



Government of India
Ministry of Communication
Department of Posts – Electrical Wing
O/O The Executive Engineer (E)
Postal Electrical Division



NIT No:PED/ND/NIT-07/26-27/D-139

Dated 05.05.2026

TENDER DOCUMENT

Percentage Rate e-Tender

For the Work of

Name of work: SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.(2nd call)

E.C:- ₹ 1106787/ EMD ₹ 22136/ Time Allowed: 30Days

Certified that this tender document contains pages from 01 to 52 and Bill of Quantity (BOQ) as Separate in Excel sheet

The e-tender will be submitted on e-tendering portal of <https://eprocure.gov.in/eprocure/app> and will be opened online.

Executive Engineer (E)
Postal Electrical Division
New Delhi

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Bill of Quantities (BOQ) in separate PDF/Excel sheet shall be part of the tender document

**Department of Posts
Office of the Executive Engineer (E)
Postal Electrical Division,
10 Floor Meghdoot Bhawan, New Delhi**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING
FORMING PART OF BID DOCUMENT**

NIT No:PED/ND/NIT-07/26-27/D-139

Dated 05.05.2026.

The Executive Engineer (E), Postal Electrical Division, New Delhi on behalf of President of India invites online Percentage rate tender from **specialized firms/contractors in two bid system i.e. eligibility & Price Bid** for the following work(s) who fulfil eligibility conditions.

NIT No.	No:PED/ND/NIT-07/26-27/D-139
Name of work	SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi. (2 nd call)
Estimated cost	₹ 1106787/-
Tender documents Fee	Nil
Earnest money deposit	₹ 22136/-
Period of completion	30Days
Last date and time of submission of technical and financial bid	12.05.2026 at 15:00 Hours
Date and time of opening of technical bid	13.05.2026 at 15:00 Hours
Time Period allowed for submission of originals / certified copy of all the scanned and uploaded documents as specified in NIT by the lowest bidder	Within a week of opening of the financial bid in the office of tender inviting authority

1.1 Criteria for eligibility for all contractors

Bidder, who fulfil the following requirement shall be eligible to apply.
Joint ventures are not accepted.

(A) OEM/OEA of DG set of approved make in product directory having successfully completed works of similar nature during last seven years ending previous day of last date of submission of bids in of following amount:-

(a) One similar completed works each of value not less than **80% of ECPT** .

OR

(b) Two similar completed works each of value not less than **60% of ECPT**.

OR

(c) Three similar completed works each of value not less than **40% of ECPT**.

Similar Works means Work of: - "SITC of DG Sets with capacity of individual DG set being 80% of individual capacity."

The value of executed works shall be brought to current level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion of work to the date of receipt of Pre-qualification application.

(i) Must Deposit Earnest Money and its Physical receipt scan copy/UTR

- (ii) Should have had Average Annual Financial Turnover of 50% of ECPT during the last three consecutive financial years (2021-22, 2022-23 and 2023-24). (Scanned copy of Certificate from CA to be uploaded). *Note:- At the time of submission of bid contractor may upload Certificate from CA mentioning Financial Turnover of last 3 years and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.*
- (iii) Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 31st March 2023.
- (iv) Should have valid GST and PAN .

2.1 Earnest Money of Rs. **22136/-** 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 favor of Accounts Officer, Postal Electrical Division, New Delhi payable at New Delhi shall be scanned and uploaded to the e-tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer(E) inviting bids or division office of any Executive Engineer (E), Postal Civil/Electrical Division (List along with address is enclosed at Annexure -I within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE) shall issue a receipt of deposition of earnest money deposit to the bidder in format Annexure-I. The receipt may be issued by the E.E. /A.E. (P)/A.E./A.A.O. This above receipt shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time.

2.2 A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 Lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for 120 days or more from the last date of receipt of tender, which is to be scanned and uploaded by the intending bidders.

2.3 Earnest Money can also be deposited through RTGS/NEFT in the account of **A/Cs Name- Accounts Officer, Postal Electrical Division New Delhi Account no. 32306990367 IFS code SBIN0000691**. The unique transaction reference (UTR) of RTGS/NEFT shall have to be uploaded by the bidder in the e-tendering system by the prescribed date.

Note: - i) Earnest money must be deposited through separate transaction.

ii) The bidder will use one UTR for one work only. In case it is found that he has used one UTR number for different tenders, all the tenders submitted by him will be rejected and he debarred from further tendering in the department in future.

3.1 . The contractor submitting the tender should read the Schedule of quantities, Special conditions, Additional conditions of Contract, Specific to Green Building Practices, Particular specifications (Civil), CPWD- 6, & other terms and conditions given in the NIT and Drawings. The bidder should also read the General Conditions of Contract for CPWD construction Works 2020 with up to date correction slips, which is available as Government of India Publications; however, provisions included in the tender document shall prevail over the provisions contained in the standard form. The set of drawings and NIT shall be available in the office of the **Executive Engineer (E), Postal Electrical Division, New Delhi**. The intending bidder can be seen it between hours of 11:00 AM and 4:00 PM from Monday to Friday every day except on Saturday, Sunday and public holidays or can be seen on website <https://eprocure.gov.in/>. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. He should only submit his tender if he considers himself eligible and he is in possession of all the required documents. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while submitting the tender online.

They are requested to comply following instructions

3.2 Tenders with any condition including that of conditional rebates shall be rejected forthwith.

3.3 The successful bidder shall be required to submit a Performance Guarantee of 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher) within the time specified in Schedule 'F'. This

period can be further extended by Engineer-in-Charge up to a maximum period as specified in Schedule 'F' on the written request of the contractor with late fee as defined in Schedule-F. 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). 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.

3.4 All applicable taxes i/e GST and Labour-Cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components

3.5 It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The department reserves right to accept tender in full or in part without assigning any reasons

3.6 Information and instructions for bidder posted on website shall form part of tender document.

3.7 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.

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

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

4. Contractor must ensure to quote rate of each item. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

5. The E-Tender invited under two envelop system, the first electronic envelop will be named as "Technical Bid" and shall contain documents of bidder's satisfying the eligibility conditions and 2nd Electronic Envelope shall be named as "Financial Bid" contain documents and schedule/Bill of Quantity (BOQ). The Bidder shall submit TECHNICAL BID & FINACIAL BID simultaneously. The technical bids will be evaluated first and thereafter financial bids of eligible bidders only shall be opened. These envelopes shall contain one set of the following documents: -

6.1 TECHNICAL BID Shall contain the following documents.

(i) Scanned copy of Treasury Challan / Demand Draft /Pay Order or Banker's Cheque / Fixed Deposit Receipts/ Deposit at Call Receipt / Bank Guarantee of any scheduled bank against EMD as prescribed/Scanned copy of unique transaction reference (UTR) of RTGS/NEFT if earnest money has been deposited through RTGS/NEFT in Account of tender Postal Electrical division New Delhi/scanned copy of transaction reference for EMD payment through e-payment gateway of e-tender portal

(ii) Scanned Copy of receipt for deposition of original EMD (in Annexure-I Format) to division office of any Executive Engineer, [including NIT issuing EE] Postal Civil/Electric Division in case EMD by Treasury Challan/ Demand Draft / Pay Order or Banker's Cheque / Fixed Deposit Receipts/ Deposit at Call Receipt

(iii) Scanned copy of UNDERTAKING (Annexure-II) duly filled, stamped & signed in .pdf format.

(iv) Scanned copy of Affidavit in .pdf format.(Annexure-III)

(v) Scanned copies of Certificate of Registration of GST/Certificate of provisional registration for GST in .pdf format. If the bidder has not having GST registration of the state in which work is to be taken up or as required by GST authority then in such case the bidder has to upload undertaking along with other bid document as per Annexure -IV.

(vi) Scanned copy of PAN Card in .pdf format.

(vii) Scan copy of Proof of OEM as per eligibility criteria given above **OR** in case of OEA then the certificate from OEM of DG set manufacturing in prescribed proforma (Annexure-V) and the Scan copy of WORK EXPERIENCE CERTIFICATES of requisite magnitude with appropriate Authority as per NIT in .pdf format. The contractor is required to submit satisfactory work completion certificate **issued by an officer not below the rank of Executive Engineer, the work experience Certificate shall clearly indicate Name of work, amount of work done, date of start, date of completion, time period (stipulated and actual). Levy of compensation if any. The works not completed in stipulatedtime where levy of compensation is**

imposed are not considered satisfactory for work experience. The completion certificate without these details shall not be considered and tender shall be rejected.

(viii) Scan copy of **Annexure VI** -SCHEDULE OF TECHNICAL PARTICULARS of DG set proposed.

(ix) Scanned copy of Chartered Accountant's Certificate for turnover for consecutive last 3 financial years up to 2023 in .pdf format.

(x) Tender Document in .pdf format (TENDER XXXX.pdf file) digitally signed.

(xi) Any other document required to establish the eligibility as per the NIT conditions.

6.2 FINANCIAL BID E envelop will contain following documents. (Only those financial bid will be open who found eligible in Technical bid)

(i) Bill of Quantities (BoQ) in xlsx format (BoQ_XXXXX.xlsx) file duly filled & digitally signed without changing the name of file.

7. The Technical Bid shall be opened first on due date and time as mentioned above.

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

9. Contractor must ensure to quote Percentage above or below estimated cost put to bid.

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

11. Integrity pact of the tender document shall be signed between Engineer-in-Charge and the successful bidder after acceptance of the tender.

12. Smt. Sushama Vishwanath Dabak, IA&AS(Retd.) Ex-Director General of Audit appointed as independent external monitor (IEM) in Department of Posts vide DOP letter dated 12.01.2021

*Executive Engineer (E)
Postal Electrical Division
New Delhi*

On and for Behalf of President of India

No:PED/ND/NIT-07/26-27/D-139

dated:-05.05.2026

Copy to:-

1. The Superintending Engineer (E) Postal Electrical Circle, New Delhi.
2. The Assistant Engineer (E) PESD-III, NDGPO
3. The Accounts Officer, Postal Electrical Division, New Delhi.
4. Notice Board,

Executive Engineer (E),

INSTRUCTIONS TO THE CONTRACTORS/BIDDERS FOR THE E-SUBMISSION OF THE BIDS ONLINE THROUGH TENDER SITE.

This tender document has been published on the CPP Portal (URL:<https://eprocure.gov.in/eprocure/app>)

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:
<https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL:<https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrolment" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
- 5) Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder

has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener’s public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is +91 0120-4711 508, +91 0120-4200462, +91 0120-4001002, +91 0120-4001005, +91 0120-6277787 & E- Mail Id: support-eproc@nic.in & : cPPP-nic@nic.in.

*Executive Engineer (E)
Postal Electrical Division
New Delhi*

Department of Posts
Office of the Executive Engineer (E)
Postal Electrical Division,
Meghdoot Bhawan New Delhi

NOTICE INVITING TENDER (E-Tendering Mode) CPWD-6

NIT No: PED/ND/NIT-07/26-27/D-139

Date: 05.05.2026

The Executive Engineer (E), Postal Electrical division New Delhi invites on behalf of President of India Online Percentage Rate bids (CPWD-7) from approved and eligible contractors from **specialized firms/contractors in two bid system i.e. eligibility & Price Bid** for the work of

SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.

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

1.1 The work is estimated to cost Rs 1106787/-. This estimate, however, is given merely as a rough guide. The eligibility of bidders will correspond to the combined estimate cost of different components put to bid.

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

Criteria of eligibility for submission of bid documents

1.2.1 Bidder who fulfil the following requirement shall be eligible to apply. Joint ventures are not accepted.

(A) OEM/OEA of DG set of approved make in product directory having successfully completed works of similar nature during last seven years ending previous day of last date of submission of bids in of following amount:-

(a) One similar completed works each of value not less than **80% of ECPT** .

OR

(b) Two similar completed works each of value not less than **60% of ECPT**.

OR

(c) Three similar completed works each of value not less than **40% of ECPT**.

Similar Works means Work of: - "SITC of DG Sets with capacity of individual DG set being 80% of individual capacity."

The value of executed works shall be brought to current level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion of work to the date of receipt of Pre-qualification application.

(i) Must Deposit Earnest Money and its Physical receipt scan copy/UTR

(ii) Should have had Average Annual Financial Turnover of 50% of ECPT during the last three consecutive financial years (2021-22, 2022-23 and 2023-24). (Scanned copy of Certificate from CA to be uploaded). *Note:-At the time of submission of bid contractor may upload Certificate from CA mentioning Financial Turnover of last 3 years and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.*

(iii) Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 31st March 2023.

(iv) Should have valid GST and PAN .

2. Agreement shall be drawn with the successful tenderer on prescribed form No. C.P.W.D.-7 which is available as a Govt. of India Publication. Tenderer 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 **30 Days** 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 Work is to be carried out in the office / PO Building/ staff quarters. Generally, these offices / PO Buildings/ staff quarters are occupied. Accordingly, as per the access provided by the occupant of the office / resident of the quarter, work shall be carried out by the contractor. Moreover, it is also to be noted by the contractor that electrical work may have to be carried out in cohesion with the civil work at the site. Therefore, as per the progress of the civil work, electrical work shall be carried out in phased manner with the required time gaps etc. Contractor shall execute the work as per the directions of Engineer-in-charge in accordance with requirement of site. The time schedule in the bid document has been mentioned in accordance with the time required for carrying out of the civil work. If civil work is completed early then electrical work shall also have to be completed early, decision of engineer-in-charge shall be final and binding on the contractor in this regard.

5 The site for the work is available / shall be made available in parts in the working offices. The contractor should plan mobilization of resources and execution of work accordingly.

6 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 in O/O the Executive Engineer (E) PED New Delhi on any working day between 1100 hrs to 1600 hrs one day before the day of opening of Tender.

7 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.

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

9 Interested contractor/firm who wish to participate in the bid has to deposit **Earnest Money** within the period of bid submission in following method.

9.1 Earnest Money of Rs. **22136/-** 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 favor of Accounts Officer, Postal Electrical Division, New Delhi payable at New Delhi shall be scanned and uploaded to the e-tendering website within the period of bid submission. The original EMD should be deposited either in the office Executive Engineer(E) inviting bids or division office of any Executive Engineer (E), Postal Civil/Electrical Division (List along with address is enclosed at Annexure -I within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE) shall issue a receipt of deposition of earnest money deposit to the bidder in format Annexure-I. The receipt may be issued by the E.E. /A.E. (P)/A.E./A.A.O. This above receipt shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time.

9.2 A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 Lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for 120 days or more from the last date of receipt of tender, which is to be scanned and uploaded by the intending bidders.

9.3 Earnest Money can also be deposited through RTGS/NEFT in the account of **A/Cs Name- Accounts Officer, Postal Electrical Division New Delhi Account no. 32306990367 IFS code SBIN0000691**. The unique transaction reference (UTR) of RTGS/NEFT shall have to be uploaded by the bidder in the e-tendering system by the prescribed date.

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

11. Copy of certificate of work experience and other documents as specified 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 shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.

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

(i) The bidder is found ineligible.

(ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.

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

(iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

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

14. The description of the work is as follows:

SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.

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

16. 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 bidder shall be summarily rejected.

17. Canvassing whether directly or indirectly, in connection with bidder is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

18.. 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 bidder shall be bound to perform the same at the rate quoted.

19.. The contractor shall not be permitted to tender for works in the Postal Circle (responsible for award and execution of contracts) in which his near relative is posted as 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 Gazetted officer in the Department of Post or Ministry of Communication. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

20.. 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.

21. The bid for the works shall remain open for acceptance for a period of **seventy five (75) days** from the date of opening of technical bid. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to

forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.

22. This notice inviting Bid 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 or other Standard C.P.W.D. Form as applicable.

23. For Bids

23.1.1 The Executive Engineer in charge of the work will call bids for the work. The Earnest Money will be fixed with respect to the estimated cost put to bid.

23.1.2 The bid document will include following three parts: Part A. CPWD-6, CPWD-7 including schedule A to F for the work, Standard General Conditions of Contract for construction works CPWD 2020 or latest edition as applicable with all amendments/ modifications up to last date of submission of bids. Part B. Special conditions, Additional conditions of Contract, Specific to Green Building Practices, Particular specifications. Part C. Price Bid: Schedule of quantities applicable of the work.

23.1.3 The eligible bidder shall quote percentage below/above on the total amount of tender.

23.1.4 After acceptance of the bid by competent authority, the EE in charge of the work shall issue letter of award on behalf of The President of India. After the work is awarded, the contractor will have to enter into agreement with EE. EE will operate part A, part B and part C of the agreement

23.1.5 It will be obligatory on the part of bidder to sign the contract document before the first payment is released.

24. In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be entertained.

*Executive Engineer (E)
Postal Electrical Division
New Delhi
On and for Behalf of President of India*

NO. **No:PED/ND/NIT-07/26-27/D-139**

dated 05.05.2026

Copy to:-

1. The Superintending Engineer (E) Postal Electrical Circle, New Delhi.
2. The Assistant Engineer (E) PESD, Bhopal.
4. The Accounts Officer, Postal Electrical Division, New Delhi.
5. Notice Board,

Executive Engineer (E),

Format for Receipt of Deposition of Physical Earnest Money

Receipt No.

Date.

1	NIT No.	No:PED/ND/NIT-07/26-27/D-139 Dt:05.05.2026
2	Name of work	SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.(2 nd call)
3	Estimated Cost	₹ 1106787/-
4	Earnest money deposit	₹ 22136/-
5	Last date and time of submission of bids	12.05.2026 at 15:00 Hours

Name of bidder# :

Form of EMD# :

Amount of EMD# :

Date of submission of EMD#

**Signature, name and designation of EMD receiving
(EE/ AE (P)/ AE/ AAO) along with Office Stamp**

Note: # To be filled by officer receiving the EMD.

1. The Executive Engineers of all Postal Civil / Electrical Divisions should receive the physical EMD of other divisions.
2. The Executive Engineer receiving the physical EMD shall examine the EMD deposition by the bidder and shall issue the receipt of deposition of Earnest Money in the above format. The receipt may be issued by AE / AAO.
3. The Executive Engineer receiving physical EMD should also intimate tender inviting Executive Engineer about deposition of EMD by bidder through e-mail / fax or over phone.
4. The tender inviting Executive Engineer will call for physical EMD of the L-1 bidder
5. The physical EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website <https://dopcivil.euniwizarde.com>[Tender Status> AOC] for the tender ID to be obtained from the tender inviting Executive Engineer) that the particular contractor is not L-1 bidder and work is awarded.
6. List of Executive Engineers (along with address), where physical EMD can be deposited is enclosed as NIT

List of Executive Engineers with address

The Executive Engineer (E) Postal Electrical Division-I, MeghdootBhawan,New Delhi - 110001.Ph: 011-23514049	The Executive Engineer (E) Postal Electrical Division-II, MeghdootBhawan,New Delhi - 110001.Ph: 011-23514049	The Executive Engineer (C) Postal Civil Division, MeghdootBhawan,New Delhi – 110001. Ph: 011-23628366
The Executive Engineer (E) Postal Electrical Division CSO, Gandhi Nagar, Jaipur – 302015. Ph: 0141 – 2708841	The Executive Engineer (C) Postal Civil Division, 2nd Floor, HPO Building Shastri Nagar, Jaipur – 302016. Ph: 0141-2365941	The Executive Engineer (C) Postal Civil Division,5th Floor, C.T.T. Nagar, PO Building Bhopal – 462003. Ph: 0755-2779149
The Executive Engineer (C) Postal Civil Division, GPO Building, Ambala – 133001. Ph: 0171- 2645721	The Executive Engineer (C) Postal Civil Division, PO Building, 1st Floor, Summer Hill, Shimla – 171005. Ph: 0177–2832943	The Executive Engineer (C) Postal Civil Division, Postal Colony, Roop Nagar, Jammu – 180013. Ph: 0191-2592924
The Executive Engineer (C) Postal Civil Division, HPO Bldg. Civil Lines Allahabad – 211001. Ph: 0532- 26221100	The Executive Engineer (E) Postal Electrical Division, PO Building, Sector-C,Aliganj, New Delhi – 226024. Ph: 0522 – 2336053	The Executive Engineer (C) Postal Civil Division, PO Building, Sector-C, Aliganj, Lucknow – 226024. Ph: 0522-2335165/2324419
The Executive Engineer (C) Postal Civil Division, MeghdootBhawan, GPO Compound, Patna – 800001. Ph: 0612 – 2226070/2233936	The Executive Engineer (E) Postal Electrical Division, YogayogBhawan, P-36, CR-Avenue, Kolkata-700012. Ph: 033-22120646, 22120637	The Executive Engineer (C) Postal Civil Division, YogayogBhawan, P-36, CR-Avenue, Kolkata - 700012. Ph: 033-22121441 / 22121280
The Executive Engineer (C) Postal Civil Division, 3rd floor, Postal Store Depot building, Satyanagar, Bhubaneswar – 751007. Ph: 0674 – 2570960	The Executive Engineer (C) Postal Civil Division, MeghdootBhawan Complex, Guwahati – 781001. Ph: 0361 – 2542679	The Executive Engineer (C) Postal Civil Division, R.N. Compound, Opp. Raj Bhawan, Shillong – 793001. Ph: 0364-2224398
The Executive Engineer (E) Postal Electrical Division, 3rd Floor, Sion PO Building Mumbai – 400022. Ph: 022 – 24044164	The Executive Engineer (C) Postal Civil Division, SionPO Building, Mumbai – 400022.Ph: 022-24013900	The Executive Engineer (C) Postal Civil Division, Khadki PO Compound, Pune – 411003. Ph: 020-25817762
The Executive Engineer (C) Postal Civil Division, Akashwani Square, DA (P) Compound, Nagpur- 400010. Ph: 0712-2540368	The Executive Engineer (C) Postal Civil Division, Admin Building, Khanpur, Ahmedabad – 380001. 079-25504055	The Executive Engineer (C) Postal Civil Division, 2nd Floor, HPO Building, Rajkot – 360001. 0281-2228933
The Executive Engineer (E) Postal Electrical Division 2nd Floor, Bansvangudi HPO, Bangalore – 560004. Ph: 080-26676804	The Executive Engineer (C) Postal Civil Division, 1st Floor, RT Nagar HPO, Bangalore – 32 Ph: 080-23332025	The Executive Engineer (C) Postal Civil Division, K.C. Park, P.O. Compound, Dharwad- 580008.Ph: 0836-2445252
The Executive Engineer (C) Postal Civil Division, Gandhi Nagar, PO Building, Hyderabad – 500080. Ph: 040-23463910, 909, 908	The Executive Engineer (C) Postal Civil Division, No. 5, EthirajSalai, Chennai – 600008. Ph: 044-28203435	The Executive Engineer (C) Postal Civil Division, Manacaud, P.O. Trivandrum –691009.Ph: 0471- 2466748

Undertaking-I

To be submitted by bidders (on company letter head duly signed with stamp & seal) online in pdf format on or before last time of date of bid submission.

To

**The Executive Engineer (E)
Postal Electrical Division,
Meghdoot Bhawan, New Delhi**

Subject: Acceptance of Terms & Conditions of Tender and undertaking in case i/we becomes lowest bidder.

Name of Work: SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.(2nd call)

Tender Reference **No:PED/ND/NIT-07/26-27/D-139**

Dear Sir,

1. I/We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site namely: <https://eprocure.gov.in/eprocure/app> as per your advertisement, given in the above mentioned website.
2. I/We hereby certify that I / we have read the entire terms and conditions of the tender document from Page No. **1 to 52 & BOQ** (including all documents like annexures, schedules, etc.), which form part of the contract agreement and I/we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this bid.
4. I/We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. In case any provisions of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the Earnest Money absolutely.
6. 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 Department of Posts 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.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

AFFIDAVIT

(Scanned copy to be submitted by bidder at the time of submission of bid)

To

The Executive Engineer (E)
Postal Electrical Division,
Meghdoot Bhawan, New Delhi

Tender Reference NIT No:PED/ND/NIT-07/26-27/D-139

Name of Work: SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.(2nd call)

Dear Sir,

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

Yours Faithfully

(Signature of the Bidder with official Seal)

GST REGISTRATION UNDERTAKING

(Scanned copy to be submitted by bidder at the time of submission of bid if the contractor does not have GST registration in Maharashtra State)

To

The Executive Engineer (E)
Postal Electrical Division,
Meghdoot Bhawan, New Delhi

Tender Reference NIT No:PED/ND/NIT-07/26-27/D-139

Name of Work: SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.(2nd call)

"If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in Which work is to be taken up within 20 DAYS from the date of receipt of award letter or before release of any payment by Department of Posts, whoever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me / us on a/c of the work executed and / or for any action taken by Department of Posts or GST department in this regard."

Signature of Contractor with stamp

*OEM's Authorization (On Company Letter Head)
(In case of OEA-To be submitted as part of Technical bid)*

OEM's Reference No. _____ Date.....

To
The Executive Engineer (E)
Postal Electrical Division
Meghdoot Bhawan, New Delhi

Name of Work: SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.(2nd Call)

Tender Reference No: No:PED/ND/NIT-07/26-27/D-139

Dear Sir;

- 1) We, _____, are proven and reputable manufacturers of the Tendered Goods. We have factories at----- . We hereby authorise Messrs-----(*name and address of the authorised agency*) to submit a bid, process the same further and enter into a contract with you against above referred Tender Process for the supply installation testing and commissioning of above Goods manufactured by us.
- 2) As principals, we commit ourselves to extend our full support for warranty obligations, as applicable as per the Tender Document, for the Goods and incidental Works/ Services offered for supply by the above firm against this Tender Document.
- 3) Our details are as under:
 - (a) Name of the Company:.....
 - (b) Complete Postal Address:
 - (c) Pin code/ ZIP code:
 - (d) Telephone nos. (with country/ area codes):
 - (e) Fax No.: (with country/ area codes):
 - (f) Mobile Nos.: (with country/ area codes):
 - (g) Contact persons/ Designation:
 - (h) Email IDs:
- 4) We enclose herewith, as appropriate, our ----- (*Bye-Laws/ Registration Certificate/ Memorandum of Association/ Partnership Agreement/ Power of Attorney/ Board Resolution*)

Yours faithfully,

.....

[signature with date, name, and designation]

for and on behalf of Messrs.....

[name & address of the OEM and seal of Company]

DA: As above

Form of Performance guarantee / Bank guarantee bond [Reference para 21.1.(1)(V)]

In consideration of the President of India (hereinafter called “The Government”) having offered to accept the terms and conditions of the proposed agreement between.....and (Hereinafter called “the said Contractor(s)”) for the work..... (hereinafter called “the said agreement”) having agreed to production of an irrevocable Bank Guarantee for (Rupees..... only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

- 1 We, (Hereinafter referred to as “the Bank”) hereby undertake to pay to the Government an amount not exceeding ₹ (Rupees..... Only) on demand by the Government.
- 2 We,(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ₹..... (Rupeesonly)
- 3 We, the said bank further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.
- 4 We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineerin- Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
- 5 We, (indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) 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(s) 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(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) 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 This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
- 7 We, (Indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
- 8 This guarantee shall be valid up tounless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to ₹ (Rupees) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged. Dated theday of for..... (indicate the name of the Bank)

Note: Performance guarantee shall be valid up to three months after the time period allowed for the work.

IMPORTANT NOTE FOR CONTRACTORS

(TERMS & CONDITIONS OF CONTRACT)

1. INSPECTION OF SITE AND CONTRACT DOCUMENTS

The tenderer should, in his own interest, visit the site and familiarize himself with the site conditions before tendering. For purpose of inspection of site and relevant contract documents the firm is required to contact the Assistant Engineer (E), Postal Electrical Sub Division, Bhopal who shall give reasonable facilities for inspection of the same. The firm shall inspect and examine the site and shall satisfy himself before submission of the tender as to the form and nature of the work, their quantities materials necessary for completion of the work and in general shall himself obtain all necessary information as to risk contingencies and other circumstances which may influence or affect his tender. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

2. SUFFICIENCY OF TENDER:

The firm shall be deemed to have satisfied himself before entering into the contract as to the correctness and sufficiency of his offer for the work and of the rates quoted in the schedule of works. These rates and amount shall, except as otherwise provided cover all his obligations under the Contract and all matters and things necessary for proper completion and maintenance and guarantee of the work.

3. TAX AND DUTIES:

- (i) All statutory deductions etc shall be made at source as per the prevalent laws.
- (ii) The rates quoted by the tenderer, shall be firm and inclusive of all taxes, duties, levies, octroi etc and all charges for packing, forwarding, insurance, freight and delivery, installation, testing, commissioning and clearance from Statutory Inspection Authorities etc inclusive of GST. Tax deduction at source (TDS) of all the applicable Taxes/duties shall be carried out at source as per the Government rules.
- (iii) No concession forms will be issued by the Department.

4. The department reserves the right to accept the quantities in full or in parts or delete any item.

5. STANDING ORDER NO. 287:

- (i) Tender rates are inclusive of all taxes and levies including GST. However pursuant to the constitution (Forty Six Amendment) Act 1982, If any further tax or levy is imposed by a state, after the date of receipt of a tender and the contractor thereupon necessarily and properly pays such taxes/ levies the contractor shall be reimbursed that amount to be paid provided such payment if any is not in the opinion of Superintending Engineer (E) (whose decision will be said binding) attributable to delay in execution of work within the control of the contractor.
- (ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and further shall furnish such other information/ document as the Engineer-in-Charge may require.
- (iii) The contractor shall within a period of thirty days of imposition of any further tax or levy, pursuant to the constitution (46th amendment) Act, 1982, give a written notice to the Engineer-in-Charge that the same is given pursuant to the condition together with all necessary information relating thereto.
- (iv) Clause 10CC is not applicable to this tender.

6. SECURITY DEPOSIT:

The person/ persons whose tender(s) may be accepted (hereinafter called the contractor (s) shall permit Govt. at the time of making any payment to him for work done under the contract to deduct a sum

at the rate of 2.5% of the gross amount of each running bill till the sum will equal the amount of security deposit i.e. 2.5% of the tendered value of the work.

7. PERFORMANCE GUARANTEE

The successful tenderer shall submit an irrevocable performance guarantee of 5 % of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement within 7 days of issue of letter of acceptance. This guarantee shall be in the form of government securities or fixed deposit receipts or guarantee bonds of any scheduled bank or the State Bank of India in the specified format. The performance guarantee shall be valid up to the stipulated date of completion plus 60 days beyond that.

8. INDEMNITY:

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law & Regulations for any accident occurring due to any cause and the department shall not be responsible for any accident and damage incurred or claims arising there from during the period of Erection, construction & putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer due to the above.

9. ERECTION TOOLS:

No tools and tackles either for unloading or for shifting the equipment for erection purpose would be made available by the Department. The contractor shall make his own arrangement for all the facilities.

10. STORES AND SAFETY:

All the stores and materials required for the satisfactory completion of the work shall be arranged at site by the contractor from his own sources. Lockable space for storing the material may be provided on request. However, safe custody of the material stored at site will be responsibility of the contractor.

11. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS:

All works shall be carried out in accordance with relevant regulations both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following.

- i) Factories Act.
- ii) Indian Electricity Rules.
- iii) IS & BS Standards as applicable.
- iv) Workmen's compensation Act.
- v) Statutory norms prescribed by local bodies like CEA, ISEB, BEE, AHRI, NBC-16 etc.

12. Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes. Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirement of safety codes in respect of labour employed on the work by the tenderer, Failure to provide and safety requirement will be at liberty of the department to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

13. Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirement of safety codes in respect of labour employed on the work by the tenderer, Failure to provide and safety requirement will be at liberty of the department to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

14. COMPLETION OF TENDER:

All sundry equipment, fittings unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been

included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

15. CARE OF BUILDING:

Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work

16. No mobilization amount/ incentive for early completion of work shall be paid for this work

17. The department reserves the right to accept the quantities in full or in parts or delete any item.

18. CONFORMITY WITH STATUTORY ACTS, RULES, STANDARDS AND CODES

- (i) All components shall conform to relevant Indian Standard Specifications, wherever existing, amended to date. A list of such standards is appended.
- (ii) All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 amended to date. They shall also conform to CPWD General Specifications for Electrical works, Part-I: Internal, 2013 and Part-II: External, 1994 and Part IV (Sub-station), 2013, as amended to date.

19. SAFETY CODES AND LABOUR REGULATIONS

- (i) In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty for Rs. 200/- for each violation. In addition the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.
- (ii) The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work of DG Set installation, cables etc. or wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

20. WORKS TO BE ARRANGED BY THE DEPARTMENT

Unless otherwise specified in the tender documents, the following works shall be arranged by the Department:

- (i) Space for accommodating all the equipments and components involved in the work. However, watch and ward shall be responsibility of the contractor.
- (ii) Power supply (Single/three phase).

21 WORKS TO BE DONE BY THE CONTRACTOR

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

- (i) Foundations for equipments including vibration isolation springs/ pads,
- (ii) Making good all damages caused to the structure during installation and restoring the same to their original finish.
- (iii) Minor building works necessary for installation of equipments, foundation trench for fuel line & cable, making of opening in walls or in floors and restoring them to their original condition/ finish and necessary grouting etc. as required.
- (iv) All supports for exhaust & water pipes, chimney, bus trunking (if included in scope of contract), cables, anti-vibration pads etc. as are necessary.
- (v) All electrical work and neutral earthing, body earthing, required for engine & alternator, main board/ control panels, and control wiring including loop earthing, if specified in Schedule of Work
- (vi) All pipes, bus trunking and/ or cable connections.

- (vii) POL i.e. HSD oil and lub. oil for diesel engine for testing & commissioning for 12 hours i/c 1hr of 10% overloading at OEA/ OEM works and artificial load for testing shall be provided by the contractor. POL i.e. HSD oil and lub. oil for trial run of 4 Hrs. at site at available load shall be arranged by the department.
- (viii) Painting of all exposed metal surfaces of equipments and components with appropriate colour.
- (ix) Clearance/ Approval of the complete installation from CPCB/ State Pollution Control Board, Central Electricity Authority (CEA)/ Local Bodies and other licensing authorities, wherever required

22. RATES

- (i) The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including works contract tax), duties and levies and all charges for packing, forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary constructional storage, risks, overhead charges, general liabilities/ obligations etc. but exclusive of Service Tax, which shall be reimbursed on production of documentary proof of actual payment against this contract/ work.
- (ii) Octroi exemption certificate will be issued by the department if required by the contractor. However, the department is not liable to reimburse the octroi duty in case exemption certificates are not honoured by the concerned authorities.
- (iii) The contractor has to carry out routine and preventive maintenance as per manufacturer's standards for a period of 24 months from the date of handing over. However, all consumables (fuel/ lube oil etc.) including filters will be supplied by the department.

23 POWER SUPPLY and WATER SUPPLY

23.1 Power Supply

- (i) Unless otherwise specified, 3 phase, 415 volts, 50 Hz power supply shall be provided by the department free of charge to the contractor at one point for installation at site suitable for 10 KW load. Termination switchgear however, shall be provided by the contractor. Further extension if required shall be done by the contractor.
- (ii) The contractor shall not use the power supply for any other purpose than that for which it is intended for. No major fabrication work shall be done at site. Power shall be used only for welding/ cutting works. The power supply shall be disconnected in case of such default and the contractor shall then have to arrange the required power supply at his cost.

23.2 Water Supply

Water supply shall be made available to the contractor by the Department free of charge at one point.

24. MACHINERY FOR ERECTION

All tools and tackles, heavy machinery handling equipment, etc. required for unloading/ handling of equipments and materials at site, their assembly, erection, testing and commissioning shall be the responsibility of the contractor.

25. COMPLETENESS OF THE TENDER, SUBMISSION OF PROGRAMME, APPROVAL OF DRAWINGS AND COMMENCEMENT OF WORK

(i) Completeness of the tender

All sundry equipments, fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, junction boxes and all other sundry items for proper assembly and installation of the various equipments and components of the work shall be deemed to have been included in the tender, irrespective of the fact that whether such items are specifically mentioned in tender documents or not.

(ii) Submission of programme

Within fifteen days from the date of receipt of the letter of acceptance, the successful tenderer shall submit his programme for submission of drawings, supply of equipment, installation, testing, commissioning and handing over

of the installation to the Engineer-in-Charge. This programme shall be framed keeping in view the building progress.

(iii) Submission of Drawings

The contractor shall submit the drawings to the Engineer-in-Charge as per clause 1.19 of this specification for approval before start of work.

(iv) Commencement of Work

The contractor shall commence work as soon as the drawings submitted by him are approved. The drawings are to be submitted by the contractor within 15 days of stipulated date of start, and shall be approved by the Engineer-in-Charge within 10 days of receipt in his office.

26. DISPATCH OF MATERIALS TO SITE AND THEIR SAFE CUSTODY

The contractor shall dispatch materials to site in consultation with the Engineer-in-Charge. Suitable lockable storage accommodation shall be made available free of charge temporarily. Watch & ward however, shall be the responsibility of contractor. Programme of dispatch of material shall be framed keeping in view the building progress. Safe custody of all machinery and equipment supplied by the contractor shall be the responsibility of the contractor till final taking over by the department.

27. CO-ORDINATION WITH OTHER AGENCIES

The contractor shall co-ordinate with all other agencies involved in the work so that the work of other agencies is not hampered due to delay in his work.

28. QUALITY OF MATERIALS AND WORKMANSHIP

- (i) The components of the installation shall be of such design so as to satisfactorily function under all conditions of operation.
- (ii) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice. The entire installation shall be such as to cause minimum transmission of noise and vibration to the building structure.
- (iii) All equipment and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.

29. CARE OF THE BUILDING

Care shall be taken by the contractor during execution of the work to avoid damage to the building. He shall be responsible for repairing all such damages and restoring the same to the original finish at his cost. He shall also remove all unwanted and waste materials arising out of the installation from the site of work from time to time.

30. INSPECTION AND TESTING

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

30.1 Inspection and Testing of DG sets of capacity more than 15 KVA

- (i) For DG sets of capacity more than 15 KVA, testing shall necessarily be carried out at factory/ manufacturer premises in presence of representative of the Department.
- (ii) For testing, following procedure will be followed: All major items/ equipments i.e. engine & alternator in assembled condition, associated electrical control panel etc. shall be offered for inspection and testing at factory/ manufacturers works. The successful tenderer shall give a notice of minimum two weeks for carrying out such tests. The Engineer-in-charge/ or his authorized representative shall witness such inspection & testing at mutually agreed date. The cost of the representative's visit to the factory will be borne by the Department.
- (iii) The department also reserves the right to inspect the fabrication job at factory and the successful tenderer has to make arrangements for the same.
- (iv) DG set will be tested on load of unity power factor for the rated KW rating. During testing, each of the D.G. sets covered under scope of work, shall be operated for a period of 12 hours on the rated KW at DG set's KW rating including one hour on 10% overload after continuous run of the 12 Hours. During testing all controls/ operations safeties will be checked and proper record will be maintained. Any defect/ abnormality noticed during testing shall be rectified. The testing will be declared successful only when no

abnormality/ failure is noticed during the testing. The DG set will be cleared for dispatch to site only when the testing is declared successful by authorised representative/ Engineer-in-Charge.

30.2 Inspection and Testing of DG sets of capacity equal to or less than 15 KVA

- (i) For DG sets of capacity equal to or less than 15 KVA, testing shall necessarily be carried out at site. However, initial inspection can be done at factory/manufacturer works before dispatch at site of work at the discretion of Engineer-in-Charge as per details given at 30.1 (ii) above. All major items/ equipment i.e. engine & alternator in assembled condition, Electrical control panel etc. shall be offered for initial inspection at factory/ manufacturers works. The cost of the Engineer's visit to the factory will be borne by the Department. After initial inspection, DG Set and associated Electrical panel equipments shall be cleared for dispatch at site.
- (ii) Copies of all documents of routine and type test certificates of the equipment, carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee.
- (iii) After completion of the installation work in all respects, the contractor shall offer the DG Sets for testing. Testing shall be carried out exactly as per Clause 30.1(iv) mentioned above.
- (iv) The requirement of testing of DG Set at manufacturer's premises, in presence of representative of the Department, can be dispensed with/ waived off, keeping in view the exigency of works, with the prior approval of the Chief Engineer. However, test certificates of the particular DG Set on full load, as mentioned in Clause 1.15.2.4 above, shall be submitted at the time of delivery of DG Set at site.

30.3 Trial Run/ Running-in-Period

After successful testing of the DG Set, a trial run at available load will be carried out for 120 Hours or 15 Days whichever is earlier. The DG Set will be operated and a log of all relevant parameters will be maintained during this period. The arrangement of staff for trial run/ running in period will be made by the successful tenderer. However, diesel shall be provided by Department. The contractor will be free to carry out necessary adjustments. The DG Set will be said to have successfully completed the trial run, if no break-down or abnormal/ unsatisfactory operation of any component of the entire installation included in the scope of work of the contract, occurs during this period. After this the DG Set will be made available for beneficial use. After the DG Set has operated without any major break-down/ trouble, it shall be taken over by the department subject to guarantee clause of the contract. This date of taking over of the DG Set, after trouble free operation during the trial run/ running-in period, shall be the date of acceptance/ taking over.

30.4 Safety measures

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

30.4 STATUTORY CLEARANCE(S)

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

31. GUARANTEE

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

32. PAYMENT TERMS

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

S.No.	Stage of work	Machinery & Equipment	All other
i	After initial inspection (wherever specified) & delivery at site in good condition on pro-rata basis	85%	75%
ii	On completion of pro-rata installation	10%	20%
iii	On commissioning and completion of successful running in period & taking over of the DG set by the department	5%	5%

33. TENDER DRAWINGS, DRAWINGS FOR APPROVAL & COMPLETION DRAWINGS

33.1 Tender Drawings

The drawings appended with the tender documents are intended to show space allotted for various equipments. The equipments offered shall be suitable for installation in the spaces shown in these drawings

(i) Drawings for Approval on Award of the work

The contractor shall prepare & submit three sets of following drawings and get them approved from the Engineer-in-charge before the start of the work. The approval of drawings however does not absolve the contractor not to supply the equipments/ materials as per agreement, if there is any contradiction between the approved drawings and agreement.

- (a) Lay out drawings of the equipments to be installed including control cables, fuel/ lube oil pipes and supports/ structure for exhaust piping, Chimney and busducts/ cable trays.
- (b) Drawings including section, showing the details of erection of entire equipments.
- (c) Electrical wiring diagrams from engine-alternator set to Electrical control panel, Electrical control panel to essential LT board including the sizes and capacities of the various electrical/ control cables and equipment.
- (d) Dimensioned drawings of Acoustic enclosure/ Engine-Alternator set and Electrical control panel.
- (e) Drawings showing details of supports for pipes, chimney cable trays, ducts etc.
- (f) Any other drawings relevant to the work.

34. Drawings/Documents to be furnished on completion of Installation

Two sets of the following laminated drawings shall be submitted by the contractor while handing over the installation to the Department. One set shall be laminated on a hard base for display in the DG set room/room where AMF panel is installed and another set shall be displayed in Junior Engineer's room. In addition, drawings will be given on Compact Disc (CD):

- (a) DG set installation drawings giving complete details of all the equipments, including their foundations.
- (b) Line diagram and layout of all electrical control/AMF panels giving switchgear ratings and their disposition, cable feeder sizes and their layout.
- (c) Control wiring drawings with all control components and sequence of operation to explain the operation of control circuits in AMF panel/PCC.
- (i) Manufacturer's technical catalogues of all equipments and accessories.
- (ii) Operation and maintenance manual of all major equipments, detailing all adjustments, operation and maintenance procedure.

35 AFTER SALES SERVICES

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

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On and for Behalf of President of India*

Technical Specifications for Work

1.0 The work shall be carried out as per CPWD General Specifications for Electrical Works Part-VII(D.G Sets)-2013 as amended up to date along with the changes as given in BOQ, Specifications provided in this NIT if there is any contradictory, then BOQ/specifications/condition of this NIT will be applicable) , CPWD General Specifications for Electrical Works Part-I, II & IV, as amended up to date, relevant IE rules, and as per directions of Engineer- in-Charge.

2.0 General Specifications For EI and cable work.

The EI & fans work shall comprise of items described in the schedule of work and specifications for various items of work detailed in the following sections

2.1 The work shall be done as current CPWD specifications for Electrical works as amended from item to item and Indian Electricity Rules as amended up to date.

2.2 The work shall be supervised by a qualified overseer/Degree Holder Supervisor and the contractor will have to submit the Credentials of the overseer/ Degree Holder before he will be allowed to work at the site.

2.3 The layout of the work will be given by the Engineer-in-charge or his duly authorized representative at site of work.

2.4 Separate conduits shall be provided for followings:

- (a) Power plug wiring
- (b) Light and fan point wiring
- © UPS points

2.5 The number of power plug points may not exceed more than two in any circuit.

2.6 The earthing sets (if required) shall be provided in the presence of the Engineer-in-charge or his authorized representative failing which the contractor will have to redo the earthing in the presence of the Engineer-in-charge or his authorized representatives.

2.7 The contractor will have to give the following tests at his cost and intimate test results before final bills are paid. Nothing extra will be paid to him on this account. These test will be carried out in the presence of the Engineer-in-charge his authorized representatives.

- (a) Earth test.
- (b) Polarity test.
- (c) Insulation test.
- (d) Earth continuity test of the recessed conduit.

2.8 Any damage done to the bldg. by the contractor during the execution of work shall have to be made good at his cost & risk. If he does not do it himself within a reasonable time as determined by the Engineer-in-charge the same will be got at his cost departmentally after giving notice to him.

2.9 The runs of various circuits writing at various places shall be kept minimum by taking the runs on walls.

2.10 All the sub distribution boards sub main boards and main boards shall be sign written clearly indicating the number of distribution board, the types of load it is serving and the number of circuits contained in the distribution box. Details of the routes fed from a particular box shall be placed in tabular form, on the reverse of the cover of the distribution box.

2.11 The contractor will have to use metal clad switches and metal clad distribution boxes of specified categories as given in the schedule of work.

2.12 Interconnection between bus bar and switches (100 Amps and above) on sub main boards will be done with solid copper conductor with PVC sheathing.

2.13 While making the end connections of wire, no strand shall be out and the termination of wire shall be done with necessary lugs and ferrules without any extra payment.

2.14 Lugs should be provided while terminating G.I. wire for earth continuity without any extra payment.

2.10 The termination of conduits etc. in the junction box to be provided above DB's should be done by making proper holes instead of cutting the box.

2.16 If any conduit is laid before the award of this work the recovery for the same will be made from the contractor at schedule rates plus abatement of this tender.

2.17 The bus bar provided in main board shall be suitable for current density of not more than 100 Amp/sq.mm.

2.18 Air conditioning plant rooms, weather maker rooms, substation rooms and engine alternator rooms shall be provided with lights only on walls.

2.19 Three pin ceiling rose outlets shall be provided on walls in substation rooms at 2300mm from floor level for installation of wall mounting fans / air circulators.

2.20 Conduits leading from switch boards to SDBs shall preferable be clubbed in junction boxes to be provided below the beams and reduced number of higher sizes conduits may be taken down to SDBs for termination of circuits & sub mains.

2.21 The tenderer should submit along with the tender the makers of material to be used on the work whenever not specified in the schedule. Unapproved materials, if used on work shall have to be removed immediately at the cost and risk of contractor.

B- Specification for LT panel

1. The work shall be done as per CPWD General Specifications for Electrical Works Part-IV Substations 2007 as amended up to date and Central Electricity Authority (Measures relating to safety and electric supply) Regulations 2010 as amended up to date

1.1 LT PANEL BOARD:

The relevant IS shall be followed for all the equipment's.

1.2 ENCLOSURE PROTECTION:

IP-42 as per IS-13947- Part-I as amended up to date for indoor applications and IP-55 for out door applications.

1.3 CONSTRUCTION

The switchboards like main L.T.panels, capacitor panels shall be cubicle type factory assembled fabricated from CRCA sheet steel framework, 2 mm thick including covers. The cleaning and painting shall be done in 7 tank process with final finishing in required shade of powder coating. The bus bars shall be copper strips of suitable size and rating mounted on SMC/DMC support at regular intervals required to suit fault rating as specified above including fasteners and hardware etc., MCCB module shall have minimum depth of 300 mm and shall be maintained throughout the length to keep a uniform depth.

The panels shall be complete with all internal wiring and bus bars connections of suitable rating. The panels shall be fabricated in transportable sections with lifting hooks on tope and MS base channels of not less than 100x50mm x 5mm size and segregated multi-tier formation, floor mounting. An Aluminium earth bus of adequate capacity shall run all along the length and breadth at bottom of the panel with proper supports.

The switch board shall be suitable for climate conditions as called for. The design shall include all provision for safety of operating & maintenance personnel. Overall height of the panel shall not exceed 2.2 m with maximum operating lever at 1.8 m. Cable entries shall be from the sides of the panel for main panel and shall be made through gland plates. Cable supports shall be provided in cable alleys. General arrangement of the panel shall be got approved before final fabrication is taken up.

1.4 BUS BARS CONNECTION

The Bus bars connections shall be high conductivity aluminium alloy of electrolytic quality and of adequate section as per fault levels and current ratings of the panel. The bus bar provided in main board shall be suitable for current density of 100Amp/sq.mm. The system may comprise of main horizontal bus-bars and auxiliary vertical bus bars as per requirement of the panel. All connections to individual feeders shall be with solid connections. Bus Bars/Connections shall be suitably sleeved by Heat Shrinkable Coloured Sleeves. Fault withstands capacity for bus bars – 50 KA for 1 second

1.5 INCOMER TERMINATIONS

Incomer MCCB/SDF/Change over shall be suitable to receive high conductivity tinned copper of electrolytic quality bus bar.

1.6 OUTGOING TERMINATIONS

The outgoing terminals shall be brought out into the cable alley with solid conductors of appropriate size for easy termination of the cables.

1.7 Instruments & Indicating Lamps

The indicating instruments shall be LED/Digital type of class 1.5 as para IS:1248 as amended upto date. All meters shall be provided with HRC type cartridge fuses.

The indicating lights shall be provided as called for in schedule of quantities. All lights shall be provided with HRC type cartridge fuses. The coloured filters shall be used as per norms. All phase indicating lights shall be provided with ON/OFF toggle switches.

1.8 Tests

All tests shall be carried out as per relevant Indian Standards & CPWD Specifications. Contractors shall have to furnish test reports of all 'Tests'.

1.9 HEAVY DUTY COMPOSITE UNITS OF SWITCHES & FUSES

All switches shall be suitable for operation from the front and shall be as IS 13947-1997. The ranging of switch fuses shall be as specified. Outgoing feeders shall be neatly arranged in different compartments. Normally switches for individual feeders shall be accommodated in separate modules.

1.10 CABLE COMPARTMENTS

A full height compartment running behind the vertical modules shall be provided for easy termination of all incoming and outgoing cables entering from top or from bottom. Adequate supports shall be provided for the cables wherever necessary. The cable compartment shall have its own hinged cover which can be removed for easy access during cabling

1.11 INTERCONNECTIONS AND CONTROL WIRING.

Switch board shall be completely factory wired ready for connecting to the equipment. Power connection of the circuit shall be done by Aluminium flats or by adequate size of PVC insulated stranded copper wires. Control wiring shall be done by PVC insulated wires of minimum size 1.5sqmm copper. All control wiring shall be fitted with identification ferrule at each end and not more than two connections shall be made at any one terminal. The wires shall be arranged and supported in such a manner that there shall be no strain on the terminations

1.12 TERMINAL ARRANGEMENT :

The terminals shall be adequate current rating and size to suit individual feeder requirements. Cable lugs used for terminations shall be mounted in such a manner so as to facilitate easy cable connections. Terminals shall be mounted in cable compartment. Tap-off connections at the busbars shall be made with nuts, bolts and washers. Busbars shall not be threaded for terminating wire connections.

1.13 CABLE ENTRY

The switch board shall be designed to facilitate Copper/Aluminium conductor PVC cable entry from top or bottom as the case may be. Removable sheet steel plate provided with suitable size of cable glands as specified shall be fitted at the top or bottom.

1.14 EARTHING BUSBARS.

The earth bus bar shall be Aluminium/copper and of appropriate size.

1.15 ACB

All Air Circuit Breakers shall be of 3/4 Pole with minimum 50 KA breaking capacity (35 MVA at 433 V) as per schedule & Conforming to IS 13947 (Part II) Rated current shall be as per the capacities and as per the schedule

1.16 PAINTING.

All sheet metal work shall undergo seven tank process such as degreasing, pickling in the acid, cold rinsing, phosphating, passivating etc and then be sprayed with high corrosion resistant primer. The primer shall be baked in an oven. The finishing treatment shall be by application of two coats of synthetic paint of approved shade of supply.

2.0 GENERAL:

2.1 The Panel board shall be complete with necessary interconnections, cable sockets, circuit labels, control wiring colour and number coding ferrules. The panel shall be powder coated, duly painted with approved colour (Seimens grey matte finish).

2.2 The meters, indicating lamps shall have necessary protective fuses.

2.3 Suitable size of earth bus bar to be provided running along the length of the switch board with earth terminals.

2.4 The design, manufacture and testing of various equipments covered by the latest issue of IS specifications.

2.5 Guarantee: The panel components shall be guaranteed against material and/or manufacturing defects and for its perfect functioning for a period of eighteen months from the date of supply or one year from the date of commissioning of the equipments whichever is earlier

2.6 Drawings of Panel may be got approved from Engineer-in-charge before fabrication.

2.7 The panels shall be got inspected by the Engineer-in-charge before 7 tank process and before dispatch from the manufacturer's workshop.

3.0 CABLE WORK

Cables shall be laid in accordance with the CPWD General specification for Electrical works –Part-II (External) 1994 amended up to date.

4.0 EARTHING

The Earthing shall be done as per the as per Section 7 of CPWD specification for Electrical works Part-IV (Sub stations)

5.0 MCB

The incoming MCCB should be provided with earth fault release.

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Annexure- III (List of material of approved make/PRODUCT DIRECTORY)

Sl. No	Item	Make
1	Engine	Cummins/ KOEL/Greaves/ Caterpillar/ Ashoka Leyland/ Eicher/ Mahindra
2	Alternator	Kirloskar / NGEF/ Leory Somer / Stamford/ Crompton Greaves (Brushless, 6-200KVA)/AVK-SEG (Up to 250 KVA)/ Electrodyne (up to 100 KVA) Crompton Greaves A1 series
3	ACB	L&T/ Siemens/ Crompton/ Control & Switchgear/ GE Power Controls.
4	MCCB	Siemens/ L&T/ GE Power Controls/ Control & Switchgear/ Crompton/ Havells
5	TPN Switch& HRC Fuses	Siemens/ L&T/ GE Power Controls/ Havells/ H- Elecon/ HPL
6	CT	AE/ IMP/ Marshal/ Pactil/ Kappa/ L&T/ Asmor/ Indcoil/ Waco/ Meco
7	AMMETER/VOLTMETER	AE/ MP/ Universal/ Reshabh/ Kaycee/ Meco/ Enercom
8	SELECTOR SWITCH	L&T/ KAYCEE/ AE/ IMP/ Thakoor/ Reco/ Vaishno/ Selzser/ Resscontrol
9	INDICATING LAMP	Vaishno/ Siemens/ L&T/ AE/ IMP/ Rasscontrol/ Teknik/ Crompton/ Kaycee.
10	CAPACITOR	Khatau/ Junkar/ Crompton/ L&T/ Universal/ Electric/ Usha/ Asian/ AE/ IMP
11	Cables	a) Upto 1.1 KV grade: Rallison / Polycab/ Finolex/ Havells/ RR/ Grandlay/ KEI
		b) Above 1.1 KV grade: Rallison/ Polycab/ Finolex/ Havells/ RR/ Grandlay/ KEI
12	PVC insulated copper conductor wire	Polycab/ Finolex/ Havells/ RR/ Grandlay/ Rallison/ KEI/ Kalinga
13	Fire Extinguishers	Minimax/ Ceasefire
14	Rubber Matting	ISI Mark
15	Cable Joint Kit	Raychum/ M-Seal/ Densons
16	Single phasing Preventor	L&T/ Minilac/ Zerotrip/ Siemens
17	Timers	L&T/ Siemens/ Minilac/ Telemechanique/ AE
18	MCBs/Isolators& Distribution board	Havells/ Siemens/ MDS/ L&T/ ABB
19	Change over Switch	Havells/ Control and Switch Gear/ H-Elecon/ L&T/HPL Socomec/ Siemens
20	Piano Switch	Anchor/ Havells/ M-Kay/ AKG/ Siemens
21	M.S. Conduit	Vikas/ M-Kay/ AKG/ Steel Craft/ BEC/ National/ NIC/ MST
22	ELCB	MDS/ Havells/ Datar/ Siemens/ GE Power Control
23	Contactors	Siemens/ L&T/ GE Power Controls/ Crompton/ MEI/ Laxmi
24	A/C UNIT	VOLTAS/ BLUESTAR/ HITACHI/ TATA LIBERTY & CARRIER
25	Compressor of A/C	As per manufacturer design
26	G.I. pipe	BST/ TATA/ JINDAL/ ZENITH/ Swastik
27	G.M. VALVES	SANT/ LEADER/ TRISHUL/ Zoloto/ ANNAPURNA

28	G.I. SHEET	TATA/ SAIL/ NIPPON DENRO/ HSL/ JINDAL/ NATIONAL
29	Lead Acid batteries	EXIDE/ FURUKAWA/ AMAR RAJA/ HITTACHI/ CROMPTON GREEAVES/ AMCO
30	ENGINE	CUMMINS/ RUSTON/ ESCORTS/ CATERPILLAR/ ASHOK LEYLAND/ GREAVES
31	ALTERNATOR	KIRLOSKER/ NGEF/ STAMFORD/ CROMPTION/ GREEAVES/ ELECTRDYNE/ ELGI
32	HEAT DETECTOR	APPOLLO/ NITTON/ CHEMTRON/ EDWARD/ FENWAL/ WORMALD/ HOCHIKI
33	MONOBLOCK PUMP	CROMPTON/ KSB/KIRLOSKAR/ GE
34	Submersible pump	CROMPTON/ KSB/ KIRLOSKAR/ GE
35	Pole boxes	SINTEX/ HENSEL
36	Modular type switches/ Sockets/ TV/ Telephone outlet	Anchor/ Havells/ M.Kay/ Legrand/ AKG
37	BLDC Fan	Usha/ Atomberg

- Note:-** 1. Materials other than the above list shall be any ISI marked make.
2. In some cases similar superior make (SS make) are mentioned. SS make can only be considered for acceptance by the engineer – in – charge during unavoidable circumstances. The contractor shall not enforce to provide items at his own convenience. The decision of engineer-in- charge in such cases are final and binding.
 3. In case of any discrepancy in the tender document, the order of preference shall be :- 1.SOQ
2.Product Directory 3.Specifications

Executive Engineer (E)

APPENDIX –A
LIST OF RELEVANT INDIAN STANDARDS
LIST OF RELEVANT INDIAN / INTERNATIONAL STANDARDS

(A) Generating Set		
ISO 8528	Part - I	Application, rating and performances.
	Part - II	Engines
	Part - III	A.C. Generator for generating set
	Part - IV	Control gear & switch gear
	Part - V	Generating Sets
	Part - VI	Test methods
	Part - VII	Technical declaration for specification and design
	Part - VIII	Low power general purpose generating sets
	Part - IX	Measurement and evaluation of mechanical vibration
	Part - X	Measurement of Airborne Noise - Enveloping surface method
	Part - XI	Security generating sets with uninterruptible power system
(B) Engines		
IS 10000 (Naturally Aspirated)	Part - I 1980	Methods of tests for I.C. Engines Part - I - Glossary of terms relating of test method
	Part - II 1980	Standard reference condition
	Part - III 1980	Measurements for testing units and limits of accuracy.
	Part - IV 1980	Declaration of Power, Efficiency, fuel consumption, lubricating oil consumption.
	Part - V	Preparation for tests and measurement of wear
	Part - VI	Recording of test results.
	Part - VII	Governing test for constant speed engines and selection of engines for use with electrical generators.
	Part - VIII	Performance tests
	Part - IX	Endurance test
	Part - X	Tests for smoke level, limit and correction for smoke level for variable speed.

	Part - XI	Information to be supplied by the purchaser to the manufacturer and information to be supplied by the manufacturer alongwith the engine.
	Part - XII	Specimen test certificates
	Part - XIII	Recommendations on nature of tests required for functional changes in critical components.
BS 5514	Part 5 - 1979	Reciprocating Internal Combustion engines,
ISO-3046	Part V 2001	Performance, torsional vibrations.
	Part - I 2002	Declaration of powers, fuel and lubrication oil consumptionand test methods.
	Part - 3 - 1989	Test measurement
	Part - 4 - 1997	Speed Governing
	Part - 6 - 1990	Overspeed protection.
BS 649		Reciprocating Internal Combustion engines, performance, torsional vibrations.
(C) Alternator		
IS 4889/BS - 269		For declaring efficiency of electrical machines.
IS 4722 - 1992		Capability of machine to withstand over current/overload.
IS – 13364	Part I 1992	Alternator - Voltage Regulation upto 20 KVA
IS – 13364	Part II 1992	Alternator - Voltage Regulation above 20 KVA to 80 KVA
IEC 34 -1 - 1983		Rotating Electrical machines - Rating & Performance
IP – 21	IS - 4691/85	Alternator (Degree of Protection)
(D) Acoustic Enclosure		
IS – 8183		Insulation material for sound absorption.
ISO 3744	1998 (E)	Acoustics - Determination of sound power levels of noise sources.
ISO 8528	Part - 10 1998 (E)	Measurement of Air borne noise by enveloping surfacemethod.
ISO 9614 -	1993 Part - I	Requirement of grade - II. Accuracy for insulation.
ISO 9614 -	1996 Part - II	Requirement of grade - II. Accuracy for insulation.
(E) Control Panel/ AMF Panel		
IS -2147 1962		Degree of protection.
IS – 4722		H.V. testing for panel

TESTING OF DG SET

(the testing of DG set will done at site and following information will be filled.)

STATION:

DATE:

TESTED BY:

NAME & PARTICULARS:

ITEM ENGINE ALTERNATOR	ENGINE	ALTERNATOR
Manufacturer's name		
Type		
Serial No		
Rating		

NOTE: 1. The tests prescribed in this schedule are to be followed generally. In case they are in variation with the manufacturer's instructions/ manuals, the procedure shall be suitably modified conforming to the manufacturer's instructions.

2. Testing shall be done considering the Engine capacity as full load.

PHYSICAL VERIFICATION

Item Remarks

- (a) Check all type the plinth area with the approved plan. :
- (b) Check whether sand is filled. :
- (c) Verify level of bed :
- (d) Check whether anti-vibration pads are provided. :
- (e) Check firmness of mounting. :
- (f) Check for verticality :
- (g) Verify tightness of bolts and nuts and other fitting. :
- (h) Check whether hot air pipe (if provided is properly lead out) :
- (i) Check whether exhaust pipe is properly lead out and lapping of asbestos rope provided for part of the run.
- (j) Check whether proper ventilation is provided. :
- (k) Check exhaust fans for their proper functioning. :
- (l) Check whether necessary guard wire nets are provided. :

- (m) Location of oil tank at a suitable location for early flow of oil, check of loading in pipes. :
- (n) Check of electrical wiring & suitability of gauge of cables. :
- (o) Neatness of laying and leads are properly terminated:
- (p) Check whether the leads are properly terminated :
- (j) Check of fuses. :

(ii) Physical checking. :

- (a) Location of earth for Engine Alternator set. :
- (b) Type of earth. :
 - (c) Suitability of gauge of leads. :
 - (d) Resistance of Engine Alternator earth leads. :

1) LOAD TEST (A/T)

The Engine shall be given a test run continuously for at least 12 hrs (including one hours overloading test) with the alternator on full rated load. During the load test, record the following readings every hour:

Time	RPM	LOP	LOT	Voltage			Current						TEMP		
				RY	YB	BR	R	Y	B	Freq	PF	Water Temp.	ER	SC	

LOP : Lube Oil Pressure, LOT : Lube Oil Temperature, PF : Power Factor, ER : Engine Room/Canopy SC : Stator Coil
Calculation of load required:

Two types of loads can be utilized – Inductive loads or Resistive loads

FOR 15 KVA EA SET

a) When load used is inductive (Assuming Cos Φ=0.8)

$KW = \sqrt{3} \times V \times I \times \cos \Phi$ (When E/A set is 160 KVA; KW = 128)

$128000 = \sqrt{3} \times 415 \times I \times 0.8 \Rightarrow I = 222.60 \text{ A}$ i.e. Load of 222.60 A is required for 15 KVA E/Aset for load test

b) When load used is Resistive:

Here $\cos \Phi = 1$

Hence $I = 178.07 \text{ A}$ required.

2) TEMPERATURE RISE TEST FOR ALTERNATOR:

At full rated load, during the six hours, the last three readings taken should be stationary (constant). The temperature rise of stationary coil w.r.t. Ambient should not exceed 60 degree Celsius. Only two thermometers are used — one at the stationary coil and the other for the ambient. Record the reading of the stationary coil for every half hour till three consecutive stationary readings are recorded in the following tables.

TIME	AMBIENT TEMPERATURE	ALTERNATOR TEMPERATURE	TEMPERATURE INSIDE THE CANOPY

NOTE: Temperature rise will be taken by the thermometer from alternator body and will be recorded

3) CHECK OF FUEL CONSUMPTION

After steady conditions have been obtained, the fuel consumption at full load for half-hour shall be checked. The consumption limit for acceptance depends upon manufacturer’s specifications.

4) OVER LOAD TEST

Immediately after the load test an over-load test by 10% over-load for 1 hour shall be taken. The test results as for the load test should be taken. Also the temperature rise of stationary coil w.r.t. the ambient should not exceed 60oC.

5) INSULATION TEST

Immediately after the over-load test, take insulation test. The insulation resistance between the stator coil and the frame when tested with 500 V insulation tester shall not be less than 5 MΩ

6) REGULATION TEST

The automatic and manual regulation of the alternator at no load, half load and full rated load shall be tested for a nominal voltage of 230 volts between phase and neutral at Pf 0.8. The variation shall not exceed +/- 5 % of the nominal voltage. The recovery time shall not exceed 1 seconds. Variation in the output frequency should not exceed +/- 3 % of the nominal frequency of 50 CPS. It shall also be verified whether the alternator is capable of being set at

nominal

7) FUNCTIONAL TEST:

Functional tests on the following shall be carried out to re-assess for its proper performance.

- 1) Type of starting provided for the engine.
- 2) Visual and audio alarm, if provided.
- 3) Instruments: The accuracy of the indicating instruments shall be tested by comparing with a standard meter.

8) INSULATION RESISTANCE OF WIRING

Measure the insulation resistance of engine alternator O/P wiring control cubical wiring at site with respect to earth with 500V insulation tester. It should be more than one-mega ohms.

9) FIRE EXTINGUISHERS:

Adequate number of fire extinguishing equipments should be ensured. Also, the periodic checking certificate pasted on the extinguisher should be verified.

10) OPERATING INSTRUCTIONS/DRAWINGS:

Clear cut and easy to understand, boldly written/drawn operating instructions should be verified to be available for prominent display.

Also fire fighting instructions and protection in such cases have also to be verified to be available.

11) GENERAL OBSERVATION:

A clear environment with adequate provision for ready availability/storage of requisite quantity of fuel is to be ensured. Also, relevant sign-writings should be available in required places.

12) LIST OF TESTING INSTRUMENTS USED BY A/T TEAM:

- a) 500 V Megger for insulation test
- b) Earth tester for measuring earth resistance
- c) Digital clamp tester for measuring DC & AC voltage and current.

Deptt. Officer's Signature

Contractor's Signature

SCHEDULE OF TECHNICAL PARTICULARS

(It will fill by the contractor/Agency and submit alongwith technical bid)

Sl. No.

I. Engine

1. Make
2. Model/ISS reference
3. No. of cylinders
4. Rated R.P.M.
5. Method of Starting
6. Aspiration Method
7. BHP
8. Specific Fuel oil consumption (gm/BHP/hr.)
9. Lub. Oil recommended
10. Lub. Oil pressure
11. Qty. of lub. oil required
12. Time required for starting
13. Lub. oil sump capacity
14. Nos. of exhaust pipe required.
15. Dia. of exhaust pipe
16. Whether meets CPCB norms for Emission
17. Fuel Consumption at full load
18. Any other data.

II. Alternator

1. Make
2. Enclosure Details
3. Full Load output in KVA
4. Full Load output in KW at 0.8 PF

5. Designed over load capacity at max. ambient temp.
6. Efficiency at full load
7. Class of Insulation of rotor
8. Class of Insulation stator

III. General:

1. Overall Length of DG set L x W x H
2. Overall Weight of DG set
3. Noise Level of DG Set at one Metre with Acoustic Enclosure

IV. AMF Panels

1. Make
2. Type (Floor/Wall mounted)
3. Overall dimensions (L x B x H)
4. Finish

V. Generator Control Panel:

1. Make

VI. Acoustic Enclosure:

1. Make
2. Size
3. Details of Acoustic lining Material & Make

Signature with seal of contractor/bidder

GOVERNMENT OF INDIA
DEPARTMENT OF POSTS

STATE:- New Delhi
BRANCH:- Electrical
Zone:- N.E. ZONE

Circle:- New Delhi
Division:- New Delhi
Sub Division-PESD-III

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender or the work of **SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.(2nd call)**

To be submitted through E tendering **12.05.2026 at 15:00 Hours** AM one-tendering portal at <https://eprocure.gov.in/eprocure/app>

- i) To be opened in the presence of tenderers who may present through e-tendering on **13.05.2026 at 15:00 Hours** in the office of the Executive Engineer (E), Postal Electrical Division, New Delhi.

TENDER

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

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

I/We agree to keep the tender open **for 75 (Seventy five) days** from the last date of receipt of technical bid 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 by online mode(RTGS/NEFT/ECS)/ Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through

another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in Department of Posts in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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

Dated :.....

Signatures of Contractor

Postal Address:

Witness :

Address :

Occupation :

ACCEPTANCE

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

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

(a)

(b)

Dated :.....

Executive Engineer (E)
Postal Electrical Division
New Delhi

..

For & on behalf of the President of India

PROFORMA OF SCHEDULES

Schedule 'A'

Schedule/Bill of Quantities (MS Excel .xlsx file on the website against this work)

Schedule 'B'

Schedule of materials to be issued to the contractor

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
Schedule 'B' deleted				

Schedule 'C'

Tools and plants to be hired to the contractor

S.No.	Description	Hire charges per day	Place of issue
1	2	3	4
Schedule 'C' deleted			

Schedule 'D'

Extra schedule for specified requirements/ documents for the work, if any.

(i) General conditions, additional conditions, and particulars specifications as attached.

Schedule 'E'

Reference to General Conditions of contract: General Conditions of Contract for C.P.W.D. Works2020 with amendment issued By C.P.W.D. up to date of issue of NIT.

Name of work: **SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.**

Estimated cost of work: ₹1106787/-

- (i) Earnest money: ₹22136/- (to be returned after receiving performance guarantee)
- (ii) Performance Guarantee: 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher).
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.
- (iii) Security Deposit: 2.5% of tendered value

Schedule 'F'

General Rules & Directions:

Officer Inviting tender: Executive Engineer (E), Postal Electrical Division, New Delhi.

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3

See below

Definitions:

- 2(v) Engineer-in-Charge: Executive Engineer (E), Postal Electrical Division, New Delhi
- 2(viii) Accepting Authority: Superintending Engineer (E), Postal Electrical Circle, New Delhi
- 2(x) Percentage on cost of materials and labour to cover all over-heads and profits: 15%
2(xi) Standard Schedule of Rates: DSR-2025 (E&M),MR
- 2(xii) Department: Department of Posts
- 9(ii) Standard CPWD Contract Form CPWD-7 as modified & corrected up to date of NIT.

Clause 1

- (i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance: 7 day
- (ii) Maximum allowable extension with late fee @ 0.1 % per day of Performance Guarantee amount beyond the period provided in (i) above: 5 day

Clause 2

Authority for fixing compensation under clause 2: S.E. (E), PEC, New Delhi,

Clause 2A

Whether Clause 2A shall be applicable: No

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start 10 day

Table of milestones

S.No.	Financial progress	Time allowed (from date of start)
1	1/8 th (of whole work)	1/4 th (of whole work)
2.	3/8 th (of whole work)	1/2 th (of whole work)
3.	3/4 th (of whole work)	3/4 th (of whole work)
4.	Full	Full

Time allowed for execution of work **30 Days** Authority

to give fair and reasonable extension of time for Completion of work: EE New Delhi/SE PEC New Delhi

Clause 6,

Clause applicable – Yes

Clause 7

Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such

Payment for being eligible to interim payment: ₹ Nil

Clause 8B

- (i) This shall not apply for maintenance or up gradation contracts not involving any services.
- (ii) For other works, the limit shall be as below:

S.No.	Contract Value	Limit (₹)
1	Less than or equal to ₹ 1 crore	₹ 2,000
2.	More than ₹ 1 crore but less than or equal to ₹ 5 crore	₹ 5,000
3.	More than ₹ 5 crore but less than or equal to ₹ 20 crore	₹ 25,000
4.	More than ₹ 20 crore	₹ 100,000

Clause 10A

List of testing equipment to be provided by the contractor at site lab: 1. Meggar 2. Tong Tester (Clip on type) 3. Test Lamp 4. Earthing Test Kit 5. Continuity Tester -

Clause 10B(ii)

Whether clause 10B(ii) shall be applicable: No

Clause 10C

Component of labour expressed as percentage of value of work: 30 %

Clause 10CC

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column: 18 month.

Clause 11

Specification to be followed for execution of work: As per NIT/ CPWD Specifications guidelines amended upto date

Clause 12

Type of work:

12.2 & 12.3 Deviation limit beyond which clauses

12.2 & 12.3 shall apply for building work: 25%

12.5 Deviation limit beyond which clauses

12.2 & 12.3 shall apply for foundation work: NA

Clause 16

Competent Authority for deciding reduced rates: S.E. (E), PEC, New Delhi

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site: - 1. Electrical Drill Machines 2. Spanner Sets 3. Ladders. 4. Safety gloves and othe safety requirements.

Clause 32

Sl No.	Minimum qualification of technical representative	Discipline	Designation (Principal technical/ technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1.	Graduate Engineer	Elect. Engg	Principal Technical/planning/quality/billing Engineer	Nil	--	₹15000/- per month	₹ fifteen thousand per Month per person
2.	Diploma Holder	Elect. Engg	Technical representative/planning/quality/billing Engineer	5 year	1 no	₹ 15000/- per month	₹ fifteen thousand per Month per person

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

Diploma holder with minimum 10 year relevant experience with a reputed construction company 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.

CORRECTIONS TO CPWD 7

Corrections to CPWD 7 Form for use in Department of Posts

All reference to:-

- (i) CPWD / Public Works Department;
- (ii) Administrative Head of CPWD;
- (iii) Director General of works, CPWD;
- (iv) Chief Engineer, CPWD;
- (v) CPWD Circle; and
- (vi) Ministry of Urban Development

in various clauses shall respectively be taken to mean:

- (i) Department of Posts / Civil Wing;
- (ii) Administrative Head of Department of Posts;
- (iii) Chief Engineer (C), Department of Posts;
- (iv) Chief Engineer (C), Department of Posts;
- (v) Postal Electrical Circle; and
- (vi) Ministry of Communications, Department of Posts

except in the following places and clauses where no modifications are intended:

- (i) C.P.W.D. Safety Code;
- (ii) Clause 11, 19 B(i), 19B(iii), 19C and 19 G;
- (iii) Model rules for protection of health and sanitary arrangement for workers employed by CPWD or its contractors (heading only);
- (iv) C.P.W.D. Contractor's Labour Regulations (in heading and Regulation No.1 only); and
- (v) CPWD Delhi Schedule of Rates and CPWD Specifications.

Schedule of Quantities

Name of the work: SITC of 82.5 KVA DG Set at PLI Directorate, Chanakyapuri, New Delhi.						
Sl.no	Description	Qty	Rate	Unit	Amount	Remarks
	SH:-Part-I					
1	<p>Supplying, 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:</p> <p>(A) Diesel Engine:Tourbocharged Diesel engine 4 stroke water cooled,multi cylinder, ynamicly balanced fly wheel, electric start of suitable BHP at 1500 RPM suitable for aboveoutput of alternator at 40 0C, 50% RH & at 1000 Meter MSL , capable of taking 10% over loading for one hourafter 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.</p>					

<p>(B) Engine mounted Instrument Panel fitted with and having digital dis Plate for following:</p> <ul style="list-style-type: none"> (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 lubrication Oil trip indication (ix) Engine Running Hours indication (x) Fuel Level <p>(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 °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.</p> <p>(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.</p>					
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<p>(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.</p> <p>(F) Exhaust System: Dry exhaust manifold with hospital type exhaust silencer and catalytic convertor.</p> <p>(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.</p> <p>(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.</p> <p>(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</p>					
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<p>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 Reactive 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 and including the following:</p>					
<ol style="list-style-type: none"> 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 switch 3. 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 metering 5. 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 set 7. Fuse/ MCB for instruments 8. 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 monitor 10. Supply failure timer 11. Restoration timer 12. 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 indicator 15. 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 warning 16. Protection for over/under Frequency, Loss of ACsensing, Over Current, Unbalancing load with suitable number of relays and accessories 17. Maintenance notification based on Engine Run Hour & due date. 18. Load Management through PLC to achieve autoopening and closing of incomer breakers, bus couplerswitching 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					
	a) 82.5 KVA	1	set	741418	741418	DSR25
	Total of SH:-Part-I				741418.00	
	SH:-Part-B(Cabbling/Earthing/foundation)					
1	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry	4	set	8351	33404	DSR25

	enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required asrequired.					
2	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. asrequired.	40	Meter	755.00	30200	DSR25
3	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	20	Meter	287.00	5740	DSR25
4	Supply of following size PVC insulated, PVC sheathed/XLPE armoured, Aluminium conductor power cable of 1.1 kV grade (ISI marked) as reqd. (M/s Polycab or Similar superior make)					
a)	3.5X 120 sq. mm	80	Mtr	1920.00	153600.00	MR
b)	2X 10 sq. mm	80	Mtr	297.00	23760.00	MR
5	Laying/fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size above 95 sq mm to 185 sq mm in following manner etc as required.					
a)	In the existing RCC/ HUME/ METAL pipe as required.	10	Mtr	97.00	970.00	DSR25
b)	On wall surface as required.(Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	70	Mtr	180.00	12600.00	DSR25
6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of upto 35 Sqmm size in following manners complete as reqd.					
6.01	on wall surface (clamped with 1mm thick saddle)	70	Meter	64.00	4480.00	DSR25
6.02	In the existing RCC/ HUME/ METAL pipe as required.	10	Meter	47.00	470.00	DSR25
7	Providing, laying and fixing 100 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required	10	Metre	1918.00	19180.00	DSR25
8	Supplying and making end termination with brass compression gland and aluminium lugs/copper for following size of PVC insulated and PVC sheathed / XLPE aluminium/copper conductor cable of 1.1 KV grade as required.					
a)	3.5X 120 sq. mm (45 mm)	2	Set	710.00	1420.00	DSR25
b)	2X 10 sq. mm (19 mm)	2	Set	297.00	594.00	DSR25

9	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.	160	mtr	50.00	8000.00	DSR25
	Foundation					
10	Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres.	5	cum	177.50	887.50	DSR25 15.1
11	Providing and laying in position cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.	5	cum	7294.70	36473.50	DSR25 15.8
12	Providing 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels. sqm Rate to be taken from Civil DSR	6	sqm	399.45	2396.70	DSR25 15.12
13	Supplying and fixing of 50x50x5mm MS Angle on the existing DG Foundation for its edge protection etc as required.	15	mtr	518.00	7770.00	MR
14	Supplying & fixing of 250 Amp FP on load Change Over switch on the existing angle iron frame i/c connection ,testing etc as reqd. (M/s. L&T or ss Make)	1	Each	23423.00	23423.00	MR
	Total of SH:-Part-II				365368.70	
	ABSTRACT OF COST					
	SH:-Part-I			741418.00		
	SH:-Part-B(Cablling/Earthing/foundation)			365368.70		
	TOTAL			1106787		