

**TENDER DOCUMENT  
VOL I  
(TECHNICAL BID)**

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 125 KVA DG SET  
COMPLIANT TO LATEST CPCB/HSPCB GUIDELINES**

**AT**

**THE INSTITUTE OF COMPANY SECRETARIES OF INDIA,  
CENTRE FOR CORPORATE GOVERNANCE, RESEARCH & TRAINING  
(ICSI-CCGRT),**

**AT**

**PLOT NO- 3, SECTOR-02, IMT MANESAR, GURUGRAM.**

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**THE INSTITUTE OF  
Company Secretaries of India**

**भारतीय कम्पनी सचिव संस्थान**

**IN PURSUIT OF PROFESSIONAL EXCELLENCE**

**Statutory body under an Act of Parliament**

**(Under the jurisdiction of Ministry of Corporate Affairs)**

**ICSI HOUSE, 22, INSTITUTIONAL AREA, LODHI ROAD, NEW DELHI-110003**

**Website: [www.icsi.edu](http://www.icsi.edu)**

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**SECTION I**  
**NOTICE INVITING TENDER**

The Institute of Company Secretaries of India (ICSI), invites tender from the prospective/Eligible Bidders for Supply Installation Testing and Commissioning of 125 KVA DG Set and allied works at CCGRT Manesar premises at Plot No. 03, Sector 02, IMT Manesar, Gurugram, 122052, having similar work experiences and credentials.

<b>Sl. No.</b>	<b>Particulars</b>	<b>Data</b>
1	Name of Work	Supply Installation Testing and Commissioning of 125 KVA DG Set and allied works at CCGRT Manesar premises at Plot No. 03, Sector 02, IMT Manesar, Gurugram, 122052.
2	Estimated Cost	₹17,50,000/- (approx..)
3	Period of Completion	45 Days
4	Cost of tender (Non-Refundable)	₹1000/-
5	Earnest Money Deposit (Refundable)	₹35,000/-
6	Last Date & Time for Submission of tender	25 <sup>th</sup> June 2026, up to 3:00 PM
7	Pre-Bid Meeting	19 <sup>th</sup> June, 2025 at 2:30 PM at ICSI House, Plot no. C-36, Sector 62, Noida
8	Date of Opening of Technical Bid	25 <sup>th</sup> June, 2026 at 4:00 PM

Bidder shall submit bid proposal along with the cost of tender document (non-refundable) & Earnest Money Deposit (refundable) complete in all respects as per the Bid Information sheet. The technical bids will be opened in the presence of authorized representatives of bidders/ applicants, who wish to be present.

Bid documents, which include Volume I: Technical Bid (Notice Inviting Tender, Eligibility criteria, “Technical Specifications”, Various Conditions of contract, formats, etc.) and Volume II (Financial Bid), which can be downloaded from website <https://www.icsi.edu/tenders/>.

Any amendment (s)/corrigendum/clarifications with respect to this Bid shall be uploaded on Institute’s website only. The Bidder should regularly visit/ follow up for any Amendment/Corrigendum/Clarification on the above website.

Incomplete tender document Bid proposals received without or lesser than the prescribed Documents, Information, Cost of Tender Document, EMD will not be considered. In the event of any date indicated above is a declared Holiday, the next working day shall become operative for the respective purpose mentioned herein.

**Joint-Secretary-SG (Infra. & Admin.)**  
**The Institute of Company Secretaries of India**

**SECTION- II**  
**SALIENT FEATURES OF THE TENDER**

1.	Type of Contract	Item Rate Basis
2.	Validity of offer	<b>60 days</b> from the date of opening of the offers. The same may be extended for a further period of 60 days with concurrence of the Tenderers.
3. i)	Earnest Money Deposit (Refundable)	<b>₹35,000/-</b> by Demand Draft (DD)/ pay order drawn in favour of <b>The Institute of Company Secretaries of India</b> , Payable at <b>New Delhi</b> .
ii)	Cost of Tender documents (non-refundable)	<b>₹1000/-</b> by Demand Draft (DD)/pay order drawn in favour of <b>The Institute of Company Secretaries of India</b> , Payable at <b>New Delhi</b> .
4.	Eligibility	<b>As per Section IV</b>
5.	Place of submission / opening of bids	ICSI House, Plot No. C- 36, Sector 62, Noida – 201309, U.P.
6.	Mode of submission of Tender documents	May be submitted by hand or through Post/Courier so as to reach before the due date & time
7.	Mobilization advance	10% of the Contract price against equivalent amount of Bank Guarantee from any Nationalized / Scheduled Bank in favour of the Institute.
8.	Period of completion	45 Days from the date of issuance of Work-Order.
9.	Payment Terms	<p>I. Equipment</p> <p>a. 70% of the Cost of Equipment after delivery at site.</p> <p>b. 22.50% after successful installation &amp; commissioning.</p> <p>c. Balance 7.50% to be retained till expiry of Defect liability period or same may be refunded against the equivalent of Bank Guarantee valid for a period of 60 days beyond the date of completion of all the Contractual Obligations</p> <p>II. Low Side Work</p> <p>a. 92.50% of the total Running Bills</p>

**Seal & Signature of Bidder**

		<p>value after Joint Inspection &amp; verification of measurement of different items executed.</p> <p>b. Balance 7.50% to be retained till expiry of Defect liability period of 1 year OR same may be refunded against the equivalent of Bank Guarantee valid for a period of 60 days beyond the date of completion of all the Contractual Obligations.</p>
10.	Minimum value of Running Bill	₹10,00,000/-
11.	Period of honoring of certificates	21 days from the date of joint Verification and certification of bill.
12.	Defect Liability period	12 months from the date of issue of virtual Completion certificate.
13.	Manufacturer Warranty/Guarantee for DG Set	Minimum 2 years from the date of Commissioning & handing over of DG set
14.	Liquidated Damages	0.5% per week or part thereof for delay beyond the stipulated completion period subject to the maximum of 10% of total Contract Price.
15.	Language for communication	English
16.	Insurance, Custom Duties, GST & any other applicable taxes	To be provided and paid by Contractor (price quoted during Tender submission to include all applicable taxes) i.e., net to the Institute.
17.	Assignment & Subletting	Not allowed
18.	Rates of B.O.Q's items	To be quoted all-inclusive and including all materials, applicable taxes, GST, charges, surcharges, royalties etc.
19.	Period of submitting final bill by Contractor	One (1) month from the date of completion
20.	Labour-Cess	As per applicable laws of local statutory / Govt. Authority to be submitted directly by the Contractor.
21.	Water and Electricity	<p>Water Supply: Water Supply shall be provided by owner at one point.</p> <p>Electricity Supply: Electricity supply shall be provide by Institute at one point only. The distribution of the same to the required</p>

**Seal & Signature of Bidder**

		point by ensuring compliance of all electrical/safety measures.
	Income tax/GST deduction	At prevailing rates from each bill
<p><b>Important Note:</b> Prospective Bidders are requested to remain updated for any notices/amendments/clarifications etc. to the Tender document through the website. No separate notifications will be issued for such notices/amendments/clarification etc. in the print media or individually.</p>		

SECTION- III  
**INSTRUCTIONS TO THE TENDERER**

Sealed Tenders are invited from eligible/prospective Contractors for Supply Installation Testing and Commissioning of 125 KVA DG Set and allied works at CCGRT Manesar premises at Plot No. 03, Sector 02, IMT Manesar, Gurugram, 122052. The last date of receipt of the offer in a sealed envelope addressed to:

**The Secretary,  
The Institute of Company Secretaries of India  
ICSI House, Plot No. C- 36,  
Sector 62, Noida – 201309, U.P.**

Super scribing “**Tender for SITC of 125 KVA DG Set and allied works at CCGRT-Manesar**” through Registered Post/Speed Post/courier on or before 25<sup>th</sup> June 2026 till 3:00 PM and the same may be also dropped before the aforesaid cut-off date & time in a sealed tender box kept in the Reception of above mentioned Office along with prescribed Earnest Money Deposit (refundable) and cost of tender documents (non-refundable) as per the details mentioned in the tender documents.

The Sealed envelope (containing sealed envelope-1 and envelope-2) shall contain the following documents:

**Envelope 1 –**

- Technical Bid (duly filled up, signed and stamped on each page).
- Prescribed EMD and Cost of Tender Paper.
- Enclosures to establish the eligibility as per Section IV
- Documents showing relevant work experience in last 5years.
- Authorization Letter of Signatory, as and if applicable.

**Envelope 2 –**

- Financial Bid – Duly filled up BOQ and signed & stamped on each page.

1. The tender document can be downloaded from June 15, 2026 to June 25, 2026 (till 03:00 PM) from the website of the Institute ([www.icsi.edu](http://www.icsi.edu)) or Central Public Procurement Portal (CPPP) (<https://eprocure.gov.in/epublish/app>) for which Bidder would be required to enclose a demand draft of Rs.1000/- (non-refundable) from any of the scheduled bank drawn in favour of “**The Institute of Company Secretaries of India**” payable at New Delhi. The bidder can also make online payment of Rs.1000/- by using following online link: “<https://apps.icsi.edu/TenderApp/>” and enclose the receipt of online payment generated by the system towards the cost of the tender document with the bid. The bidder who fails to submit the cost of the tender document with the bid, their bid shall not be considered for evaluation and no further communication shall be entertained in this regard. If any discrepancies found in the downloaded version of the tender document, the latest version of the tender document published by the ICSI through website notification at **Institute’s website:**

<https://www.icsi.edu/tenders/> or **Central Public Procurement Portal (CPPP):**  
<https://eprocure.gov.in/epublish/app> will be treated as authentic and correct.

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<i>All bidders irrespective of their registration with NSIC/MSME must submit the requisite fee towards the cost of Tender.</i>
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1. Each of the tender documents are required to be signed by the person or persons submitting the tender in token of his/ their having acquainted himself/ themselves with all the conditions/ specifications, as laid down. Any tender with any of the document not so signed may be rejected.
2. **The technical clarification, if any required, may be obtained from the Asstt. Director/Executive (Infra.), Dte. of Infra., ICSI (P.no. 0120-4522046/4082143) on any working day during normal working hours i.e. 9:00 AM to 5:30 PM. The bidder may visit the site on any working days in coordination with Sh. Ajay Sharma, Deputy Director, CCGRT Manesar (Contact no. 9555640533).**

3. The Queries related to the tender may be sent through email-on-email ID [abhishek.raj@icsi.edu](mailto:abhishek.raj@icsi.edu). The queries will be addressed during the Pre-Bid meeting scheduled on 19<sup>th</sup> June 2025 at 2:30 PM at ICSI House, Plot no. C-36, Sector 62, Noida.
4. The party submitting the tender must obtain for himself on his own responsibility and expenses all the information, which may be necessary for the purpose of filling this tender and for entering into contract for the execution of the same and must examine and inspect the site of the work to get acquainted with all local conditions and matters pertaining there to.
5. Any additions and alternations made in filling the tender must be attested and counter-signed by the tenderer. Over-writing of figures is not permitted. Failure to comply with either of these conditions will render the tender invalid. No request, advice or any change in rates or conditions after submission of the tender will be entertained.
6. The tenderers shall submit Earnest Money Deposit (EMD) of Rs 35,000/- in the form of Demand Draft drawn in any of the Scheduled Bank in favour of **Institute of Company Secretaries of India**, payable at **New Delhi**. The bidder can also make online payment of the EMD using following online link: [“https://apps.icsi.edu/TenderApp/”](https://apps.icsi.edu/TenderApp/) and enclose the receipt of online payment generated by the system with the bid. The EMD of the unsuccessful tenderers will be refunded without any interest within 30 days, subsequent to decision of awarding the Contract. Any tender not accompanied by the requisite Earnest Money in Demand Draft will not be considered and shall stand rejected. It may be noted that conditional Tender shall be summarily rejected. The EMD of the Tenderer shall be forfeited in the following circumstances: -
  - (i) The Tenderer withdraws his bid;
  - (ii) The Tenderer either fails to start the work within period of 7 calendar days or after the receipt of letter of acceptance of tender or the Work Order;
  - (iii) The Tenderer fails to supply materials / deliver services as per the terms and conditions of the Tender and Purchase / Work Order.
  - (iv) Any other justified reasons e.g. misleading or wrong information in the Bid, violation of the terms and conditions of the tender, involvement in forming ring /Cartel, submission of multiple bids in different names etc.

*(Note: The bidders having valid registration with NSIC/MSME may avail exemption from submission of EMD but must enclose valid NSIC / MSME certificate/document in envelope No. 1 instead of EMD demand draft).*

7. The successful tenderers shall within 3 (working) days of the receipt of work-order from Institute shall give written acceptance of the work-order and commence the work

immediately after receipt of Work-Order.

8. All compensations or other money payable by the Contractor to ICSI under the terms of this contract may be deducted from the Security Deposit or from any sum that may be or may become due to the Contractor on any account whatsoever and in the event of the Security Money being reduced by reason of any such deductions the Contractor shall within 7 days of being asked to do so make good in cash or cheque any sum or sums which have been deducted from his Security money.
9. In case, where the same item of work is mentioned at more than one place in the Schedule of quantities, the lowest of the rates quoted by the Contractor for the item shall be taken for the payment of that item.
10. ICSI shall have the right to assess the competencies and capabilities of the tenderer(s) by going through the credentials given in the Technical Bid and on the basis of such credentials, the ICSI may reject the candidature of the tenderer without assigning any reason and decision of the ICSI shall be final. In such case(s) the Financial Bid shall not be opened for that particular tenderer.
11. The acceptance of tender shall rest with the ICSI. ICSI does not bind itself to accept the lowest tender and reserves to itself the right to reject any or all the tenders received without assigning any reason(s) whatsoever and any notice to tender(s). Non acceptance of any tender shall not make the ICSI liable for compensation or damages of any kind. ICSI further reserves the right to accept a tender other than the lowest or to annul the entire tendering process with or without notice or reasons. Such decisions by ICSI shall be final and shall not attract any liability whatsoever consequent upon such decisions.
12. The Financial Bids of only those parties who qualify in the technical evaluation/scrutiny shall be opened and scheduled time and date for opening the Financial Bids shall be communicated separately to all qualified bidders.
13. ICSI reserves the right of accepting the tender in whole or in part without assigning any reason and such decision shall be final. The part acceptance of the tender shall not violate the terms and conditions of the tender and contract and the tenderer shall execute the work at the specified rates without any extra charges or compensation within the stipulated period.

## SECTION – IV

### **ELIGIBILITY OF TENDERER**

#### **A. QUALIFICATION REQUIREMENTS**

- i. Should have satisfactorily completed at least One similar work costing not less than 80% of Estimated cost  
OR  
two similar work costing not less than 60% of Estimated cost  
OR  
three similar works costing not less than 40% of Estimated Cost during the last five years. Similar work means: Supply Installation Testing & Commissioning of DG set with allied works for Office/Institute/Commercial buildings.
- ii. Should have minimum Average Annual financial turn-over of 14 Lakh or more during last three years ending 31st March 2025.
- iii. The Contractor should have valid GST Registration Certificate.
- iv. The bidder shall be authorized dealer of DG OEMs Cummins/Kirloskar/KOEL/ Kohler/ Perkins/MTU

#### **B. DOCUMENTS REQUIRED TO BE SUBMITTED FORELIGIBILITY**

The Tenderer shall submit documents in respect of possessing Qualifying requirements asunder duly certified and stamped by his authorized signatory:

- a) GST Registration Certificate.
- b) List of Jobs undertaken with details and value meeting the above conditions.
- c) Copies of work orders issued by reputed Organization/Firm/Institute(customers)
- d) Copies of completion certificates issued by clients.
- e) Copies of audited profit and loss accounts accompanied by relevant schedules for turnover figures.
- f) Signed & stamped authorization letter of OEM.

## SECTION - V

### GENERAL CONDITIONS OF CONTRACT

#### 1. DEFINITIONS:

- (a) "Owner/Institute" Shall mean **Institute of Company Secretaries of India** having its Head Office at **ICSI House, 22, Institutional Area, Lodhi, New Delhi 110003** and shall include its legal Representative(s) / assign(s) or authorized officer.
- (b) "Engineer-in Charge" Shall mean the Technical/representative of the ICSI designated to supervise the work from time to time.
- (c) "Contractor" Shall mean the individual or firm or company, undertaking the work and shall include legal personal representatives of such individual or the persons comprising such firm or company or the successors of such individual or firm or company and the permitted assignee of such individual or firm or company.
- (d) "Contract" Means the documents forming the tender (both Technical and Financial bid) and Work Order/ acceptance thereof and the formal agreement executed between the competent authority on behalf of The Secretary, ICSI House, 22, Institutional Area, Lodhi Road, New Delhi-110003, and the Contractor, together with the documents referred to there in including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
- (e) "**B.I.S**" Shall mean specifications of Bureau of Indian Standards (BIS);
- (f) "**Bid**" Shall mean the Techno Commercial and Price Bid submitted by the Bidder along with all documents/credentials/attachment's annexure etc., in response to the Tender Notice, in accordance with the terms and conditions hereof.

In the contract, the following expressions shall, unless the context otherwise requires have the meanings, hereby respectively assigned to them:

- i. The expression works or work shall, mean and include works mentioned under head Scope of Work.

- ii. The site shall mean Institute's CCGRT Manesar Premises at Plot No.03, Sector 02, IMT Manesar, Gurugram, Haryana - 122052.
- iii. Schedule(s) referred to in these conditions shall mean the relevant schedule(s).
- iv. Tendered Value means the value of the entire work as stipulated in the letter of Intent/award of work.

## **2. SCOPE OF WORK:**

Supply Installation Testing and Commissioning of 125 KVA DG Set and allied works at CCGRT Manesar premises at Plot No. 03, Sector 02, IMT Manesar, Gurugram, 122052.

The above-mentioned scope of work shall include followings:

- a) Submission of Technical Data Sheet, GA Drawings, shop drawings foundation/loading plan, Single line diagram, electrical drawings etc.all complete and obtaining approval of the Architect of the project and representative of Institute.
- b) Structural strengthening of basement slab for placing of Dg set using structural members as per the recommendation of structural engineer.
- c) Making arrangements for placing DG set with construction of required foundation of PCC with vibration pads, as per the requirement of the system. Alignment, leveling and fixing of DG set on foundation including loading, unloading, shifting and placing of DG set at desired location.
- d) The Contractor shall ensure that the structural integrity/water-proofing of the basement slab should not be adversely affected in the process of fixing of DG set.
- e) Supply, Installation, Testing and commissioning 125 KVA DG Set with,45/420 V, 3 Phase, 50 Hz complete with the specifications as mentioned in BOQ, including control cabling. Earthing etc. all complete.
- f) The systems shall be complete with PV modules, inverter, metering, junction boxes, AC, DC distribution boards and cables, communication interface, and any other equipment necessary for safe and efficient operation of the system.
- g) The work shall also include interconnection of PV system with the existing grid supplying power to the building.
- h) The civil works for installation of complete system shall also be in scope of Contractor including pcc, fabrication works, anchoring to ensure better stability of the system (Note the Contractor shall ensure that there is no damage to the Water- proofing of the slab).
- i) Obtaining permissions/statutory approvals/NOCs from respective local authorities (i.e. State Pollution Control Board, Electricity Boards etc.) as applicable for the project.
- j) Submission of CPCB IV+ compliance certificate and acoustic enclosure certificate.
- k) Ensuring Installation complies with CPCB guidelines for DG sets including stack height

and noise norms.

- l) Integration of the DG set with roof-top solar power system, so that only extra required power is generated by DG set during the generation of electricity by roof top solar power system.
- m) The equipment offered shall conform in all respects to high standards of engineering, design and workmanship and be capable of performing in commercial operation up to Bidder's guarantee in a manner acceptable to Institute, who will interpret the meaning of drawings and specifications and shall have the power to reject any work or materials, which in his judgment are not in full accordance there with.
- n) Buyback of Old 180 KVA DG Set of Cummins make Engine and Sudhir Enclosure, on "as is, where is" basis, including lifting, shifting etc. all complete in all respect as per instruction of engg In-charge. (Credit Price to be quoted). The date of Manufacturing of DG Set is July 2008. Total running hour usage of 330 Hours (approx.)
- o) It shall be the responsibility of the Bidder to ensure that all the works as per scope of the specification are completed for safe and efficient working of the system.
- p) All the necessary Co-ordination with regard to sub-contracted items (if any) shall be carried out by the Contractor. The Institute will communicate only with the Contractor for all matters pertaining to this contract.
- q) Cleaning the site after completion and removal of malwa / debris from the site with his own arrangement and cost.

### **3. CONTRACT VALUE:**

The total Contract value for proposed work, mentioned under heading "Scope of Work", shall be the amount derived on the basis of the rates quoted by the Contractor in their Financial Bid.

The above contract amount is inclusive of all taxes (including GST and any applicable as per central & state government norms), and duties, mentioned here but not limited to, Customs, Excise, Countervailing duties with cess, Overall cess on Duty component, Port Clearance charges, Transit Insurance, Inland transportation, Loading, Unloading, levies, royalties etc. all at the rates prevailing on the date of opening of tender.

### **4. TIME OF COMPLETION:**

Time is the essence of the Contract. The overall period for completion from the date of issuance of work order is 45 days.

The Contractor shall carry out and complete the work on the terms and conditions mentioned herein and contained in Contract, as per working drawings issued, and to the entire satisfaction of the Owner.

### **5. ESCALATION:**

The rates quoted by the Contractor shall be firm till completion of project & no escalation of

prices in material, labor or other inputs including taxes shall be payable to the contractor even if the contract period is extended by Owner for any reason whatsoever. However, quantities of items given in BOQ may vary and payment will be made as per actual quantity executed.

### **3. MOBILISATION ADVANCE:**

10% of the Contract value will be released to the Contractor as Mobilization Advance against the equivalent amount of bank guarantee of any Nationalized bank valid up to 15 days beyond the completion period. The mobilization advance paid shall be recovered from each running bill on pro rata basis.

### **4. LIQUIDATED DAMAGES:**

In case of delay in completion of work beyond scheduled period, Contractor shall have to pay penalty amounting to 0.5% of total contract price per week or part thereof for delay beyond the completion period subject to the max of 10% of total Contract Price.

### **5. COMPENSATION:**

Without prejudice to the foregoing, the Contractor shall be accountable and responsible to compensate and pay damages to ICSI for any loss/ damage/ claim/ liability, whatsoever, caused either directly or indirectly by the Contractor to the ICSI.

### **6. INDEMNITY:**

Contractor shall be solely liable for and shall indemnify the Institute, its officers, employees, directors, consultants and agents (“Representatives”) against all liabilities, losses, claims and expenses of any nature whatsoever arising from any personal injury or illness (including death) of any nature whatsoever and any penalty, loss, damage or destruction to any property whether real or personal where such liability arises out of or in connection with the conduct of the Services whether under common law, under statute or otherwise.

### **7. SCHEDULE OF QUANTITIES:**

The quantities of respective items mentioned in BOQ are indicative, the payment will be made as per actual quantities executed for respective items.

### **8. DISPATCH & TRANSITINSURANCE:**

All the materials required for the above-mentioned scope of work are to be dispatched and delivered at above mentioned site with own arrangement of transportation including loading, unloading and transit insurance by the Contractor. No extra cost will be paid in this regard.

### **9. MATERIALS:**

All material shall be as per the specifications mentioned in the tender documents and manufacturer’s test certificates for the same shall be provided whenever required. A record of all tests should be duly entered in appropriate registers and shall be available at all times for inspection by Owner.

## **10. SCHEDULE OF PAYMENT**

The payment will be in accordance with the actual quantities executed, based on the measurements as certified by the Engineer-in-Charge/ representative of owner and will be released as running bills as under and minimum value of each Running Bill should not be less than of Rs. 10,00,000/-). Payment will be made as under:

### **A. Equipment:**

- i. 70% of the cost of equipment after delivery at site.
- ii. 22.50% after successful installation & commissioning.
- iii. Balance 7.50% to be retained till expiry of defect liability period or same may be refunded against equivalent amount of bank guarantee valid for a period of sixty days beyond the date of completion of all Contractual obligations.

### **B. Low side work:**

- i. 92.50 % of total running bills value after joint inspection & verification of measurement of different items executed.
- ii. Balance 7.50% to be retained till expiry of defect liability period or same may be refunded against equivalent amount of bank guarantee valid for a period of sixty days beyond the date of completion of all contractual obligations.

## **11. SECURITY OF MATERIALS:**

Contractor shall be solely responsible for the physical security of materials at site including the materials procured by Owner directly (if any) and issued to Contractor. Any loss or damage to materials lying at site caused by theft, and riots, weather, accident, fire, rain, flood etc. will be entirely to Contractor's account and Contractor shall make good, the value of such loss to the Owner. Contractor at their own cost shall take all necessary steps to ensure protection of material lying at site, provision of security guards, and appropriate storage space etc.

## **12. NON-TENDER ITEMS:**

Owner shall have the right to add / change / delete any item at their absolute discretion. Payment for Non-Tender Items shall be made on the basis of Rate Analysis to be submitted by the Contractor along with original proof of purchase.

The Contractor shall be paid actual cost for labour and material plus 15% (towards incidental charges, overheads & profits) for Non-tendered Items based on approval of Rate Analysis by the Owner. WCT/GST on work contract is to be paid on these items, as per prevailing statutory rates.

## **13. QUALITY ASSURANCE:**

Contractor is expected to perform work of high standard and quality. Contractor shall perform quality checks as per standard engineering practice. Periodic reports shall be generated and/or as advised by Owner required in adherence to good engineering practice.

All works shall be carried out as per specifications, B.O.Q & drawings. In case of any ambiguity, decision will be given by the Architect/Engineer-in-charge on the basis of relevant IS codes/Standards.

In case the works carried out by Contractor are found to be of unacceptable quality, Owner shall order dismantling of such defective works and advise contractor to carry out quality work to the entire satisfaction of the Owner without affecting the contract value or contract time. No payment will be made over and above the rates in the Bill of Quantities for such re- work. Owner reserves the right to get defective work removed or rectified through other agencies & recover the cost thereof from the Contractor's dues.

#### **14. SAFETY:**

Contractor shall have to provide all required safety accessories i.e. safety helmet, safety belt etc. to his workers while working at height with his own cost and follow all safety rules regulation and all statutory provisions etc. in force. He shall be liable for accident, injury, negligence, losses due to any act or omission causing accident of his workers and he shall be liable to incur all the expenses in consequence thereof and Owner is in no way responsible for any damages/ compensation arising out of this work contractor.

Contractor shall indemnify and hold Owner harmless from and against any liability, penalty, cost or expense suffered or incurred as a result of Contractor failing to comply with any law, or regulation, or such permit or license relating to any part of the Work and Services.

#### **15. RECTIFICATION OF DEFECTS**

If, it shall appear to the Owner or his representative in-charge of the works that any work has been executed with imperfect or un-skillful workmanship or material or any inferior description, the contractor shall, on demand, in writing from the Owner, specifying the work material or articles complained of shall rectify or remove the defect so specified in part, as the case may require.

#### **16. DEFACEMENT**

If the contractor or his staff, or labourers shall break, deface, injure, or destroy any part of a building, or interiors, then the contractor has to rectify the same part at his own expenses to the satisfaction of the Owner.

#### **17. EMERGENCIES:**

In any emergency affecting the safety of persons or property, Contractor shall act, to their best to prevent threatened damage, injury or loss but at the same time safeguarding the interest of the Owner and the project.

#### **18. SUB-LETTING/ASSIGNMENT:**

The contractor shall not sublet or assign the whole or part of the works except where otherwise provided, by the contract and even then only with the prior written consent of the Owner and such consent if given shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults or neglects of any sub-contractor, his

agents, workman as full as if they were the acts, defaults or neglects of the contractor, his agent, workman provided always that the provision of labour on piece work basis shall not be deemed to be a subletting under this clause. However, nothing in the foregoing shall be affected in the event of there being a merger, amalgamation or take over of the business/ management of a Contractor. In such an eventuality all the rights and obligations shall automatically be vested with the entity with which such Contractor has been merged or is taken over.

## **19. INSPECTION AND TESTING:**

The Institute may at its discretion carry out the inspection of ongoing work by the Contractor, to check whether the services are in conformity with the terms mentioned in the Work Order/Agreement or not and the contractor agrees to provide all needful assistance to the staff/officers/ representatives of the Institute for the said inspection and testing.

## **20. WATER SUPPLY & ELECTRICITY:**

Water & Electricity required for the Installation will be provided at single point by Owner, free of cost. The Contractor shall make his own arrangements for required distribution for work meeting the safety regulation as per statutory requirement. Backup power in the form of DG set may be arranged by the contractor.

## **21. SECURITY DEPOSIT:**

### **a. Earnest Money Deposit and Retention Money**

The Earnest Money deposited and total retention money retained will be treated as Security Deposit and the same will be retained till completion of defect liability period of 12 months. 50% of the total security deposit shall be released after completion of 6 months from issue of virtual completion certificate and balance 50% after completion of balance 6 months of defect liability period. The same may be refunded against equivalent amount of bank guarantee valid for a period of sixty days beyond the date of completion of all Contractual obligations.

Whenever under the agreement, any sum of money is recoverable from and payable by the Contractor, the Owner shall have right to recover such sum by appropriating in part or in whole from the security deposits. In the event of the security deposit being insufficient, the balance or the total sum recoverable, as may be, shall be deducted from any sum due to the Contractor or which at any time thereafter may become due to the Contractor under this or any other agreement with the Owner. If this sum is not sufficient to cover the full amount recoverable, the Contractor shall pay the Owner on demand the remaining amount.

### **b. Forfeiture of Security Deposit**

The above said security deposit shall be liable to forfeiture wholly or in part at the sole discretion of the Owner if the Contractor fails to carry out the work or perform or discharge its obligation or observe any of the terms/conditions/clauses of the contract or tender document.

### **c. Interest on the Security Deposit**

No interest would be payable by the Owner to the Contractor on the security held in deposit.

## **22. FORCE MAJEURE:**

Except to the payment obligations of the Institute, neither Party shall be liable for any failure to perform, any of its obligations under this Agreement and any work / purchase order, if the performance is prevented, hindered or delayed by a Force Majeure event and in such case its obligations shall be suspended for so long as the Force Majeure Event continues. Each party shall promptly inform the other of the existence of a Force Majeure Event within a period of three (3) days from date of happening of such an event requiring invocation of this force majeure event article. Unless otherwise directed by Institute in writing, the Service Provider will continue to perform its obligations under this order so far as is reasonably practical and seek all reasonable alternative means for performance of this order and shall consult together to find a mutually acceptable solution.

Force “Majeure” means any cause, which is beyond the successful bidder control or that of the Institute, as the case may be, which both could not foresee or with a reasonable amount of diligence could not have foreseen, and which substantially affect the performance of the order, such as:-

- War / hostilities;
- Riot or civil commotion;
- Earth Quake, Flood, Fire, Tempest, Epidemics, Lightning or other natural physical Disaster, Quarantine restricts and Freight embargoes;
- Restrictions imposed by the Government or other statutory bodies, which are beyond the successful bidder control or of the Institute, which prevent or delay the execution of the order either by the successful bidder or by the Institute.

## **23. BLACKLISTING:**

Notwithstanding any other remedy available in this Agreement, the Institute by notice in writing and after providing an opportunity of being heard, may blacklist the Contractor for suitable period in case Contractor (a) fails to discharge its obligation including providing Services not as per specifications within the time schedule ordered under this Agreement or respective Statement of Work, without sufficient grounds; or (b) Adoption of any unethical or illegal practices in delivery of its Services; (c) Any indiscipline behavior or hooliganism by the Contractor or any of its employee(s) during the provision of Services to the Institute. The EMD/ Security Deposit/ Bank Guarantee provided by the Contractor shall be forfeited after providing an opportunity of being heard and the reasons there of.

## **24. COMPLIANCE OF LABOUR REGULATIONS:**

Contractor shall comply with all laws applicable to workmen employed by them and the rules framed there under. The Owner shall in no event and under no circumstances, be liable or responsible for any default by way of non-observance/compliance of the said law/rules on the Contractor’s part and Contractor shall further indemnify Owner against any liabilities and costs/expenses from all proceedings in respect thereof. Contractor shall obtain at his cost all permissions and licenses under various statutes for carrying on their activities.

That it is expressly understood & agreed between the parties to this Agreement that the personnel(s) employed / hired / engaged (permanent / regular / casual / contractual / temporarily / daily wager or whatever be the status / name) by the Contractor directly or indirectly for the execution of work as provided under this Agreement, shall not be employee / officer of the owner for any purpose. None of such person of the Contractor shall have any right to claim anything against the Owner.

## **25. COMPLIANCE WITH STATUTORY REGULATIONS & WORK RULES:**

Contractor shall be responsible for complying with the applicable laws/bye laws/Regulations in force from time to time. Contractor shall have to bear all statutory liabilities (including safety of its workers / personnel) as applicable to workers/personnel engaged for the job. Nothing will be paid extra in this regard. If any amount is paid by Owner in this regard, the same amount will be deducted from Contractor's bill. Contractor shall have to arrange insurance cover for the workers/personnel engaged for the job. Contractor shall be responsible for all the dues of the workers/personnel engaged including the liabilities, if any, towards workmen compensation or under any other law.

## **26. DISPUTE RESOLUTION:**

Any dispute, difference, controversy or claim ("Dispute") arising between the Parties out of or in relation to or in connection with this Contract / Agreement, or the breach, termination, effect, validity, interpretation or application of this Contract / Agreement or as to their rights, duties or liabilities hereunder, shall be addressed for mutual resolution by the authorised official of the parties. If, for any reason, such Dispute cannot be resolved amicably by the Parties, the same shall be referred to the sole arbitrator appointed by mutual consent of Parties. The provisions of the Arbitration and Conciliation Act, 1996 or any statutory modifications on re-enactment thereof as in force will be applicable to the arbitration proceedings. The venue of the arbitration shall be at New Delhi. The cost of the Arbitration proceedings shall be shared equally by both the parties. The language of the arbitration and the award shall be English. The decision / award of the arbitrator shall be final and binding.

## **27. TERMINATION:**

The Institute without prejudice to any other remedy, reserves the right to terminate the agreement immediately by giving notice in writing in case contractor fails to perform its obligation under this Agreement or found guilty for breach of any condition(s) of the agreement, from date of receipt of notice of such breach, negligence, carelessness, inefficiency, fraud, mischief and misappropriation or any other type of misconduct by Contractor or by its staff or agent

**SECTION - VI**  
**SPECIAL CONDITIONS OF CONTRACT**

**1. Notice of Operation**

The work is to be executed in the fully under Construction building (finishing work is in progress), thus the work shall be executed in the co-ordination of the Site Engineer/Architect of the Project in order to ensure trouble free Functioning of other Contractors.

**2. Safety of adjacent Structures**

The Contractor shall protect efficiently all work done in the building structures and provide protective guards and all required measures

**3. Facilities for Contractor's Employees**

The Contractor shall make his own arrangement for the welfare of his staff and workmen including adequate drinking water etc. as applicable. The Contractor shall also make his own arrangements at his own cost for transport where necessary for his staff and workmen to and from the Sites of the works.

**4. Lighting for Works**

The Contractor shall at all times provide adequate and approved lighting as required for the proper execution and supervision & inspection of the works.

**5. Disposal of Refuse etc.**

The Contractor shall cart away from site all refuse/malwa/ waste material, etc. arising from the Works both as it accumulates, at completion of the Works or at the direction of the Owner.

**6. Contractor to verify site Measurements**

The Contractor shall check and verify all site measurements whenever requested by other specialists, Contractors or by nominated or other sub-contractors to enable them to prepare their own shop drawings and pass on the information with sufficient promptness, as will not in any way delay the works. A copy of all such information passed on shall be given to the Owner.

**7. Approved Makes /Agencies**

The Contractor shall provide all materials from the list of approved makes and also appoint the specialist agency from the approved list as provided in the Tender. Owner will approve make / agency as selected by the contractors within the approved list after inspection of their samples / and there compliance to Technical Specifications / B.O.Q. items and after ascertaining their spare capacities and recent past performances. In case the materials are not in conformity with BOQ & Technical Specification though it is in approved list or for Aesthetic reason, Owner may select the other approved makes

**8. As Built Drawings / Documents / Shop Drawing**

**(a) Shop drawings prepared by the Contractor:**

The contractor shall prepare the shop-drawings based on the design prepared on the

feasibility study of the site and obtain approval from the Owner for implementation of the same. After the completion of work, the Contractor is required to submit a set of As-Built Drawings.

**(b) Documents:**

Contractor shall submit documents like As Built Drawings, Maintenance and Operation Manuals, Literatures of various equipment, guarantee etc. in bounded form in triplicate to Owner on completion of work, which will be construed as a condition for certify Final Bill.

## **9. Warranty Certificates**

The Original Manufacturer's Warranty Certificates shall be on the name of Institute of all the supplied & installed items for which Warranty is applicable such as Solar Panels, Solar Inverter etc.

## **10. Procurement of Materials**

The contractor shall make his own arrangement to procure all materials required for the work.

## **11. Taxes**

The Contractor shall pay and be responsible for payment of all taxes, duties, levies, royalties, fees or charges in respect of the works including but not limited to GST, Excise duties and octroi, payable in respect of materials, equipment, plant and other things required for the Contract. All of the aforesaid taxes, duties, levies fees and charges shall be to the Contractor's account and Owner shall not be required to pay any additional or extra amount on this account.

## **12. Non-Assignability**

This Contract & Benefits and Obligations thereof shall be strictly personal to the bidder bidding the bid and shall not on any account be assignable or transferable by the Bidder. Also, the Bidder will not be allowed to get the work executed on back to back basis through any other agency except for specialized works.

## **13. Contractor to co-ordinate with other Contractors**

Contractor shall have to co-ordinate with other Contractors (if any) employed by Owner for other works and for any dispute the same to be brought to the notice of Owner.

## **14. Suppliers /sub-contractors**

Contractor shall provide the details of suppliers and sub-Contractors to the Owner/ Site Engineer as requested for any queries regarding quality aspects.

## **15. Mode of Measurements**

Contractor will be entitled for the work as per actual measurement with mm accuracy only. If any discrepancy observed in the Bill of quantities shall be highlighted in the offer. Bills are

admitted by Joint Measurement Sheets.

**16. Housekeeping**

Workmen are not allowed to take-up the work or leave the work without housekeeping and contractor should ensure that they don't spoil with gutka / khaini marks in the premises.

## SECTION - VII

### TECHNICAL SPECIFICATIONS

Sl. No.	DESCRIPTION
1.0	<b>Description of work:</b> Supply, Installation, Commissioning & Testing of 125 KVA,3 Phase Diesel Generator Set with AMF Control Panel and its connected accessories as per Technical Specifications- Qty- 1 No.
2.0	<b>DIESEL ENGINE</b>
2.1	Rated Capacity in KVA : 125 KVA
2.2	No. of phase: Three Phase
2.3	Rated capacity of Engine: minimum 5760CC
2.4	Rated Engine power:100 % of the required powered at STP(Standard Temperature Pressure) i.e equal to (Nominal Rated Capacity (KVA) of power generator + Any Auxilary power Consumption by the Power generator) x Power factor(0.8) /Alternator efficiency
2.5	Type of engine cooling: Liquid cooled
2.6	Type of Governor : Electronic
2.7	No. of Cylinders: 6
2.8	No. of Strokes: 4
2.9	Rated RPM of Engine:1500
2.10	Fuel Type : High Speed Diesel (HSD)
2.11	Over load capacity: Engine is capable of delivering an output of 10% in excess of rated KVA for a period of one hour in any period of 12 hours continuous running.
2.12	Specific fuel consumption: standard design
2.13	Starting voltage: 12V
2.14	Salient features of engine: Turbo charged Engine, Direct injection Fuel System.

<b>Sl. No.</b>	<b>DESCRIPTION</b>
<b>3.0</b>	<b>GOVERNING CLASS</b>
3.1	Class of Governor : A2 or better
3.2	Maximum Change of Speed as a Percentage of Rated Speed on suddenly taking-off the rated load (Transient) : 15
3.3	Maximum Recovery Time in Seconds on suddenly taking-off the rated load (Transient) : 15 second
3.4	Maximum Change of Speed as a Percentage of Rated Speed on suddenly taking-off the rated load (Permanent): 5
3.5	Maximum Change of Speed as a Percentage of Rated Speed On a change of load, both on and off , by all steps of 25 percent of the rated load (Transient): 4
3.6	Maximum Recovery Time in Seconds on a change of load, both on and off , by all steps of 25 percent of the rated load (Transient) : 5 second
3.7	Maximum Change of Speed as a Percentage of Rated Speed On a change of load, both on and off , by all steps of 25 percent of the rated load (Permanent): 1.5
<b>4.0</b>	<b>ALTERNATOR</b>
4.1	Rating of AC generator : 125 KVA
4.2	Alternator Voltage Rating : 415V
4.3	Rated power Factor: 0.8
4.4	Efficiency at rated power factor at 75% of full load: minimum 90 percent
4.5	The alternator should conform to IS 13364(part 2) or any latest standard
4.6	Type of Alternator :Brushless
4.7	Voltage regulation : VG 3
4.8	Class of Protection : IP 23
4.9	Class of Insulation: H
<b>5.0</b>	<b>CONTROL PANEL</b>
5.1	Type: AMF Control Panel
5.2	Location: Inside the canopy.
5.3	Panel should be of Minimum IP-53 protection.

Sl. No.	DESCRIPTION
5.4	Display meters in the control panel: Control Panel , shall be equipped with Multi function digital display meter.(displaying voltage, current, Frequency, Power factor)
5.5	Displayed Parameters / Features: Control panel shall have displayed parameters of Engine Speed, Lube oil pressure, Coolant/cylinder head Temperature, Engine running hours, Engine battery voltage, Engine Running status, Generator Voltage (Ph-Ph), Generator Voltage (Ph-N), Generator apparent Power(kVA), Generator active Power(kW), Power factor, Frequency, Fuel level, Event log, Control supply Voltage.
5.6	Other devices in the control panel: Required switches and cutout, MCB, MCCB, Contactors, Battery charger of appropriate rating shall be provided in the control panel.
5.7	Indicators: Low lub oil pressure, High water/coolant/cylinder head temperature, low fuel level, over speed.
<b>6.0</b>	<b>ACOUSTIC ENCLOSURE</b>
6.1	Acoustic Enclosure: Inclusive in the scope of supply
6.2	Acoustic Enclosure sheet thickness :minimum 1.6 mm.
6.3	Thickness of Insulatin: minimum 40mm
6.4	Density of insulation: Minimum 32 kg/cubic mtr
6.5	Noise Level : Less than 75dB
<b>7.0</b>	<b>FUEL TANK:</b>
7.1	Fuel Tank capacity : Minimum 170 Ltrs.
7.2	Number of Fuel Tank: 01
7.3	Fuel Tank Sheet Material Thickness: 2 mm of MS sheet
7.4	Fuel Tank Fabricated Material : MS sheet
7.5	Fuel Tank Features:Fuel Tank capacity is sufficient for 8 hrs of running at full load

Sl. No.	DESCRIPTION
8.0	<b>BATTERY</b>
8.1	Battery Type & specification: low maintenance free to IS:14257 for high cranking performance Battery shall be provided.
8.2	Number of Batteries: 01
8.3	Battery Capacity (AH): minimum 90AH
8.4	Salient Feature of power generator : Glass window on Acoustic enclosure in front of the control, Emergency stop outside the Acoustic Enclosure.
9.0	TRAILER: Not Applicable
10.0	General Technical Requirements (GTR)
10.1	Power Generator shall be complete with Diesel Engine, Alternator and AMF Control Panel along with Acoustic Enclosure. Diesel engine and alternator shall be closely coupled or provided with flexible coupling and mounted on a base plate / M.S. frame of robust in construction.
10.2	Anti-Vibration mountings shall be provided for complete Power Generator in case of flexible coupling. In case of direct coupling Anti-Vibration mountings shall be provided for the Engine as well as the alternator.
10.3	Power Generator should have protection against under voltage, over voltage, under frequency, over frequency, low battery voltage, over current, earth-fault, short circuit, phase sequence change etc.
10.4	Automatic Mains Failure (AMF) control panel, shall be able to start up the Power Generator and transfer the load on to the Power Generator on mains failure without requiring any human intervention. Similarly on restoration of mains supply, it shall be able to transfer the load to mains supply and switch off the Power Generator automatically.

Sl. No.	DESCRIPTION
10.5	Control Panel , shall be equipped with suitable Voltmeter, Ammeter, Frequency meter, power factor meter (these items can be alternatively supplied in one multifunctional digital display meter), battery charger, indicators, various switches and cutout / MCB / MCCB / Contactor / Circuit breaker for the DG output of appropriate rating and accuracy class as per trade practice for better utility.
10.6	Acoustic Enclosure shall be made of Pre-treated and Powder coated CRCA Sheet. The sheet shall be Pre-treated and Powder coated with weather-proof paint. The Acoustic Enclosure shall be vermin proof. The enclosure shall accommodate the fuel tank of the Power Generator to make the system compact.
10.7	Power Generators shall meet the requirements of Environmental (Protection) Rules and Pollution Control Board norms in all aspect applicable i.e (CPCB IV) and any other norms applicable.
10.8	Standard set of tools consisting of a set of 3 spanners, one screw driver, one standard plier and one nose plier of appropriate size shall be provided along with each Power Generator.
10.9	Supply of Fuel tank of suitable capacity, sufficient for minimum 8 hours running the Power Generator, is inclusive in the scope of supply. Fuel Tank shall be complete with fuel piping (between fuel tank and diesel engine), valves, level indications and all standard accessories. MS pipes, heavy class of suitable dia conforming to IS 1239 (Part-1) - latest shall be used for fuel piping.

Sl. No	DESCRIPTION
<b>11</b>	<b>Scope of Installation</b>
11.1	Installation: With Installation inclusive in the scope of supply
11.2	Installation of Power Generators shall be done by the seller. The installation work of Power Generator and its constituent parts shall be generally conforming to CPWD General Specification for Electrical Works, Part - VII - latest. b) Foundation shall be constructed by the seller. All the materials / labour required for installation work shall be supplied by the seller.
11.3	Supply, laying and termination of inter connecting power and control cable shall be done by the seller. The cable supplied shall be ISI marked heavy duty PVC insulated, armoured cable, with PVC outer Sheath , with aluminium conductor having insulation of PVC compound type -C, suitable for rated voltage upto and including 1100 volts and conforming to IS: 1554 (Part-1) latest. Total length of the cable supplied by the seller shall be 60 metres of minimum 3.5CX185 sqmm for each Power Generator.
11.4	Construction of suitable earthing station and necessary connections shall be done by the seller. All the materials / labour required for construction of earthing station shall be supplied by the seller. The total number of earthing pits/stations shall be 4, i.e., 2 for neutral and 2 for body- earthing. Neutral earthing shall be done with copper Plate and Body earthing shall be done with G.I. plate / Copper. The consignee should choose installation site in such a way that the earthing stations can be made within 10 metres of the Power Generator. Earthing station shall be typically constructed as per prevalent standard practices and shall be generally conforming to CPWD General specification for Electrical Works. Installation of fuel tank including foundation/stand shall be done by the seller.

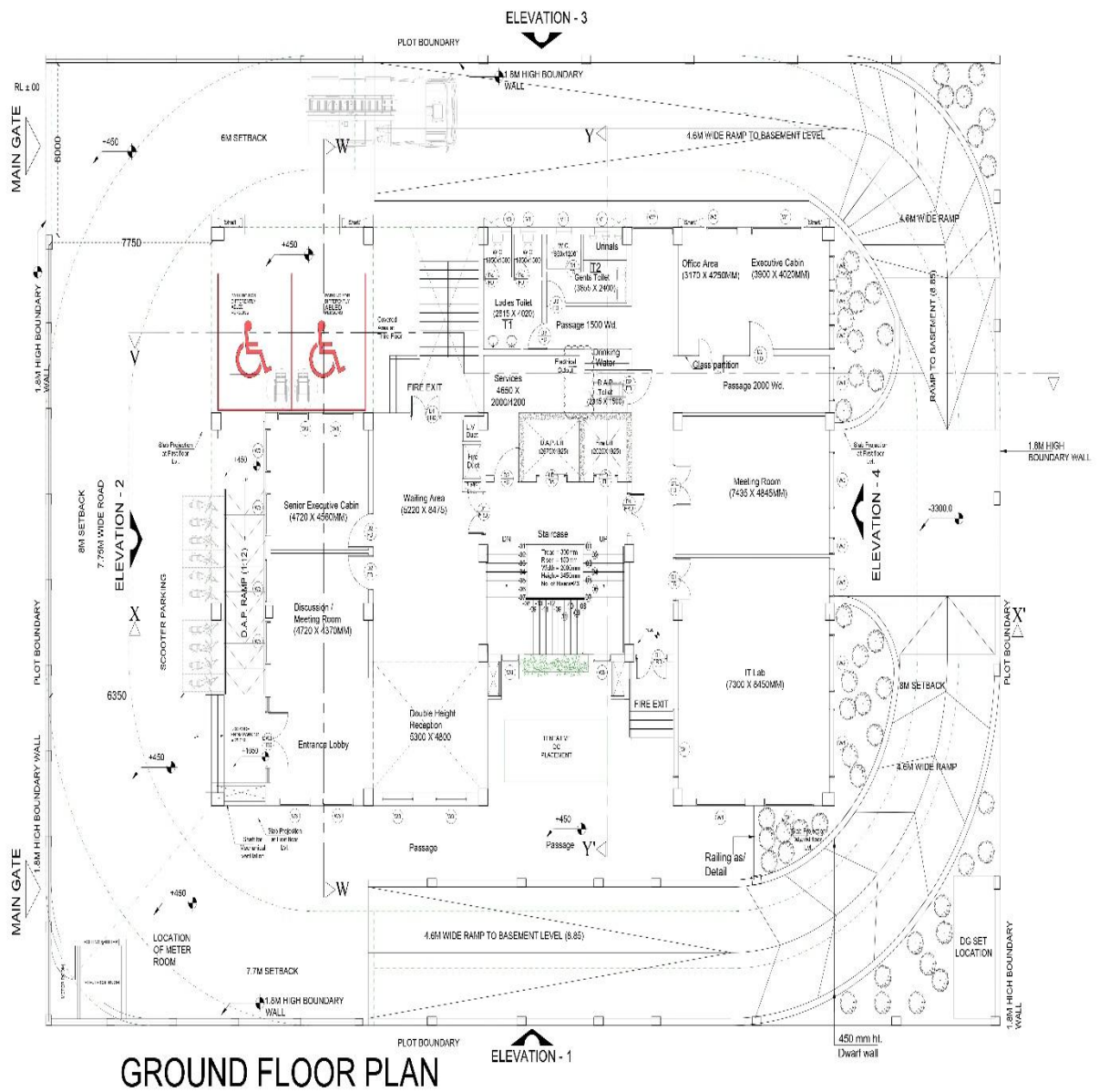
Sl. No	DESCRIPTION
11.5	<b>Design, supply, fabrication, of exhaust stack, required of Height(H)= h + 0.2 X sqrt.{DG KVA rating} where H is total stack height (in meters), h is building height (in meters), and KVA is generator capacity With duly vetting from structural engineer. Complete with outdoor type insulating material etc.</b>
11.6	<b>Design, construction and providing structural provision for foundation of DG set on slab with vetting from structural engineer.</b>
11.7	Warranty on Complete power generator/DG Set : minimum 24 months.
11.8	Warranty in running hours : minimum 5000 hours
11.9	Number of preventive maintenance visits offered in an year during warranty period (Supply of all consumables is the buyer's responsibility) : minimum 2
11.10	Response Time to attend the complaint during Warranty : Maximum 1 days.
11.11	Time duration for Repairing/Replacing the defect item during warranty : Maximum 7 days.
<b>12.0</b>	<b>Test Reports:</b>
<b>12.1</b>	Type of lab which carried out Test of Complete product to prove the confirmity of product as per specification: Certificates required as per CPCB , Govt. Lab./NABL Accredited lab.
12.2	Test Report Available for: Provide Type Approval Certificate for the specified rating of the Power Generator from any of the designated agency authorized by CPCB, COP Certificate for engine, Type test report for Alternator as per IS:13364 (Part-1) latest / IS:13364 (Part-2) latest to prove conformity to the specifications.
12.3	Provide all relevant documents Test Report/Supporting Document /reports etc at the time of bidding or on demand.

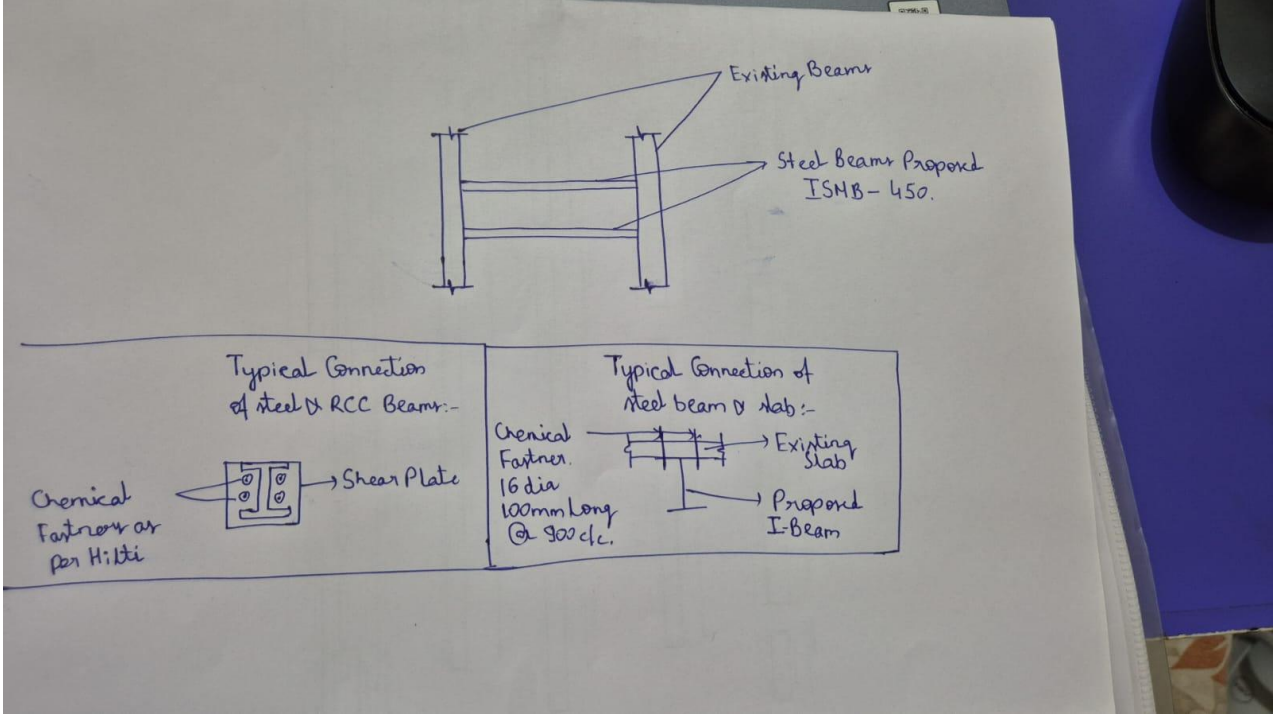
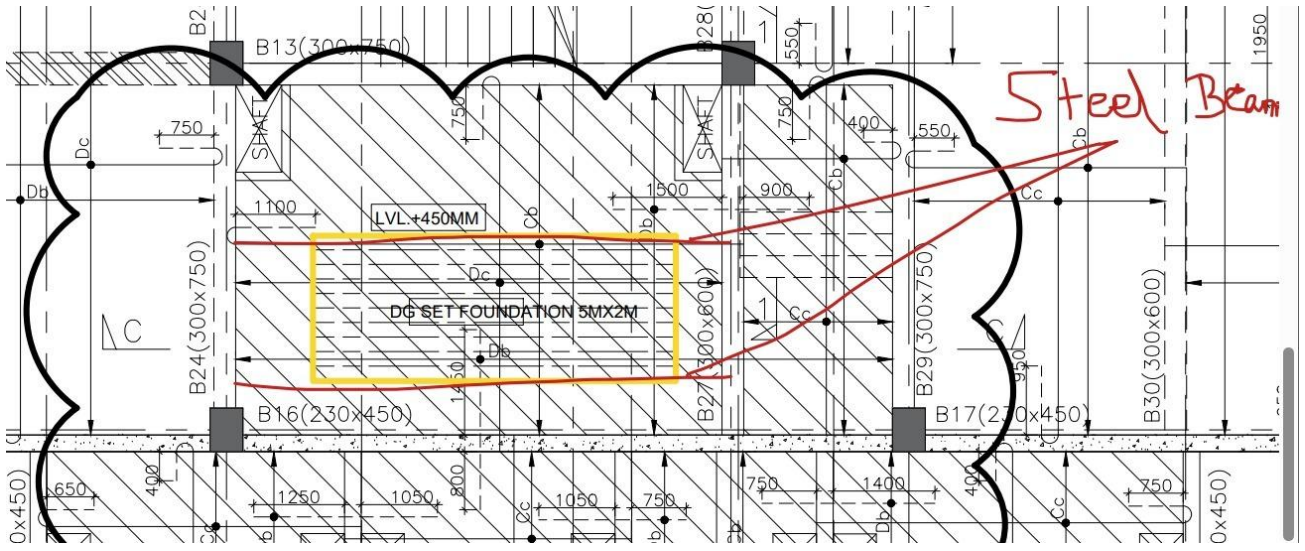
**SECTION VIII**  
**LIST OF MAKES**

<b>S NO.</b>	<b>ITEMs</b>	<b>Approved MAKEs</b>
1	Diesel Engine	Cummins/Kirloskar/KOEL/ Kohler/ Perkins/MTU
2	Alternator	Leroy Somer/Stamford/KOEL Green
3	MS C Class Pipes	Tata Steel / Jindal Pipes / APL Apollo
4.	Rolled Steel Section	As per approval of Architect

# SECTION IX

## DRAWING/REFERENCE IMAGE





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