials/equipment's as given in the NIT documents. The department reserves the right to accept or reject any other makes and brands of materials as offered by the contractor.

1.6 All tools and tackles required for handling of equipment's at site of work and for their assembly and erection and also necessary testing instrument shall be the responsibility of the contractor to arrange the same, no extra amount shall be paid by the department on this account.

1.7 The contractor shall make his own arrangement for the accommodation for his staff / workers at his own cost, no extra amount shall be paid by the department on this account.

1.8 The contractor has to follow the local security/safety rules and regulations and such instructions on restricted hours of work as may be imposed on him by the department/ occupant department, while working loss of labour / idle labour etc shall not be entertained by the department. His attention is therefore again drawn to para (1.2) above.

1.9 The contractor shall follow the local bye-laws and regulations and rules about the erection testing and commissioning of the equipment's and shall obtain clearance from the respective authorities before commencement / after installation as applicable. The contractor shall secure necessary certificate of

1.10 clearance / inspection for satisfactory operation from the local bodies. No complain/claim whatsoever will be entertained from the contractor on account of failure to comply with thisprovisions andnecessity to make subsequent addition/alteration to the installation already provided by him to make them confirm to local regulations. All fee/ charges on account of this shall be borne by the contractor.

1.11 The entire installation shall be guaranteed for proper operation for a period of 6 months from the date of taking over of the same by department. All defects during the above period should be attended by the firm immediately but not later than 72 hours as per urgency at site at their own cost. No extra payment shall be paid by the department on this account.

1.12 Whenever the equipment's are ready for inspection the firm shall give due notice period of at least 15 days for enabling department to depute its representative for inspection the item before dispatch. Department however reserves the right to authorize the firm to dispatch the materials by accepting the test certificates, furnished by them. However, the firm shall continue to be responsible for proper operation of the equipment and conformity to specifications etc and the decision of the Engineer-in-Charge in accepting/ rejecting the item of receipt at site shall be final and binding on the contractor.

2.0 OPERATIONAL CONDITIONS

2.1 The firm shall submit a bar chart showing all the activities involved in towards the execution of job as per scheduled completion date within two weeks of award of work.

2.2 The firm shall supply test certificates wherever required, as per CPWD/BIS/Manufacturer's practice. The department reserves the right to get them independently checked, the acceptance and rejection of the material shall be as per the test results submitted by the authorized testing laboratories and institutes.

2.3 The firm shall supply six copies of the maintenance and operation manual of the mater equipment/ plant and also arrange to train the maintenance and departmental staff in the operation of the plant within the guarantee period.

3.0 COMMERCIAL CONDITIONS

3.1 The rates quoted shall be for complete items of work (except the materials, if any, stipulated for supply by the department) shall be inclusive of all taxes (including Goods service tax).

3.1 Some of the State Government levies work contract tax. The contractor is advised to get himself fully apprised of the financial implication while offering his rates. No claim whatsoever will be entertained at later stage on this account.

4.0 Payment Conditions: Payment shall be made as per the relevant clauses of form PWD 7 forming part of the tender documents.

Contractor **Executive Engineer (E)**
CPWD, Raipur

Additional 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. (Except Service Tax).

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 misbehaviour & /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) No workman shall be deployed continuously for more than 60 days at one site, and 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 Raipur 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) The contractor shall provide uniform (Blue pant & Light Grey shirt) to all staff engaged by him.

a) 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 shall be bear by the contractor.

22) The contract employees should be covered under all statutory requirements like ESI, PF, etc. by the contractor and the contractor shall comply with all the formalities in this regard. Copy of challan and Schedule of Contractor Employees for payment of ESI/PF etc. (Whether running/monthly or final) bills.

23) The contractor should provide PF A/C Number, ESI Card and Photo Identity Card to the contractor employees posted at site. This should be done immediately but not later than one month from the date of signing joint agreement.

24) All the works covered by this contract shall be carried out strictly in accordance with the *CPWD General specification for internal electrical works (Part-I 2023), External electrical works (Part-II 2023), Lifts (Part-III 2003), Sub-station (Part-IV 2013), Wet Riser & Sprinkler Systems (Part-V 2020), Fire Detection and Alarm System (Part-VI 2018) and General specification for Air conditioning works 2017 as applicable in the above job.*

Executive Engineer (E)
CPWD, Raipur

ELIGIBILITY CRITERIA

1. The successful bidder should either himself meet the eligibility conditions for the respective E&M components or otherwise he will have to associate with agencies, fulfilling the eligibility requirements and hence consent letter from at least One eligible Associate Agency of the respective components of E&M work shall also be submitted as per attached Proforma. The successful bidder shall thoroughly check whether the agency with whom association is proposed meet the eligibility or not before submitting the consent letter.

2. In case the main contractor is himself eligible (as per eligibility criteria) for executing any specific minor component and intends doing the job himself, he may not be required to associate with another agency for that minor component of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component.

3. Main agency shall have to submit credentials of the proposed associated agencies for verification and approval of the department in pro-forma at 'Form-H' and Consent letter as per 'Form-G'. After approval of agency by the Engineer-in-charge of minor component, the main contractor has submit MOU with each of the associated agency in pro-forma at 'Form-I' within 30 days from the date of issue of award letter.

4. The main contractor have to submit the following documents for association of electrical contractor within one month of award of work or 15 days before start of electrical related work whichever is earlier.

(i) In support of the eligibility conditions of the proposed associated electrical contractor, copy of their registration documents, Electrical Contractor's License, PAN Card, GST Registration duly attested by the applicants (Main Contractor) shall be submitted to the EE(C) who will submit these documents to the Executive Engineer (Electrical),CPWD, Raipur, for deciding the eligibility within seven days of receipt of the same. Each such electrical contractor will certify that they are not debarred as on the day of association with the main contractor. Proposal for associating agency for minor components of work shall be submitted in Form- "H" of this tender document from each associate independently for all electrical and mechanical components.

(ii) After approval of the associate contractor, the main contractor will submit separate MOU signed with each of associate contractor associated with the main contractor. The MOU in the enclosed form shall be signed by both the parties' i.e. main contractor as 1st party and associated electrical contractor as 2nd party, independently for all electrical and mechanical components.

5. In the event of the concerned associated contractor not performing satisfactorily or failure of associate contractor to complete the E&M work, the main contractor, on written directions of the department, shall remove the Associate contractor deployed on the work and shall submit name of new associate who fulfil the conditions mentioned in NIT to execute the left over work without any loss of time or variation in cost to the department. Such associates shall also give an undertaking along with the main tenderer that both of them shall stand guarantee for which payment has been released by the Department in part for any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Department. Also if any such material becomes redundant/ not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(s) at no cost to Department. No change of Electrical Contractor will be allowed without prior approval of the Engineer-in-charge of the work.

6. All technical discussions shall be attended by the associate agencies and the main agency. Commercial/Technical submissions for the electrical works shall be signed and submitted by the associate agencies along with the main agency.

7. The main contractor shall be entirely responsible and answerable for all the works done by his associated electrical agencies regarding their quality, adherence to the laid down specification, terms and conditions, warranty/guarantee etc and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.

In respect of all Sub-Works of E&M works i.e. C/o Providing 25 KVA DG set at RSRW, Raipur..

the materials and equipments shall be procured only from the original equipment manufacturers/ authorized dealers of OEM. The contractor shall submit all documentary details in fulfilment of this conditions regarding procurement of materials including relevant test certificates.

8. Executive Engineer (E) shall be the Engineer-in-charge as far as electrical and mechanical works are concerned. Separate tender schedule abbreviated CPWD-7 and Special Conditions for Electrical Work are appended with this tender. It will be obligatory on the part of the contractor/ tenderer to sign the tender documents for all the component parts.
9. The main contractor shall be responsible and liable for proper and complete execution of the Electrical and mechanical work and ensure coordination and completion of both civil and electrical work.
10. The main contractor, who is not having desired experience as per eligibility criteria has to enter into agreement with eligible contractors associated by him for executing of minor components. Copy of such agreement shall be submitted to Executive Engineer (E) in charge of minor component as well as Engineer-in-charge of major component.
11. The associate contractor shall attend the inspection of the work by the Engineer –in-charge of E&M works as and when required.

    No change of Electrical Contractor will be allowed without prior approval.

12. For components of E & M works, the eligibility criteria will be as detailed below.

Sr. No.	Component E&M works	Estimated Cost in Rs.	Eligibility for of the Engineer-in-charge of the work contractor association
1	**DG Set.**	**5,39,863/-**	i) Three Similar completed works each costing not less than of 40% (**Rs.2.15 Lakhs**) of the estimate cost put to tender. OR ii) Two Similar completed works each costing not less than of 60% (**Rs.3.23 Lakhs**) of the estimate cost put to tender. OR iii) One Similar completed works each costing not less than of 80% (**Rs.4.31 Lakhs**.) of the estimate cost put to tender. **Similar work shall mean "SITC of DG Set.**

1. Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work. Bidder shall submit abstract of cost of work in support of this.

2. For the purpose, "Cost of work" shall mean gross value of the completed work including the cost of material supplied by the Government/ client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer/ project manager or equivalent.

3. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, except sub head-I calculated from the date of completion to previous day of last date of submission of tenders.

4. For Sub head at Sr. No. Sub Work above the composite contractor shall have to associate other agencies for execution of each of the work, which fulfills the eligibility criteria as cited above for these works duly taking prior approval from the department. However, the Composite category contractor/successful bidder shall also be eligible to carry out himself/herself any or all of these works without associating any specialized agency provided:

   a) He fulfills the prescribed eligibility criteria respectively for these works.

   or

   b) He directly procures the equipment of approved make from manufacturers and get them installed from authorized agency/service provider of the manufacturers or specialized agencies as per criteria mentioned in NIT.

   Eligibility criteria of each such agency to be associated is stipulated above.

The composite/ contractor and the associated specialized agencies shall give required affidavit to confirm their association as Proforma "H" given in part "C" in the tender documents.

Tender accepting authority may approve change of Sub-Agency in case it is required during the currency of the contract.

The main contractor has to submit consent letters as per Form-G, given in Part C of the tender document at least one eligible associate agency of the respective component of E&M work for each of the component of E&M works by clearly indicating the component of work within 30 days of award of work OR 15 days before start of minor component of work whichever is earlier.

The main contractor will submit MOU signed with eligible registered composite contractor of CPWD or Specialized agency. The MOU in the enclosed Form-"I" shall be signed by both the parties' i.e. main contractor as 1st party and associated electrical contractor as 2nd party, independently for each of the sub-works **Providing 25 KVA DG set at RSRW, Raipur.** If the main contractor fails to associate agency for execution of minor components of work within 30 days of award of work OR 15 days before start of minor components of work whichever is earlier or furnishes incomplete details or furnishes details of ineligible agencies even after the tenderer is given due opportunity, the entire scope of such component of work shall be withdrawn from the tender and the same shall be got executed by the Engineer-in- charge at the risk and cost of the main contractor/

(i) Verifiable completion certificates of the work, registration/ approval documents as the case may be, duly attested by the applicant shall be submitted within 30 days of award of work OR before start of minor component of work whichever is earlier. Valid Electrical Contractor's license, as the case may be, duly attested by the applicant shall also be submitted within 30 days of award of work OR before start of minor component of work whichever is earlier.

(ii) Self attested GST registration documents in respect of the associated agencies shall be submitted within 30 days of award of work or 15 days before start of minor component of work whichever is earlier.

Executive Engineer (E)

FORM -G

CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY

Name of Work : **Providing 25 KVA DG set at RSRW, Raipur.**

I/ We hereby give my consent to associate with M/s …… for executing the minor component of work of …… (Mention sub-works)

1. I/We will execute the work as per specifications and conditions of the agreement and as per direction of the Engineer –in-charge for the corresponding minor work till the completion of the work.
2. I/We will be responsible for necessary action to handover the installation and for rectification of defects and repair during the defeat liability / warranty period.
3. Also I/We will employ full time technically qualified Engineer/ Supervisor for the minor component of the work as specified in clause 36 for the work. I/We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Major Contractor

Contractor

Address

Signature with date of Associate/ Minor Contractor

Contractor

Address

1. Witness with address
   (From major component contractor side)
2. Witness with address
   (From minor component contractor side)

FORM-H

PROPOSAL FOR ASSOCIATING WITH ELIGIBLE AGENCIES

I/We hereby propose the following agencies as per mentioned against each for executing corresponding minor components of work. Their consent letter are also attached.

Providing of DG Set.						
1.						
2.						
3.						
4.						

Note: Self Attested photocopies of enlistment order, valid electrical contractors license, annual pre-qualification order, work experience certificates of each agency for each component of E&M work shall be submitted.

Signature of contractor

FORM-I

MEMORANDUM OF UNDERSTANDING (M.O.U.)
(to be submitted for each and every E&M component)

1. M/s. (Name of the firm with full address)
   Enlistment Status
   Valid Upto:
   (Henceforth called the main Contractor)

2. M/s. (Name of the firm with full address)
   Enlistment Status
   Valid Upto:
   (Henceforth called Associated Electrical Contractor or Electrical Contractor)
   For the execution of Electrical work, **Providing 25 KVA DG set at RSRW, Raipur.** We state that M.O.U. between us will be treated as an agreement and has legality as per Indian Contract Act (amendeduptodate) and the department (CPWD) can enforce all the terms and conditions of the agreement for execution of above work as per the schedule of work, specifications, term & conditions of the tender. 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 Engineer –in-charge. Any of us may appeal against the mediation to the Chief Engineer, CPWD, Nagpur. His decision shall be final and binding on both of us.

   We have agreed as under:

1. The electrical contractor will execute all electrical works in the wholesome manner as per terms and conditions of the agreement.
2. The electrical contractor shall be liable for disciplinary action if he fails to discharge the action(s) and other legal action as per agreement.
3. All the machinery and equipments, tools and tackles required for execution of the electrical works, as per agreement, shall be the responsibility of the electrical contractor.
4. The site staff required for the electrical work shall be arranged by the electrical contractor or by the main contractor as per terms and conditions of the agreement.
5. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Association Contractor and by Associated Contractor himself.
6. All the correspondence regarding execution of the electrical work shall be done by the department with the Associated Contractor 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 contractor shall be responsible. The action clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR

Date:
Place:
1. Witness with address

(From major component contractor side)

SIGNATURE OF ASSOCIATED ELECTRICAL CONTRACTOR

Date:
Place:
2. Witness with address

(From minor component contractor side)

COMMON CONDITIONS

The specifications given below pertain to the entire electrical and mechanical works to be carried out

Name of Work : **Providing 25 KVA DG set at RSRW, Raipur.**

The main agency either shall have valid electrical license or obtain the same at time of execution of electrical work otherwise he has to associate with agency having valid electrical license. The associated agency shall be of the appropriate class eligible to bid for each minor component individually as per the eligible criteria given.

1.1 The manufacturer's guarantee/warrantee for all the electrical installations shall be for minimum period of 12 months except for LED fittings for which the warranty is for Five years, from the date of taking over of the completed work by the department. Necessary documents of handing / taking over of the work will be duly signed by the three parties namely EE (E) or his representative AE/JE, the main contractor and the associate contractor(s).

1.2 The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case, it is felt by the department that undue delay is being made by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-Charge in this regard shall be final. The firm shall be required to attend the breakdown calls as and when required and also ensure timely periodical checks for Electrical and Mechanical works executed as per CPWD Specifications and standard trade practices

1.3 The defect liability period for the entire work is one year, except for LED fittings. The warranty for LED fittings including driver is 5(Five) years. Before completion of defect liability period of one year for the entire work, the main contractor has to submit Security Deposit of 5% of the price quoted by him for SITC of LED fittings for the remaining 4 years warranty period in acceptable form i.e. FDR/Bank guarantee/DD to the concerned Executive Engineer (E). The Security Deposit deducted from the bills of contractor shall be refunded to the main contractor only after submission of Security Deposit for LED fittings to Executive Engineer (E), failing which this Security Deposit towards LED fittings at 5% of the price quoted by them for LED fittings shall be deducted from Security Deposit for total work and balance amount will be refunded only after completion of defect liability period of one year. The LED Security Deposit will be released after completion of warranty period of 5 years.

2. Panel drawings with details shall be got approved from the Engineer-in-charge before fabrication.

3. All sundry equipments, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not. Nothing extra on account of same shall be paid.

4. **DATA MANUAL AND DRAWINGS TO BE FURNISHED BY THE TENDERER:**

The successful tenderer would be required to submit the following as per 'Milestone' for approval and before commencement of installation:

i. Technical literature / catalogue / brochures of all equipments to Engineer –In-Charge. Only after approval, tenderer should place order for equipments and bring it to site.
ii. All general arrangement drawings.
iii. Complete layout dimensions for every unit/group of units with dimensions required for erection purposes.
iv. Any other drawing/information not specifically/mentioned above but deemed to be necessary for the job by the contractor.
v. Layout plan.

INSPECTION AND TESTING:

a) Copies of all documents of routine and type test certificates of the equipment, carried out at the manufacturers premises shall be furnished to the Engineer-in-Charge.

b) After completion of the work in all respect the contractor shall offer the installation for testing and commissioning.

5. **STATUTORY APPROVALS:**

All mandatory statutory approvals/certificates/license/permissions from commencement to commissioning of E & M components shall be obtained by the Contractor from the local body authorities, Chief Fire Officer, Central Electricity Authority etc. as required. However the Department shall pay necessary fees in connection with these approvals, if any.

7. The contractor shall submit the completion plan separately in triplicate coloured print with two sets of soft copies in compact disc/pen drive in Autocad/ revit software.

8. The successful contractor shall prepare a list of equipment and materials selected from the approved list, proposed to be used by him for execution of the contract. Before placing orders on suppliers or delivering the equipment and materials at site, the Contractor shall obtain approval from Engineer–in–Charge, whose choice will be final and binding on the Contractor.

9. Any Equipment or materials not specified under here but required for execution of the work shall be as per Technical specification, of the best quality, with ISI wherever applicable and from a reputed manufacturer and shall be got approved by the Engineer-in-Charge before placing order for delivery of item at site.

10. Data and Programme to be furnished by the tenderers:

The Contractor shall prepare the programme chart for the execution of the work showing clearly all activities from the start of work to the completion required for the completion of the work within the stipulated period and submit the same to the Engineer-in-Charge within fifteen days after the issue of letter for commencement of the work. The Contractor shall also submit monthly programme and progress reports and update / re-schedule the same every month. These shall be submitted by the contractor in soft copy also besides forwarding hard copy of the same.

11. Order of Preference:

Should there be any difference or discrepancy between the description of items as given in the Schedule of Quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:

a) Schedule of quantities
b) Commercial and Additional conditions for this work
c) Drawings.
d) General Conditions of Contract for CPWD Works.
e) CPWD General Specifications of corresponding component.
f) Relevant IS or any other International code in case IS code is not available.

12. The main agency shall be responsible for all acts of omissions and submissions of the electrical contractor or sub-contractor engaged by him, even with approval of department.

13. Approval of the Engineer-in-charge shall be taken well in advance for all the materials to be supplied and used in all the works by the contractor.

14. The contractor has to make his own arrangements for stores and watch and ward and no extra claim for this will be entertained.

15. Running payment for Electrical/Mechanical components shall be made by the EE (E) directly to the main Contractor. The main contractor shall make the payment to associated Contractor within 15 days

of receipt of each running account payment. In case of failure of above, action will be taken as per GCC.

16. For Specialized E&M Original Works and other original E&M Works:

The successful tenderer is to submit, along with the proposal for approval of make for specialized work after the acceptance of tender, an undertaking from the OEM regarding:

(a) Authorization certificate.

(b) The OEM is unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/ Comprehensive Maintenance Contract for the useful life of the system, and

I OEM is provide all the spares required for healthy functioning of the equipment for at least seven years from the date of supply of equipment.

17. All statutory deductions like GST, Labour welfare cess etc. shall be made from the bills.

18. INSURANCE AND STORAGE:

All consignments are to be duly insured upto the destination from warehouse at the cost of the contractor. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

EXECUTIVE ENGINEER (E)
CPWD, RAIPUR

COMMERCIAL & TECHNICAL CONDITIONS

1. SCOPE OF WORK:

The specifications given below pertain to the entire electrical and mechanical works to be carried out **Providing 25 KVA DG set at RSRW, Raipur.** The work shall be carried out as per CPWD General Specifications for Electrical Works, Part-I: Internal, 2023 and Part-II, External-2023. The soft copy of this specification is available at the link: ***http://cpwd.gov.in/Documents/CPWD_Publication.aspx***

1. SPECIFICATION FORELECTRICAL FEEDER PILLARS/PANELS:

1.1 APPLICABLE CODES & STANDARDS

The design, manufacturing process and performance of the MV Feeder Pillar boards and all the equipment & instruments incorporated in the same shall comply with the CPWD specification and latest Indian Standards issued by B.I.S. as follows:

BRIEF DESCRIPTION	REFERENCE STANDARD
Switch gear General Requirements	IS : 13947-1993
Miniature Circuit Breaker	IS : 8828
Current Transformers	IS : 2705
Indicating Instruments	IS : 1248
Busbar Connections and Accessories	IS : 5578, 11353
PVC insulated wires	IS : 694

Note: The above are minimum standards expected. The Technical specifications to be followed and those given in schedule of quantities, if found to be more stringent as compared to those listed above, then the more stringent specifications shall prevail.

2 General:

2.1 The Department shall not issue any T & P and nothing extra shall be paid on account of this.

2.2. Guarantee & Defect Liability Period:

All the equipments shall be guaranteed for a period of 12 months from the date of taking over the installation by the department against unsatisfactory performance and / or break down due to defective design, workmanship of material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-Charge in this regard shall be final.

The tenderer shall guarantee among other things, the following vis-à-vis specifications.

a) Quality, strength and performance of the materials used.

b) Satisfactory operation during the maintenance period.

(i) Ceiling fans, Exhaust fans shall be guaranteed for 1(one) Year including lamps.

(ii) LED fittings, as a whole including driver shall guaranteed for 5 years.

(iii) In case of discontinuation of model and non-availability of spares, the Agency will replace the fittings with equivalent/ high end model in case of manufacturing defect during the warranty period of 5 years.

3. Payments terms:

On account payments for part work (after stipulated and statutory deductions) shall be payable as assessed by the Engineer – in-charge for the items in the Contract. The percentage for wiring items are cumulative of quoted rates

i) 40% after laying of conduit.
ii) 80% after drawing of wires and fixing of modular accessories.
iii) 95% after testing, commissioning.
iv) 100% after handing over.
v) **For fittings:** 70% after supply of fittings with duly supported with the proper challan from the authorized dealer.
vi) 95% after installation, testing, commissioning.
vii) 100% after handing over.

4.0 General Conditions

4.1 The main contractor shall be responsible for coordinating the activities of all works and will ensure progress of works as per laid down programme.

4.2 The main contractor and / or his Associated electrical Contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-charge and will comply with the remarks therein.

4.3. The contractor shall make his own arrangement at his own cost for electrical / General Tools and plants required for the work.

4.4 The connections, inter-connections, earthing and loop earthing shall be done by the contractor her ever required to be done for energization of the installation and nothing extra shall be paid on this account.

4.5 The contractor must be able to work on concrete slabs / walls as and when required and in complete coordination with the civil works. Cutting of chases in the plastered wall shall in no case be allowed. The contractor shall fix conduits and boxes in the walls soon after the brick work is completed and finish the chase to rough surface with proper cement sand mixture. Only in exceptional cases e.g.where cutting of plastered surface cannot be avoided it will be contractor's responsibility to ensure that plastering is done to match the original finish at no extra cost.

4.6 The contractor shall remove all the debris due to the electrical works from the site as soon as the work is completed.

4.7 The wiring and conduit route shall be marked by the contractor in the drawing first, and shall be got approved from the Engineer-in-charge.

4.8 Some light points in lobby / corridors/ stair case/ lift shaft etc are group controlled which will be measured as per Items mentioned under C-I.

4.9 The rupturing capacity of the MCB's shall be 10 KA. The MCB's shall have ISI mark. Quantities of MCBs of different rating of 6 amps to 32 amps shall be brought in consultation with the Engineer-in-Charge, as per loading of circuits.

4.10 All the MCCBs shall be rated for Ics=100% Icu

4.11 The copper wire to be used on this work shall be FRLS type and ISI marked.

4.12 The make of switch boxes shall be the same as that of switches. Only the required knockouts of the switch boxes are to be removed for terminating the conduit pipes with PVC glands / check nuts.

4.13 Make of MCB/MCCB shall be the same as the make of MCB DB.

4.14 All the switch boxes, MCBDBs are to be covered with plastic sheet / petroleum gelly when installed in brick work till the plastering / painting is done to avoid sticking of cement plaster/ splashes of the paint. Cement plaster / paint are to be cleaned immediately after plaster to avoid rusting of switch boxes and MCB DBs. The plastic sheet is to be removed at the time of handing over.

4.15 The Electrical works shall be carried out by the contractor, side by side with the progress of the civil works.

4.16 The Contractor shall furnish documentary proof like delivery challans of purchasing Wires, Modular switches & accessories, MCBs, MCBDB, Fittings, accessories and other items from the manufacturers or their authorized dealers to the satisfaction of the Engineer-in-charge.

4.17 All GI conduits accessories shall be of the same make as conduits. The Conduits shall be terminated at switch boxes/metallic junction boxes with suitable glands/check nuts.

4.18 Cutting of brick walls shall be with chase cutting machine only. All repairs and patch works shall be neatly carried out to match the original finish and to the entire satisfaction of the Engineer in Charge.

4.19 All the sub main and circuit wiring includes loose wire for connections inside switch boxes and MCB DB s. No payment for these loose wires shall be made. However wires within the cubicle panel will be measured and paid under relevant item of work.

4.20 All the circuits / sub-main wiring are to b e suitably numbered with stickers / marker pen at LT panel, MCBDBs, switch boards (on backside of cover plate) for ease of maintenance. Nothing shall be paid extra on this account.

4.21 The contractor shall submit the completion plan separately in triplicate on blue print/ computer plotted with one set on tracing "Cloth" as per Clause-8 of the contract within 30 days of the completion of work. In case, the contractor fails to submit the plan, he shall be liable to pay a sum equivalent to 0.1% of tendered value of the work subject to a ceiling of Rs. 20,000.00.

4.22 To facilitate drawing of wires, 18 SWG GI fish wire shall be provided along with laying of recessed conduit for which no extra payment shall be made. Conduits laid for other services, like fire alarm, PA etc., where wiring is not done along with IEI works, fish wire shall be invariably drawn.

4.23 The connection between incoming switch / isolator and bus bar shall be made with suitable size of thimble and cable at no extra cost.

4.24 Copper conductor of insulated cables of size 1.5 Sq.mm and above shall be stranded and terminals provided with crimped lugs.

4.25 All MS junction box cover should be of phenolic laminated / good quality plastic sheet of thickness not less than 3mm and for which nothing extra shall be paid on the account.

4.26 All sub-main wiring shall be terminated in the main board with suitable copper lugs and thimbles for which nothing extra will be paid on this account.

4.27 All hardware items such as screws, thimbles, GI wire etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.

4.28 All hardware items such as nuts/ bolts/ screws/ washers etc. to be used in work shall be zinc/ cadmium plated iron.

4.29 Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.

4.30 While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the E-in-C.

4.31 Materials to be used in work are to be ISI marked. The make of the materials have been indicated in the list of acceptable makes. No other makes will be acceptable. The materials to be used in the work shall be got approved by the Engineer in Charge / his representative before its use at site. The E-in-C shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not acceptable.

4.32 Where switches/ sockets/ regulator/ telephone/ TV / internet outlets are to be provided, the same shall be of only one make.

4.33 While laying conduits for fire alarm system, sufficient junction outlets are to be provided as per the direction of the Engineer-in-Charge for detectors as required, for which no extra payment shall be made.

4.34 Wherever light fittings are proposed to be provided on the false ceiling, the respective light / fan point wiring will have to be brought upto the terminal of the light fittings / fans by the contractor. Flexible metal conduits shall be used for drawing wires from PVC conduits on ceiling to fittings on false ceiling and nothing extra shall be paid to the contractor for the same. The height from false ceiling to ceiling is about 1.2 metres.

4.35 In case the same item appears more than once in the schedule of work under the same sub head or among the different subhead of works, the lowest rate quoted for that item shall be taken for other items also.

Annexure-'A'

Specification Terms & Conditions

The work shall be carried out as per CPWD General Specifications for Electrical Works Part VII D.G. Sets - 2013. The soft copy of this specification is available at the link:
http://cpwd.gov.in/Documents/CPWD_Publication.aspx

6.1 General

The successful bidder/ associated agency shall submit the following undertaking from OEM/OEA before placing the order.

i) Written commitment from OEM/OEA to supply the DG Sets and delivery schedule as per the requirement of department.

ii) Certificate from OEM/OEA or authorized service provider of engine manufacturer for satisfactory installation and commissioning of DG Set after completion of the work.

iii) Required Guarantee of DG Set from OEM/OEA in favour of Engineer in charge to cover defect liabilities.

iv) An undertaking that mandatory free service shall be carried out during the guarantee period by the authorized service provider of engine manufacturer.

6.2 Works to Be Done By The Contractor

(I) POL i.e. HSD oil and lub. oil for diesel engine for testing & commissioning for 12 hours i/c 1hr of 10% overloading at OEA/ OEM works shall be arranged by the contractor. POL i.e. HSD oil and lub. oil for trial run of 4 Hrs. at site at available load shall be also arranged by the tenderer. The Tenderer has to fill up the DG sets fuel tank to it's full capacity with HSD oil post site testing of 4hours.

(II) Painting of all exposed metal surfaces of equipments and components with appropriate colour.

(III) Clearance/ Approval of the complete installation from CPCB-IV / State Pollution Control Board, Central Electricity Authority (CEA)/ Local Bodies and other licensing authorities, wherever required. However, application shall be made by Department and any statutory fee, as applicable, shall be paid by Department directly to the Govt. authorities concerned.

(IV) The tenderer have to arrange electrical load for testing of DG Set for 12 Hours i/c 10% over load for 1 hour as required at the factory .

(V) The successful tenderer have to test & commission the DG Set in presence of company service engineer.

6.3 DG set will be tested on load of unity power factor for the rated KW rating. During testing each of the D.G. sets covered under scope of work, shall be operated for a period of 12 hours on the rated KW at DG set's KW rating including one hour on 10% overload after continuous run of the 12 Hours. During testing all controls/ operations safeties will be checked and proper record will be maintained. Any defect/ abnormality noticed during testing shall be rectified. The testing will be declared successful only when no abnormality/ failure is noticed during the testing. The DG set will be cleared for dispatch to site only when the testing is declared successful by authorised representative/ Engineer-in-Charge.

6.3.1 Actual fuel consumption visa-vis Committed value of fuel consumption of the engine will also be monitored and same should be in-line with data submitted.

6.4 **Running in Period & Date of Acceptance**

After successful testing of the DG set, a trial run at available load will be carried out for 120 Hours or 15 days whichever is earlier. The DG set will be operated and a log of all relevant parameters during this period. The arrangement of staff for trial run / running in period will be made by the successful tenderer. However diesel shall be provided by Department. The contractor will be free to carry out necessary adjustments. The DG set will be said to have successfully completed the trial run, if no break down or

abnormal / unsatisfactory operation of any component of the entire installation included in the scope of work of the contract, occurs during this period. After this the DG set will be made available for beneficial use. After the DG set has operated without any major break down / trouble, it shall be taken over by the department subject to guarantee clause of this contract. This date of taking over of the DG set, after trouble free operation during the trial run / running – in period, shall be the date of acceptance / taking over.

6.5 **After Sales – Service:**

The contractor shall ensure adequate and prompt after sales service free of cost during guarantee period, and against payment after the guarantee period is over, in the form of maintenance, spares and personnel as and when required during normal life span of the equipments and shall minimize the breakdown period. In case of equipment supplied by other manufactures the firm shall furnish a guarantee from the manufacture for the same before the DG Set installation is taken over.

6.6 Payment Terms

6.6.1 No advance payment shall be made.

6.6.2 On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer – in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work.

6.6.3 Stage of Work % of rates payable

a) Delivery at site in good condition after initial inspection (Wherever specified) on pro-rata basis for DG Set, AMF Panel & Essential Panel …….75 %
b) Delivery at site in good condition after initial inspection (Wherever specified) on pro-rata basis for all other items ……70%
c) On completion of Pro-rata installation (For ‘a’)……. 15%
d) On completion of Pro-rata installation (For ‘b’) …….20%
e) The final payment shall be made after Completion, testing & commissioning of the installations to the entire satisfaction of the Engineer-in-Charge, approval from local bodies and handing over the site/ installation to the Department in good working condition ……10%.
f) For other items, the part rates will be decided by the Engineer-In-Charge of the work and shall be binding on the Contractor. The Sub Standard work if any, shall not be accepted & measured unless approved by the competent authority.

LIST OF APPROVED MAKES

The following Makes of materials are preferable for use in above work. The material shall be confirming to relevant IS specification and same shall bear ISI marking, wherever available. If any Make stated below does not comply with the technical specification given in the tender then such a Make will not be acceptable.

S.No.	Description	Makes
1	Diesel Engine	Kirloskar/ Ashok Leyland/ Cummins / Perkins / Caterpillar /Mitsubishi
2	Alternator	Crompton/ Stamford/ Leroy Somer/ Jyoti/ ABB
3	AMF / Synchronization panel	OEA of DG SETs
4	Structural steel As per IS: 1239: Part-I, IS: 1161, IS:4923	TATA/ SAIL/ RINL/TISCO/JSW Steel ltd./Jindal steel & Power ltd./APL APOLLO /HIRA Fabrication/ Shivam Overseas (ISKCO)/ Sambhv Steel
5	PLC	Seimen/ Cummins/ Mitsubishi/ Allen Bradly
6	Battery	Exide/ Amara Raja/ Lumminus/ National Panasonic/ /Amaron
8	LT Power cable	Finolex / RR Kabel / Havell /Polycab/ KEI/ AKG/ ESC
9	FRLS Copper Conductor PVC Insulated Wires	Finolex / RR Kabel / Havell /Polycab/ Glostar/ KEI
10	DWC/ HDPE Pipe	Rex / Duraline/ Dutron/Jain/Ketron/ Sintex
11	XLPE /PVC Insulated PVC Sheated Armoured /Unarmoured / Aluminum / Copper Conductor/ UG Cable of 1.1 KV Grade.	Finolex / RR Kabel / Havell /Polycab/ KEI/ AKG/ ESC
12	GI Pipe/ MS Pipe (ISI marked)	TATA / Jindal (Hissar/Star) / Sail
13	ELCB / RCCB / MCCB (Ics=100%Icu) / MCB DB / MCB'S/Contactors	Legrand / Siemens / LK (Lauritz Knudsen) / Schneider/ ABB
14	Lugs and Gland	Commet/Dowells/Jainson/ HAX
20	Air Circuit Breaker	ABB (PR 122) / Schneider Electric (Masterpact NW) / L&T (Lauritz Knudsen) (U Power) /Legrand
22	Any other item not mentioned above.	As per samples approved by Engineer-in-charge.

In case any of makes for any of the material is not covered in the above list for using at site then the contractor will inform the Engineer-in-charge about the same and obtain the approval. Thereafter, he can proceed with the supply of the material.

Contractor **Executive Engineer (E)**