





Government of India
Central Public Works Department
O/o Executive Engineer (E)
CPWD, Jaipur

NOTICE RE-INVITING TENDERS

N.I.T. No. : 26/EE(E)/CPWD/Jaipur/2026-27/AE(E)-Bikaner/RECALL -1st

Name of Work : Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.).

Estimated Cost : Rs. 7,82,506/-

Earnest Money : Rs. 15,650/-

SECURITY DEPOSIT : 2.5% of Tenderer Amount

TIME ALLOWED : 03 Months

Executive Engineer (E)
CPWD, Jaipur

Annexure 'A' CPWD

INVITING NOTICE e-TENDER

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

The Executive Engineer (E), Jaipur Central Electrical Division, CPWD, Sector-10, Vidhyadhar Nagar, Jaipur (Phone No.0141-2233688) on behalf of the President of India re-invites online **Percentage Rate E-Tenders** on single bid system from contractors of CPWD who are approved and eligible for Building & Roads category in appropriate class, for the following work:

S N.	**NIT NO.**	**Name of work & Location**	Estimated cost put to tender	Earnest Money	Period of completion	Last date & time of submission of bid, original EMD, copy of receipt for deposition of original EMD and other Document as specified in the press notice	Time & date of opening of Price bid
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1	26/EE(E)/CPWD/Jaipur/2026-27/AE(E)-Bikaner /RECALL -1st	Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)	Rs. 7,82,506	Rs 15,650/-	03 Months	Upto 3.10 PM 03/11/2026*	At 3.40 PM 03/11/2026*

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he consider himself eligible and he is in possession of all the documents required.

2. The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineer/Assistant Engineer (Phone No. 0141-2233688 E-Mail ID jced-cpwd-rj@gov.in) or ERP help line no. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

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

4. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and

downloaded from website **www.etender.cpwd.gov.in** and www.eprocure.gov.in free of cost.

5. But the bid can only be submitted after depositing of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission, and uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker`s Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer, (including NIT issuing EE/AE) C.P.W.D and other documents NIT issuing EE/AE) as specified.

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

7. Stamp duty tax applicable as per Govt. of Rajasthan, Finance Department (Tax Division), Jaipur vide Notification N. एफ–2(31)एफ.डी./टैक्स/2019–253 दिनांक 06.11.2020 under GCC Clause 34.

8. The intending bidder must have valid class-III digital signature to submit the bid.

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

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

11. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".

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

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

(i) Treasury Challan /Demand Draft / Pay order or Banker`s Cheque / Deposit at Call Receipt/ FDR/ Bank Guarantee of any scheduled Bank against EMD,and hard copy of the same EMD have to be deposited physically in Division Office of any Executive Engineer inviting bids or division office of Executive Engineer, CPWD within the period of Bid submission. The same should also be Scanned and Uploaded by the intending bidders.

(ii) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD (including NIT issuing EE/AE), CPWD.

(iii) **Enlistment Order** of the Contractor in CPWD in Composite Category, if applicable and valid on the date of opening of tender. Enlistment order issued by enlistment authority, with validity duly extended, in favour of the CPWD contractor shall only be considered.

(iv) Copy of certificate of compulsory ERP Training obtained by enlisted contractor either himself or his authorized representative.

(v) GST Registration Certificate if already obtained by the bidder.

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

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

(vi) Letter of transmittal /submission of bid as per **Annexure-1.**

(vii) **Any other document as specified in the NIT.**

Executive Engineer (E)
C.P.W.D., Jaipur

Receipt of deposition of original EMD

(Receipt No. ……../date ……..)

	Name of work		Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.) .
	NIT No		26/EE(E)/CPWD/Jaipur/2026-27/AE(E)-Bikaner/Recall-1st
	Estimate Cost		**Rs. 7,82,506/-**
	Amount of Earnest Money Deposit		**Rs. 15,650/-**
	date of submission of bid		**03/11/2026* upto 15:10 Hrs.**
			(# To be filled by EMD receiving EE)
	Name of Contractor		……..#……..
	Form of EMD		……..#……..
	Amount of Earnest Money Deposit		F ……..#……..
	ate of submission of EMD		……..#……..

Signature, Name and Designation
Of EMD receiving Officer (EE/DDH)
Along with office stamp

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

Note : The receipt can also be issued by any subordinate Gazetted authority as authorized by the Engineer-in-Charge/DDH.

FORM "B"

Undertaking regarding obtaining GST registration Certificate

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 account of the work executed and/or for any action taken by CPWD or GST department in this regard.

Signature of Bidder(s) or an authorized Officer of the firm with stamp

Annexure-1

INFORMATION REGARDING Bidder

LETTER OF TRANSMITTAL/Submission of Bid

From : (Bidders Name)

To

The Executive Engineer (Elect.)
CPWD, Jaipur.

Subject: Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)

Having examined details given in Tender Notice and bid document for the above work, I/we hereby submit the bid with requisite information & documents.

1. I/We hereby certify that all the information and documents submitted with the bid are true and correct.

2. I / We have furnished all information and details necessary for eligibility and have no further pertinent information to supply.

3. I/We also authorize Executive Engineer, Jaipur Central Electrical Division, CPWD, Jaipur to approach individuals, employers, firms and corporation to verify our competence and general reputation.

4. Our Current Contact address, email and telephone number details are as under:

   Name of Bidder/Authorized Person of Bidder:

   Contact Address of Bidder:
   Email of Bidder:
   Telephone Number of Bidder:

Seal of bidder Date of submission :	Signature(s) of Bidder(s)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/Manual-2024/20

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi Dated: 27.02.2026

Sub: Modification in Para 5.2 for CPWD Works Manual 2024.

Following modification is made in Para no. 5.2 for CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.2 Performance Guarantee Sl. No. 1 **2.** PG shall be 5% of the contract amount or as prescribed from time to time to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of sixty days beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.	**5.2 Performance Guarantee** **No Change** **2.** PG shall be 5% of the **Estimated cost put to tender (ECPT) or** contract amount **whichever is higher,** or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of **six months** beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.
Sl. No. 3	**No Change**
4. No provision	**4. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.**
5. No provision	**5. Requirement of Additional Performance Guarantee (APG) : In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be**

27/2/26 P. Jindal EE(Contract)

	0.8A – 0.7A). **The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.**

This is issues with the approval of DG CPWD.

27.02.2026

((चन्द्र पाल)
अधीक्षण अभियंता (सी एंड एम)
Chander Pal, SE (C&M)

Issued from file No. CSQ/CM/16(1)/2026 e-file 9212995 (DFA/ 9365789)

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

27/2/26

D.P. Jindal
EE (Contract)

PART-"A"

CPWD-6 CPWD

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

The Executive Engineer (E), Jaipur Central Electrical Division, CPWD, Sector-10, Vidhyadhar Nagar, Jaipur (Phone No.0141-2233688) on behalf of the President of India re-invites online **Percentage Rate E-Tenders** on single bid system from contractors of CPWD who are approved and eligible for Building & Roads category in appropriate class, for the work of **" Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)**

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

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

1.1 The work is estimated to cost **Rs. 7,82,506/-** This estimate, however, is given merely as a rough guide.

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

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

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website **www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be 03 Months from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. The site for the work is available. **(Site available) √**

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

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

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

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

9. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker`s Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer (E), Jaipur Central Electrical Division, CPWD, Jaipur** 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 inviting bids or division office of any Executive Engineer, CPWD within the Period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting Executive Engineer in the NIT.
This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time

10. 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 lacs, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week Physical EMD of the scanned copy of EMD uploaded shall must have to be deposited in Division Office.

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

The bid submitted shall be opened at **3:40 PM on 03/11/2026***

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

(i) The bidder is found ineligible.

(ii) The bidder(s) does not upload all the documents (including GST registration) as stipulated in the bid documents including declaration of EMD**.**

(iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.

The contractor whose bid is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the bidded amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank / Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank /Pay order of any Scheduled Bank (in case guarantee amount is less than Rs. 1,53,505 /-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F'. including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.

11. Intending bidders are advised to inspect and examine the site and its

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

12. 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.

13. 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.

14. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.

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

contractors of this Department.

16. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

17. The bid for the works shall remain open for acceptance for a period of **Thirty (30) days** from the date of opening of bids in case of single bid system and 75 (seventy five) days from the date of opening of technical bid in case bids are invited on 2 or 3 bid system. Further (i) If any tenderer with draws his tenders or makes any modifications in the terms & conditions of the tender which is not acceptable to the department within 7 days after opening of tender (excluding date of opening of tender (excluding date of opening of tender) then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely. (ii) After 7 days of opening of tender the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely.

(iii) The bidders shall not be allowed to participate in the rebidding process of
the work.

18. Forfeiture of Earnest Money – (i) If any tenderer with draws his tenders or makes any modifications in the terms & condition of the tender which is not acceptable to the department within 7 days after opening of tender (excluding date of opening of tender) then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely. (ii) After 7 days of opening of tender the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely.

19. This notice inviting Tender shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -

a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

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

Executive Engineer (Elect)
CPWD, Jaipur

No. 54(PWD-6)/AB/JCED/CPWD/2026/ Dated: - 1

Copy to: -

1. Chief Engineer, CPWD, Nirman Bhawan, Sec-10, VDN, Jaipur for information.
2. Assistant Engineer(E), Jaipur Central Electrical Sub Division-I, CPWD, Jaipur.
3. Assistant Engineer(E), Jaipur Central Electrical Sub Division-II, CPWD, Jaipur
4. Assistant Engineer(E), Ajmer Central Electrical Sub Division, CPWD, Ajmer
5. Assistant Engineer(E), Bikaner Central Electrical Sub Division, CPWD, Bikaner
6. Assistant Engineer(E) P, Jaipur Central Electrical Division, CPWD, Jaipur.
7. Notice Board.
8. Cashier.
9. File No. Concern File

Executive Engineer (Elect.)
CPWD, Jaipur

(**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 Rs. ……. ……. (Rupees ……..……..……..……only) valid upto ……..……..……. (date)* …… as Earnest Money Deposit from ……..…… (name and address of contractor) ……..…… (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the Executive Engineer ……..……. (name of division) ……..……..…….. , CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number……..…… with ……..…… (name and address of the contractor) ……..……..…….. (hereinafter called "the Contractor") for execution of work ……..…… (name of work) ……..……. The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. ……..…… (Rupees……..…… only) valid upto……..…….. (date) ……..…… as Performance Guarantee/Security Deposit/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 to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. ……..……. (Rupees ……..……. only) on demand by the Government within 10 days of the demand.

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

4. We, ……..……. (indicate the name of the Bank) ……..……..……., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank

Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

5. We, ……. (indicate the name of the Bank) ……., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, ……. (indicate the name of the Bank) ……., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

8. We, ……. (indicate the name of the Bank) ……., undertake not to revoke this guarantee except with the consent of the Government in writing.

9. This Bank Guarantee shall be valid up to……. ……. unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. ……. (Rupees ……. only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.
   Date ……

Witnesses:

1. Signature……..
   Name and address

Authorized signatory
Name
Designation
Staff Code No.
Bank Seal

2. Signature……..
Name and address

*Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.
**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.

AFFIDAVIT

I / We have submitted a bank guarantee for the work _____*(Name of work)*
Agreement No. _____
Dated _____from_____
(Name of the Bank with full address) to the Executive Engineer _____with a view
(Name of the Division)
to seek exemption from payment of performance guarantee in cash. This Bank guarantee expires on _____. I / We undertake to keep the validity of the bank guarantee intact by getting it extended from time to time at my / our own initiative up to a period of _____ months after the recorded date of completion of the work or as directed by the Engineer in charge.

I / We also indemnify the Government against any losses arising out of non-encashment of the bank guarantee if any.

(Deponent)
Signature of Contractor

Note: The affidavit is to be given by the Executants before a first class Magistrate.

C.P.W.D.-7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: Rajasthan ZONE: CE, Jaipur DIVISION : JCED

Percentage Rate Tender & Contract for Works

Tender for the work of " Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)".

(i) To be uploaded by 3:10 PM on 03/11/2026* to Executive Engineer (E), Jaipur Central Electrical Division, CPWD, Jaipur/ upload at website www.etender.cpwd.gov.in and www.eprocure.gov.in

(ii) To be opened in presence of tenderers who may be present at 3:40 PM on 03/11/2026* in the office of Executive Engineer (E), Jaipur Central Electrical Division, CPWD, Jaipur.

TENDER

I/We have read and examined the Notice Inviting Tender, Schedule A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rate 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 / Special conditions, Designs, Drawings and instructions in writing as referred to in this tender document and with such materials as are provided for, by and in respects in accordance with, such conditions so far as applicable.

I/we agree to keep the tender open for **30 (Thirty) days** from the due date of its opening in case of single bid system ~~**75 (Seventy Five) days** from the date of opening of technical bid in case tenders are invited on 2 /3 bid/ system for specialised work~~ and not to make any modification 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 Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank is scanned and uploaded. If I/we fail to furnish the prescribed Performance Guarantee within prescribed period, I/we agree that the President of India or his successor 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 the work as specified. I/we agree that President of India or his
successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said Performance Guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated: XX

Signature of Contractor

.....

Witness: - XX

Address: - XX

Occupation: - XX

Postal Address: -

Telephone No.

Fax:-

E-Mail:-

ACCEPTANCE

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

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

(a)

(b)

(c)

For & on behalf of the President of India.

Signatures.....

Dated: Designation.....

(xxx) – to be filled by EE.

SCHEDULE 'A' to 'F'

SCHEDULE 'A'

Schedule of quantities : **As per BOQ attached on page no. 62-67**

SCHEDULE 'D'

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

1. Additional Conditions
2. Additional Specifications
3. Special Conditions

SCHEDULE 'E'

Reference to General Conditions of Contract:

General Conditions of Contract 2023 for Maintenance Works in CPWD as amended / modified upto the previous date of submission of Bid.

Name of Work : **Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)**

Estimated Cost of work: **Rs. 7,82,506/-**

Earnest Money : **Rs. 15,650/-**
(to be returned after receiving performance guarantee)

Performance Guarantee: (a) **5% (Five percent)** of tendered value **OR Estimated cost Put to Tender (ECPT) (whichever is higher)** as per **OM NO. DG/CON/Construction 2023/20 dated 27.02.2026.**

(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.

Security Deposit: 2.5% of the accepted tendered value of work

SCHEDULE 'F':

General Rules & Directions:-

	Officer Inviting Tender	**:**	**Executive Engineer (E) CPWD, Jaipur**
	Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	**:**	Refer Clause-12
	Definitions:-		
2 (v)	Engineer-In-Charge	**:**	**Executive Engineer (E) CPWD, Jaipur or successor thereof**
2 (viii)	Accepting Authority	**:**	**Executive Engineer (E) CPWD, Jaipur**
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits	**:**	15%
2 (xi)	Standard Schedule of Rates (Electrical)	**:**	DSR(E&M) 2025 for electrical works with up-to-date correction slips & Market rates
2 (xii)	Department	**:**	Central Public Works Department
9(ii)	Standard CPWD Contract (civil & electrical)		General Conditions of Contract 2023 for Maintenance works, CPWD Form-7 as amended / modified upto the previous date of submission of Bid
Clause-1			
(i)	Time allowed for submission of performance guarantee, Programme Chart (Time and progress) and applicable Labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including provident fund Code No. or proof of applying thereof from the date of letter of		**07 days**

	acceptance.		
(ii)	Maximum allowable extension with late fee @ **0.1 % per day** of performance guarantee amount beyond the period as provided in (i) above		**03 days**
Clause-2	Authority for fixing compensation under clause-2.		**Executive Engineer (E), CPWD, Jaipur or his successor thereof.**
Clause-5	Number of days from the date of issue of letter of acceptance for reckoning date of start.		10 days

TABLE OF MILE STONES

S. No.	**Description of Milestone (Physical & Financial)**	**Time allowed in days (from date of start)**	**Amount to be with-held in case of non-achievement of milestone**

Time allowed for execution of work	:	**03 (Three) Months**

Authority to decide			
(i)	Extension of time for completion of work.	**:**	**Executive Engineer (E) CPWD, Jaipur**
(ii)	Re-scheduling of Mile stone	**:**	**Executive Engineer(E), CPWD, Jaipur or his successor thereof**
(iii)	Shifting of date of start in case of delay in handing over of site.	**:**	**Executive Engineer(E), CPWD, Jaipur or his successor thereof**

Proforma of Schedule:

Clause-5

Schedule of handing over of site:

Part	**Portion of Site**	**Description**	**Time Period for handing over reckoned from date of issue of letter of intent**
Part A	**Portion without any hindrance**	Full site	07 Days

Part B	**Portions with encumbrances**	NIL	Not Applicable
Part C	**Portions dependent on work of other agencies**	NIL	Not Applicable

Schedule of issue of Designs:

Part	Portion of Design	Description	Time Period for issue of design reckoned from date of receipt of tenders
Part A	**Portion already in NIT**	As per the scope of work mentioned in the bid document.	
Part B	**E&M Designs to be issued**	All required designs & drawings of services of E&M works covered in the scope of the work.	To be submitted by the contractor for approval of the Department as per NIT conditions and as per the milestones mentioned.

Clause-5.2	Nature of Hindrance Register (either Physical or Electronic)	**Online system**
CLAUSE 5.4	Schedule of rate of recovery for delay in submission of the modified programme in terms of delay days. Recovery to be made on per day of delay at the rate specified as under :-	As per table below
SI. No.	**Contract Value**	**Recovery (Rs)**
I	Less than or equal to Rs 1 Crore	500
II	~~More than Rs 1 crore but equal to Rs 5 Crore~~	~~1000~~
III	~~More than Rs 5 crore but equal to Rs 20 Crore~~	~~2500~~
IV	~~More than 20 Crore~~	~~5000~~
Clause-6	Computerised Measurement Book (CMB) / Electronic Measurement Book (EMB) Mode of Measurement :	**EMB**
Clause-7	Gross work to be done	**Rs. 2.00 Lakh**

	together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.		
Clause-7A	Whether Clause-7A shall be applicable.		**Yes**
Clause-7B	Payment to Third Party		**Applicable**
CLAUSE 8A			
	Authority to decide compensation on account if contractor fails to submit completion plans.		**Executive Engineer (E) CPWD, Jaipur or his successor thereof**
Clause-10A	**List of testing equipment to be provided by the contractor at site lab**		As per requirement of work and instructions of Engineer-in-charge.
Clause-10B(ii)	Whether clause 10-B(ii) shall be applicable.		**No**
Clause-10C			**Not Applicable**
Clause-10CA			**Not Applicable**
Clause :10CC			**Not Applicable**

Clause-11	Specifications to be followed for Execution of work	(A) C.P.W.D. Specifications 2019 Vol. I & II with correction slips upto the previous date of submission of Bid and as per manufacturer's specification i/c special conditions & particular specifications (for Civil items) (B) CPWD General Specifications for Electrical Works as amended up-to date, correction slip relevant IE Rules, BIS / IEC (for E&M items)

Clause-12	**Type of work**	**Upgradation/Maintenance Work**
	Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2C	**See Below**

12.2C	Deviation Limit beyond which clauses12.2C shall apply	**No Limit**
Clause-16	Competent Authority for deciding reduced rates	**Chief Engineer, CPWD, Jaipur**
Clause-18	List of mandatory machinery, tools & plants to be deployed by the contractor at site:	As per requirement of work and instructions of Engineer-in-charge.
Clause-19	Competent Authority to decide penalty for each default	
Clause 19C	Competent Authority to decide penalty for each default	**Executive Engineer (E) CPWD, Jaipur or his successor thereof**
Clause 19D	Competent Authority to decide penalty for each default	**Executive Engineer (E) CPWD, Jaipur or his successor thereof**
Clause 19G	Competent Authority to decide penalty for each default	**Executive Engineer (E) CPWD, Jaipur or his successor thereof**
Clause 19K	Competent Authority to decide penalty for each default	**Executive Engineer (E) CPWD, Jaipur or his successor thereof**
Clause-25		
(i)	Conciliator	SDG-Chandigarh
(ii)	Arbitrator Appointing Authority	Chief Engineer (Jaipur) CPWD, Jaipur
(iii)	Place of Arbitration	Jaipur / Online
Clause-32	**"Requirement of Technical Representative (s) and Recovery Rate"**	

	Requirement of Technical Staff		**Minimum experience (Years)**	**Designation of Technical Staff**	**Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Cl. 32**
S. No	**Qualification**	**Number**			**Figures**

1.	Graduate or Diploma Engineer	1	2 or 5 Years respectively	Project/Planning/Quality/Site/ Billing Engineer	Rs. 15,000/- Per month per person

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 repute 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.

(**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

10. 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 Rs. ……. ……. (Rupees ……..……..……..……..……only) valid upto ……..……..……..……. (date)* …… as Earnest Money Deposit from ……..……. (name and address of contractor) ……..……. (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

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

11. We, ……..……..……. (indicate the name of the bank) ……..……..……. (hereinafter referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. ……..……..……. (Rupees ……..……..……. only) on demand by the Government within 10 days of the demand.

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

13. 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.

14. 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.

15. 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.

16. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

17. We, ……..…… (indicate the name of the Bank) ……..……, undertake not to revoke this guarantee except with the consent of the Government in writing.

18. This Bank Guarantee shall be valid up to……. ……. unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. ……..……. (Rupees ……..……..……. only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.
Date ……

Witnesses:

1. Signature……..
Name and address

Authorized signatory
Name
Designation
Staff Code No.
Bank Seal

2. Signature……..
Name and address

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

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

SECTION-I
BRIEF PARTICULARS OF THE WORK

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

Sl. No.	Name of work	Estimated Cost	Period of completion
1.	Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.) .	**Rs. 7,82,506/-**	03 (Three) Months

2. The work is situated at " **Income Tax Office, Sikar ".**

3. Scope of work **" Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)".**

4. Work shall be executed according to General Conditions of Contract for Central P.W.D. Works available separately at printer's outlets. The bidder may obtain the address of the outlets from the, **Executive Engineer (E), CPWD, Jaipur**. The General Conditions of Contract for Central Public Works Department are also available on web site www.cpwd.gov.in.

ELIGIBILITY CRITERIA FOR SPECIALISED E&M WORKS

The contractor shall have to associate other agency(s) for execution of each of the work(s), which fulfils the eligibility criteria as defined after taking prior approval. The 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 contractor shall also be eligible to carry out himself any or all of these works without associating any specialized agency provided: -

a) He fulfils the prescribed eligibility criteria respectively for these work(s).

OR

b) He directly procures the equipment of approved make from manufacturer and gets it installed from authorized agency / service provider of the manufacturer.

OR

c) Specialized agency as per criteria mentioned below.

S. no	Component of E&M works	Eligibility
1	D.G. Set	Experience of having successfully completed works during last seven years ending previous day of last date of submission of application. a) One work of financial value not less than Rs. 6.26 lacs with capacity of 80% of individual DG Set OR b) Two works each of financial value not less than Rs. 4.70 lacs with capacity of 80% of individual DG Set OR c) Three works each of financial value not less than Rs. 3.13 lacs with capacity of 80% of individual DG Set Similar works means Supply, Installation, Testing and Commissioning of DG Set

In addition to this the associated agency has to submit an Affidavit as under: -

"I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for associated agency in CPWD in future forever."

CONDITIONS FOR ENGAGEMENT OF ASSOCIATED AGENCIES FOR E&M WORKS

1. The lowest tenderer has to submit electrical contractor license and experience certificate issued by competent authority within two weeks of award of work in case he himself is eligible for carrying internal EI & other specialized E&M work as per eligibility criteria mentioned in **Schedule-F**, and if not, then he will associate specialized agencies as per eligibility criteria mentioned in **Schedule-F.** The main contractor shall submit the details of such specialized agencies to be associated in **Annexure-A** within two weeks of award of work. Following documents for association of electrical contractors for internal EI work or other specialized E&M Works shall be submitted by main contractor to the Executive Engineer (E), Jaipur Central Electrical Division, CPWD, Jaipur in charge for deciding the eligibility: -

A. Willingness from an eligible electrical contractors/specialized agency to get associated with the applicant for execution of the electrical component of works as per the conditions set out in the MOU as per the proforma given in **Annexure-B** to be signed between the contractor and the associated eligible electrical contractor/ specialized agency.

B. ~~For association of Electrical contractor for electrical works: -~~
~~(i) Copy of their registration documents with CPWD (if applicable)~~
~~(ii) Copy of Electrical Contractor's License issued by competent authority~~
~~(iii) Copy of Goods and Service Tax (GST) Registration~~
~~(iv) Copy of ESIC and EPF Registration.~~

OR

For association of Electrical contractor for specialized E&M works: -
(i) Copy of Completion Certificate as per eligibility criteria mentioned in Schedule-F issued by competent authority.
(ii) Copy of Valid electrical contractor license
(iii) Copy of Goods and Service Tax (GST) Registration
(iv) Copy of ESIC and EPF Registration.

(Copy of all above documents will be self-attested by the main agency and associated agency.)

C. MOU signed on Rs. 100/- with eligible electrical contractor/specialized agency meeting the eligibility criteria and same as specified for specialized works. The MOU in the enclosed form as per **Annexure-C** shall be signed by both the parties i.e. contractor as 1st party and associated electrical contractor as 2nd party.

2. In the event of the concerned E&M agency not performing satisfactorily

or failure of associate to complete the E&M work, the contractor on the written direction of the department, shall remove the Associate deployed on the work and shall submit name of new associate who fulfill the conditions mentioned in NIT to execute the leftover work without any loss of time or variation in cost to the department in this regard. Contractor shall meet all the guarantee for the equipments already supplied for which payment has been released by the Deptt. in part. If any equipment supplied for the work, during the currency of the earlier Associate and paid partly by the Deptt., 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 contractor shall be liable for replacement of the equipment(s) at no cost to Department**.** No change of Associated Electrical Contractor /Specialized Agency will be allowed without prior approval of the EE(E) Jaipur Central Electrical Division, CPWD, Jaipur.

3. The contractor/ specialized agency 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.

4. The associate contractor/specialized agency along with contractor shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.

5. The associate or contractor/specialized agency shall sign a tripartite Agreement/Contract along with the main tenderer and the departmental officer, for technical compliance of specification, guarantee etc.

6. The associate or contractor/ specialized agency shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.

Annexure-A

PROPOSAL FOR ASSOCIATING ELECTRICAL AGENCIES for ELECTRICAL INSTALLATION

We hereby propose the following electrical agencies as per details mentioned against each. Their Willingness Certificates are also attached as per **Annexure-B**.

S. No.	Name of electrical contractor/ Firm	Category and class of registration in CPWD	Registration No.	Electrical License	Validity of registration	Consent letter attached (yes/No)
1.						
2.						
3.						

Note: - A copy of registration order shall be attached for each agency.

Contractor's signature

Annexure-C

Memorandum of understanding
Rs. 100/- Non-judicial stamp

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

Between

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

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

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

Name of work: **Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)**

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

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

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

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

1. The associated contractor shall completely execute, perform and do all the works mentioned and described in the main agreement for its water

proofing work components according to the specifications, terms and conditions etc. of the main agreement.

2. The associated contractor shall execute and complete the works in all respect up to full satisfaction of the CPWD officers and attend to them during their inspection at site, meetings etc., whenever required by the CPWD officers.
3. The cost of water proofing work executed by the associated contractor will include the cost of all the materials, accessories, equipments, tools & plants, laborers technical persons required etc. in all respect.
4. The associated contractor is responsible for getting recorded measurements and preparation, submissions & pursuance of payment of the bills of the work done for electrical portion of the main agreement.
5. The rate will be as per the schedule enclosed.
6. The Quantity will be as per actual measurement as received from CPWD to main contractor and the rate will be as per the mutually agreed.
7. The payment to associate contractor will be released after the payment to main contractor is made by the CPWD.
8. The technical staff required for the associate discipline shall be of associate contractor.
9. The guarantee of the execution after the completion of the work shall be responsibility of the associate contractor as required by the CPWD.
10. There is Service Tax (GST) liability; work being related to the construction of the Central Govt. Deptt. However, if any liability of the Service Tax (GST) is imposed on the associated contractor then it will be paid by main contractor.
11. Either party shall not repudiate the contract in mid-way without the consent of each other. Otherwise, it will be treated as breach of agreement for any reason whatsoever.
12. The main agency shall be solely responsible for deferment & rescheduling of each milestone fixed as per contract documents and in such eventuality, the consequences arising out of the same rests on main agency.
13. The main contractor only shall be responsible for getting extension of delay regularized and liability what so ever flowing out shall lies with them. There shall be no direct or indirect impact on associate contractor.
14. TDS shall be deducted by the main contractor as per Income Tax law from associated agency. In case liability of tax other than Income Tax (Such as GST, or any other mechanism formed) is levied on associated contractor then the main agency will reimburse it in full to associated agency.
15. The associated contractor shall be bound to execute work up to a deviation limit as specified in schedule F, clause 12 in quantities of items of work at

the agreement rate. Beyond deviation limit the rates will be decided by main & Associated contractor on mutually agreed basis.

16. For the items such as extra items, substitute items and new items other than the items of main agreement, if any incorporated in the work, then the main contractor shall pay the full amount so approved to the associate contractor.
17. The validity of rates shall be _____ months after finalization & acceptance of MOU by the competent authority.
18. In case main contractor delays the payment to associated contractor after the payment is released by department to the main contractor then on receipt of delay in payment from associate contractor the CPWD shall directly make the payment to associated contractor.
19. The main contractor shall at their cost provide necessary requisite arrangement for storage of material.
20. Sand & cement used in the electrical work shall be provide by main contractor.
21. Security Deposit as deducted by the CPWD will be reimbursed by main contractor to associate contractor. However associated contractor will deposit 2½% of Agreement amount of Rs. _____ in shape of FDR towards S/D to be retained by main contractor which will refunded to associated contractor after completion of electrical work.
22. The Income tax, Commercial tax and labour Cess tax deducted by the CPWD from the bills of water proofing work shall be reimbursed by the main contractor in favour of the associated contractor accordingly.

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

Enclose: - Schedule of rates.

Signature Signature

(Associate Contractor) (Major Contractor)

Address: _____ Address: _____

WILLINGNESS CERTIFICATE

Name of work: Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.) .

I hereby give my willingness to work as Associate Specialized Agency for electrical component of the above mentioned work.

I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer-in-Charge. Also, I will engage full time technically qualified supervisor/engineer for the works. I will attend inspection of officers of the department as and when required.

Dated:

Signature of the Associate Specialized Agency

GENERAL CONDITIONS

Location: The generating set will be installed at **Income Tax Office, Sikar (Raj.) ".**

The intending tenderers are requested to visit the site after taking permission from Executive Engineer (E), JCED, CPWD, Jaipur. No claim whatsoever shall be entertained for lack of information on this account, which the tenderer is expected to have.

If the tenderers feels that specific departure from specifications are necessary for meeting requirements stipulated for any item, they may submit a list of such departures or proposed change in specifications. If found necessary a corrigendum to the tender documents will be issued to all the intending tenderers and thereafter no further query/condition, change in technical specifications shall be entertained.

The tenderer is advised not to leave blank or write irrelevant information in the schedules. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s) and amount blank, it will be presumed that the contractor has included the cost of this/ those item(s) in other items and rate for such items will be considered as zero and work will be required to be executed accordingly.

The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the rate quoted. In such case, the Department also reserves the right to award the balance part of the tender and /or any other contracts to other agencies at the sole discretion of the Department. The decision of the Department in this regard shall be final and binding on the contractor and no claim of whatsoever nature shall be entertained from the contractor on this account.

The Contractor shall assume all liability, financial or otherwise in connection with his contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public in course of execution of work or any other reason whatsoever and shall himself defend all actions arising from such claims and shall keep the department saved harmless and indemnified in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

Before commencing the 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. Nothing extra shall be payable on this account.

The Tenderer may, before submission of the tender, inspect the CPWD specifications in the office of the Engineer-in-Charge. The department shall not bear responsibility for the lack of knowledge and also the consequences thereof to the Contractor. The information and data shown in the drawings and mentioned in the tender document have been furnished in good faith and for general information and guidance only. The Engineer-in- Charge in no case shall be held responsible for the accuracy thereof and / or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor and no claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in tender document is different from data / drawing for actual construction issued after the award of work or in-correct otherwise. It is presumed that the Contractor has satisfied himself for all possible contingencies, situations, bottlenecks and acts of coordination, which may be required between different agencies.

INCIDENTAL CHARGES: All incidental charges of any kind including cartage, proper storage, wastage and safe custody of material, etc. shall be borne by the Contractor and no claim whatsoever shall be entertained on this account. Responsibility of watch and ward of equipments and materials rest with contractor till the handing over of installations.

QUALITY ASSURANCE: The Contractor shall make available, on request from the Department, for record, copies of challans, cash memos, receipts and other certificates, if any, vouchers towards the quantity and quality of various materials procured and the same shall be kept in record. These shall also provide information on the name of the manufacturer, manufacturer's product identification, manufacturer's instructions, warning, date of manufacturing and test certificates from manufacturers for the product for each consignment delivered at site, shelf life, if any, for the department to ensure that the material have been procured from the approved source and of the approved quality, as directed by the Engineer-in-Charge. Day to day account of receipt of such material shall be maintained at site of work and shall be regulated by the department. Nothing extra shall be payable on this account.

STORAGE OF MATERIALS: Storage and safe custody of all materials shall be the sole responsibility of the Contractor. Nothing extra shall be payable on this account.

QUALITY CONTROL AND TESTING OF MATERIALS:

All the material to be used on works shall bear ISI certification mark unless otherwise the make is specified in the item or special conditions appended with this tender document. In case ISI mark material or the materials mentioned in the tender documents are not available, as per opinion of Engineer-in-charge, which shall be final and binding, the material to be used shall conform to CPWD specifications applicable in this tender or IS Code. In such cases Engineer-in-charge shall satisfy himself about the quality or such material and give his approval in writing. Only articles classified as first quality by the manufacturers shall be used unless otherwise specified. All material not having ISI mark shall be tested as per relevant ISI specification. The Engineer in charge may relax the condition regarding testing if the quantity of the materials required for the work is small.In all cases of use of ISI marked materials proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the entire satisfaction of Engineer-in-charge. All materials equivalent to the one specified should be got approved by the Engineer-in-charge before using the said materials in the work.

If the department desires to send any samples of materials for testing in a accredited laboratory, the Contractor at his own expense shall supply all materials, labour for preparing and testing samples as required by the Engineer-in-Charge. The testing shall be carried out in the presence of the representative of the Engineer- in- Charge. The testing charges shall be borne by the Department only when the samples satisfy the provision specified and conform to the requirement of the relevant specifications. If the results show that the samples do not satisfy the relevant specification, the testing charges shall be borne by the contractor.

DG Set test shall cover the following:

Routine tests as per standards at manufactures works / works of the OEM.
Insulation resistance tests.

Operation checks.

Load run test after installation at OEM's work for a period of at-least 12 hours continuous run (i/c one hour overload fuel oil for testing & load reqd. for testing is to be arranged by the tenderer.)

Any other test that is necessary for checkup of satisfactory performance of set.

The Engineer in charge may relax the condition regarding testing.

LT Panels shall be fabricated from manufacturers/ their channel partner who have CPRI approved and strictly as per CPWD specifications. The drawing of panel boards must be got approved from Engineer – in – charge before fabrication work. The panel board shall consist of MCCB/ACB as incomer and outgoing, copper bus bar, digital type ammeter, voltmeter OR multifunction meter, selector switches, LED type indication lamps etc. as per standard sound engineering practice.

COORDINATION WITH OTHER AGENCIES

The Contractor shall conduct his work so as not to interfere with or hinder the progress or completion of the work being performed by other Contractors or by the Engineer in charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

NO WAIVING OF LEGAL RIGHTS AND POWERS

The Engineer-in-Charge shall not be precluded or stopped from taking any measurements, and framing of estimates or detaining any certificates made either before or after the completion and acceptance of the work and payment, from showing the true amount and character of the works performed and materials furnished by the Contractor and from showing that any such measurements, estimates or certificates untrue or incorrectly made and that Engineer-in-charge shall not be precluded or stopped from recovering from the Contractor such damages as it may be sustained by reasons of his failure to comply with the terms and conditions of the contract.

The tenderers shall take into account the element of wastage(s) those are likely to be there in all elements of the work and quote his price, taking that into account. The tenderers shall study all the items from the point of view of wastage(s), which are likely to take place.

Electric Power Supply and Water Supply

It is the responsibility of the contractor to arrange power supply and water supply for installation and testing purposes during the contract period. Nothing extra shall be paid on this account.
Unless otherwise specified following specifications shall be followed for the E&M works:

i) CPWD General Specifications for Electrical Works Part I Internal – 2013, amended upto date.

ii) CPWD General Specifications for Electrical Works Part II External –

1995, amended upto date.

iii) CPWD General Specifications for Electrical Works Part VII DG SETS – 2013, amended upto date.

Any additional item of work, if taken up subsequently, shall also conform to the relevant CPWD specifications mentioned above. Should there be any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc. the following order of preference shall be observed:

1. Description of items as given in Schedule of quantities.
2. Additional conditions
3. Special conditions and particular specifications.
4. General Conditions of Contract for CPWD works and CPWD Specifications.
5. I.S. Codes.
6. Decision of Engineer-in-Charge.

TAXES AND DUTIES

The work shall be treated on indivisible works contract basis and the rates tendered shall be for complete items of works inclusive of all taxes (including works contract tax), duties, and levies etc. and all charges for items contingent to the work, such as packing, forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site i/c temporary constructional storage, risk, overhead charges, general liabilities/ obligations etc.

GST, Octroi, excise duty etc. are not payable separately.

All Statutory deductions like Work Income tax, GST and Labour Welfare Cess recovery etc at applicable rates will be made from the Contractors bill.

INSPECTION OF SITE

The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, the constraints of space for stacking material / machinery, labour etc. constraints put by local regulations, if any, weather conditions at site, general ground / subsoil conditions etc. or any other circumstances which

may affect or influence their tenders. The site is available for work. The contractor shall, immediately on issue of letter of acceptance of tender, make arrangements for starting the work.

The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and/ or described in the specifications, provided that the same can be reasonably inferred there from. There may be several incidental works, which are not mentioned in the nomenclature of each item but will be necessary to complete the item in all respect. All these incidental works / costs which are not mentioned in item nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation /change in actual working drawings. Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in- Charge. Nothing extra shall be payable on this account.

Unless otherwise provided in the Schedule of Quantities, the rates quoted by the Contractor shall be inclusive of carrying out the works at and / or upto all heights, lifts, leads and depths. The contractor shall make all arrangements for the same. Nothing extra shall be payable on this account.

All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp, temporary structure for plants and machineries, installation

and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts.

INTEGRATED PROGRAMME CHART

The Contractor shall prepare and submit to the Engineer-in-charge, an integrated program chart. The integrated program chart submitted by the contractor shall not have any discrepancy with the financial milestones attached in the contract agreement. The contractor shall execute the work according to the program submitted to and approved by the Engineer-in-Charge.

INTEGRATED SERVICE DRAWINGS

Before taking up the work, the contractor shall prepare integrated drawings for various civil and electrical works showing details of lay out plan including sectional elevations and submit the same for the approval of Engineer-in-Charge. Integrated drawings shall be prepared and submitted by the Contractor as per local Byelaws and as per the site conditions to facilitate convenient installation as well as maintenance. Nothing extra shall be payable on this account.

PROCEDURE FOR APPROVAL OF MATERIALS, SHOP FLOOR DRAWINGS AND COMMENCEMENT OF WORK

Within 10 days of award of work the contractor shall visit the site and submit following documents for approval

List of makes & Model numbers of all items of equipments and accessories for packages B1 to B6.

Catalogues of the equipment to be supplied.

Shop floor drawings of each package separately for approval. It is the responsibility of the tenderer to get the makes, models and shop floor drawings approved by the department

SUPERVISION OF WORK:

The Contractor shall depute Site Engineers & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the Contractor at site itself to avoid any likely delays on this account. The Contractor shall also furnish list of persons for specialized works to be executed for various items of work. The Contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced; the Contractor shall deploy more staff or better experienced staff at site to complete the work with quality and in stipulated time limit.

SPECIALISED AGENCIES:

The main Contractor has to associate approved specialized agencies for the Specialized E&M components, as listed in the tender documents and as per CPWD manual provisions, as amended upto date. The contractor shall ensure that the all the specialized agencies under him shall fulfill all the conditions of previous clause (Supervision of work) for the entire period of the contract.

PROTECTIVE / SAFETY MEASURES:

Necessary protective and safety equipments shall be provided to the Site Engineer, workers & Supervisory staff by the Contractor at his own cost and used at site.

DISPLAY PERMISSIONS:

The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc under various labour laws and other regulations applicable to the works, at his site office.

TOOLS AND PLANTS:

No tools and plants including any special T&P etc. shall be supplied by the Department and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

The Contractor shall maintain all the work in good condition till the completion of entire work. The Contractor shall be responsible for and shall make good, all damages and repairs, rendered necessary due to fire, rain, traffic, floods or any other causes. The Engineer-in-Charge shall not be responsible for any claims for injuries to person/workmen or for structural damage to property happening from any neglect, default, want of proper care

or misconduct on the part of the Contractor or of any other of his representatives, in his employment during the execution of the work. The compensation, if any, shall be paid directly to the Department / authority / persons concerned, by the Contractor at his own cost.

For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labour and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.

SUBMISSION OF AS BUILT DRAWINGS:

The Contractor shall submit 3 sets of "AS BUILT" drawings, for all packages (laminated hard copies + soft copy) on completion of the work.

DEFECT LIABILITY PERIOD:

The defect liability / free maintenance period shall be 12 months after the date of completion of work of this contract agreement.

DEALING WITH INCONSISTENT RATES:

There are certain items of work which are appearing in Schedule of Quantities of more than one package like laying of conduits, cable laying etc. The Contractors shall quote the same rates for the identical items which appear in more than one place. If different rates are quoted by the tenderers for such identical items, the same shall be rationalized by considering the lowest quoted rate for such items, for evaluation and acceptance of tender.

SCOPE OF WORK ALSO INCLUDES:-

Getting pre-installation permission and after installation approval from the Electrical Inspector of local Electricity supply authority i.e. JVVNL Department for **SITC of DG Set**.

All the schematics drawings, SLD, maintenance manual, and thirdparty supply details in soft and hard copy must be handed over to CPWD and User Department.

Engineers and staff of user department shall be trained and made conversant with the software installed, if any for the proper functioning of DG Set in any mode.

PAYMENT TERMS:

The following percentage of contract rates shall be payable against the stages of work shown herein:

On supply of material - 70%.

On completion of Installation and execution – 85%.

On Testing and commissioning – 93%.

On handing over of to the user department – 100%.

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:

(I) Schedule of quantities
(II) Commercial and Additional conditions for this work
(III) General Conditions of Contract for CPWD Works
(IV) Drawings
(V) CPWD General Specifications
(VI) Relevant IS or any other International code in case IS code is not available.
(VII) Sound engineering practice.

TECHNICAL SPECIFICATIONS FOR DG SET

1. The work shall be carried out as per CPWD General Specifications for Electrical Works, Part-VII (DG SET works) 2013 amended upto date, CPWD General Specifications for Electrical Works Part-I & II as amended upto date, relevant IE rules, and as per directions of Engineer-in-Charge. For electrical panels, CPWD General Specifications for Electrical Works Part-IV (SUB-STATION) 2013 amended upto date shall be applicable.

2. SCOPE

Work covered by this contract include design, manufacture, supply, transportation, delivery, installation and commissioning of automatic start direct coupled **Diesel Generator Set as per C.P.C.B. IV+ Norms** suitable for continuous round the clock operation at upto rated output with permissible overload with associated works. Items included (but not limited to) in the contract are abstract below.

- Diesel engines directly coupled with alternators mounted on a rigid fabricated base frame with resilient anti vibration mountings.
- DG cooling system.
- Silencer to provide 25 DBA insertion loss
- Electric starting equipment including batteries and battery chargers.
- Fuel supply system.
- Acoustic Enclosure as per C.P.C.B. Norms.
- Clearance/Approval of the complete installation from CPCB/State Pollution control Board, central Electricity Authority (CEA)/Local Bodies and Other licensing authorities, wherever required.
- D.G. Control Panels.

3. ENGINE

i) The diesel engine shall be indoor-type, four stroke, multi-cylinder, 1500RPM with 2% speed variation for operation between 10% and 100% load, Turbo charged inner cooled, compression ignition with residential type Governor Fuel system complete with its self-contained lubricating system.

ii) Engine mounted radiator designed to dissipate the generated heat effectively shall be used.

iii) High speed diesel oil shall be used as fuel for the engine.

iv) The engine shall be de-rated in accordance with the tables given in BS649 to suit site conditions.

v) The engine shall be directly coupled to the generator.

vi) The noise level limitations shall be as per latest CPCB norms.
vii) The engine shall be capable of taking 10% overload for one hour in every 12 hours
viii) The engine shall be capable of producing the desired nominal output at site referred generator terminals and with machine operating under ambient conditions as special the specific requirements.
ix) The Engine to be fitted with silencer to provide min 25 DBA insertion loss.

4. ALTERNATOR WITH ACCESSORIES:

The Alternator shall have the following characteristics

Type	- Brushless, rotating field design alternator rated for 415 volts / 50 complying to IS 4722–1992, BS 5000 Part- III and IEC 34 amended upto date.
Excitation system	- Self Excited
Speed	- 1500 RPM
Net Site Output	- Rated continuous at ambient conditions and as per Schedule of quantities.
Voltage Regulation	- Within 0.5% of the rated voltage
Overload duration/	- 10% for 1 hour in every Capacity 12 Hours of Continuous use.
Harmonics	- Less than 3%.

- The Alternator shall be capable of delivering the rated output at rated power factor.

- The Alternator shall be capable of withstanding without damage a three-phase short circuit at its terminals when operating at rated KVA and PF and at 5% over voltage with fire excitation for 3 seconds.

- The alternator shall be capable of withstanding without damage
  a) 50% overload for 15 seconds.
  b) 10% overload for one hour every twelve hours.

- The line and neutral leads of phase windings of the Alternators shall be in suitable terminal boxes.

- The Alternator winding shall have class of insulation H class with temperature rise limited to Class H insulation.

5. 12/24 Volt DC Batteries

12/24 volt batteries for each set shall comprise of sealed maintenance free automotive high discharge batteries consisting of required no. of cells, each of 2 volts, to build up AH capacity as required for satisfactory starting of diesel engines. One hour rate of discharge to attain voltage of 1.85 volt per cell to 2 volts shall be provided. Battery cells shall conform to IS 1651 with up to date amendments. The electric start battery shall be of adequate capacity for 10 successive starts. Time delay relay shall be incorporated to provide a rest period of 1– 5 sec (adjustable) before each successive start and a time by period of 19 – 199 sec. (adjustable) before the system lock out due to failure of the 5th start to crank up the engine. The battery bank shall be provided with the following accessories.

a) Battery stand, Set of connectors with ends take off suitable for connections.

6. DRAWING SUBMISSION:

i. The following drawings shall be submitted for approval for DG set :
   a) Foundation drawing with loading data :
   b) Schematic drawings :
   c) All control & indication circuit drawings :

ii. The final drawings with erection/operation & maintenance manual and literature, write ups and description of DG set excitation system, voltage regulator governor and other auxiliaries shall be submitted.

7. PERFORMANCE GUARANTEE:

The performance figures quoted in the technical particular sheets shall be guaranteed within the tolerance permitted by relevant; standards. In case of failure of equipment to meet the guaranteed figures, the purchaser reserves the right to reject the equipment. The rejected equipment may be used by the purchaser till the new equipment meeting the guaranteed requirements is supplied by the vendor.

TEST CERTIFICATES

Copies of all documents of routine and type test certificates of the equipment's shall be furnished to the department along with the supply of equipment's and these are as below.

i. Routine Test Certificates.
   - Engine separately
   - Alternator Separately

ii. Type Test Certificates
   - Engine
   - Alternator
   - Pumps
   - Meters\
   - Governors
   - All major components

The inspection & testing shall be carried out as per clause no. 1.15 of CPWD General Specifications for electrical works Part –VII (DG Set).

8. **INTERPRETING SPECIFICATIONS**

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradictions:

(a) Schedule of quantities

(b) Technical specifications

(c) Drawing (If any)

(d) General Specifications

(e) Relevant BIS or other international code in case BIS code is not available.

LIST OF PREFERRED MAKES FOR ELECTRICAL WORK

S.No.	Material	Preferred Make
	ELECTRICAL INSTALLATIONS & GENERAL	
1	WIRES AND CABLES PVC INSULATED FRLS / HFFR COPPER CONDUCTOR SINGLE CORE CABLE 1.1 KV GRADE XLPE POWER CABLE AND CONTROL CABLE FIRE SURVIVAL CABLE 11 KV GRADE XLPE POWER CABLE COMMUNICATION CABLE SUBMERSIBLE CABLE	POLYCAB/ KEI/ HAVELLS/ RR KABEL/ FINOLEX / BONTON
2	MS CONDUIT AND ITS ACCESSORIES MS / GI PERFORATED CABLE TRAY	AKG / BEC / NIC
3	PVC CONDUIT AND ITS ACCESSORIES	AKG / BEC / NIC / POLYCAB / ASTRAL
4	GI RACEWAY	HONEYWELL / OBO BAPTERMAN / LEGRAND / HATHER / SCHNEIDER
5	MODULAR SWITCH & SOCKET	HAVELLS(CRABTREE MURANO) / SCHNEIDER (ZENCELO) / LEGRAND (MYRUS)
6	ANCHOR FASTENER	HILTI/ 3M/ FISCHER
7	CABLE LUGS AND BRASS GLAND	GRIPWEL / HEX/DOWELL/ COMET / 3M / REYCHEM / JAINSONS
8	CAT–6 UTP CAT-6A, UTP INFORMATION OUTLET UTP PATCH CORD FIBRE OPTICS CABLE	PANDUIT/ BELDEN / 3C3 / DERWISER / MOLLEX
9	UPVC PIPE / HDPE PIPE/DWC PIPE	DURALINE/ REX/ TIRUPATI
10	RACK FOR ALL (EPABX / AUDIO VIDEO / CCTV etc.)	PANDUIT/ APC INDIA / 3C3 / IMPULSE / NEXXUX / BELDEN / VALRACK
11	PAINT, PRIMER	ASIAN PAINT/ NEROLAC / BERGER/ ICI
12	MS PIPE, GI PIPE	SAIL/ TATA/ JINDAL (HISSAR)/SAIL
13	SERVER / DESKTOP	DELL / HP / IBM / LENOVO /

		PANASONIC
14	WI- FI SYSTEM & NETWORK SWITCHES	CISCO/ JUNIPER/ NEXXUUS / IMPLUSE / BELDEN / EXTREME
15	STRUCTURAL STEEL	TATA/ SAIL/ JINDAL HISSAR / APL-APOLLO
16	WATER SUPPLY, STP, DRAINAGE, SUBMERSIBLE PUMPS	KIRLOSKAR/KSB/ GRUNDFOSS/WILO/ XYLEM/ ARMSTRONG/LUVI
	DG SET	
1	DIESEL ENGINE	CUMMINS / CATERPILLER/PERKINS/ KIRLOSKAR OIL ENGINE LTD. / VOLVO PENTA
2	ALTERNATOR	STAMFORD/ KIRLOSKAR ELECTRIC / CROMPTON / LEROY SOMER
3	PROTECTION RELAYS & CT'S	LAURITZ KNUDSEN / SIEMENS/ SCHNEIDER ELECTRIC
4	BATTERY	EXIDE / AMARON/ AMARAJA
5	DG SET - ACOUSTIC ENCLOSURE & ASSEMBLER	KIRLOSKAR(JACKSON) / SUDHIR / CUMMINS INDIA
6	AMF CONTROLLER	AS PER OEM
7	POWER/AUXILLARYCONTACTOR/ CAPACITOR DUTY CONTACTOR / METERS INCLUDING DIGITAL METERS / INDICATING LAMP (LED TYPE) / PUSH BUTTON / STARTERS /OVERLOAD RELAY / TIMER	LAURITZ KNUDSEN/ SIEMENS/ SCHNIEDER ELECTRIC/ ABB
	SUB-STATION	
1	11 KV VCB/HT PANEL	ABB / SCHNEIDER ELECTRIC/ SIEMENS
2	DRY TYPE TRANSFORMER	KIRLOSKAR/ VOLTAMP/ ABB/CROMPTON GREEVES
3	OIL TYPE TRANSFORMER	CROMPTON / KIRLOSKAR / ABB / ESSENNAR
4	ACB	SCHNEIDER ELECTRIC – MASTERPACT NW (6.0A)/ LAURITZ KNUDSEN - U POWER OMEGA (MTX3.5)/ SIEMENS 3WT ETU / ABB EMAX (PR122)
5	MCCB	SCHNEIDER – COMPACT NSX/ LAURITZ KNUDSEN - D-SINE /

		ABB TMAX / LEGRAND DPX3/ BCH
6	MCB/ RCCB/ ISOLATOR	SCHNEIDER - ACTI9/ BCH / HAGER – NOVELLO+ / SIEMENS BETA GUARD / ABB SB200M / LAURITZ KNUDSEN – EXORA / LEGRAND – DX3
7	MCB DB	HAGER (NOVELLO+) / SIEMENS (BETAGARD) /SCHNEIDER (ACTI-9)/ABB (ITUS) / LAURITZ KNUDSEN – EXORA / LEGRAND – EKINOX3/ BCH
8	MAIN LT PANEL/ SUB LT PANELS/ CAPACITOR PANEL/ SYNCHRONIZING PANEL WITH ACCESSORIES/ STARTER PANEL	NEPTUNE/ ADVANCE PANELS & SWITCHGEAR (P) LTD / ADLEC / TRICOLITE/ASPL/ENGINEERS & ENGINEERS / MILESTONE / SPC ELECTOTECH / EXPERT ENGINEERS /R.P. Controls
9	BUS DUCT, END FEED UNIT, TAP-OFF BOX (PLUG- IN TYPE)	SCHNEIDER ELECTRIC/ LEGRAND / LAURITZ KNUDSEN/RR
10	AIR INSULATED COMPACT RISING MAINS, END FEED UNIT, TAP-OFF BOX (PLUG-IN TYPE)	SCHNEIDER ELECTRIC/ LEGRAND / LAURITZ KNUDSEN/ C&S / GODREJ
11	HT, LT JOINTING KIT & TERMINATION KIT	REYCHEM / 3M / ABB
12	SOFT STARTERS	SIEMENS/ SCHNEIDER/ ABB / LAURITZ KNUDSEN
13	CT, PT	ADVANCE/POWERTRAC/KAPPA / AE
14	INDUSTRIAL SOCKET & PLUG	LEGRAND / SIEMENS / HAGER / ABB / SCHNEIDER
15	INDICATION LAMPS (LED TYPE) / PUSH BUTTON	SIEMENS / SCHNEIDER / ABB / LAURITZ KNUDSEN
	LIGHTING, FIXTURES & FANS	
1	BLDC CEILING FAN / EXHAUST FAN / KITCHEN FRESH AIR/ WALL FAN	HAVELLS/ CROMPTON/ USHA /BAJAJ / ALMONARD
2	LED EXIT SIGNAGE	MR. LITE/ PROLITE / GLOLITE / 3M / AUTOGLOW
3	LED INDOOR LUMINAIRES LED DECORATIVE LIGHT LUMINAIRES	PHILIPS/ REGENT/ LIGHTING TECHNOLOGY

	LED STREET LIGHT BOLLARDS & OUTDOOR FITTINGS FAÇADE LIGHTING ARCHITECTURAL LIGHTING	
4	MS DECORATIVE POLE /GI ORNAMENTAL POLE	PHILIPS / BAJAJ/ HILITE/ TWINKLE LUXMAX / HAVELLS / LUSTER
5	POLYCARBONATE JUNCTION BOX WITH CONNECTOR	HENSEL / RITTAL/ SCHNIEDER / CAPE / NEPTUNE
6	SENSORS & TIMER FOR LIGHT CONTROL	PHILIPS / HONEYWELL / SCHNEIDER ELECTRIC / HAVELLS

Note:

1. If approved make/brand of any material is not given in the list, the same will be approved by the NIT approving authority.
2. The contactor shall submitted samples & technical submittals of all material before procurement for approval & shall procure after approval directly from manufacturer and the Authorized dealers only.
3. Material not specified in attached list of acceptable makes shall be got approved from Engineer-in-charge & consultant before use on work. Decision of Engineer-in-charge & Consultant shall be final in this respect.
4. Either the model shall be got approved or Sample shall be submitted for approval by Engineer in Charge before confirming order to supplier.
5. Contractor shall normally not use more than two (except for Equipment's: Lifts, DG Set, Transformer, HVAC Equipment's, UPS, where only One make is allowed) out of the above preferred makes.
6. All items shall confirm to e-waste management and handling rules 2011issued by Min. of Environment and Forest, Government of India or ROHS (restrictions on use of Hazardous substances) / WEEE compliant as per EU norms or American norms. Certificate shall be submitted wherever applicable.
7. The material shall not be older by more than Six months from date of supply at site.
8. Proof of dispatch from factory/dealer shall always be submitted to Engineer-in- charge for verification.

Executive Engineer (E)
CPWD, Jaipur

Sr. D/Man AE(E)-P

PART - C
(Schedule of Quantity)

Sr. D/Man AE(E)-P

SCHEDULE OF WORK

Name of Work : Supplying, Installation, Testing & Commissioning of 25 KVA DG Set at Income Tax Office, Sikar (Raj.)

S. No.	Description of Item	Qty.	Unit	Rate	Amount
1	Supply, installation, Testing & Commissioning of 'Silent Type Diesel Generating set as per CPCB IV + or better norms along with having Prime Power Rating of KVA as below, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor, including testing at factory and site with fuel, load for test and other necessary arrangements Complete as per CPWD specifications, should have QR code which should contain drawing, test report OEM manual, Geo- Tag of manufacturing location, rating plate as per relevant IS Code etc. and consisting of the followings: (A) Diesel Engine: Tourbo charged Diesel engine 4 stroke water cooled, multi cylinder, dynamically balanced fly wheel, electric start of suitable BHP at 1500 RPM suitable for above output of alternator at 40 Degree C, 50% RH & at 1000 Meter MSL , capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be with Electronic governor, Dry type Air filter with service indicator, first filling of engine fuel (after commissioning) lubricating Oil, Coolant and other consumables complete with all the required accessories, the Electronic governor shall be as per ISO 8528.The engine shall comply to the latest CPCB norms (CPCB IV + or better) and Conforming to BS 5514, BS 649, IS 10000, IS 10002, IS 13018 and as per CPWD specifications.				
	(B) Engine mounted Instrument Panel fitted with and having digital disPlate for following: (i) Start-stop switch with key (ii) Water temperature indication (iii) Lubrication oil pressure indication (iv) Lubrication oil temperature indication (v) Battery charging indication and Voltage indication (vi) RPM indication (vii) Over speed indication (viii) Low lubricantion Oil trip indication (ix) Engine Running Hours indication (x) Fuel Level				

	(C) Alternator:Synchronous alternator rated of appropriate KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall be having Screen Protected Drip Proof (SPDP) enclosure IP23, brushless, continuous duty, dynamically balanced rotor, capable of taking 10% over loading for one hour after 12 hours of continuous operation, self cooled,self-excited and self-regulated through AVR conforming to IS13364(Part 2)/IS: 4722/BS 2613 suitable for tropical conditions and with class- H insulation.				
	(D) Base Frame & Foundation: Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer.				
	(E) FUEL TANK: Daily service fuel tank of suitable liters capacity as per CPWD Specifications, fabricated out of 3 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per specifications. (F) Exhaust System: Dry exhaust manifold with hospital type exhaust silencer and catalytic convertor. (G) Starting System: 12V/24V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable numbers of batteries (180 AH capacity lead acid SMF type) as required as per specifications. The battery shall be housed inside the acoustic enclosure of DG Set.				

	(H) Acoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere and the temperature rise inside the enclosure, noise level outside enclosure. The acoustic enclosure should be suitable for cable connection/connection through bus-trunking. Such arrangements on acoustic enclosure should be water proof & dust-proof conforming to IP-65 protection. The enclosure shall be as per CPCB IV + or better norms etc. and as per CPWD specifications.(I) AMF Panel:Free standing floor mounted IP 42 automatic mains failure control panel including auto by-pass, suitable for KVA as below for silent type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, Kilo Volt Ampere Reative Hour (KVARH), KVA (Phase & Total), KW & provision for overload, short circuit, restricted earth fault,under frequency, power (aluminium) and control (copper)				
	cabling of suitable size upto 15 meter between AMF panel, LT Panel and DG Set including connection interconnection etc. as required, all complete and inter locking and communication/ Ethernet /RS485/SNMP port open protocol for BMS integration including suitable software, the panel shall be of DG Set OEM make etc. as per approved by Engineering in charge andincluding the following:1. Suitable numbers and appropriate capacity 4 pole motorised electrically operated draw out with cradle type 3 position ACB/MCCB with electronic release for O/C & E/F and shunt trip.2. Auto/Manual/Test/Off selector switch3. Protection for under and over voltage phase reversal (2 nos Over voltage relay, 2 Nos. reverse power relay and 2 Nos. under voltage relay).4. 3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering5. Energy analyser unit to indicate current, Voltage(L-N & L_L), kW, kVA (Phase & Total), Frequency, KWH, PF.6. LED Indicating lamps for load on mains and load on set7. Fuse/ MCB for instruments8. Battery charger, complete with transformer/ rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment.9. Main supply failure monitor10. Supply failure timer11. Restoration timer12. Control unit with three impulse automatic engine start/stop and failure to start lockout.13. Impulse counter with locking and reset facility.14. ON/OFF/Control circuit switch with indicator15. Audio/Video annunciation for				

	(i) High water temperature(ii) Low lubricating oil pressure(iii) Engine over speed(iv) Engine fails to start(v) Full load/maximum load warning16. Protection for over/under Frequency, Loss of AC sensing, Over Current, Unbalancing load with suitable number of relays and accessories17. Maintenance notification based on Engine Run Hour & due date. 18. Load Management through PLC to achieve auto opening and closing of incomer breakers, bus coupler switching of essential panel , interlocking providing signal to AMF Panel for load status and AMF shall give command to DG Set to auto start / auto stop depending upon load status and requirement etc. and necessary hardware and software required to perform the operation shall be provided by the contractor including all control wiring.				
1.1	25 KVA	1	Nos.	403101.00	403101.00
2	Supplying of one number XLPE insulated PVC sheated Al. Conductor armoured Power cable of 1.1 KV grade of following sizes Conforming to IS. 7098/1988 with upto date ammendment etc. as required.				
2.1	3.5 X 50 sq. mm	70	Metre	709.00	49630.00
3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
3.1	Above 35 sq. mm and upto 95 sq. mm	40	Metre	72.00	2880.00
4	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
4.1	Above 35 sq. mm and upto 95 sq. mm	30	Metre	58.00	1740.00
5	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II (Ammended on date as IS :16205 Part – 24:2018) complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
5.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	40	Metre	289.00	11560.00
6	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
6.1	3½ X 50 sq. mm (35mm)	2	Set	484.00	968.00

7	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	4	Set	8351.00	33404.00
8	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	20	Metre	755.00	15100.00
9	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	25	Metre	287.00	7175.00
10	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	140	Metre	50.00	7000.00
11	Supplying, installation, testing and commissioning of Outdoor double door, sectionalised, compartmentalized, dust & vermin proof, extendable type MV cubicle panel having 400 mm deep of suitable size fabricated from CRCA steel of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffeners wherever required, i/c mounting base frame consist of MS channel of size 50 x 50 x 6.0 mm, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with 4 nos. electrolytic grade high conductivity Aluminium busbar extensible type, DMC/SMC busbar supports, suitable for 3 phase 415 V 50 HZ AC supply i/c all connection and interconnections in panel board i/c providing and fixing the following switchgear mounted thereon complete with connections & testing etc. as required.				
	All the MCCBs shall be Ics= 100% Icu				
	(I) BUS BARS				
	4 strip aluminium bus bars of minimum of 300 Amps, 36 KA for 1 Sec. capacity with heat shrinkable coloured sleeves and including DMC/SMC bus bars supports at required intervals complete for cross section, size supports at their spacing etc. for with standing fault level of 50 MVA for 1 Sec. The size of bus bar shall be provided considering the current density of aluminium bus bar 1.0 Amp. /Sqmm.				
	(II) INCOMING				
	(a) 200 Amps ATS with controller - 1 Nos.				
	(b) DIGITAL MULTIFUNCTION METER CL-1 WITH RS -485 - 1 No.				
	(c) CTs 200/5A, CL-1.0, 15 VA cast Resin for metering- 3 Nos.				

	(d) LED indication lamp (R,Y,B,ON,OFF,Trip) = 1 Set				
	(e) 2Amp 10 KA control SP MCB = 1 lot				
	(III) OUTGOING				
	a) 160 Amps 36 KA FP MCCB with Ics= 100% Icu having thermal magnetic releases for O/L and S/C protection having extendable rotary handle, Spreader links =1 nos.				
	b) 100 Amps 25 KA FP MCCB with Ics= 100% Icu having thermal magnetic releases for O/L and S/C protection having extendable rotary handle, Spreader links = 3 nos.				
	c) 63 Amps 25 KA FP MCCB with Ics= 100% Icu having thermal magnetic releases for O/L and S/C protection having extendable rotary handle, Spreader links = 1 nos.				
	d) Ventilation fan = 2 nos.				
	e) Danger notice plate =1 No.	1	No.	249948.00	249948.00
				Total Rs.	**782506.00**

Executive Engineer (E)
CPWD, Jaipur