

	<p>GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT Office of the Executive Engineer (E) Hubballi Central Electrical Division Engineering Block, IIT Campus Dharwad, Chikkamallgewad, DHARWAD – 580011, (Karnataka State) Tel. office: 0836-4519857 E-mail ID: eeecpwdhubli@gov.in/hublicedcpwd@gmail.com</p>	
---	---	---

Notice Inviting e-Tender

NIT No. : 09/EE (E)/Hubballi/CPWD/2026-27(1st Recall)

Name of Work : Supply , Installation, testing & commissioning of 82.5 KVA DG Set and ancillary works at Income Tax Building, Kalaburagi.

Estimate Cost : ₹ 25,30,862/-

Sl.No	Contents	Page No
1	Index	1
2	Information and instructions for Contractors for e tendering	2 - 6
3	Notice Inviting e-Tender (CPWD-6)	7 - 12
4	Reference of deposition of EMD	13
5	Brief Particulars of the Work	14 - 16
6	Percentage rate contract for works (CPWD-7)	17 - 18
7	Acceptance	19
8	Proforma of Schedules	20 - 26
9	Form of Bank Guarantee for Performance Guarantee/Security Deposit	27 - 29
10	Special Conditions for All Specialized E & M Components	30 - 35
11	FORM – N, P & Q	36 - 38
12	General & Commercial Conditions for All E&M Components	39 - 52
13	Additional conditions and specification for the work of DG set.	53 - 58
14	List of preferred makes of materials	59 - 61
15	Schedule of work	62-79

Certified that this NIT contains 79 (Seventy-Nine) pages.

NIT approved ₹ 25,30,862/-

Assistant Engineer(E)(P) CPWD, Hubballi	Executive Engineer (E) CPWD, Hubballi
--	--

I	Nil	
O	Nil	
C	Nil	

AE(E)(P)
EE(E)

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

The Executive Engineer (E), CPWD, Hubballi Phone No. 0836-4519857, Email id: eeecpwdhubli@gov.in/hublicedcpwd@gmail.com on behalf of the President of India invites online **Composite percentage rate** bids from approved and eligible contractors of appropriate class enlisted with CPWD Class-II & above and CPWD Enlisted Contractors of Class-III and below [only SR Region Enlisting in SDG(Chennai), ADG(Kochi), ADG(Bengaluru) and ADG(Hyderabad)] for the following work:

Sl.No	Particulars	Particulars
1	NIT No.	09/EE (E)/Hubballi/CPWD/2026-27 (1st Recall)
2	Name of work	Supply, Installation, testing & commissioning of 82.5 K V A DG Set and ancillary works at Income Tax Building, Kalaburagi.
3	Estimated cost put to bid	₹ 25,30,862/-
4	Earnest Money Deposit (EMD)	₹ 50,617/-
5	Period of Completion	4 (Four) Months
6	Last date & time of Submission of bid	Up to 15:00 Hrs on 31.10.2026
7	Time and Date of opening of bid	At 15:30 Hrs on 31.10.2026

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD- 6 and other terms and conditions given in the NIT and drawings. The bidder should also read the General Conditions of Contract for CPWD Works 2023 (Construction works) with up-to-date correction slips, which is available as Government of India Publications; however, provisions included in the tender document shall prevail over the provisions contained in the standard form. The set of drawings and NIT is also available with the office of Concerned Executive Engineer's. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. He should only submit his tender if he considers himself eligible and he is in possession of all the required documents. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while submitting the tender online. They are requested to comply following instructions.

(A) Tenders with any condition including that of conditional rebates shall be Rejected forthwith.

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

- (B) (a) The successful bidder shall be required to submit a **Performance Guarantee of 5% (Five percent)** of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher).
- (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount
- (C) GST, Work Contract Tax, Labour - Cess etc. as applicable shall be borne By the contractor himself. The contractor shall quote his rates considering All such taxes and hence their quoted rates should be inclusive of all the Tax components.
- (D) It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The department reserves right to accept tender in full or in part without assigning any reasons.

Criteria for Eligibility

The Contractors, who fulfill the following requirements, shall be eligible to apply.

- (i) The enlistment of the CPWD contractors in appropriate class should be valid on the last date of submission of bids.
 - (ii) In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.
3. Information and instructions for bidder posted on website shall form part of tender document.
4. The bid documents consisting of indicative architectural plans, specifications, the schedule of quantities of various 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 in the office of **Executive Engineer (E), CPWD, Hubballi** and can also be downloaded from website **<https://etender.cpwd.gov.in>** or **www.cpwd.gov.in** free of cost.
5. But the bid can only be submitted after deposition of original EMD including e- Bank Guarantee either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Banker's Cheque or Fixed Deposit Receipts or/ and Bank Guarantee including e- Bank Guarantee (**for balance amount as prescribed**) from any of the Commercial Bank towards EMD in favor of **Executive Engineer (C), CPWD, Hubballi**, receipt for deposition of original EMD to division office of

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.

A part of earnest money (EMD) is acceptable in the form of bank guarantee also. In such cases, 50% of earnest money or Rs.20 Lakh whichever is less, will have to be deposited in shape prescribed above and balance can be accepted in form of Bank Guarantee issued by any of commercial bank. The bank guarantee submitted as a part of Earnest Money shall be valid for a period of 90 days or more from the last date of submission of bid which is to be scanned and uploaded by the intending bidders.

6. Those contractors, who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of **<https://etender.cpwd.gov.in>**
7. **The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal /website and the bidder should download and install the eMsigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>**
8. On opening date, the contractor can login and see the bid opening process. After opening of tenders, he will receive the competitor's bid sheets.
9. Contractor can upload documents in the form of JPG format and/or PDF format.
10. Contractor must ensure to quote rate in the column(s) meant for quoting rate in figure appears in yellow color 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 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 bid submitted shall become invalid if:
 - a. The bidder is found ineligible.
 - b. The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
 - c. The bidder does not upload the scan copies of all the documents

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

stipulated in bid document.

- d. 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
 - e. If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section /subhead in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
12. The bid shall be opened on due date and time as mentioned in the tender document.
13. The department reserves the right to reject any prospective application Without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion
14. **List of Documents to be scanned and uploaded within the period of tender submission:**

1.	Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee including e-Bank guarantee of any commercial Bank against EMD. Drawn in favour of Executive Engineer(C), CPWD, Hubballi.
2.	Copy of receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD (Annexure A)
3.	GST registration Certificate, if already obtained by the bidder If the bidder has not obtained GST registration as applicable, then shall scan and upload following under taking along with other bid documents? "If work is awarded to me, I/We shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by the CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.
4.	Copy of valid enlistment establishing approved and eligible contractors of CPWD enlisted with CPWD Class-II & above and CPWD Enlisted Contractors of Class-III and below [only SR Region Enlisting in SDG(Chennai), ADG(Kochi), ADG(Bengaluru) and ADG(Hyderabad)].

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

5.	The agency must upload the ERP training certificate regarding successful completion of ERP training from ERP Portal.
6.	Copy of Registration for EPFO and ESI
7.	Valid electrical license if already obtained by the bidder. If the bidder has not obtained valid electrical license as applicable, then he shall scan and upload following under taking along with bid documents "If the work is awarded to me, I/We shall obtain valid electrical license as applicable from the competent authority or I/We will associate the CPWD agency of appropriate class who is having valid electrical license with in 7days of receipt of letter of commencement , failing which I/we shall be responsible for any action taken by CPWD in this regard".

15. All modifications/addendums/corrigendum issued regarding this bidding process, shall be uploaded on website only and shall not be published in any Newspaper.

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

While submitting the revised bid, agency can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) in case of item rate tender and / or revise the percentage in case of percentage rate tender, within the last time and date of submission of bid as notified.

F.No.69(1)/HCED/CPWD/2026/334

Dated: 21.10.2026

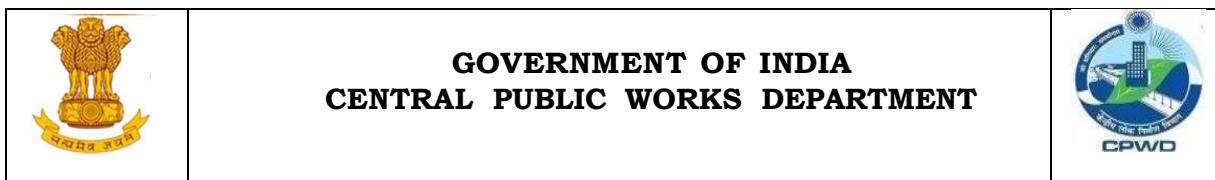
Copy to:

1. Notice board.
2. <http://etender.cpwd.gov.in>
3. Firms M/s

**Executive Engineer (E),
CPWD, Hubballi
(For and on behalf of President of India)**

CPWD-6 FOR e-TENDERING

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)



1. The Executive Engineer(E), CPWD, Hubballi on behalf of President of India invites online percentage rate composite bids from CPWD enlisted contractors Class-II & above and CPWD Enlisted Contractors of Class-III and below [only SR Region Enlisting in SDG(Chennai), ADG(Kochi), ADG(Bengaluru) and ADG(Hyderabad)]. For the work **“Supply, Installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Building, Kalaburagi”**.

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

- a. The work is estimated to cost **₹ 25,30,862/-**-this estimate, however, is given merely as a rough guide.
- b. Criteria for Eligibility
The Contractors, who fulfill the following requirements, shall be eligible to apply.
 - i. The enlistment of the CPWD contractors in appropriate class should be valid on the last date of submission of bids.
 - ii. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7** (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website **www.etender.cpwd.gov.in** or **www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **4 (Four) Months** from the date of start as defined in **schedule ‘F’** or from the date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. (i) The site for the work is available.
(ii) The architectural drawings of the building are available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website www.etender.cpwd.gov.in or www.cpwd.gov.in **free of cost.**

6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified. While submitting the revised bid, contractor can revise the **percentage rate** items any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the **percentage rate** items any number of times but before last time and date of submission of bid as notified.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt (FDR), Banker's Cheque or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial bank (**Drawn in favour of Executive Engineer(C), CPWD, Hubballi payable at Hubballi**), shall be scanned and uploaded to the e- tendering website within the period of bid submission. **The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposit of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.**

This receipt shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 Lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for **Ninety days or more** from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the NIT 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 shall have to be submitted physically by the lowest bidder within a week after opening of bid in the office of bid opening authority.

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

9. The bid submitted shall be opened at **15:30 Hrs. on 31.10.2026**
10. The bid submitted shall become invalid and e-tender processing fee shall

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

not be refunded if:

- (i) The bidder is found ineligible.
- (ii) The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
- (iii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
- (iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority
- (v) **If a tenderer quotes nil percentage in percentage 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 tendered value or Estimated cost Put to Tender (ECPT) (Whichever is higher). (b) Where the tendered amount is less than Eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between Eighty Percent (80%) of the ECPT and the tendered amount. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt (FDR) or Bank Guarantee from any of the Commercial banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the earnest money deposit by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest money deposited along with the bid shall be returned after receiving the afore said performance guarantee.

The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub- contractors, if any engaged by the contractor for the said work and Programme Chart (Time and progress) within the period specified in Schedule F.

12. The description of the work is as **"Supply, installation, testing & commissioning of 82.5 KVA DG set ancillary works at Income Tax Building, Kalaburagi."**

The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

submission of tender. Any issue related to updating profile/ uploading tender can be resolved through the ERP help line no 18001893286 or email ID cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issue till the last date of submission of bid in their own interest.

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid.

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

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable 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 bid and the bidders shall be bound to perform the same at the percentage rate quoted.
16. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.
17. The contractor shall not be permitted to bid for works in the CPWD Circle

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

(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 Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

18. No Engineer of gazette rank or other Gazette Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
19. The bid for the works shall remain open for acceptance for a period of **30 days** from the date of opening of bids,
 - (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
20. This notice inviting Bid shall form a part of the contract document. The successful bidders/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

- a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the **percentage rates** quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as mentioned.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

ANNEXURE - A**21. Reference of deposition of Bank Guarantee including e-Bank Guarantee as EMD**

(Receipt No.	/ Dated	)
<p>1. Name of work: Supply, installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Building, Kalaburagi</p> <p>2. NIT No. : 09/EE (E)/Hubballi/CPWD/2026-27 (1st Recall)</p> <p>3. Estimated cost : ₹ 25,30,862 / -</p> <p>4. Amount of Earnest Money Deposit: ₹ 50,617 / - (in favor of Executive Engineer (C), CPWD, Hubballi)</p> <p>5. Last date of submission of bid : Up to 15:00 Hrs. On 31.10.2026</p>		
<p>1. Name of Contractor :</p> <p>2. Form of EMD :</p> <p>3. Amount of Earnest Money Deposit :</p> <p>4. Date of submission of EMD :</p> <p>5. E-mail Address of the Receiver of EMD :</p>		
Office Stamp		Signature, Name and Designation of EMD Receiving officer (EE/AE/AAO)
(* To be filled by EMD receiving EE)		

I	Nil		
O	Nil		
C	Nil		
		AE(E)(P)	EE(E)

SECTION – I

BRIEF PARTICULARS OF THE WORK

1. Salient details of the work for which bids invited are asunder:

Sl. No.	Name of Work	Estimated Cost	Period of completion
1	Supply, installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Building, Kalaburagi	₹ 25,30,862/-	4 (Four) Months

2. The work is situated at **Income Tax, Kalaburagi** under jurisdiction of Executive Engineer(E), HCED, CPWD, Hubballi
3. Work shall be executed according to General Conditions of Contract for CPWD 2023 (Construction Works) Form 7 for Central P.W.D. Works as amended/corrected up to the last date of submission of bids.
4. **Features:** The following provisions have been considered in this estimate:
- 1) Supply, installation, testing and commissioning of 82.5 KV DG set, AMF Panel and associated equipment's.
 - 2) LT Panels, Fixing of DB's and cabling, submain in office building.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

SECTION – II

INFORMATION AND INSTRUCTIONS FOR BIDDERS
(REGARDING FILLING AND SUBMISSION OF
VARIOUS BID DOCUMENTS SPECIFIED
HEREINAFTER)

1.0 GENERAL:

- 1.1 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a “nil” or “no such case” entry should be made in that column. If any particulars / query is not applicable in case of the bidder, it should be stated as “not applicable”. The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bidder being summarily disqualified. Bids made in any other method than specified e-tendering process and those received late will not be entertained.
- 1.2 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the tenderer should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 1.3 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information.

2.0 Definitions

- 2.1 In this document the following words and expressions have the meaning hereby assigned to them:
- 2.2 **Employer:** Means the President of India, acting through the Executive Engineer (E), CPWD, Hubballi.
- 2.3 **Contractor/ Bidder/ Agency/ Firm/ Applicant:** Means the individual, proprietary firm, firm in partnership, limited company private or public or corporation duly enlisted as approved and eligible contractor of CPWD in appropriate class.

3.0 FINAL DECISION MAKING AUTHORITY

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

4.0 SCOPE OF WORK

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

5.0 SITE VISIT

The bidder is advised to visit the site of work, at his own cost, and examine it

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

and its surroundings to himself collect all information that he considers necessary for proper assessment of the prospective assignment.

6.0 CRITERIA FOR ELIGIBILITY

The Contractors, who fulfill the following requirements, shall be eligible to apply.

6.1 Criteria for eligibility

- (i) The enlistment of the contractors with CPWD in appropriate class and category should be valid on the last date of submission of bids
- (ii) In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

7.0 AWARD CRITERIA

7.1 The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:

- (a) Amend the scope of work and value of contract.
- (b) Reject any or all the applications without assigning any reason

7.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited

**Executive Engineer (E),
CPWD, Hubballi
(For and on behalf of President of India)**

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

CPWD- 7

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

STATE: Karnataka

REGION: Bengaluru

BRANCH: B&R

DIVISION:EE(E), Hubballi

COMPOSITE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work of: **“Supply, installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Building, Kalaburagi.”**

- (i) To be submitted / uploaded online by **Up to 15:00 Hrs. on 31.10.2026** through website **www.etender.cpwd.gov.in** or **www.cpwd.gov.in** to Executive Engineer (E), CPWD, Hubballi.
- (ii) The Bid to be opened online in presence of tenderers who may be present at **Up to 15:30 Hrs. on 31.10.2026** in the office of Executive Engineer (E), CPWD, Hubballi.

T E N D E R

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 and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz. Schedule of Quantities and in accordance in all respects with the Specifications, Designs, Drawings and instructions in writing as referred in Rule-1 of General Rules and directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

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

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

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be).

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

Further, I / We agree that in case of forfeiture of Earnest Money & 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 from the 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 therefrom to any person other than a person to whom I/we/am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Witness: -

Address: -

Occupation

Signature of Contractor **

Postal Address: - **

Telephone No Fax:

E-Mail:

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

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 ₹.....

(Rupees....***)

The letters referred to below
Shall form part of this contract agreement.

a)

b)

c)

Dated: -...***.....for & on behalf of the President of India.

Signature.....

Designation.....

*** To be filled in by the Executive Engineer

**To be filled in by the contractor

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

PROFORMA OF SCHEDULES**SCHEDULE 'A'**

Schedule of quantities: -

As per NIT document

SCHEDULE 'D'

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

- | | | |
|------------------------------|---|---------------------|
| 1. Special conditions | : | As per NIT document |
| 2. Particular Specifications | : | As per NIT document |
| 3. Annexures | : | As per NIT document |
- Form of Bank Guarantee for
Performance Guarantee /
Security Deposit/ Guarantee
Bond for water proofing

SCHEDULE 'E'

Reference to General Conditions of contract: General Conditions of contract
2023 (Construction Works)
for CPWD Work Contract
amended up to last date of
submission of bids

**Name of Work: "Supply, installation, testing & commissioning of 82.5 KVA
DG set and ancillary works at Income Tax Building,
Kalaburagi"**

Estimated Cost of work: - ₹ 25,30,862/-

7.2.1 Earnest Money: ₹ 50,617/-

7.2.2 Performance Guarantee:

- a) 5.00% of tendered value or estimated cost put to tender (ECPT) (whichever is higher)
- b) Where the tendered amount is less Than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference eighty percent (80%) of the ECPT and the tendered amount

7.2.3 Security Deposit : 2.50% of tendered value.

SCHEDULE 'F'**GENERAL RULES & DIRECTIONS:**

1. Officer inviting tender

**Executive Engineer (E)
CPWD, Hubballi**

I	Nil		
O	Nil		
C	Nil		
		AE(E)(P)	EE(E)

Definitions:

- 2(i) Engineer-in-Charge.... **Executive Engineer (E)
CPWD, Hubballi or
Successor thereof**
- 2(ii) Accepting Authority **Superintending Engineer
CPWD, Hubballi**
- 2(iii) Percentage on cost of materials and
Labour to cover all overheads and profits **15%**
- 2(iv) Standard Schedule of Rates **With updated **Delhi
Schedule of Rates 2025****
- 2(v) Department **Central Public Works Department**
- 2(vi) Standard CPWD Contract Form: - **GCC 2023 (Constructions Works)
Form GCC 2023 & CPWD
Form 7 as modified and
Corrected up to
& CPWD-7 as amended /
modified up to last date of
submission of e-tender**

Clause-1:

1. Time allowed for submission of performance
Guarantee, programme chart (Time and Progress)
And applicable labour licences, registration with **07 Days**
EPFO, ESIC and BOCW Welfare Board, or proof
Of applying thereof from the date of issue of letter
Of acceptance
2. Maximum allowable extension with **03 Days**
Late fee @ 0.1% per day of the performance
Guarantee amount beyond the period provided
In (i) above

Clause-2:

Authority for fixing compensation **Superintending Engineer,**
CPWD under Clause 2 **Hubballi or Successor thereof**

Clause-5:

Number of days from the date of issue of Letter of acceptance for reckoning date of start.	7 days
--	--------

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

Details of Milestone

Sl. No	Description of Milestone	Time allowed in days/ months(from date of start)	Amount to be with-held in case of non-achievement of milestone
1	Submission of associated agency credentials i/c makes of materials along with technical data sheet and drawings. Supply of cables. Db and wires.	1 Months	In the event of not achieving the necessary progress 1% of the tendered value of the work will be withheld for failure of each Milestone.
3	Supply of DG set, AMF Panel including all equipments, cables etc and completion of foundation work	3 Months	In the event of not achieving the necessary progress 2% of the tendered value of the work will be withheld for failure of each milestone.
4	Completion of Installation, Testing and Commissioning of DG set and AMF panels etc. including completion in all aspects, and handing over to the Client	4 Months	In the event of not achieving the necessary progress 2% of the tendered value of the work will be withheld for failure of each milestone.

Note: The withheld milestone will only be released when subsequent milestone is achieved within the specified time. The withheld amount will not be interest bearing.

For EOT and rescheduling of milestones, provisions as per GCC shall be followed. The Engineer-in-charge may release withheld amount on account of non-achievement of milestone(s) against Bank Guarantee/FDR of an equivalent amount valid up to stipulated date of completion (to be extended further, if required) issued by a commercial bank.

Time allowed for execution of work: **4 (Four) Months.**

Authority

(i)	To convey the decision of shifting of Mile stone and Extension of time.	Executive Engineer (E), CPWD, Hubballi or his successor thereof.
(ii)	To decide Rescheduling of mile stones and extension of time.	Superintending Engineer, CPWD, Hubballi or his successor thereof
(iii)	Shifting of date of start in case of delay in handing over of site.	Superintending Engineer, CPWD, Hubballi or his successor thereof

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	NIL	Not Applicable
Part B	Portions with encumbrances	NIL	
Part C	Portions dependent on work of other agencies	NIL	

Clause 5.4: Schedule of rate of recovery for delay in submission of the modified programme in terms of delay days

Sl.No	Contract Value	Recovery ₹/Per day
1.	Time for submission of hindrances for rescheduling of milestone by agency	Once in a month

Clause 6:

Clause 6 (Electronic Measurement Book): Applicable – **Through ERP RFI.**

Clause -7:

Gross work to be done together with net payment / adjustment of for advances for material collected, if any, since the last such payment for being eligible to interim payment	₹ 6 Lakhs
--	------------------

Clause – 7A:

Whether Clause 7A shall be applicable	Yes, Applicable. (DG/CON/ Construction 2023/15 Dated 31.01.2025)
---------------------------------------	--

Clause – 7B:

Whether clause 7B as per DG/CON/334 dated 30.08.2022 shall be applicable	Yes, applicable
--	------------------------

Clause – 8:

Authority to decide compensation on account if contractor fail to submit Completion plans:

Sl. No.	Description	Authority
1	Competent Authority to inspect & issue part/final completion certificate	EE(E), CPWD, Hubballi

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

Clause-10A:

Materials to be provided	As per NIT document.
--------------------------	----------------------

Clause-10B (ii):

Whether clause 10-B (ii) shall be applicable (Mobilization advance)	Not Applicable
---	-----------------------

Clause-10C:

Whether Clause 10C shall be applicable	Component of labour expressed as percentage value of the Electrical work =20%
--	---

Clause-10 CC:

Whether clause 10CC shall be applicable	Not Applicable
---	-----------------------

Clause-11

Specifications to be followed for execution of work	CPWD Specifications Part-I Internal, Part-II External – 2023, Part-IV Sub Station – 2013 and Part VII D.G. Sets - 2013 with corrections slips up to the last date of submission/uploading of tender
---	---

Clause 12: Type of work:**Construction work**

Maximum percentage of quantity of items of work to be Refer below
Executed beyond which rates are to be determined in accordance With
Clause 12.2 (C)

12.2 (C)	Deviation limit beyond which Clauses 12.2 (C) Shall apply for all items of buildingwork.	100%
----------	---	-------------

(The completion cost of construction work shall not exceed 1.5 times of the contract amount. Work executed beyond above this limit shall neither be recorded nor paid)

Clause-16: -

Competent Authority for deciding reduced rates.	Superintending Engineer CPWD, Hubballi or successor thereof
---	---

Clause 18:

List of mandatory machinery, tools & plants to be deployed by the contractor at site	As per NIT Document
--	---------------------

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

Clause 19: Modified provision.

The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971. The contractor shall also obtain a valid license under the said Act before the commencement of the work, and continue to have a valid license until its completion.

Clause 19C, 19D,19G,19K Applicable

Clause 19C authority to decide penalty for each default:	Executive Engineer, of respective discipline or any authority as decided by the CPWD Directorate.
Clause 19D authority to decide penalty for each default	
Clause 19G authority to decide penalty for each default	
Clause 19K authority to decide penalty for each default:	

Clause 19 (C)		
Penalty for each default	:	₹ 1000/-
Clause 19 (D)		
Penalty for each default	:	₹ 2500/-
Clause 19 (G)		
Penalty for each default	:	₹ 2500/-
Enhanced penalty per day for Continues default	:	₹ 5000/-
Clause 19 (K)		
Penalty for each default	:	₹ 200/-

Clause-25:

Conciliator	ADG(B), CPWD, Bengaluru or successor thereof
Arbitrator Appointing Authority	SE, CPWD, Hubballi or successor thereof.
Place of Arbitration	Hubballi or as decided by the Arbitration Appointing Authority

Clause-32(i): Requirement of Technical Representative(s) and Recovery Rates

(a) For Electrical and Civil works:

Sl. No.	Minimum Qualification of	Discipline	Designation	Minimum Experience	Number	Rate at which recovery shall be made from contractor in the event of non-Deployment.
---------	--------------------------	------------	-------------	--------------------	--------	--

I	Nil	AE(E)(P)	EE(E)
O	Nil		
C	Nil		

						Figures	Words
1	Graduate Engineer Diploma Engineer	Electrical	Project Manager cum planning Quality/site/Billing Engineer	2 or 5 Years respectively	1	Rs.15000/- per month per person.	Rs. Fifteen Thousand only per month per person.

Note:

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

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

The contractor shall submit a certificate of such employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) along with every account bill/final bill and shall produce evidence if at any times so required by the Engineer-in-charge.

Clause-41

The security deposit of the work shall be refunded if no labour complaint has been received from the labour officer till the due date of its payment as per clause 17 of applicable GCC. If a labour complaint is received during this period, the Engineer-in-charge shall, after issue of notice in this regard to the contractor, deduct the amount required to settle the complaint from his security deposit and refund the balance amount.

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

On Non-judicial stamp paper of minimum Rs. 100/-

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

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

1. Whereas the Executive Engineer(Name of Division)..... CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under(NIT number).....dated..... for.....(name of work).....The Government has further agreed to accept irrevocable Bank Guarantee for ₹.....

(Rupeesonly) valid up to..... (Date)*..... as

Earnest Money Deposit from..... (Name and address of contractor), (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas **The Executive Engineer**.....(Name of Division)..... on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number..... with..... (name and address of The contractor) (Hereinafter called "the Contractor") for execution of work of " **Supply, installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Billing, Kalaburagi.**" The Government has further agreed to accept an irrevocable Bank Guarantee for ₹..... (Rupees only) valid up to..... (Date) as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, (indicate the name of the bank) (Hereinafter referred as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs (Rupees only) on demand by the Government **within 10 days** of the demand.
3. We, (indicate the name of the Bank)..... do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ₹..... (Rupeesonly)

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

4. We, (indicate the name of the Bank) , further undertake to
Pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
5. We,..... (indicate the name of the Bank)... , further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us
6. We, (indicate the name of the Bank).... further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in constitution of the Bank or the Contractor.
8. We, (Indicate the name of the Bank) undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up to Rs..... Unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees.....Only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

Date:.....

Witnesses:.....

- | | | |
|----|------------------------------------|--|
| 1. | Signature.....
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 from the date of submission of tender.

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

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

SPECIAL CONDITIONS FOR ALL SPECIALIZED E & M COMPONENTS

1. The applicant 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 as per Form “P”. 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.

2. The main tenderer has to submit the following documents for association of contractor as per timeline mentioned in the milestone table or 15 days after the award of the work whichever is earlier.
 - (i) In support of the eligibility conditions of the proposed Associated Contractor, copy of their registration documents, Electrical License, GST Documents duly attested by the applicants (Main Contractor) shall be submitted to the **Executive Engineer (Electrical), CPWD, Hubballi, or his successor for** deciding the eligibility. Each such Associated Contractor will certify that they are not debarred as on the day of application for sale of tender. Proposal for associating agency for minor components of work shall be submitted in Form- “N” of this tender document from each associate independently for all electrical and mechanical components.
 - (ii) The main contractor will submit MOU signed with eligible associated. The MOU in the enclosed Form “Q” shall be signed by both the party’s main contractor i.e.as 1st party and associated contractor as 2nd party. Independently for all electrical and mechanical components

3. In the event of the concerned E&M agency 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 fulfill 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 but both of them together will stand

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

Guarantee for the equipment already supplied for which payment has been released by the department in part. If any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Dept., 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 Associated Contractor will be allowed without prior approval of the Engineer-in-charge of the work.

4. In respect of all works i.e., Internal Electrical Installation, Manual Firefighting and fire alarm System, Substation, etc., the materials shall be procured only from the original equipment manufacturers/authorized dealers of OEM. The contractor shall submit all documentary details in fulfillment of these conditions regarding procurement of materials including relevant test certificates.
5. Executive Engineer (E) shall be the Engineer-in-charge as far as electrical works are concerned. Separate tender schedule abbreviated CPWD-8 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.
6. The main contractor shall be responsible and liable for proper and complete execution of the Electrical work and ensure coordination and completion of both civil and electrical work.
7. The main contractor has to enter into agreement with contractor associated by him for execution of minor component. Copy of such agreement shall be submitted to Executive Engineer(E) in charge of minor component as well as E.E. in charge of major component.
8. The associate contractor shall attend the inspection of the work by the Engineer-in-charge of E&M works as and when required.
9. It is the responsibility of the main contractor for the liaisoning work with local bodies like Electricity Department/ KPTCL/ NMPT/ CHESCOM/ electrical Inspector / CEA/ Chief fire officer of state Govt. for obtaining service connections as per local by- laws, obtaining service connection from local distribution company. All statutory fees / charges required for obtaining clearances from CEA / Local Bodies etc. shall be paid by the agency and it can be re-imburdes from the department.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

10. MANDATORY REQUIREMENT OF INSURANCE POLICIES FOR THE ENTIRE PROJECT PERIOD

- (i) Before commencing the execution of work, the Contractor shall, without in any way limiting his obligations and liabilities, insure at his own cost and expense against any damage or loss or injury, which may be caused to any person or property, at site of work.
- (ii) The Contractor shall obtain and submit to the Engineer-in-Charge “Contractor All Risk Insurance Policy” for an amount 1.25 times the contract amount for this work, with Engineer-in-Charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer-in-Charge and the Contractor (who shall be second beneficiary). Also, he shall indemnify the Department from any liability during the execution of the work.
- (iii) Further, he shall obtain and submit to the Engineer-in-Charge, a third-party insurance policy for maximum Rs.10 lakh for each accident, with the Engineer-in-Charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer-in-Charge and the Contractor (who shall be second beneficiary).
- (iv) The Contractor shall, from time to time, provide documentary evidence as regards payment of premium for all the Insurance Policies for keeping them valid till the completion of the work. The Contractor shall ensure that Insurance Policies are also taken for the workers of his Sub-Contractors / specialized agencies also. Without prejudice to any of its obligations and responsibilities specified above, the Contractor shall within 10 days from the date of letter of acceptance of the tender and thereafter at the end of each quarter submit a report to the Department giving details of the Insurance Policies along with Certificate of these insurance policies being valid, along with documentary evidences as required by the Engineer-in-Charge.
- (v) No work shall be commenced by the Contractor unless the contractor obtains the Insurance Policies as mentioned above. Also, no payment shall be made to the Contractor on expiry of insurance policies unless renewed by the Contractor. Nothing extra shall be payable on this account. No claim of hindrance (or a
- | | | |
|------|-----|--|
| only | Nil | her claim) shall be entertained from the contractor on these accou |
| nts | Nil | |
| C | Nil | |
- AE(E)(P) EE(E)

11. TRAINING OF THE PERSONNEL

The contractor shall arrange at no extra cost to the Department to train two persons from the department (CPWD) and two persons from the client **Income Tax Kalaburagi**, one each for civil and electrical works, on how to operate and carryout preventive maintenance of the systems (both electrical and civil). The contractor shall arrange this training from well qualified and experience personnel for at least seven days.

Executive Engineer (E)
CPWD, Hubballi

THE MINIMUM ELIGIBILITY CRITERIA FOR E&M COMPONENTS AND SPECIALISED WORKS WHEREVER APPLICABLE

The Main contractor shall have to associate other agency(s) for execution of each of the work(s), which fulfill the eligibility criteria as defined after taking prior approval. The main Contractor and the associated specialized agencies shall give required affidavit to confirm their association. Tender accepting authority may approve change of sub agency in case it is required during the currency of contract. However, the main contractor shall also be eligible to carry out himself any or all these works without associating any specialized agency provided: -

He fulfills the prescribed criteria respectively for these works(s).

Sl. No.	Component of E&M works	Estimated cost in Lakhs of Rupees	Minimum Eligibility Criteria								
1	DG Set & AMF Panel	9.23	<p>The main contractor if not eligible himself, shall associate with specialized agency fulfilling the following eligibility criteria having successfully completed during last seven years ending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or Equivalent duly attested.</p> <p>Three similar completed works each of value not less than 40% of ECPT amount with capacity of individual transformer not less than 63 KVA.</p> <table border="1" data-bbox="652 1717 1068 1808"> <tr> <td>I</td><td>Nil</td><td rowspan="3">AE(E)(P)</td><td rowspan="3">EE(E)</td></tr> <tr> <td>O</td><td>Nil</td></tr> <tr> <td>C</td><td>Nil</td></tr> </table>	I	Nil	AE(E)(P)	EE(E)	O	Nil	C	Nil
I	Nil	AE(E)(P)	EE(E)								
O	Nil										
C	Nil										

			<p>or</p> <p>Two similar completed works each of value not less than 60% of ECPT amount with capacity of Individual transformer not less than 63 KVA.</p> <p>or</p> <p>One similar completed work of value not less than Rs. 80% of ECPT amount with capacity of Individual Transformer not less than 63 KVA.</p> <p>Similar work shall mean SITC of DG set equipment's with capacity of individual DG set not less than 63 KVA"</p> <p>However, the Composite category contractor shall also be eligible to carry out himself without associating any specialized agency provided:</p> <p>(a) He fulfills the prescribed eligibility criteria respectively for this work OR</p> <p>(b) He directly procures the equipment of approved make from manufacturer and gets it installed from authorized agency/service provider of the manufacturer or specialized agency, as per the eligibility criteria mentioned as above.</p>
3	Panels, Wirin g, IEI & Miscellaneous Electrical works	16.07	The main contractor shall either himself meet the eligibility conditions or may associate with contractor registered in Buildings & Roads category of appropriate class in CPWD for execution of this sub head of work, possessing valid Electrical contractor of appropriate license of appropriate voltage issued by competent authority.

Note:

The value of executed works shall be brought to current costing level by enhancing value of work at simple rate of 7% per annum calculated from the date of completion to last date of submission of tender. For other conditions, refer special conditions specified in NIT.

The applicant shall either himself meet the eligibility conditions for the respective E&M packages or otherwise, he will have to associate an agency meeting the eligibility requirements as given in this tender document and submit the details as per Form "N" given in this tender document.

The applicant/ main contractor has to submit consent letters as per Form "P", given in this tender document from the 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.

The main contractor will have to submit an affidavit of MOU signed with eligible associated contractor. The MOU in the enclosed Form "Q" shall be signed by both contractors, Main contractor as 1st party and associated contractor as 2nd party, independently for each E&M component.

I	Nil	
O	Nil	
C	Nil	AE(E)(P) EE(E)

Completion certificates of the work, TDS documents, valid license, MOU documents, GST registration/approval documents as the case may be, duly attested by the main agency and proposed associated agency shall be submitted within time line duration as mentioned in Milestone under clause 5 or 7 days after the award of the work whichever is earlier.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

FORM – N**PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR MINOR COMPONENTS OF WORK**

Name of Work: **Supply, installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Building, Kalaburagi**

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

Sl. No	Component	Name of Associated Contractor	Category and Class of registration	Enlistment copy / completion	Monetary Limit of work	Validity of registration	Consent letter attached (Yes/No)
1.	DG set & AMF Panel						
2.	Panels, Wiring, IEI & Miscellaneous Electrical works						

Note: Self Attested photocopies of enlistment order, valid electrical contractor license for E&M work shall be submitted by the main contractor/associated contractor whoever is eligible.

Signature of contractor

I	Nil	
O	Nil	
C	Nil	AE(E)(P) EE(E)

FORM₃₇ P
CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY

Name of Work: **Supply, installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Building, Kalaburagi**

I / We hereby give my consent to associate with M/s..... , for Executing the minor component of work of.....(Mention category).

1. I / We will execute the work as per specifications and conditions of the agreement and as per directions 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 installations and for rectification of defects and repair during the maintenance / warranty period.
3. Also I / We will employ full time technically qualified Engineer / supervisor for the minor component of the work as required for the work. I / We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Major component

Contractor
Address

Signature with date of Minor
Component

Contractor
Address

Witness with address

(From major component contractor side)

Witness with address

(From minor component contractor side)

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

FORM-"Q"**AFFIDAVIT OF MEMORANDUM OF UNDERSTANDING (MOU)**

(to be submitted for each and every E&M component)

M/s. (Name of the firm with full address)

Enlistment

Status Valid

Upto:

(Henceforth called the main Contractor)

M/s. (Name of the firm with full address)

Enlistment Status

Valid Upto:

(Henceforth called Associated Contractor)

For the execution of E &M component Works –

Name of work: Supply, installation, testing & commissioning of 82.5 KVA DG set and ancillary works at Income Tax Building, Kalaburagi We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the Engineer In charge. Any of us may appeal against the mediation to the Superintending Engineer, CPWD, Hubballi. His decision shall be final and binding on both of us.

We have agreed as under:

The Associated Contractor will execute all the specialized component of work(s) in the wholesome manner as per terms and conditions of the agreement.

The Associated Contractor shall be liable for disciplinary action if he fails to discharge the action(s) and other legal action as per agreement.

All the machinery and equipment, tools and tackles required for execution of the E & M works, as per agreement, shall be the responsibility of the Associated Contractor.

The site staff required for the E & M work shall be arranged by the Associated Contractor as per terms and conditions of the agreement.

SIGNATURE OF MAIN CONTRACTOR

SIGNATURE OF ASSOCIATED
CONTRACTOR

Date:

Date:

Place:

Place:

1. Witness with address

2. Witness with address

(From major component contractor side) (From minor/specialized component

Contractor side)

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

GENERAL & COMMERCIAL CONDITIONS FOR ALL E&M WORKS

GENERAL AND COMMERCIAL CONDITIONS:

This section covers the various commercial conditions applicable and to be read in connection with the conditions of contract of the standard form (CPWD-7 / 8) of the department (CPWD) forming part of the tender papers. In the event of any discrepancy between these two, the requirements of the former will be followed.

These additional conditions and additional specifications are applicable to all E&M works in general. For specific tenders some of the E&M services may not be a part of the particular tender. In such cases the conditions and specifications which are not related to the works or components thereof mentioned in the schedule of work shall not apply for that particular tender.

All the E & M works shall be carried out as per direction and to the entire satisfaction of the Engineer-in-charge.

Unless otherwise specified in the following conditions, the work shall, in general, be carried out as per following specifications:

CPWD General Specifications for Electrical Works – Part-I (Internal), 2023 amended up to date.

CPWD General Specifications for Electrical Works – Part-II (External), 2023 amended up to date.

CPWD General Specifications for Electrical Works – Part-IV (Substation) 2013 amended up to date.

Relevant BIS specifications amended up to date.

Indian Electricity Act 2013 and Indian Electricity Rules 1956 amended up to date. Local Fire Regulations applicable at the place of installation.

Relevant and applicable foreign standards and specifications amended up to date. Any other relevant act or rules and local byelaws.

Commercial and additional conditions and specifications for E & M work for this tender.

The work shall be carried out by CPWD enlisted contractor of appropriate Class as per Composite category with valid Electrical license and supervisor

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

license only and other criteria as per norms. In case the main contractor is not fulfilled the criteria, he should engage a suitable agency as associated contractor, for execution of this work. Name of electrical agency shall be given in consent letter Performa along with enlistment details of the agency.

Executive Engineer (Elect.) shall be the Engineer-in-Charge as far as electrical works are concerned. It will be obligatory on part of the main contractor to sign the tender documents for the entire component. The main contractor has to enter in agreement (MOU) with the Contractor associated by him for execution of minor component. Copy of such agreement shall be submitted to EE/DDH of minor component as well as EE in charge of major component

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

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

Normally, there shall be no change in associated contractor for minor component work during the execution of the work. If at all, a change is necessitated, the same should be acceptable to the department and such acceptable contractor shall fulfill the conditions laid down for the selection of the associated contractor in the tender document.

If the specifications for any item or its component are not available in the CPWD specifications cited above, relevant BIS specification as amended up to date shall be followed, whether or not the specific reference of a particular BIS specification has been made in this specification / tender document.

Wherever any reference to any Indian Standard specification occurs in the document relating to this contract the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the date of opening of tenders.

All materials should conform to relevant BIS specifications wherever the same exists in absence of stipulation in this tender document.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

Where manufacturers furnish specific instructions / recommendations relating to the materials used in this job and/or their installation, covering points not specifically mentioned in these documents, these instructions shall be followed in all cases and shall be deemed to be included in the schedule of work whether they have been specifically mentioned or not.

Manufacturer's catalogue / literature on installation, testing, maintenance and troubleshooting of major equipment's shall be submitted to the department while handing over the installation.

MATERIALS TO BE USED IN THE WORK:

All materials used in the work shall be new and of good quality, conforming to the relevant specifications as per good engineering practice.

All the materials proposed to be used in the work should be got approved from Engineer in Charge before use in work.

The materials to be supplied / provided by the contractor in execution of the work should be ISI marked, wherever applicable and of make as specified in the agreement. Where the make of any particular material is not specified in the contract document, the material shall be supplied as per makes desired by the engineer-in-charge.

It will be the responsibility of the contractor / bidder to ensure use of genuine materials in the work. The department reserves the right to get (any / all materials / components) inspected by the manufacturer or their authorized representatives at any stage of the execution of work. If any of the materials, equipment supplied and used in work is found spurious at any stage, then the department reserves the right to ask the contractor to replace it by genuine one and make suitable recovery and / or withheld suitable amount till it is done, even if any payment against that material is already made.

The department may ask for any valid document like manufacturer's test certificate, document for purchase of the material, document for import / shipment of imported materials etc. as deemed fit by the engineer-in-charge to ascertain genuinity of material supplied by / used in the work by the contractor. The contractor shall remain bound to submit all such documents to the department failing which payment may not be made or if already paid may be recovered / withheld from subsequent running account payment.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

Copies of all purchase documents for all equipment's, accessories, fittings, fixtures etc. which carry guarantee / warrantee shall be handed over to the department in suitable form so that proper guarantee of materials are available to the department.

All the equipment's and their components and all the materials to be used in the work shall be suitable for the environmental conditions at the location of the work.

The materials to be supplied in this work shall be scheduled in such a way that miles stones are achieved and no shortfall is there. At the same time materials should be brought at sight in phases in such a manner so that they are not brought much in advance at site and dumped in work site for long period before installation and guarantee / warrantee of the materials are available for full period as per tender conditions. If the materials / equipment's are supplied at site much before actual use in work, the department shall not remain bound to make payment for such items of work involving the said materials / equipment's. The decision of the engineer in charge will be final and binding on all.

Dismantle materials, if any, should be returned to the department unless otherwise anything in contrary has been specifically stated in the tender document / BOQ.

RATES:

Unless otherwise provided in the schedule of quantities of the work the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.

The rates for all items of work shall, unless clearly specified otherwise, include cost of all labours, materials and other inputs involved in the execution of the item irrespective of whether they have been specifically mentioned in the tender document or not.

This being an indivisible works contract, GST etc. are not payable separately. The rates tendered shall be firm and inclusive of all taxes, duties, cess and levies as applicable, and all charges for packing, forwarding, insurance, freight and delivery, installation, testing and commissioning at site, watch and ward etc. including temporary constructional storage, risks, overhead charges, general liabilities / obligations and clearance from local bodies and State Fire Services, as applicable. Nothing extra shall be paid. However, fees payable to the local bodies / authorities for such clearance etc. shall be borne by the department.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

In case the same item (s) appear more than once in the schedule of work / BOQ under the same sub head or among the different subhead of works, the lowest rate quoted for that item (s) shall be considered for the particular item (s) wherever appeared in any part of BOQ / Schedule of works for the purpose of tender evaluation although web generated e-price bid may incorporate different quoted rate for same item (s) as per the quoting pattern of the tenderer. The tendered amount thus worked out shall be final & shall be binding on the contractor. (Applicable for item rate tender).

ACCIDENT:

The department (CPWD) shall not have any responsibility or liability in case of any accident injury to the personnel to the contractor at work site or to the general public at the work site due to mishandling equipment by the personnel of the contractor or any other similar reason. The responsibilities and liabilities for such accidents and incidents shall be borne in full by the contractor.

AFTER SALES SERVICE:

The contractor shall ensure adequate and prompt after sales service in the form of maintenance personnel and spares as and when required with a view to minimize the break down period. Particular attention shall be given to ensure that all spares are easily available during the normal life of the installation.

REMOVAL OF SURPLUS MATERIALS AND TOOLS:

After completion of work the agency shall remove his men, materials and debris etc. from site.

QUALITY OF WORK AND WORKMANSHIP:

The contractor shall be entirely responsible and answerable for all the works done by him regarding quality, adherence to the laid down specifications, 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.

Clause 1.15 of CPWD General Specifications for Electrical Works, Part – IV, Substation 2013 shall be applicable

The materials having ISI mark shall have precedence over the one conforming to IS Specifications.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

The contractor is advised to visit the site before quoting for his tender to apprise himself about the site environments and other conditions. Drawings and inventories can be seen in the office of the Engineer – in – charge.

SITE ORDER BOOK:

The contractor or his authorized representative shall sign the site order book and comply with the remarks entered therein by the representative of the department.

WATCH AND WARD:

The contractor will make his own storage of his own materials. The watch and ward of the materials and of the installations would be responsibility of contractor till the work is completed / handed over to the department. Nothing extra shall be paid to the contractor on this account.

Making payment to the contractor in any form against supply of materials / equipment's / components or execution thereof shall not absolve the contractor of his responsibility of watch and ward of the equipment's / materials etc. and their satisfactory functioning until the same is taken over by the department after successful installation, testing, commissioning and running in period.

No separate storage space will be provided to the contractor for storage of his materials and equipment's to be brought at site and used in execution. The available open site space may however be used by the contractor for storage purposes in which case he may build up temporary store at available site space at his own cost.

VARIATION IN QUANTITY:

Quantities shown against each item of work or supply are tentative which may vary on either side (plus or minus). This variation shall, in general, be governed by clause No. 12 of the clauses of contract of CPWD form 7 / 8. The contractor should ensure from the Engineer-in-charge and from the site condition the actual quantity required/ to be used / to be supplied before bringing the materials at site. In case the actual quantity of material required at the site is less than the stipulated quantity, the contractor cannot claim to supply entire quantity stipulated in the schedule of quantities of work as well as cannot demand for payment thereof. The contractor shall therefore, be very careful about the quantity of materials to be supplied / brought at site. The decision of the Engineer-in-charge in this regard shall be final and binding on the part of the contractor. Even if initial

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

payment for supply of materials is made in any form for bringing material at site and if it is found at later stage that the actual requirement is less as per site requirement or as per decision of the Engineer-in-charge, the contractor shall have to take back the additional quantity brought / supplied at site and necessary adjustment shall be made from his next bill on this account. No claim in this regard shall be entertained.

NATURAL CALAMITY:

No payment will be made to the contractor for any damage caused by rain, snow fall, floods, dampness, fire, sun or any other natural cause whatsoever during the execution of work. The damage to the work due to above reason, if any, shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.

INSPECTION AND TESTING:

The Engineer-in-charge or his authorized representative may inspect any material at manufacturer's works and may witness routine tests as per relevant Indian Standard Specifications or other relevant specifications at manufacturer's works.

The contractor shall give in writing advance notice to the Engineer-in-charge and arrange for such inspection / presence for testing at manufacturers work. The TA/DA etc. of the departmental personnel who will be deputed to witness the tests etc. shall be borne by the Department.

The Engineer-in-charge or his authorized representatives shall have, at all the reasonable times, access to the contractor's premises or works or other works where manufacturing / fabrication shall be done and shall have the power, at all reasonable times, to inspect and examine the materials and workmanship during its manufacture or fabrication.

Inspection of imported materials at foreign works shall however not be carried out by the department. These materials shall be inspected and tested at site. Manufacturers' original test certificates and document of import / shipment should be provided to the department along with the materials without which no payment should be made to the contractor.

The contractor shall arrange for all the materials and labour required in connection with inspection of equipment or for any testing to be carried out at his works / manufacturers' works or at site of installation. Notice of such inspection / presence for testing shall be given by the contractor to the Engineer-in-charge at least fifteen days in advance.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

Notwithstanding approval for such tests / inspection of equipment's / components by the Engineer-in-charge or his authorized representative, the contractor shall be required to perform site tests as desired by the Engineer-in-charge and prove the correctness of ratings and performance of equipment's / components and materials supplied and / or installed by him as per contract specifications and conditions at his own cost.

The Engineer-in-charge reserves the right to reject any equipment / machinery / material should it, on tests after installation, be found not to comply with contract specifications or its performance is not satisfactory.

Final inspection and testing will be done by the engineer-in-charge or his representative as per details to be indicated by the engineer-in-charge.

It shall be the responsibility of the contractor to get the installation inspected and passed by the local authorities concerned, as may be required by the local bye laws. The contractor will extend all help including test facilities to the representatives of the local bodies. In case the contractor fails to make desired facilities available during inspection, the department reserves the right to provide the same at the risk and cost of the contractor. The observation of the local authorities will be promptly attended by the contractor. The installation will be accepted by the department only after receiving clearance from the local bodies / fire authorities. The inspection charges leviable by the local / statutory authorities for the inspection shall however, be borne by the department.

COMPLETION DRAWING AND MANUAL:

In addition to the mode and form of submission of completion drawings and manuals as stipulated in the relevant CPWD Specifications for various sub-heads of E&M works, the contractor shall also submit soft copy of the completion drawings in CD / DVD.

POWER SUPPLY AND WATER SUPPLY:

Electrical Power supply & Water Supply shall not be provided by the department for the purpose of execution & testing of the E&M work. The contractor shall make his own arrangement in this regards.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

WORKS TO BE DONE BY THE CONTRACTOR:

47

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost – whether specifically indicated in the schedule of quantity / work or not: Foundations for equipment / structures / fuel tank / pumps including vibration isolation spring / pads.

All minor building works necessary for installation of equipment such as making of openings in walls / floors, either of RCC or brick masonry, foundation trench for fuel line and cable, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.

Dismantling of brick wall, if any, for inserting / positioning / placement of equipment, Control panel / Diesel Tanks or for taking ducting / cable tray / pipes and rebuilding/ making good the same to its original position / finish.

Making good all damages caused to the structure during installation and restoring the same to their original finish.

Supply and installation of all necessary angle / channel / flat iron supports and brackets etc. for installation of the substation equipment, D.G. Sets / Diesel Tanks / Exhaust Piping / Water and fuel piping / Cabling / electric Panels / bus-trunking / pumps / air-conditioning ducts / air-conditioning equipment and their sub-assemblies / accessories on floor / wall / Shaft / terrace and at other places, as may be necessary including their installations in position.

Responsibility to ensure safety of all materials against pilferage and damage till the installation is handed over to the department.

All scaffolding as may be necessary for installation of Exhaust piping / Cabling / Electric Panels / exhaust pipe / DOWNCOMER and sprinkler pipes / ducts and all other equipment and their sub-assemblies / accessories on floor / wall / Shaft / terrace and at other places during erection work and subsequent removal.

Painting of all exposed metal surfaces of equipment and components with appropriate/ approved colour as required and as desired by the Engineer – in - charge.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

All electrical works including cables / wires, earthing etc. as specified in Schedule of work.

48

Small wiring, inter-connection etc. inclusive of all materials and accessories necessary to comply with the regulations as well as proper and trouble-free operation of the equipment.

Closing of the cable entry points in sub-station/electrical panel rooms etc. where ever applicable against seepage of water rodents etc.

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

DATE OF TAKING OVER OF THE INSTALLATION & DATE OF ACCEPTANCE:

The date of taking over of the installations under any sub-head of E&M works shall be the date of taking over the complete building (s) after due completion of the entire composite work and after complete test and trial run of all the major equipment under all sub-heads of E&M works to the entire satisfaction of the engineer-in-charge.

Subject to the guarantee clause, date of taking over the installation after stipulated period of trouble-free operation of all the E&M works shall be the date of acceptance.

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:

- Description of Schedule of quantities
- Particular Specifications and special conditions, if any
- Drawings
- CPWD specifications
- General conditions of contract 2023 for Construction works of CPWD
- Indian standard specifications of BIS
- Manufacturing specifications & as decided by Engineer-in-charge
- Relevant IS or any other international code in case IS code is not available

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

The responsibility of execution of E&M works under scope of NIT shall lie with Main composite Contractor only. He is required to furnish the documents/certificates in support of his experience to execute the mentioned specialized E&M as mentioned in the NIT after award of work. If the main agency does not have required experience, they must associate Specialized Agency/Agencies to execute the mentioned E&M components of the work having requisite experience as per “THE MINIMUM ELIGIBILITY CRITERIA FOR E&M COMPONENTS AND SPECIALIZED WORKS WHEREVER APPLICABLE” mentioned in the NIT.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

**ADDITIONAL CONDITIONS AND SPECIFICATIONS FOR THE WORK OF
INTERNAL & EXTERNAL ELECTRICAL INSTALLATIONS**

The wires / cables used for point wiring, circuit wiring, sub-main wiring, power wiring and other wirings shall be done by FRLS grade PVC insulated copper conductor single core cable of 1100 V grade and of makes as specified in the list of accepted makes of materials.

All the wires should be terminated to the switch box / DB / MCB etc. by crimping with suitable size tinned copper lugs, unless the wire is single stranded. For termination to switches soldering is permissible. Nothing extra shall be paid on this account.

Hidden / concealed items and earthing work shall be done in the presence of the Engineer-In-charge of the work or his authorized representative only. The contractor shall give due notice for such work in advance to the department.

The wireman / electrician engaged shall possess valid electrical workman permit in appropriate category as per rule.

The wireman / electrician engaged shall possess valid electrical workman permit in appropriate category as per rule.

All hardware, fastening material viz nuts, bolts, washer and screws etc. to be used on work shall be of zinc / cadmium plated iron.

The contractor shall have to furnish the insulation test report, earth test report, along with all required detailed of electrical load on the prescribed Performa for the electric connection from the supply company.

The contractor shall submit the completion certificates and completion plan as per clause 1.26 of General specification for Electrical work (Part-I internal)-2023

The chases in wall shall be done by chase cutting machines, for which the contractor shall arrange adequate numbers of chase cutting machines (chase cutters) for cutting chases in wall etc. for laying of conduit within the scope of work nothing extra shall be paid.

The contractor shall be entirely responsible and answerable for all the works done by him regarding quality, adherence to the laid down specifications, 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.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

The contractor is advised to visit the site before quoting for his tender to apprise himself about the site environment and other conditions. Drawings and inventories can be seen in the office of the Engineer – in – charge.

The contractor will make his own storage of his own materials. The watch and ward of the materials and of the installations would be responsibility of contractor till the work is completed / handed over to the department. Nothing extra shall be paid to the contractor on this account.

The contractor should use only the approved makes of materials in the work specified in the NIT.

The agency will provide lay out drawing prepared by his Engineer with consultation with Engineer-In-Charge or his representative for approval before executing of work. All multi data Mtrs specified in item shall be suitable to measure voltage, current, PF, Kwh, frequency etc.

The department reserves the right to send such materials to the manufacturers /authorized test laboratory to verify the genuineness and quality of the product.

The work shall be carried out in engineering like manner and bad workmanship shall be rejected summarily. For redoing the job, no claim of the contractor shall be entertained on this account.

Payment terms: 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 mentioned below:

Items of MCBDB, MCB, MCCB, UG Cable, LED fittings etc

S.N	Stage of Work	Percentage of Rate
a	On initial inspection of material and delivery at site in good condition on pro-rata basis	80%
b	On completion of installation on pro-rata basis	10%
c	On completion of testing and commissioning & handing over	10%

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

Items connected with point wiring, circuit wiring, sub-main wiring, power point wiring and light plug wiring

S.N	Stage of Work	Percentage of Rate
a	On laying of conduits with accessories, switch boxes, etc. on pro-rata basis	40%
b	On drawing of wires including terminations, switches, sockets etc. on pro-rata basis	40%
c	On completion of item and after testing and commissioning	20%

For other items, the part rates will be decided by the Engineer-In-Charge of the work and shall be binding on the contractor.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

**ADDITIONAL CONDITIONS AND SPECIFICATIONS FOR THE WORK OF
DGSET WORKS**

1.0 Design, Equipment, Selection, Deviations

- 1.1 The tenderer shall submit detailed schematic diagram for the approval of the Engineer-in-charge. He will make sure that the equipment offered shall fulfill the design conditions. All the equipments and their installation shall be suitable for the environmental conditions encountered at the location as indicated in specifications.
- 1.2 The acoustic enclosure (Canopy) shall be manufactured by respective engine OEM/OEA and should be CPCB norms compliant. Only model Numbers having Type Approval and valid conformity of production certificate for noise level as per CPCB norms shall be accepted. Copies of Type approval and COP certificate have to be submitted at the time of submission of drawings for approval.
- 1.3 The canopies manufactured by OEM/OEA are only acceptable.
- 1.4 The number and size of the MS pipe for exhaust piping shall be as per the recommendation of the engine manufacturer. Wherever 2 numbers exhaust pipes are recommended by the engine manufacturer, the number of silencer shall also be 2 numbers.

2.0 Conformity to Statutory Acts, Rules, Regulations, Standards and safety codes.

2.1 CPWD Specifications:

The entire work shall be carried out as per following CPWD General Specifications for Electrical works wherever applicable and as amended up-to-date.

- a) CPWD General Specification for Electrical works (Part-I) Internal – 2024
- b) CPWD General Specification for Electrical works, (Part-II) External - 2024
- c) CPWD General Specification for Electrical works, (Part-II) External - 2024
- d) CPWD General Specification for Electrical works (Part-VII) DG Set 2013

The tender specifications, wherever they differ from these specifications as indicated above, shall have overriding value and shall be followed for this work.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

2.2 Indian Electricity Act and Rules:

All electrical works in connection with installation shall be carried out in accordance with the provision of Indian Electricity Act 2003 and Indian Electricity Rules 1956, both amended up-to date.

2.3 Indian Standards:

All the components shall confirm to relevant Indian Standard specifications, wherever existing, amended to date.

2.4 Fire Regulation:

The installation shall be carried out in conformity with the local Fire Regulations and Rules there under wherever they are in force and the provisions in local bye-laws, if any.

2.5 Safety Code and Labour Regulation

- (i) In respect of all labour employed directly or indirectly on the work for the performance of contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S.recommendations, factory act, Workman's compensation act, CPWD Code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty for Rs. 2000/- per week for each violation. In addition the Engineer-in-Charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.
- (ii) In respect of all labour employed directly or indirectly on the work for the performance of contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S. recommendations, factory act, Workman's compensation act, CPWD Code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty for Rs. 2000/- per week for each violation. In addition the Engineer-in-Charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.

2.6 Central Pollution Control Board (CPCB) NORMS:

Approval/ clearance of the complete installation shall be obtained by the contractor from CPCB/ State pollution Control Boards/ Local Bodies/ Central Electricity Authority (CEA)/ 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.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

3.0 Scope of work

WORKS TO BE DONE BY THE CONTRACTOR

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost-whether specifically indicated in the schedule of work or not: -

- (i) Foundations for equipments including vibration isolation springs/ pads, making good all damages caused to the structure during installation and restoring the same to their original finish.
- (ii) Minor building works necessary for installation of equipments, foundation trench for fuel line & cable, making of opening in walls or in floors and restoring them to their original condition/finish and necessary grouting etc. as required.
- (iii) All supports for exhaust & water pipes, chimney, bus trunking (if included in scope of contract), cables, anti- vibration pads etc. as are necessary.
- (iv) All electrical work and neutral earthing, body earthing, required for engine & alternator, main board/ control panels, and control wiring including loop earthing, if specified in Schedule of Work.
- (v) All pipes, bus trunking and/ or cable connections.
- (vi) 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. After successful testing and commissioning of the D.G. Set a trial run at available load will be carried out for 120 Hrs or 15 days whichever is earlier. The D.G. Set will be operated and log of all relevant parameters will be maintained 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 the department. The date of taking over of the D.G. Set after trouble free operation during the trial run /running in period shall be the date of acceptance / taking over.
- (vii) Painting of all exposed metal surfaces of equipments and components with appropriate colour.
- (viii) Clearance/ Approval of the complete installation from CPCB/ State Pollution Control Board, Central Electricity Authority (CEA)/ Local Bodies and other licensing authorities, wherever required.

4.0 Acceptable make:

Approved makes of materials to be used in the work have been appended with tender Document.

5.0 Diesel Engine

5.1 Engine rating

The engines shall be of standard design of the original manufacturers. It should be 4 stroke cycles, water cooled, naturally aspirated / turbo charged (as per manufacturers standards) diesel engine developing suitable BHP for giving a power rating as per ISO 8528 part- I in KVA at the load terminals of alternator at 1500 RPM at actual site conditions.

The engines shall be capable for delivering specified prime power rating at variable loads for PF of 0.8 lag with 10% overload available in excess of specified output for one hour after every 12 hours. The average load factor of the engine over period of 24

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

hours shall be 0.85 (85%) for prime power output. The engines shall conform to BS 5514/ BS 649/ IS10000/ ISO: 3046 amended up to date.

6.0 **Control Panel**

6.1 Location:

Associated control panel of DG set can be located inside the acoustic enclosure or outside the acoustic enclosure as per the manufacturer's standard. In case the AMF panel is to be installed outside the acoustic enclosure, it should be closer to the acoustic enclosure in consultation with the Architect.

7.0 Foundation

Scope: This section covers details of foundations for DG set with acoustic enclosures. Genset with acoustic enclosure:

8.0 Acoustic enclosure

- 8.1 The enclosure shall be made of from OEMs only, who are approved / certified by CPCB.
- 8.2 The acoustic enclosure shall be designed and manufactured confirming to relevant standards suitable for outdoor installation exposed to weather conditions, and to limit overall noise level to 75 dB (A) at a distance of 1 metre from the enclosure as per CPCB norms, as amended up to date, under free field conditions.
- 8.3 The construction should be such that it prevents entry of rain water splashing into the enclosure and allows free & quick flow of rain water to the ground in the event of heavy rain. The detained construction shall confirm to the details as under:
- 8.4 The acoustic enclosure will be made on the basis of modular construction i.e made in parts and can be assembled or disassembled at site. All members will be properly gasketed and bolted together. The structure should be weather proof.
- 8.5 The enclosure will be totally enclosed type made of high quality CRCA sheet of thickness at least 16 SWG.(1.6 mm)
- 8.6 The sheet metal components shall be hot dip seven tanks pre-treated before powder coating. The enclosure shall be powder coated (inside as well outside) with a special pure polyester based powder.
All nut and bolts / external / hardware shall be made of Stainless Steel.
- 8.7 Sound proofing of the enclosure shall be done with high-quality Fire-Retardant insulation material i.e. Glass wool / mineral wool of appropriate thickness confirming to relevant IS. The sound proofing materials would be further covered with fine glass fiber cloth and would be supported by perforated MS sheet duly powder coated.
- 8.8 The doors shall be gasketed with high quality gaskets to prevent leakage of sound and the door handles shall be lockable type.
- 8.9 There shall be a provision for filling fuel from outside the enclosure with locking arrangement. Fuel tank should have provision for cleaning.
- 8.10 The provision of external drain plug shall be kept for draining lube oil and diesel.
- 8.11 Especially design attenuators shall be provided to control sound at air entry exit point.
- 8.12 Especially design residential silencer shall be provided within the enclosure to Reduce exhaust noise.
- 8.13 Adequate ventilation shall be provided to meet total air requirement. If necessary suitable numbers of axial flow fan and exhaust fan of suitable dia meter shall be provided as per manufacturer.

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

- 8.14 The temperature rise inside the enclosure should not be more than 50 C for maximum ambient above 40 deg.C and it should be below 100 C for ambient below 40 deg.C.
- 8.15 Temperature Control Relay which continuously indicates the inside temperature of the canopy with variable setting for tripping the generator.
- 8.16 There shall be a provision of emergency shutdown from outside the enclosure.
- 8.17 Acoustic enclosure will be provided with flexible exhaust pipe connection with adequate and suitable arrangement of mounting of the residential silencer mounted on the top and concealed in the body of the enclosure. The exhaust pipe will be provided with asbestos rope insulation of 10mm thick and covering with aluminium foil. The exhaust pipe inside the enclosure must be lagged (except below).
- 8.18 The DG set will be provided with special spring mounted vibration damper to eliminate the vibration when DG set is working on full load.
- 8.19 The front panel should include engine RPM meter electrically operated.
- 8.20 The Fuel gauge shall have electrically operated – fuel gauge shall have to inside the enclosure.
- 8.21 There should have a provision of DC Emergency light operated automatically with door opening.
- 8.22 The inside of the enclosure shall be illuminated by the suitable rating LED lamps/Fixtures controlled by a 5A switch for adequate lighting during servicing etc. of the DG Set. The power supply to this luminaire should be from the load side of the AMF Panel so that it can remain energized under all conditions.

9.0 Inspection and Testing

The successful tenderer will arrange staff / fuel / POL for test run at his cost.

- 9.1 Testing shall necessarily be carried out at factory / manufacturer premises in resence of representative of the department/as per decision of Engineer-in-Charge.
- 9.2 For testing following procedure will be followed: All major items / equipments i.e. engine and alternator in assembled condition, associated electrical control panels etc. shall be offered for inspection and testing at factory / manufacturers works. The successful tenderer shall give a notice of minimum two weeks for carrying out such tests. The Engineer-in-charge / or his authorized representative shall witness such inspection & testing at mutually agreed date. The cost of the Dept's representative's visit to the factory will be borne by the Department.
- 9.3 The department also reserves the right to inspect the fabrication job at factory and successful tenderer has to make arrangements for the same.
- 9.4 DG set will be tested on load of unity power factor for the rated KW rating. During testing, the DG set covered under scope of the work, shall be operated for a period of 12 hours on the rated KW at DG set's KW rating i/c 1 hour of 10% over load 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 dispatched to site only when the testing is declared successful by authorized representative / Engineer-in-charge.
- 9.5 Trial Run/ Running-in-Period
After successful testing of the DG Set, a trial run at available load will be carried out

I	Nil	AE(E)(P) EE(E)
O	Nil	
C	Nil	

for 120 Hours or 15 Days whichever is earlier. The DG Set will be operated and a log of all relevant parameters will be maintained 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 the 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.

9.6 Safety measures

All equipments shall incorporate suitable safety provisions to ensure safety of the operating personnel as per manufacturers' standard practice.

9.7 **STATUTORY CLEARANCE(S)**

Approval/ clearance of the complete installation shall be obtained by the contractor from CPCB/ State pollution Control Boards/ Local Bodies/ Central Electricity Authority (CEA)/ 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.

10 **TERMS OF PAYMENTS**

The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein.

S.N	Stage of work	Percentage of Rate	
		Dg set	All other Items
A	After initial inspection (Wherever specified) & delivery at site in good condition on pro-rata basis	70%	75%
B	On completion of pro-rata installation	20%	15%
C	On commissioning and completion of successful running in period & taking over of the equipment's by the department.	10%	10%

I	Nil	AE(E)(P)	EE(E)
O	Nil		
C	Nil		

LIST OF APPROVED MAKE OF MATERIALS

NOTE:

1. A List of Preferred Brand Names of Various Materials / Products are shown below for usage in execution of work. However, Approved equivalent material of any other Specialized Companies / Firms may also be used, in case it is established that the Brands Specified below are not available in the market or in other unavoidable circumstances and subject to Approval of the alternate Brand by the Superintending Engineer, CPWD, Hubballi.
2. It must be ensured, in general, that all materials to be used in the works shall bear BIS Certification mark. In case where for a particular material / product, BIS Certification Mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD specifications and relevant BIS codes. In such cases written approval of the Engineer – in – Charge shall be obtained before use of such material in their works.
3. The list given below does not absolve the Executing Agency from their responsibility for using these products. It is only after, they are satisfied about the quality and performance, the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.
4. In case make of any equipment or material is not specified in the NIT the decision of Engineer-In-Charge in this regard will be final.

Sl.No	Name of the Product	Approved Makes
1.	PVC INSULATED COPPER CONDUCTOR FRLS/HFFR COPPER ISI MARKED	HAVELLS/RR/KABEL/KEI/POLYCAB
2.	MCB / MCB DB / ISOLATOR /TIMESWITCH/CONTRACTOR /CABLE END BOX/ACB'S ETC.	LEGRAND/SIEMENS/SCHNEIDER/LAURITZ KNUDSEN ELECTRICAL AND AUTOMATION (L&T)
3.	XLPE UG ALUMINIUM/COPPER LT CABLE	HAVELLS/ KEI/ RR KABEL/ POLYCAB
4.	CABLE GLANDS AND CABLE LUGS	JAINSONS/COMET/DOWELLS /POLYCAB/GRIPWEL/RAYCHE M.
5.	DWC/HDPE	GEMINI/REX/DURALINE/TIRUPATI
6.	PVC CONDUIT (ISI MARKED) MEDIUM CLASS	AVONPLAST/AKG/PRECISION/MODI

I	Nil	
O	Nil	
C	Nil	
		AE(E)(P) EE(E)

7.	MODULAR SWITCHES & SOCKETS, FAN REGULATOR, RJ-45 DATA SOCKET / GI BOXES/TV/TELEPHONE SOCKETS	LEGRAND-MYRIUS/ NORTHWESTSTYLUS+ / SCHNEIDER (OPALE)/North west
8.	MS/GI PIPES WITH ISI	JINDAL/TATA/SAIL
9.	BLDC FANS (CEILING FANS)	ATOMBERG –EFFICIO HAVELLS /CROMPTON /ORIENT
10.	EXHAUST FANS / WALL FANS / PEDESTAL FANS	CROMPTON/ORIENT/ HAVELLS/ALMONARD
11.	ALL TYPES OF LED FITTINGS	CROMPTON / PHILIPS / WIPRO
12.	CABLE TRAYS & ACCESSORIES	PILCO/STEALWAYS/SLOTCO /BEC/OBO/ INDIANA/ PROFAB /MEM/BETTERMAN/RICO/ NEEDO
13.	ESSENTIAL PANEL/APFCPANEL / FEEDER PILLARS /METER BOARDS/ LT Panels	MANUFACTURER HAVING IN-HOUSE 7TANK PROCESS, POWDER COATING FACILITY, CNC MACHINE HAVING CPRI APPROVAL FOR RELEVANT BUS BAR RATING (THE DECISION OF THE ENGINEER – IN – CHARGE WILL BE FINAL AND BINDING).
14.	AMF Panel	MANUFACTURER HAVING IN-HOUSE 7TANK PROCESS, POWDER COATING FACILITY, CNC MACHINE HAVING CPRI APPROVAL FOR RELEVANT BUS BAR RATING (THE DECISION OF THE ENGINEER – IN – CHARGE WILL BE FINAL AND BINDING).
15.	CHANGE OVER SWITCHES ,SDFU	LEGRAND/SIEMENS/SCHNEIDER/ LAURITZ KNUDSEN ELECTRICAL AND AUTOMATION (L&T)
16.	MOULDED CASE CIRCUIT BREAKER/MOTOR PROTECTION CIRCUIT BREAKER ELECTRIC/ RESIDUAL CURRENT CIRCUIT BREAKER	LEGRAND/SIEMENS/SCHNEIDER/ LAURITZ KNUDSEN ELECTRICAL AND AUTOMATION (L&T)
17.	MS CONDUITS (ISI MARKED)	AKG/BEC/RMCON / STEEL KRAFT
18.	LOOPING BOX	SINTEX / ELECTRO FIBRE / ENSEL
19.	HT END TERMINATION / CABLE JOINING KIT	3M / TROPOLIN / DENSONS / RAYCHEM / M SEAL / CCI / CAB SEAL /SAFE KEI
20.	CTs / PTs	Kappa / AE / Savio / ECS / Kalpa / Precise / L&T

I	Nil	AE(E)(P)	EE(E)
O	Nil		
C	Nil		

21.	PVC TRUNKING	MK/ SCHNEIDER ELECTRIC/ LEGRAND
22.	OVER LOAD RELAYS	SCHNEIDER ELECTRIC/ L&T/ SIEMENS/C&S/ABB
23.	TIMER	SCHNEIDER ELECTRIC/ LEGRAND /HAGER / L&T/ABB/SIEMENS/C&S
24.	HT END TERMINATION/CABLE JOINING KIT	3M / TROPOLIN / DENSONS / RAYCHEM /M SEAL / CCI / CAB SEAL /SAFE KEI
25.	CABLE GLAND/ LUGS/ THIMBLES	COMMET / DOWELLS /RAYCHEM / WAGO/ ELMEC / BRACO/GRIPWEL
26.	ELECTRICAL STARTERS, RELAYS	SIEMENS/ L&T/ ABB/ C&S /SCHNEIDER /HAVELLS / LEGRAND / INDOASIAN
27.	DIESEL ENGINE	CUMMINS / CATERPILAR / ERKINS /MITSUBISHI / KIRLOSKAR – KOEL GREEN
28.	ALTERNATOR	KIRLOSKAR – GREEN / STAMFORD /LEROY SOMER / CROMPTON
29.	MS CHANNELS, STEEL TMT BARS, MS PIPES	SAIL / JINDAL / TATA / RMNL VIZAG
30.	FIRE EXTINGUISHERS	SAFEX / CEASE FIRE / KANEX /MINIMAX/AFO
31.	ALL OTHER ITEMS NOT COVERED ABOVE	AS PER APPROVAL OF THE ENGINEERIN- CHARGE.

Executive Engineer (E)
CPWD, Hubballi

I	Nil		
O	Nil		
C	Nil		
		AE(E)(P)	EE(E)