

**Tender Notice for Supply, Installation, Testing & Commissioning
of Diesel Generator Sets (200KVA – 1 No.) & (100KVA – 1 No.)**

for

KERALA CRICKET ASSOCIATION



TENDER SCHEDULE

Issue of Tender	: 02.05.2024
Last date for submission of Sealed Tender	: 10.05.2024, 5:00 pm.
Opening of Tender Documents	: 11.05.2024, 11.00 am.

Client:

**The Secretary,
Kerala Cricket Association
K.C A Complex, T.C- 28/152
Sasthamkovil Road, Thycaud
Thiruvananthapuram 695014**

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PART- I (TECHNICAL BID)

1. NOTICE INVITING TENDER

Short Notice Tender for Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA – 1 no) & (100KVA – 1 no) for Kerala Cricket Association.

Kerala Cricket Association invites Tender for Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA -1no) & (100KVA – 1 no) for Kerala Cricket Association.

Interested parties are requested to submit the Bids in sealed envelope for the aforesaid work as per detailed specifications and other requirements as mentioned more specifically elsewhere in this tender document.

1. Sealed Bids in TWO separate sealed Envelopes indicating clearly '**Envelope - No.1 - Technical bid**' and '**Envelope No.2 – Price bid**', shall be addressed to

The Secretary, Kerala Cricket Association, K.C A Complex, T.C-28/152, Sasthamkovil Road, Thycaud, Thiruvananthapuram 695014
and Envelops should also be super scribed "**Tender for Supply, Installation, Testing and Commissioning of DG Sets for Kerala Cricket Association.**

Last date for the submission of tender is 10.05.2024, 5.00 pm.
Technical bid and price bid will be opened on 11.05.2024, 11.00 am at KCA office, Thiruvananthapuram.

All the Bid documents are to be send to this office by Registered / Speed post/Courier only and no manual submission shall be entertained. Late tenders will not be accepted.

2. This NIT (tender document) can be downloaded from our website www.keralacricketassociation.com.
3. The two envelopes must carry the following:
Envelope no. 1:
 - a) "Technical bid" of tender with every page signed and stamped.
 - b) An initial part amount of **Rs 50,000/- (Rupees Fifty Thousand Only) towards Earnest Money Deposit (EMD)** by way of Demand Draft (DD)/Bank Guarantee from Nationalized/Scheduled Bank and **Bid Document Fee Rs.2,950/-** including GST should be remitted to the **A/C No. 13800100303237 IFSC: FDRL0001380 Bank: Federal Bank**

Ltd., Palarivattom, Ernakulam Branch and the UTR receipt should be submitted along the Bid documents. Only Internet Banking is allowed as mode of payment for Bid document fee.

The Tender without EMD shall be rejected outrightly. No interest shall be paid on the EMD thus collected. EMD of the successful bidder shall be refunded after the successful completion of the work, whereas EMD of the unsuccessful bidders will be refunded upon the issuance of work order to and acceptance of the same by the successful bidder.

- c) Retention Money Deposit at the rate of 5% (Five percent) of the total value of the work shall be deducted from first paid bill and shall constitute the Security Deposit.

The Security Deposit shall be released at the end of defects liability period of one year from the date of Virtual Completion, provided the defects are made good according to the true intent and meaning thereof after due completion of work.

- d) Power of attorney authorizing the person to sign the tender.

Envelope No.2:

- a. Price Bid shall be addressed to The Secretary, Kerala Cricket Association, K.C A Complex, T.C- 28/152, Sasthamkovil Road, Thycaud, Thiruvananthapuram 695014
- b. Envelope No.2 shall not contain any condition whatsoever and any conditional price bid shall be rejected.
- c. Envelope No.2 will be opened on 11.05.2024, 11.00 am. Price Bid envelopes shall be opened only in respect of those tenderers who are found to be eligible as per the pre-qualification criteria specified by KCA and have complied with all the requirements in tender document.

4. If the last date of receipt or opening of the tenders happens to be a holiday for KCA, then the receipt and opening of the tenders shall be shifted to next working day without change of time and venue.

5. Before filling up the tenders, the bidders may note the following:

- a. The bids shall remain valid and open for acceptance as per the dates mentioned in the tender notice. If the tenderer withdraws his tender before the expiry of the said period or makes any modifications in terms and conditions of the tender which are not acceptable to the KCA, then the KCA without prejudice to any other right or remedy will

be at liberty to forfeit the earnest money.

- b. **Time of Completion:** Time is the essence of the contract. The Contractor shall be allowed to execute the work after working hours, in nights & on holidays, with the prior permission from KCA. No extra payments will be made for the work being done during the odd hours. **Date of commencement shall be either one-week, from the date of issue work order or the day on which the contractor will take possession of site, whichever is earlier.** The work shall be completed within **01 month** from the date of commencement.
- c. The quantum of liquidated **damages** for delay in completion of the works per week shall be calculated at **0.25%** of the estimated cost subject to maximum of **5%** of the accepted tender amount.
- d. The tenderer should quote the rates in figures as well as in the words. The rate for each item should be worked out and the requisite total amount shall be calculated accordingly. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates, figures and words. However, if a discrepancy is found in the rates in words and figures, then the rates quoted in words shall be taken as correct.
- e. The tenderers must include in their tender prices quoted for all duties royalties, GST, cess and sales tax, works contract tax or any other taxes or local charges, transportation charges, loading and unloading charges, installation charges, labour charges etc. if applicable. No extra claim on this account will in any case be entertained.
- f. The tender document must be filled in English. If any of the documents are missing or un-signed in price bid, the tender shall be considered invalid. In case of technical bid, the details of incomplete or missing documents will be intimated to the tenderer and the tenderer has to submit all those documents within 01 day after communicating the same, otherwise the tender will be rejected.
- g. KCA reserves the right to accept or reject any /all tender/s in part or whole of any firm / firms without assigning any reasons for doing so.
- h. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the tenderer who resort to canvassing will be liable to rejection.

- i. All taxes including GST or any other payable/ prevailing tax on material or unfinished works etc or insurance cost, transportation etc, in respect of this contract shall be payable by tenderer and the Bank will not entertain any claim whatsoever in this respect over the quoted price.
- j. The tenderer, apart from being a competent contractor must co-ordinate himself with all the agencies as and when required.
- k. ***Before quoting, the tenderer shall inspect the site, to fully acquaint himself about the condition in regard to accessibility of the site, working condition of site, locality including installations of tools and plants (T&P) and local authority regulations / restrictions if any, conditions affecting accommodations and movement of personnel etc. required for the satisfactory execution of the work contract. No claim whatsoever on such account shall be entertained by the KCA in any circumstances.***
- l. The quantities of various items given in the schedule of quantities are approximate. The quantities of work may vary at time of allotment / execution of work. KCA reserves the right to omit / delete any item(s) of work from the schedule at the time of allotment / execution of work. Contractor will be paid for the actual work done at the site duly verified by the concerned official of the bank.
- m. If the rate quoted by the contractor for any item / items are not workable or abnormally lower than the market rate, the full and final payment of the contractor will be settled after the satisfactory execution of these item.
- n. KCA does not bind itself to accept the lowest or any tender at all. KCA also reserves the right to negotiate or partly accept any tender or all tenders received without assigning any reasons thereof.
- o. Any discrepancies, omissions, ambiguities in the tender documents, if any, or any doubt as to their meaning should be reported in writing to **The Secretary, Kerala Cricket Association, K.C A Complex, T.C- 28/152, Sasthamkovil Road, Thycaud, Thiruvananthapuram 695014** who will review the questions and if information sought is not clearly indicated or specified, KCA will issue clarifications to all the tenderers which will become part of the Tender Document. KCA will not be responsible if the discrepancies, omissions, ambiguities in the tender documents or any doubts as to their meaning are not brought to the notice of KCA before three working days prior to the last date of submission of the tender.
- p. KCA also reserves the right to divide and distribute the work to

more than one tenderer at its sole discretion.

- q. The successful bidder shall execute an agreement on non-judicial stamp paper with KCA in accordance with the standard format enclosed (Articles of Agreement) within 05 days from date of issue of work order failing which the bidder's EMD may stand forfeited.
- r. **Defect Liability Period:** The Defects Liability Period shall be for a period of **two year** and shall commence from the date of virtual completion. Any defect that may appear within the Defects Liability Period, shall be rectified by the Contractors without any extra cost to KCA. In case of failure to do so within 10 days from such notice from the KCA, the KCA may get such rectification works carried out through any other firm and expenditure incurred by the KCA shall be recovered from any money due to the Contractor at the cost and risk of the contractor. Only, after all the defects pointed out during the Defects Liability Period have been rectified by the Contractor to the satisfaction of the KCA, thereafter, the Security Deposit will be refunded to the contractor.
- s. The relevant available documents and information regarding the ground and the buildings with us shall be shared with the contractor. **All the necessary works related to the Job component like preparation of preliminary and as built drawings, liaisoning with the local authorities, govt. bodies for any type of NOC, clearance etc.; shall be under the scope of the party.**
- t. **In case of any clarifications, please contact Shri. Sishan Sharafudeen, Manager QS & Billing, KCA or email : engineering @keralacricket.in Mob-7338938126**

1. TERMS OF PAYMENT

The payment for the works to be executed under this contract shall be made as follows:

- a) 75% of the quoted rate against delivery of materials at site against submission of the following.
 1. Manufacturer's Inspection and Test Certificates.
 2. Delivery of material at site and after submission of a Certificate that all components, parts, sub systems, consumables etc. for successful installation, commissioning and testing of the systems including maintenance have been received at site in good condition.
 3. Policies of insurance covering all the risks during transit, storage.
 4. Any other statutory documents such as excise duty etc., if required.

5. Coordination with authorities and adherence to all statutory requirements.
- b) 25% of the quoted rate on completion of erection, testing, commissioning and handing over subject to receiving clearance and certificates from Competent State Licensing / inspecting authority or any other competent authority/ statutory bodies.
- c) The KCA will recover 5% amount in first paid bill towards Security Deposit and the same will be released on submission of a Bank guarantee in a form acceptable to the bank towards Retention Money Deposit for the defect liability period of 2 year from the date of handing over.

-Sd-

(Vinod S Kumar)

Secretary,

Kerala Cricket Association

2. FORM OF TENDER

**The Secretary,
Kerala Cricket Association
K.C A Complex, T.C- 28/152
Sasthamkovil Road, Thycaud
Thiruvananthapuram 695014**

Dear Sir/Madam

Short Notice Tender for Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA - 1no.) & (100KVA – 1 no.) for Kerala Cricket Association.

1. I / We have examined the Scope of Works, Specifications and Schedule of Quantities and Terms and Conditions relating to the tender for the said works after having obtained the Tender document invited by you.
2. I / We have visited the site, examined the site of works specified in the Tender Document and acquired the requisite information relating thereto as affecting the Tender.
3. I / We hereby offer to execute and complete the works in strict accordance with the Tender Document at the item rates quoted by me / us in the attached Schedule of Quantities in all respects as per the specifications and Scope of Works described in the Tender Document and the Annexures containing Terms and Conditions.
4. I / We enclose herewith interest-free **Earnest Money Deposit (EMD) for Rs 50,000/- (Rupees Fifty Thousand Only) towards Earnest Money Deposit (EMD)** by Demand Draft Kerala Cricket Association, Thiruvananthapuram, payable at Thiruvananthapuram and the sum shall be forfeited in the event of our withdrawal of Tender before expiry of the validity period of offer and/or in the event of our failure to execute the Contract when called upon to do so by accepting our Quotation.
5. In the event of this tender being accepted, I/We agree to enter into and execute the prescribed Agreement with KCA as per the format given at **Annexure B**.
6. I/ We agree to pay all Government (Central and State) Taxes such as Excise Duty, GST, Income tax etc. and other taxes prevailing from time to time and the rates quoted by me/us are inclusive of the same.

7. The rates quoted by me / us are firm and shall not be subjected to variations on account of fluctuation in the market rates, taxes or any other reasons whatsoever, during the currency of the contract.
8. Should this tender be accepted, I / we hereby agree to abide by and fulfill all the Terms and Conditions and Provisions of the said Contract Document annexed hereto.

Name of the person authorized to sign and submit the Tender

I).....

II).....

Yours faithfully

Place

Date

Signature

Seal

3. PRE-QUALIFICATION CRITERIA

Minimum Eligibility Criteria for pre-qualification of tenderers is as follows:

The Bidding Firm/Company: -

1. Should have at least 07 years of experience in the field of S/I/T/C of DG set.
2. Should have successfully completed in last 07 Year, in the field of S/I/T/C of DG set for Government/Public/Private buildings, Banks/FIs premises, reputed private organizations etc.
 - i. Three similar works whose value is not less than Rs.10.10 Lakh each of the estimated cost or
 - ii. Two similar works whose individual value is not less than Rs.15.10 Lakh each of the estimated cost or
 - iii. One similar work whose value is not less than Rs.22.65 Lakh of the estimated cost.
3. Copies of Work/Purchase orders and Completion certificates issued by the client should be enclosed with Technical Bid and need to be produced in original before KCA when demanded.
4. Should have annual turnover of at least Rs.225 Lakh during each of last three years.
5. Should submit audited balance sheets / P&L account and Income Tax Return certificates for the last 03 financial years.

4. SCOPE OF WORK

“Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA - 1 no.) & (100KVA – 1 no.) for Kerala Cricket Association.”

The scope of above work shall include the following:

1. Designing of details of DG set foundation (Foundation to be done by the other agency) and its placement of DG set with acoustic enclosure, Standard control Panel etc. along with all accessories/ components.
2. Supply and Delivery of DG set with Acoustic enclosure and standard control panel and associated works including packing, handling, transporting, clearing, loading/unloading etc. to KCA's grounds at:
 - a. KCA Cricket Ground, Mangalapuram, Thiruvananthapuram – 200KVA DG
 - b. KCA Headquarters, Thycaud, Thiruvananthapuram – 100KVA DG
3. Erection, testing & commissioning of DG set as per technical specifications, assist the client / main contractor to obtain the operating approval from Electrical inspectorate.
4. Providing all-inclusive service including all spares, etc. during warranty period of new DG set.
5. All engineering, equipment, labour, and permits required for satisfactorily completion of DG set installation work as per Specification.
6. Assist the client / main contractor for obtaining all statutory permissions/license from appropriate authorities.
7. Unless otherwise mentioned in the tender documents, the following work 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:
 - a. Vibration isolation springs/pads.
 - b. Making good all damages caused to the structure during installation and restoring the same to their original finish.

General Conditions

1. Though mentioned above, the scope of the work is not limited strictly to the areas/units mentioned, but is required to be carried out at any other locations other than those mentioned above as directed by the KCA.
2. Supply of manpower with tools and tackles etc., along with supervision to carry out the miscellaneous jobs as directed by the KCA.
3. All the jobs given to the agency shall be taken up on priority basis without any delay by mobilizing all the resources immediately at site.
4. If the job is delayed beyond the given schedule, KCA shall be at its discretion to execute job through any other suitable agency at the risk and cost of the original agency.
5. There may be other contractor working inside/ outside the premises simultaneously for carrying out other works. Cooperation and coordination between the contractors shall be maintained including permitting them to use the Scaffoldings.
6. All Sundry equipment's/fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, cable trays, junction boxes and all other sundry items for proper assembly and installation of the various equipment's 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 document or not.

5. Instructions to the Contractors for furnishing Individual details in prescribed Performa

1. The contractors are required to submit their full bio-data giving details about their organization, experience, technical personnel in their organization, space capacity, competence and adequate evidence of their financial standing, etc. in the enclosed form **(Proforma-1, 2, 3 & 4)** which will be kept confidential.

Proforma-1 General Details about the contractor

Proforma-2 Construction capability and previous experience

Proforma-3 Technical personnel and special experience.

Proforma-4 Details of GSTIN of the contractor.

2. If the space in the Performa is insufficient for furnishing full details, such information may be supplemented on separate sheets of paper stating therein the part of the Performa and serial number. Separate sheets shall be used for each part.

3. Any letter or document accompanying the Performa shall be submitted in duplicate.

4. Tenders containing false and/or inadequate information are liable for rejection.

5. While filling up the Performa with regard to the list of important projects completed or on hand, the applicants shall only include those works as mentioned in pre-qualification criteria.

6. Clarifications if any required may be obtained from the KCA or contact Shri. Sishan Sharafudeen, Manager QS & Billing, KCA or email : engineering@keralacricet.in Mob-7338938126

7. While deciding upon the selection of contractors for participating in the Price bid, emphasis will be given on the ability and competence of applicants to do good quality works within the specified time schedule and in close co-ordination with other agencies, besides the rate structure of the items. Also, emphasis will be given to the applicants who have executed majority of the similar works.

8. Decision of the KCA in regard to selection of contractors for

selecting them for price bidding will be final. The KCA is not bound to assign any reason therefore.

9. Each page of the tender document shall be signed. The application shall be signed by person/persons on behalf of the organization having necessary authorization/Power of Attorney to do so.

6. GENERAL INSTRUCTIONS TO THE CONTRACTORS

1. Quantities indicated in the BOQ are only tentative and shall be executed only at the sole discretion of KCA.
2. Quoted rates should be workable and reasonable and should include incidental and all overheads and profits. The contractor should furnish Rate Analysis for scrutiny of the rates by KCA, if required.
3. ***Rates should include all Taxes, Levies, Transportation charges, installation charges, wages as per Act, GST and all other charges etc. and should be firm for the entire Contract period. No escalation of rates will be allowed for the entire contract period on any account.***
Rates for all items of work are deemed to include costs for all operations involved in adhering to the specifications (including the IEE Rules/Regulations of the local licensing Authority CEA of the Fire Insurance/Explosives Authorities, the I.S.S.) Unless there is a provision to the contrary in the schedule of quantities.
4. Materials used should conform to relevant BIS Codes. BIS and CPWD Specifications and Method of Measurements shall be followed as applicable. However, in the absence of the same and / or in case of any discrepancy, the decision of KCA shall be final.
5. Income Tax (TDS), GST TDS and other applicable taxes as per statutory provisions will be deducted from total payment due to the Contractors.
6. Insurance: The Contractor, is required to keep the works duly insured in the joint names of KCA and the Contractor (KCA's name being first) until the completion of defect liability period of the works. From commencement to completion of the works, the Contractor shall take full responsibility for the care of the work and for taking precautions to prevent loss or damage to the works and to minimize the loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the works or any part thereof from any cause whatsoever, inherent defects and failures due to poor workmanship and causes such as fire, lightning, explosion, earthquake, storm, hurricane, short circuits, floods, inundation, subsidence, landslides, rock slides, riots (excluding civil war, rebellion, revolution and insurrection) and shall at his own cost repair and make good the same so that at all times the work shall be in good order and condition and in conformity in every respect with the requirements of the Contract. Explanation: For the purpose of this condition, the expression "from the commencement to completion of defect liability period of the works" shall mean the time commencing from the issue

of the work order to the contractor and ending with successful completion of work. The following insurance policies are required to be taken by the contractor;

Contractor all risk policy : Without limiting the obligations and responsibilities under this condition, the Contractor shall insure and keep insured the works from commencement to completion, as aforesaid, for their full value provided under this Contract, increased by 25% against the risk of loss or damage from any cause whatsoever including the causes enumerated in the Clause (a) above. In the event of there being a variation in the nature and extent of the work, the Contractor shall from time to time increase or decrease the value of the insurance correspondingly. The entire premium shall be borne and paid by the Contractor.

The said insurance shall also provide for the removal of debris of the lost or damaged works.

Workmen Compensation Policy : The Contractor shall at all times indemnify the KCA against all losses, claims or damages or compensation under the provisions of the payment of Wages Act 1936, Minimum Wages Act 1948, Employees Liability Act 1938, Workmen's Compensation Act 1923, The Maternity Benefit Act 1961, Industrial Disputes Act 1947 and Contract Labour and Regulation and Abolition Act 1970, KCA State Insurance Act 1948 or any modification thereof or any other law relating thereto and rules made thereunder from time to time or as a consequence of any accident or injury to any workman or other persons in or around the work whether in the Employment of the KCA, or Contractor or not and also against all costs, charges and expenses of any suit, action or proceedings whatsoever out of such accident or injury or combination of any such claims.

7. Before commencing the work, the Contractor shall without limiting his obligations and responsibilities under this condition, insure against any loss of life or injury to any personnel in the employment of Contractor / Sub- contractor / Nominated Sub-Contractor. For this purpose, insurance shall be taken by the Contractor/Sub-Contractor. Such insurance shall be taken to include both employees/workmen covered by the Workmen's Compensation Act 1923, as well those employees/workmen not covered by the said Act. Separate insurance policies may be taken for employees/workmen covered by Workmen's Compensation Act 1923, and employees/workmen not covered by the said Act. All the premiums shall be paid by the Contractor.

The Contractor shall ensure that similar insurance policies are taken out by his sub-contractors or nominated contractors, if any, and shall be responsible for any claim or loss resulting from their failure to obtain adequate insurance protection in connection thereof. While taking the insurance policies, contractor should indicate clearly to the insurance companies that policies issued shall cover their sub-contractors and nominated sub-contractors also.

- 8.No work shall be commenced by the Contractor unless and until he has obtained the insurance or insurance required to be obtained by him under or by the foregoing clauses and no work shall be carried out or continued by the Contractor unless and until each insurance is current and valid at that time.

In the event of any claim for insurance becoming due on account of any eventuality covered by the respective insurance policy/policies, the Contractor shall reinstate the installation, replace the materials or equipment or pay compensating to the affected personnel/Employees without waiting for settlement of the claim from insurance company.

- 9.All the Standard Conditions of the Contract shall be binding on the parties as per Indian Contract Act and prevailing Rules.
- 10.The Contractor shall comply with all the applicable Acts, Rules, Regulations and Law (s) for entering into Construction / Maintenance Contract and KCA will not in any way be liable or responsible for any default / irregularities / penalties on the Contractor's part.
- 11.The Contractor shall comply with the provisions of Contract, Labour (Regulation & Abolition) Act, 1970, Minimum Wages Act, EPF and NP Act,1952 and all other Labour Laws and other Statutory Regulations (both Central and State) that may be enforced from time to time by the appropriate authorities. KCA shall not be held responsible for any penalty or failure of any Labour Regulations. KCA shall have the power to inspect the Wage Register, PF Register and for physical verification of salary paid to the staff and PF deduction with reference to any records of the Contractor and to insist the Contractor to comply with Laws. Any legal complication arised due to non-compliance, KCA will not be a party and contractor has to bear the entire cost and liability.
- 12.In case of any discrepancy in deduction of PF by the contractor, KCA is compelled to deduct the amount and pay to PF authorities towards contract employees' a/c on behalf of the Contractor.

13. The Contractor should be responsible to fulfill all the obligations in connection with the workers employed by the Contractor for the purpose of the Contract and all the Statutory and other liabilities, if any, including minimum wages, leave salary, uniform, ex-gratia, gratuity, ESI, Provident Fund, Workmen Compensation, if any, etc. in connection therewith shall be on the Contractor's account and payable by the Contractor.
14. The Contractor should obtain necessary permission that may be required for the purpose of this Contract from such authorities as may be prescribed by Law from time to time.
15. The Contractor or his authorized representative should visit the site frequently as required by KCA and meet them with prior appointment for any clarifications and to receive instructions, take measurements, etc. at the site.
16. The Contractor shall be fully responsible and shall compensate KCA with suitable Insurance cover in the event of any damage to men or material, injury / damage or death as the case may be, caused directly or indirectly due to the negligence of the Contractor or his agents and / or his employees or workmen. The decision of KCA in this regard shall be final and binding.
17. The Contractor shall indemnify the KCA against any losses as per format given at **Annexure C**.
18. Any act of indiscipline / misconduct / theft / pilferage on the part of any employee engaged by the Contractor resulting in any loss to KCA in kind or cash will be viewed seriously and KCA will have the right to claim damages or levy fine and / or terminate the Contract forthwith, if necessary.
19. In case of any default or failure on Contractor's part to comply with all/any one of the Terms / Conditions, KCA reserves to itself the right to take necessary steps to remedy the situation including, inter-alia, the deduction of appropriate amount/s from dues otherwise payable to Contractor and / or by taking recourse to appropriate recovery proceedings.
20. If any dispute arises on any matter concerning this Contract, the decision of shall be final and binding.
21. The Contractor should not at any time do, cause or permit any nuisance on the site / do anything which shall cause unnecessary disturbances or inconvenience to the occupants/visitors at site or near the site of work.

22. The work should be carried out with least inconvenience to the residents. The workmen employed by the Contractor should abide by the Rules and Regulations maintained by KCA in the premises, especially in respect of working hours, entry of the workers to the premises, interpersonal relation with the occupants etc.
23. The Contractor should obtain approvals, if any, necessary for the work from the statutory bodies on behalf of KCA. The Contractor shall assist Main Contractor/ KCA fully in respect of any liaison with KSEB / Municipal or any other authority for necessary approval/permission with regard to the construction / maintenance works. The fees and other statutory charges, if any, will be reimbursed to the Contractor based on the original receipts produced to KCA.
24. The Contract can be terminated by KCA on 15 days' notice if services are found to be unsatisfactory and if there is no improvement even after issue of three notices to the contractor.
25. On site storage space will be provided to the Contractor subject to availability. However, the Contractor may erect temporary sheds for storage purposes at his cost with the permission of KCA. The KCA will not be responsible for Contractor's materials. The Contractor may be required to vacate the storage space and sheds as per exigency without any extra cost to KCA. If any statutory charges are required to be paid for erection of sheds, the same should be borne by the Contractor.
26. The Contractor shall provide everything necessary for the proper execution of the works. KCA will not supply any T & P materials or any other equipment, materials, labour, etc. and no payment in this respect will be made by KCA. The Contractor shall supply, fix and maintain all the scaffoldings, T&P etc. at his cost during the execution of any work and remove them as soon as the work is completed.
27. The Contractor shall not directly or indirectly transfer, assign or sublet the Contract or any part of it, without written permission of KCA.
28. The tenderer shall guarantee that the work shall be free from any defects whatsoever for a period of **two year Defects Liability Period** from the date of completion/ commissioning of the work. Warranty for the DG set, shall be for 2 years from the date of Virtual completion of work. Any defect which may appear within the Defect Liability Period of two year after the completion of work should be rectified by the Contractor at his cost and only thereafter the Security Deposit/ RMD will be refunded to the Contractor.

29. RETENTION MONEY DEPOSIT (RMD)/ SECURITY DEPOSIT (SD): Five percent (5%) of the gross value of the work done and claimed in the Bills shall be deducted towards Retention Money Deposit. This amount shall not bear any interest. The EMD already with KCA shall be adjusted towards Security deposit. The Security Deposit will not bear any interest and will be refunded as provided for under Clause 32(iii) below after Defects Liability Period of 24 months from the date of Virtual Completion of works, provided the Contractor has satisfactorily carried out all the rectification works and attended to all defects to the satisfaction of KCA.

30. Any defects or shortcomings found during execution of work and during the defects liability period from the completion of the entire work shall be attended/rectified by the tenderer immediately without any extra cost to the KCA. In case of failure to do so within 10 days from such notice from the ground, the KCA may get such rectification works carried out through any other firm and expenditure incurred by the ground shall be recovered from any money due to the Contractor at the cost and risk of the contractor.

31. CERTIFICATE OF VIRTUAL COMPLETION OF WORKS: The Contractor shall report in writing to the KCA in the form of a Certificate as per the format given at **Annexure A**, as and when the works are completed in all respects. The KCA shall, after due verification of the works, issue to the Contractor a certificate to be called "**Virtual Completion Certificate**"(VCC). The defects liability period shall commence only from the date of virtual completion of the work i.e. actual possession of the work.

32. PAYMENT OF CONTRACTOR'S BILL:

- I. The payment for the works to be executed under this contract shall be made as follows:
 - a) 75% of the quoted rate against delivery of materials at site against submission of the following.
 - 1) Manufacturer's Inspection and Test Certificates.
 - 2) Delivery of material at site and after submission of a Certificate that all components, parts, sub systems, consumables etc. for successful installation, commissioning and testing of the systems including maintenance have been received at site in good condition.
 - 3) Policies of insurance covering all the risks during transit, storage.
 - 4) Any other statutory documents such as excise duty etc., if required.
 - b) 25% of the quoted rate on completion of erection, testing,

commissioning and handing over.

- II. Interim Bills submitted by the Contractor will be paid by KCA after all the statutory deductions viz. RMD @ 5%, TDS and other statutory deductions etc., as applicable.
- III. Retention Money Deposit at the rate of 5% (Five percent) of the value of the work executed shall be deducted from first paid bill shall constitute the Security Deposit.

The Security Deposit shall be released at the end of defects liability period of two year from the date of actual Completion, provided the defects are made good according to the true intent and meaning thereof after due completion of work.

33. COMPLETION PERIOD: The work should be completed within **01 month** starting from 07 days from the date of issue of work order or the date on which contractor takes the possession of site, whichever is earlier.

34. DELAY AND EXTENSION OF TIME: If, in the opinion of the KCA the works be delayed (a) by force majeure or (b) by reason of any exceptionally inclement weather or (c) by reason of proceedings taken or threatened by the dispute with adjoining or neighboring owners or public authorities arising otherwise than through the Contractor's own default or (d) by the works or delays of other Contractors or tradesmen engaged or nominated by the KCA and not referred to in the Schedule of Quantities and/or Specifications or (e) by reason of KCA's instructions, or (f) by reason of civil commotion, local commotion of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the Contractor not having in due time necessary instructions from the KCA for which he shall have specifically applied in writing, ahead of time, giving the KCA reasonable time to prepare such instructions, the KCA shall make a fair and reasonable extension of time for completion of the Contracted works. In case of such strike or lockout, the Contractor shall, as soon as may be, given written notice thereof to the KCA, but the Contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all that may reasonably be required to the satisfaction of the KCA to proceed with the work. The Contractor shall take all practicable steps to avoid or reduce any delay in the execution and completion of the works arising out of

- c. Force Majeure
- d. Exceptionally inclement weather
- e. Loss or damage by fire and earthquake
- f. Civil commotion, lockout, strike etc.
- g. KCA's Instructions, as the case may be

- h. Delay on the part of the nominated Sub-Contractor or nominated supplier
 - i. Delay on the part of the other Contractor employed by the KCA.
- 35. Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works. Power should be used only for welding, cutting, drilling purposes and no major fabrication work shall be done at site.
- 36. Electric power and water supply shall be provided to the contractor by KCA at single point at sites, free of charge. Contractor shall not use power/water for other purpose than that it is intended for.
- 37. Additional Terms and Conditions as per enclosure.

I/we accept all the above Terms and Conditions in all respects without any reservation.

7. TERMS AND CONDITIONS

1. The Tender is strictly on Item Rate basis.
2. Bidders are advised to visit the site at their cost, conduct survey of existing conditions so as to familiarize themselves with the site conditions, nature of works etc. and get all clarifications as may be necessary from KCA before quoting the rates.
3. Rates should include for removal of debris out of premises to the safe Municipallimits, removing stains, cleaning the site thoroughly and unless the same is done to the satisfaction of the KCA, the bill will not be accepted.
4. Quantities mentioned in the schedule of quantities may vary to any extent or may be deleted without assigning any reasons and as such, the rates quoted should be firm, workable, reasonable and should include all kinds of Taxes, Duties, Work Contract Tax, GST etc. as applicable, overheads and profit etc. No separate charges for carriage or labour would be made. There is no question of extra payment above the quoted rate under any circumstance. In case of any variation in quantity or value, the same will not be made as a subject matter for dispute by the bidder.
5. No escalation shall be allowed on the rates of this contract.
6. The BIS / CPWD specifications shall be followed as applicable and in the absence of the same the decision of KCA shall be final. The work has to be carried out only by Electrical contractors who are authorized by the Kerala State Electrical Inspectorate, and possessing valid license.
7. The contractor shall at the instructions of the KCA within such time as notified, open up for inspection any work and should the contractor refuse or neglect to comply with such instructions, the KCA may employ other workman to open of the same. Such work if it is found not in accordance with approved specifications, or the instructions, expenses of opening up and redoing if required shall be borne by and recoverable from the Contractor from any money due or which may become due to the contractor.
8. The successful tenderer is bound to carry out any or all items of work necessary for the completion of the job even though such items are not included in the quantities and rates.
9. The Contractor shall make necessary arrangement for watch and ward.

10. The bidders should quote their rates strictly adhering to Terms and Conditions stipulated in the Tender Document. Unsolicited correspondence after opening of the Tender shall not be entertained.
11. No bidder will be allowed to withdraw his Tender during the validity period.
12. Rates should be filled in the Bidders Schedule of Quantity in the Price – Bid neatly and no correction shall be made. Corrections, if any should be duly authenticated by the signing authority.
13. The rates quoted should be written legibly in words and figures. If on check, differences are observed between the rates given by the Contractor in words and figures or in the amount worked out by him, the following procedure shall be followed.
 - a. When there is a difference between the rates in figures and in words, the rates, which corresponds to the amounts worked out by the Contractor shall be taken as correct.
 - b. When the amount of an item is not worked out by the Contractor or it does not correspond with the rate written either in figures or in words, then the rate quoted by the Contractor in words shall be taken as correct.
 - c. When the rates quoted by the Contractor in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the Contractor shall be taken as correct and not the amount.

No advance shall be paid towards mobilization and cost of materials.

14. No compensation shall be admissible for any loss suffered by the Contractor during the execution of the work. It shall be the Contractor's sole responsibility to protect KCA's staff, his employees and property against accidents from any cause and he shall indemnify KCA against any claims for damage for injury to person or property, resulting from any such accidents with necessary Insurance cover.
15. Any damages caused to the building / premises during the execution of the work shall be made good by the Contractor at his risk and cost and if necessary, through suitable Insurance cover.
16. The work is to be undertaken only during working days and during the office timings. The work cannot be undertaken on Saturday, Sunday and any declared holidays except with the written approval of the KCA.
17. The contractor has to make his own arrangement of stay for his

employees outside the KCA premises.

18. The Contractor shall use necessary safety equipment and maintain all safety measures during the execution of works and ensure compliance of Safety Code as per Rules and Regulations in force.
19. The Contractor shall engage necessary qualified and experienced supervisory staff at his cost during the execution of the work for attending to day to day affairs.
21. The Contractor shall submit the bills along with the accepted and jointly recorded measurement sheets duly certified by KCA's Engineer. The Contractor should have necessary Contract License and comply with the Labour Laws as applicable.
22. Notwithstanding anything stated above, KCA reserves the right to assess the bidder's capability and capacity to perform the contract, should the circumstances warrant such assessment in the overall interest of KCA.
23. The decision of KCA in awarding the work shall be final and cannot be subjected to arbitration.
24. KCA reserves the right to accept / negotiate / reject any Quotation either in whole or in part without assigning any reasons therefore whatsoever and without entering into any further correspondence and hence, KCA shall be under no obligation to accept the lowest or any other Quotations received in response to this Quotation. The decision of KCA in this regard shall be final and indisputable.
25. KCA also reserves the right of supersession of any of the conditions stipulated in the Quotation Document.
26. The contractor shall require shifting some of the furniture, electrical items, etc., to some other places within the office premises during the time of work and may also be required to place them in the appropriate place after completing the work. No extra payment will be made for those works.
27. There will be other works being carried out by various contractors in the said office premises. Hence Care should be taken not to damage any other works and also to coordinate with the other work contractors.

28. Measurement Book: The payment for all works done and for all materials supplied shall be made on the basis of detailed measurements recorded in MBs.
29. Testing of Materials: The contractors are required to submit samples of various materials, items, fittings, etc for the approval of the KCA. The materials of brand names, if any, given in the contract shall only be selected.
30. Final bill: The final bill has to be submitted by the contractors as early as possible after the completion of the work along with completion of recording the final measurements.
31. Co-ordination and Monitoring: The contractor's site supervisor/ engineer will be coordinating and monitoring the project and report the progress to KCA on weekly basis.
32. Site order book: Site order book shall be maintained on the site for issuing instructions to the contractor in the course of day to day supervision of the work.
33. Hindrance register: A hindrance register shall be maintained at the site to have a record of hindrances in the progress of work which may result in delays.
34. Idle Labour Clause:
- I. In case the proposed work is held up for any site conditions not attributable to the contractor or for any decisions/ instructions/ want of details from KCA or for any of the untoward situation, the contractor shall be allowed reasonable extension of time by the KCA but any additional/ extra claim for payment to idle labour/ tools/ establishment/ plant etc, during this period shall not be the liability of the KCA. The quoted rates should include for all such contingencies.
 - II. Whatever the reasons be, no claim for idle labour, additional establishment, cost of labour charges of tools and plants would be entertained under any circumstances.
35. Settlement of Disputes and Arbitration: All disputes or differences of any kind whatsoever which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof this contract or effect thereof or to the rights or liabilities of the parties or arising out of or in relation thereto whether

during or after determination foreclosure or breach of the contract (other than those in respect of which the decision of any person is by the contract expressed to be final and binding) shall after written notice by either party to the contract to the other of them and to the Employer hereinafter mentioned be referred for adjudication to a sole Arbitrator to be appointed as hereinafter provided.

For the purpose of appointing the sole Arbitrator referred to above, the Employer will send within thirty days of receipt of the notice, to the contractor a panel of three names of persons who shall be presently unconnected with the organization for which the work is executed from the following categories of Arbitrators":-

- a. Retired High Court/Supreme Court judge who have experienced inhandling Arbitration Cases.
- b. Member of Council of Arbitrators
- c. Fellow of the Institution of Engineers
- d. Eminent Retired Chief Engineer from State/Central PWD/Public sector undertaking of good reputation and integrity
- e. Fellow of Indian Institute of Contractors.

The contractor shall on receipt of the names as aforesaid, select any one of the person's name to be appointed as a sole Arbitrator and communicate his name to the Employer within thirty days of receipt of the names. The Employer shall there upon without any delay appoint the said person as the Sole Arbitrator. If the contractor fails to communicate such selection as provided above within the period specified, the Employos should make the selection and appoint the selected person as the Sole Arbitrator.

If the Employer fails to send to the contractor the panel of three names as aforesaid within the period specified, the contractor shall send to the Employer a panel of three names of persons who shall all be unconnected with either party. The Employer shall on receipt appoint him as the Sole Arbitrator. If the Employer fails to select the person and appoint him as the Sole Arbitrator within 30 days of receipt of the panel and inform the contractor accordingly, the contractor shall be entitled to appoint one of the persons from panel as the Sole Arbitrator and communicate his name to the Employer.

If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever

another Sole Arbitrator shall be appointed as aforesaid.

The work under the Contract shall, however, continue during the arbitration proceedings and no payment due or payable to the contractor shall be withheld on account of such proceedings.

The Arbitrator shall be deemed to have entered on the reference on the date he issued notice to both the parties fixing date of the first hearing.

The Arbitrator may from time to time, with the consent of the parties, enlarge the time for making and publishing the award.

The arbitrator shall give a separate award in respect of each dispute or difference referred to him. The Arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasoned award. The venue of arbitration shall be such place as may be fixed by the Arbitrator in his Sole discretion.

The award of the Arbitrator shall be final and binding on the both the parties. Subject to aforesaid the provisions to the Arbitration Act, 1992 or any statutory modification or re-enactment thereof and the rules made there under, and for the time being in force, shall apply to the arbitration proceeding under this clause.

The Employer and the contractor hereby also agree that arbitration under clause shall be condition precedent to any right to action under the contract with regard to the matters hereby expressly agreed to be so referred to arbitration.

8. SPECIFICATIONS FOR DG SET INSTALLATION WORKS

Note 1. These specifications are not meant to be exhaustive and prescribe the minimum acceptable standards. Where these do not cover certain items and aspects, the best engineering practice / Consultant / KCA Engineer's instructions shall be followed.

Note 2. All codes and standards mean the latest. Necessary I.S. Codes are mentioned along with these specifications and all relevant codes with divisions published on date shall be applicable.

1. GENERAL

- 1.1 The entire electrical installation work shall be carried out in accordance with approved Drawings and in general conformity with the requirements of the Indian Electricity rules, 2003, the relevant I.S. codes of practice, as amended to date, wherever applicable and the regulations of the local licensing bodies, CEA, CPCB IV+ / CPCB, Electrical safety inspector etc., and where such installations are subject to inspection and approval of fire insurance, the installation shall be planned and executed also confirming to their regulations/rules.
- 1.2 The specifications herein and the IEE Rules/Regulations of the local licensing Authority CEA and of the Fire Insurance/Explosives Authorities, the latter shall prevail.

2. SUPERVISION

From the contractor's side supervision shall be carried out by person/persons holding certificates of competency of appropriate class issued by the respective State Government bodies authorized to issue such certificates under statutory rules and regulations in force.

3. TESTING AND COMMISSIONING

On completion of the work and/or at the appropriate stages of the works as necessary, the contractor shall arrange for all necessary tests for proper operation, continuity, etc. of the necessary installation /equipment/plant etc., in accordance with the provisions in the IE rules, relevant IS codes of practice and commission the completed installation. Contractor shall furnish a certificate and guarantee in the prescribed form (attached to the tender document), countersigned by the licensed and qualified supervisor under whose direct supervision the installation will be taken over by the KCA, only on its being so commissioned, the test results being

thoroughly satisfactory.

Provided that the work shall not be deemed to be complete, and the installation will not be taken over, if the test results are not within satisfactory limits. In case the results are unsatisfactory the contractor is required to carry out all necessary rectifications/modifications at his level on his own cost to bring the installation/equipment to the level of acceptability within a period of one month from the date of test and the defects liability period of 24 months will stand extended by period of delay in such rectification/modification that is in excess of said period of one month.

On completion of work, four set of as built drawings of general arrangement and Single Line Diagram (SLD) of the distribution cabling of the electrical control panels to KCA sites shall be submitted for client's records.

4. WORKMANSHIP:

First class workmanship and neat appearance are essential requisites for compliance with these specifications.

5. MATERIALS AND MAKES:

All materials, equipment, fittings fixtures, appliances, accessories, etc., to be used in installation shall comply in all respects with the requirements of the BIS, relevant Indian Standard codes and regulations of the local electricity supply authorities and the Central Electrical Authority. The electrical fixtures shall be of the best quality obtainable in the makes/manufacture specified in the make list, samples being approved by KCA.

TECHNICAL SPECIFICATION FOR DG SET

Applicable standards

1. ISO-8528- Part-1 to 10, applicable for generating set
2. IS- 1000- Part-1 to 13, 1980 applicable naturally aspirated engines
3. BS-5514-Part-5-1979, IS-13018 & BS-649 Reciprocating internal combustion engines, Performance, torsional vibrations
4. ISO-3046-Part-5-2001, Part-1-2002, Part-3-1989, Part-4-1997, Part-6-1990, IS 60034
5. IS-4889/BS-269, IS-4722-1992, IS-13364-part-1&2-19992, IEC-34-1-1983, BS 2613/1970, IS 4889, IP-21 as per IS-4691/85 applicable to Alternator
6. IS-8183, ISO-3744-1988 (E), ISO-8528- Part-10-1998 (E), ISO-9614- 1993-Part-1, 2 applicable for acoustic enclosure
7. IS-2147-1962 and IS-4722 applicable for control panels.
8. IS-1460: Automotive Diesel Fuel.
9. IS/IEC 60034-1: Rotating electrical machines.
10. ISO 9001
11. IS 13018 : Internal Combustion Engine.

Diesel Engine:

The engine shall be the standard design of the original manufacturers. It should be 4-stroke, water cooled, naturally aspirated/ turbo charged as per manufacturer standard, diesel engine developing about suitable BHP for giving a power rating in kVA at the load terminals of alternator at 1500 RPM at actual site conditions as above. The engine shall be capable of delivering specified prime power rating at variable loads for PF of 0.8 lag with 10% overload available in excess of specified output for one hour in every 12 hours. The average load factor of the engine over a period of 24 Hours shall be 0.85 (85%) for prime power output.

The engine shall be fitted with the following accessories subject to the design of the manufacturer.

1. Dynamically balanced flywheel.
2. Necessary flexible coupling and guard for alternator and engine.
3. Air cleaner (dry/oil bath type) as per manufacturer standard.
4. Governor of class A1 and shall be self-contained unit capable of monitoring speed.
5. Daily fuel service tank with minimum capacity of 350 Litres / nearby capacity for 8 hours operation, fabricated from MS sheet with inlet, outlet connections, air vent tap, drain plug and level indicator (gauge), Stainless steel fuel piping from tank to engine with valves, unions, reducers, flexible hose connection and floor mounting pedestal, twin fuel filters and fuel injectors. The fuel tank shall be located inside the acoustic enclosure itself.
6. Dry exhaust manifold with suitable exhaust residential grade silencer

- to reduce noise level.
7. Suitable self-starter for 12 V/24 V DC.
 8. Battery charging alternator unit and voltage regulator, suitable for starting batteries, interconnecting leads and terminals.
 9. Battery charger.
 10. Necessary gear driven oil pump for lubricating oil, priming of engine bearing as well as fuel systems as per manufacturer's recommendations.
 11. Naturally aspirated/ turbo charger (as per manufacturer standard).
 12. Lubrication oil cooler.
 13. Lubrication oil filters with replaceable elements.
 14. Crank case heater as per standards.
 15. Fuel injection system to minimize the fuel consumption.
 16. Fuel control solenoid.
 17. Fuel pump with engine speed adjustment.
 18. Electronic engine management control panel: fitted and having digital display for following:
 - a) Start/stop key switch
 - b) Lube oil pressure indication
 - c) Water temperature indication
 - d) RPM indication
 - f) Engine hours indication
 - g) Battery charging indication
 - h) Low Lube oil trip indication
 - i) High water temperature indication
 - j) Over speed indication
 19. All moving parts of the engine shall be mechanically guarded with M.S. mesh guard in such a manner that a human finger cannot touch any moving part.
 20. Radiator
 21. Any other item not mentioned/ specified but is a standard design of the manufacturer.

De-rating of the set

The output of the DG set specified in tender shall be under the following climatic conditions and in conformity with CPCB IV+ approved type tests.

- a) Outside maximum temperature: 43 degree C
- b) Height above MSL: 560 Mt
- c) RH: 70%

DG set should be type tested for noise and emission norms/ standards as per latest CPCB IV+ norms.

Common bed plate:

Engine and alternator shall be coupled by means of flexible coupling and both the units shall be mounted on a common bed plate together with all auxiliaries to ensure perfect alignment of engine and alternator with minimum vibrations. The bed plate shall be suitable for installation on suitable anti vibration mounting system.

Air system:

It is preferred to provide vacuum indicator to indicate choked filter. Maximum air intake restrictions with clean and choked filters should be within prescribed limits as per manufacturer recommendation. Genset shall be supplied with medium duty air cleaner.

Cooling system:

1. System should be designed for ambient temperature of 50-degree C.
2. Coolant should be mixed with additive in suitable proportion as per recommendation of engine vendor.
3. Radiator fan flow should be free from any obstructions.

Fuel tank:

Fuel tank of minimum capacity of 350 Lts shall be located at the bottom of the unit with provision for filling and fitted with gauge. The same shall be fabricated out of 3mm thick HR sheet.

Alternator:

Self-excited, screen protected, self-regulated, brush less alternator, horizontalfoot mounted in single bearing construction with following specifications.

Rated PF	0.8
Rated voltage	415V
Rated frequency	50 Hz
No of phases	3 Phase
Enclosure	SPDP
Degree of protection	IP - 23
Ventilation	Self-ventilated
Insulation class	F/H
Temperature rise	within limits of class F/H insulation
Voltage regulation	±0.5%

Protection:

In the event of any fault due to over voltage/ high bearing temperature/ high winding temperature, or an external fault, the AVR shall remove the excitation voltage to the alternator. An emergency trip PB shall also be provided which is located outside the acoustic enclosure.

Performance:

Voltage dip shall not exceed 20% of the rated voltage for any step load or transient load. The winding shall not develop hot spots exceeding safe limits due to imbalance of 20% between any two phases from no load to full load. The generator shall preferably be capable of withstanding a current equal to 1.5 times the rated current for a period of not more than 15 seconds.

The performance characteristics of the alternator shall be as below:

Efficiency at fullload	Not less than 86%
0.8 PF	
Total distortionfactor	Less than 3%
10% overload	1 hour in every 12 Hours of continuous use
50% overload	15 seconds

Terminal box:

Suitable for terminating suitable size and runs of Aluminum/
copperarmored XLPE cables (12 terminals)

Earth terminals

2. nos of earth terminals on opposite sides with vibration proof connections, non- ferrous hardware etc. with galvanized plate and passivized washer of minimum size 12 mm dia. Hole shall be provided.

Space heater

To be provided with MCB control and Thermostat.

Generator Standard Control Panel

Fabricating, Installing, Testing and Commissioning of standard control panel for 200 KVA & 100 KVA silent type, DG Set complete with control and power connections, relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, KVARH and including the following:

The Generator Control Panel shall be equipped with following.

1. 1 no MCCB of suitable rating with built in thermal overload and magnetic short circuit releases, front operating handle with door interlock and shunttrip coil suitable for 230V AC.
2. 1 no Electronic KWH meter
3. 1 No electronic earth fault relay
4. 1 no MCB of suitable rating for potential circuit
5. 3 Nos Resin Cast CTs of ratio required ratio and class 1, 10 Va for metering.
6. 3 Nos LED type indication lamps for RYB indications
7. Push button for manual start and stop.
8. 1 No battery charger with all instruments and protection to charge the starting battery from external source.
9. The microprocessor-based engine management system module to read all the engine conditions like oil pressure, water temperature, RPM, Hour run, will be fixed in this panel with required internal cabling from engine. Any abnormal condition should trigger and

followed by tripping of the engine. This also will have facility to accept external command to start and stop the engine with time delay.

Starting battery with charger

Suitable AH battery with battery charger shall be provided along with the DG set as required at 24/12V DC as per the manufacturer recommendation. Batteries supplied with DG set shall be dry and uncharged. The same shall be charged by authorized people before same is connected to DG set. Initial charging shall be done for 72- 80 hrs. The batteries shall be placed on stands and relatively cool place inside the acoustic enclosure.

Acoustic enclosure (Sound Proof Canopy):

1. The acoustic enclosure shall be designed and manufactured confirming to relevant BIS suitable for outdoor installation exposed to weather conditions, and to limit overall noise level to 75dB (A) at a distance of 1 Mt from the enclosure as per CPCB IV+ norms under free field conditions.
2. The construction should be such that it prevents entry of rain water splashing into the enclosure and allows free and quick flow of rain water to the ground in the event of heavy rain. The detailed construction shall confirm to details as under.
3. The enclosure shall be fabricated out of CRCA sheet of thickness not less than 1.6mm on the outside cover with inside cover having not less than 0.6mm thick perforated powder coated CRCA sheet.
4. The hinged doors shall be made from not less than 16 SWG (1.6mm) thick CRCA sheet and will be made airtight with neoprene gasket and heavy-duty locks.
5. All sheet metal parts should be processed through 7-tank process. The enclosure should be powder coated and the enclosure should accommodate the sufficient capacity fuel tank for 8 hours operation. There should be a fuel gauge which should show the level of fuel even when DG set is not running. The gauge should be calibrated. The fuel tank should be provided with a lockable cap if it is operating from outside. The batteries should be accommodated within the enclosure.
6. The canopy should be provided with high enclosure temperature safety device. The acoustic lining shall be made of high-quality insulation material like glass wool/ mineral wool/ rock wool with minimum of 50mm thick and 75 Kg/cubic mt for sound absorption as per standard design of manufacturers to reduce the sound level as per CPCB IV+ norms. The insulation material shall be covered with fine glass fiber cloth and would be supported by perforated MS sheet duly powder coated.

The enclosure shall be provided with suitable size and no of hinged type doors along the length of the enclosure on each side for easy access inside the acoustic enclosure for inspection, operation and maintenance purpose. Sufficient space will be provided inside the enclosure on all sides of the DG set for inspection, easy maintenance and repairs. The MS base frame shall be provided having lifting facility & predrilled foundation holes for installation on anti-vibration mounting (AVM pads).

Testing:

All major equipment /items i.e. engine & alternator in assembled condition, electrical control panel etc. shall be offered fortnightly inspection at factory/manufacturers work, before dispatch at site of work at the discretion of KCA. After inspection of these items shall be cleared for dispatch at site.

Copies of all documents of routine and type test certificates of the equipment, carried out at the manufacturer's premises shall be furnished to KCA.

After completion of the installation work in all respects, the contractor shall offer the DG set for testing.

Trial Run/ Running-in-Period:

After successful testing of the DG set, trial run at available load will be carried out for 8 Hrs. The DG set will be operated, and a log of the relevant parameters will be maintained during this period. The arrangement of staff for the trial run shall be made by the successful tenderer. However, the diesel and lube oil required will be supplied by KCA. The contractor will be free to carry out necessary adjustments/calibrations. 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 that the DG set will be taken over by KCA subject to guarantee clause of the contract. This date of taking over the DG set, after trouble free operation during the trial run/running-in-period, shall be the date of acceptance /taking over.

Safety measures:

All equipment shall incorporate suitable safety provisions to ensure safety

of the operating personnel as per manufacturer's standard practice.

Statutory clearances:

Assistance shall be given to the main contractor to obtain approval/ clearance of the complete installation from CPCB/State pollution control board/ Local bodies/ CEA/ other licensing authorities like KSE Board Ltd etc., wherever required.

Guarantee:

All equipment shall be guaranteed against unsatisfactory performance and/ or break down due to defective design, workmanship or material for a period of 24 months from the date of taking over the installation by KCA. The equipment or components or any part thereof, so found defective during the guarantee period and be forthwith repaired or replaced free of cost to the entire satisfaction of the client. In case it is felt that undue delay is being caused by the contractor in attending the defect/fault removed, the same will be got done by KCA at the risk and cost of the contractor. The decision of KCA in this respect will be final.

**Tender Drawings, Drawings for Approval & Completion Drawings:
Drawings for approval on Award of the work:**

The contractor shall prepare and submit three set of following drawings and get them approved from KCA before the start of the work. The approval of drawings however does not absolve the contractor not to supply the equipment/materials as per the agreement, if there is any contradiction between the approved drawings and agreement.

- a. General arrangement drawings including Foundation, section, showing the details of erection of entire equipment.
- b. Electrical wiring diagrams from engine alternator set to electrical control panel, electrical control panel to essential to LT board including the sizes and capacity of the various electrical /control cables and equipment.
- c. Dimensioned drawings of Acoustic enclosure/engine alternator set and electrical control panel.
- d. Drawings showing details of supports for pipes, chimney cable trays, ductsetc. to be provided. Any other drawings relevant to the work.

Drawings/Documents to be furnished on completion of installation:

Two set of the following drawings shall be submitted by the contractor while handing over the installation to KCA. One set shall be laminated on the

hard base for display in the DG set room/room and another set shall be kept with KCA. In addition, drawings shall be given as Soft Copy.

- a. DG set installation drawings giving complete details of all the equipment, including their foundations.
- b. Line diagram and layout of all electrical control panels giving switchgear ratings and their dispossession, cable feeder sizes and their layout.
- c. Control wiring drawings with all control components and sequence of operations to explain the operation of control circuits in the Generator Control Panel.
 1. Manufacturer's technical catalogues of all equipments and accessories.
 2. Operation and maintenance manual of all major equipments, detailing all adjustments, operations and maintenance procedure.

9. MAKE OF MATERIALS

CATEGORY I

Sl. No.	Description	Make-1	Make-2	Make-3
1	DG set	Cummins	Caterpillar	Volvo
2	Engine	Cummins	Caterpillar	Volvo
3	Alternator	Leroy-Somer/Stamford	Leroy-Somer/Stamford /Caterpillar	Leroy-Somer/Stamford

CATEGORY II

Sl. No.	Description	Make-1	Make-2	Make-3
1	DG set	Kirloskar	Ashok Leyland	Greaves
2	Engine	Kirloskar	Ashok Leyland	Greaves
3	Alternator	Leroy-Somer/Stamford	Leroy-Somer/Stamford	Leroy-Somer/Stamford

10. SAFETY CODE

1. The contractor shall follow the safety codes as per IS-5216-1982 while carrying out the electrical work.
2. First-aid appliances, including adequate supply of sterilized dressings and cotton wool, shall be maintained in a readily accessible place.
3. The injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization.
4. Suitable and strong scaffolds should be provided for workmen for all work that cannot safely be done from ground.
5. No portable single ladder shall be over 8 meters in length, the width between the side rails not less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used, an extra labour shall be engaged for holding the ladder.
6. The excavated material shall not be placed within 1.5 meters of the edge of the trench or half of the depth of the trench, whichever is more. All trenches and excavations shall be provided with necessary protection of minimum height of one meter.
7. Every opening in the floor of a building or a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be one meter.
8. No floor, roof or other part of the structure shall be so over-loaded with debris or materials as to render it unsafe.
9. Workers employed on mixing and handling material such as asphalt, cement, mortar or concrete and lime mortar shall be provided with protective footwear and rubber hand gloves.
10. Those engaged in welding works shall be provided with welder's protective eye-shields and gloves.
11. No paint containing lead or lead products shall be used except in

the form of paste or readymade paint.

12. Suitable face masks should be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.
13. Hoisting machines and tackles used in the work, including their attachments, anchorage and supports shall be in perfect condition.
14. The ropes used in hoisting or lowering material or as a means of suspension shall be of durable quality and adequate strength and free from defects.

FIRE SAFETY

- i. Cutting / drilling machine and other electrically operated equipment used at site shall be plugged into correctly rated electrical outlets.
- ii. Only ISI marked 3 pin plug and other appliances and equipment shall be used.
- iii. Electrical power cables/wires used shall not have any joints and shall be properly rated.
- iv. All electrical appliances i.e. welding, drilling, cutting machine etc. shall be safely and securely earthed to prevent leakage current while in operation.
- v. Before commencing the welding work required precautions should be taken.
- vi. Two buckets of water/ sand and a fire cloth of suitable size shall be kept in an easily accessible area on the site.
- vii. Fire extinguishers recommended by fire officers shall be kept on the site.
- viii. Used paint drums shall be stored in specified store only after closing them properly.
- ix. Personal protective equipment such as safety shoes, hand gloves, welder's mask, ear plug etc. depending upon the requirement of the work shall be provided by the contractor to the workmen to prevent occupational health hazards.
- x. The safety belt shall be provided by the contractor and used by the workmen while working from height for more than 10' from Ground level.
- xi. None of the passages near lift lobby and staircases shall be used for stacking / dumping any kind of materials/waste.

- xii. Any debris/ waste generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
- xiii. Battery operated emergency light/torches shall be provided by the contractor to the workmen while working beyond office hours.

11. ANNEXURE A

VIRTUAL COMPLETION CERTIFICATE

Having executed the work in terms of the contract, we hereby certify and affirm that we have virtually completed the contracted works.

We hereby certify that the work has been executed wholly to our satisfaction and with materials and workmanship in accordance with the contract. Thus we ensure that there will not be any defect in the functioning of DG.

We do certify further that we have executed the work in accordance with the applicable laws and without any transgression of such laws.

Signature of the Contractor

Place:

Name :

Date:

Address :

Seal :

12.ANNEXURE B
ARTICLES OF AGREEMENT
(On Rs. 200/- Stamp Paper)

ARTICLES OF AGREEMENT made on theof2024 between the Secretary, Kerala Cricket Association, K.C.A Complex, T.C-28/152, Sasthamkovil Road, Thycaud, Thiruvananthapuram, 695014 (hereinafter called the 'KCA') which expression shall, unless repugnant to the context mean and include its successors and assigns of the one part and M/s (Herein after called "the Contractor") which expression shall unless repugnant to the context mean and include its successors and assigns of the other part.

WHEREAS The KCA is desirous of getting executed the work of Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA - 1 no.) & (100KVA – 1 no.) for Kerala Cricket Association at following premise:

1. KCA Cricket Ground, Mangalapuram, Thiruvananthapuram.
2. KCA Headquarters, Thycaud, Thiruvananthapuram.

The Contractor has agreed to execute the said works **i.e.**, "Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA-1 no.) & (100KVA – 1 no.) for Kerala Cricket Association at following premise:

1. KCA Cricket Ground, Mangalapuram, Thiruvananthapuram.
2. KCA Headquarters, Thycaud, Thiruvananthapuram.

subject to the provisions hereinafter contained and subject also to the instructions to the Bidders, General Conditions of Contract, Special Conditions, Technical Specifications, the said drawings, the Schedule of Quantities and Bidders Schedule of Quantities, all of which are hereinafter collectively referred to as '**the said conditions**', strictly in accordance with the said drawings annexed hereto and the Specification and Schedule of Quantities referred to above at or for the respective rates set out in the Bidders Schedule of Quantities annexed hereto, amounting to the sum as hereunder arrived at or such other sum as may become payable hereunder (herein under referred to as the said contract amount).

NOW THEREFORE THIS AGREEMENT WITNESSETH THAT:

1. In consideration of the said Contract Amount to be paid by the KCA to the contractor at the time and in the manner set forth in the said conditions and in accordance with the schedule of payments, the Contractor shall upon completion subject to the said conditions execute and complete the work shown in the said Drawings and described in the said Specifications and Schedule of Quantities.

2. The said Conditions and the Annexure thereto shall be read and construed as forming part of this agreement and the parties hereto respectfully abide by, submit themselves to the said condition and perform the agreements on their part respectively contained in said conditions.
3. Tender documents containing notice to the Contractors, Conditions of Contract, Appendix there to, Special Conditions of Contract, Technical Specifications and Schedule of Quantities with the rates entered therein, shall be read and stamped forming part of this agreement and the parties hereto shall positively abide by and submit themselves to the conditions and specifications and perform the agreements on their part respectively in conditions contained.
4. This Contract is neither a fixed lump sum Contract nor an item rate Contract, but is a Contract to carry out work to be paid for according to actual measured quantities and rates contained in the Schedule of Quantities and probable quantities provided in the said Conditions.
5. The KCA reserves to itself the right of altering the drawing, nature of the work by adding to, reducing or omitting any items of work or having portions of the same carried out without prejudice to this Contract.
6. The Contractor should have experienced and competent staff which will enable them to ensure proper quality check on the materials, and who will ensure to carry out proper tests as required by the specifications and will supervise the day-to-day working and execution of contract works.
7. If the Contractor has any doubt about the quality of any materials or any difficulty in supervision of the day to day work, it shall be the duty of the Contractor to report the matter in writing forthwith to the KCA and for the time being, to suspend that portion of the work about which difficulty is experienced and the Contractor will abide by the direction of the KCA.
8. The Contractor covenants and warrants that completed items of work as well as the entire work on completion will be in conformity with the Specifications and the terms and conditions of Contract and will be of proper quality and description.
9. Time shall be considered as the essence of this Agreement and Contractor hereby agrees to complete the work within **01 month starting after one week from date of issue of work order or the date on which contractor takes the possession of site, whichever is earlier**, nevertheless to the provisions of extension of time as contained in the said conditions.
10. All payments by the KCA under this contract will be made at

Thiruvananthapuram by e-payment only.

11. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Thiruvananthapuram and only court at Thiruvananthapuram shall have jurisdiction to determine the same.
12. This agreement shall be signed in duplicate; the original document shall be kept in the custody of the KCA and the duplicate with Contractor. Stamp duty shall be borne by the Contractor.

IN WITNESS WHEREOF the KCA has set its hand hereunto through its duly authorized official and the contractor has caused these presents under its common seal/by its duly authorized representative at the place and on the date and year first herein above written.

As witness our hands are affixed this ----- day of ----- 2024.

Signed and sealed by the said KCA in the presence of

.....

.....

Witness No. 1

Witness No. 2

Signed and Sealed by the said

.....

.....

Contractor in the presence of

Witness No. 1

Witness No. 2

13. ANNEXURE C

INDEMNITY BOND

(On Rs. 100/- Stamp Paper)

KNOW all men by these presents that I, Shri Vinod S Kumar do hereby execute Indemnity Bond in favour of Secretary, Kerala Cricket Association, K.C.A Complex, T.C-28/152, Sasthamkovil Road, Thycaud, Thiruvananthapuram, 695014 and M/s on thisday of2024. Whereas KCA have appointed M/s.....as the Contractor for their work relating to Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA - 1 no.) & (100KVA – 1 no.) for Kerala Cricket Association at following premise:

1. KCA Cricket Ground, Mangalapuram, Thiruvananthapuram – 200KVA DG.
2. KCA Headquarters, Thycaud, Thiruvananthapuram – 100KVA DG.

THIS DEED WITNESSETH AS FOLLOWS:-

I/We M/shereby do Indemnify, and same harmless KCA against and from

1. any third party claims, civil or criminal complaints liabilities, site mishaps and other accidents or disputes and/or damages occurring or arising out of any mishaps at the site due to faulty work, negligence, faulty construction and/or for violating any law, rules and regulations in force, for the time being while executing/executed works by me/us,

2. any damages, loss or expenses due to or resulting from negligence or breach of duty on the part of me/us or any sub-contractor/s if any, servants or agents.

3. any claim by an employee of mine/ours or of sub-contractor/s, if any, under the Workmen Compensation Act and KCAs Liability Act, 1939 or any other law, rules and regulations in force for the time being and any Acts replacing and/or amend the same or any of the same as may be in force at the time and under any law in respect of injuries to persons or property arising out of and in the course of the execution of the contract work and/or arising out of and in the course of employment of any workmen/employee.

4. Any act or omission of mine/ours or sub-contractor/s if any, our/their servants or agents which may involve any loss, damage liability, civil or criminal action.

IN WITNESS WHEREOF THE M/s.....has set his/their hands on thisday of2024.

SIGNED AND DELIVERED BY THE AFORESAID M/s IN THE PRESENCE OF WITNESS :

(1)

(2)

14. ANNEXURE D

OEM AUTHORISATION LETTER

Original Equipment Manufacturer's authorization letter (in Original Letter Head of OEM)

To,

The Secretary
Kerala Cricket Association
K.C A Complex, T.C-28/152
Sasthamkovil Road, Thycaud
Thiruvananthapuram, 695014

Dear Sir,

Subject : Direct Manufacturers Authorization

Ref : Tender No:_____dated-----

Name of Work: Supply, Installation, Testing and Commissioning of Diesel Generator Sets (200KVA-1 no.) & (100KVA – 1 no.) for Kerala Cricket Association

We, an established and reputable manufacturer of Diesel Generator having Corporate/ Registered office at(address of OEM) do hereby authorize

..... (name of contractor) and having their office at (contractor's address) as our representative to submit a above bid dt.....and subsequently negotiate and sign the contract with you for the supply of goods manufactured by us and authorize the said firm to act on our behalf in fulfilling any or all installation, technical support and maintenance obligation as required by the contract.

We hereby confirm and extend our full guarantee / warranty of three years for the products supplied by the above contractor for the said work.

Yours faithfully,

for

Signature of Officer Authorized to sign this Document on behalf of the OEM.

15. PROFORMA-1

a) General details about the Contractor

Sl. No.	Description	Information to be filled up by the Contractors
1	Name of the contractor/organization and address of the Registered Office	
2	Year of establishment	
3	Type of the Organization (whether sole Proprietorship, Partnership, Private Limited or Co-operative body, etc.)	
4	Name of the Proprietor/Partner/Directors of the Organization/Firm:	
	(a)	
	(b)	
	(c)	
	(d)	
5	Details of Registration – Whether Partnership firm, Company, etc. Name of Registering Authority, Date and Registration Number	
6	Whether registered with Government/ Semi Government/Municipal Authorities or any Public Organization and if so, in which class and since when?	
7	Experience in the Relevant field	

8	Areas of business activities other than this work	
9	Address of business activities other than this work, if any and place of Business.	
10	Address of office through which the proposed work of the Bank will be handled and the name and designation of the Officer-in-Charge	
11	Adequate and satisfactory evidence to indicate financial capacity of the Organization to undertake the said construction work with names of bankers and their full addresses (Income-tax clearance certificate and Audited Balance Sheet and Profit and Loss Account for Past three years should be attached)	
12	Yearly turn-over of the Organisation during last three years (Rs.)	
13	Whether any civil Suit/litigation arisen in the contracts executed during the last ten years/being executed now. If yes, please furnish the details in the table given below:	

Note: Income -tax clearance certificate and Audited Balance Sheet and Profit and Loss Account for past three years should be attached separately.

16. PROFORMA-2
Electrical works and previous experiences

a) List of important Projects executed by the contractor (only those projects that meets the requirements of Pre-Qualification criteria mentioned in Chapter 3 of this tender) and above **(Electrical works of office complex/ residential complex/ industrial)**

S. No	Name and Location of Work	Cost of Work	Name of owner	Full address	Name of the contact person form owner's side for whom work was executed	Contact no. of the contact person of the owner(Mandatory)	Email id of the contact person(Mandatory)	Completion period		Whether the work was left incomplete(Reasons if any for delay in completion of work) or contract was terminated from either side(give full details)	Any other relevant information
								Stipulated	Actual		
1	2	3	4	5	6	7	8	9	10	11	12

NOTE: Contractor shall submit the completion certificates of all the above-Mentioned work issued by the respective clients and shall produce before KCA whenever called for.

18. Bank Account Details

Details of Bank account to be furnished by the contractors/service providers foreffecting payment

Name and address of contractors/service providers with phone nos.

.....

.....

.....

.....

1	Name of the account holder(As appearing inthe Bank account)	
2	Name of the Bank	
3	Name of the Branch	
4	Account Number	
5	RTGS/NEFT/IFS Code	
6	Type of account (Savings, Current, etc.)	
7	PAN Number	
8	GSTN Number	

Signature

Please attach (1) a photocopy of one cancelled cheque leaf of the above Bank accountand (2) copy of PAN Card and (3) allotment letter/registration letter under GSTN.

19. CHECK LIST FOR SUBMISSION OF BID

Bidder is requested to fill this check list and ensure that all details/documents have been furnished as called for in the Bidding Document along with duly filled in, signed & stamped checklist **with this tender document**.

Please tick (✓) the box and ensure compliance:

1. EMD of requisite amount is submitted in the form of DD as mentioned in NIT in separately sealed envelope marked "Earnest money deposit"

EMD value: Rs. _____ is submitted in the form of DD

DD No. _____ Dated _____ Drawn on _____ (Name of Bank)

2. Validity of offer is up to 90 days from the date of opening of Price Bid.

Yes

3. Power of Attorney in favor of person who has signed the offer, in stamp paper of appropriate value. For Proprietary Organization, declaration for proprietorship submitted

Submitted

Proprietorship

4. Partnership Deed is case of Partnership firm and Articles of Association in case of limited company.

Submitted

Not applicable

5. Original Bidding Document along with blank (un-priced) copy of price Bid/ Schedule of Rates and addendum, if any. Price is not filled up in this document.

Submitted

6. All pages/documents are stamped and signed by the authorised signatory of the bidder.

Yes

7. Price Part in original, duly filled in, signed and sealed in each

page, submitted in separately sealed envelope.

Submitted

8. Duly filled in Details of Specific Experience as per the format attached in the Bidding Document along with Documentary evidences comprising Work order and Completion certificate in support of meeting Experience criteria as per the NIT.

Submitted

9. Completion certificate submitted:

Submitted

10. Financial statement along with the Annual Audited balance sheets and P&L Accounts for the last three years.

Submitted

12. PAN NO. With documentary proof.

Submitted

13. ESI No. with documentary proof.

Submitted

14. GST Number (GSTN) applicable under GST Act.

Submitted

NOTE: Documents, which are required to be submitted for the subject job, which are specifically mentioned in the Bidding Document.

SIGNATURE OF BIDDER : _____

NAME OF BIDDER : _____

COMPANY SEAL :

PART- II (PRICE BID)

KERALA CRICKET ASSOCIATION

KCA COMPLEX, TC 28/152, Shasthamkovil Road, Thycaud, TRIVANDRUM -695014

Tender for Supply, Installation, Testing and Commissioning of Diesel Generator Set -200KVA – 1 No.
at KCA Cricket Ground, Mangalapuram, Thiruvananthapuram.

BOQ

Sl.No.	Description of work	Unit	Quantity	Rate	Amount
1	INSTALLATION OF 200KVA DG SET				
1.1	Supply, installation, testing and commissioning of 3phase, 415 V, 0.8 PF 50 Hz radiator cooled DG set of the rating 200 kVA Prime Duty Diesel Generator Set comprising of diesel engine alternator, fuel tank, starting system, battery, battery charger, electronic governor etc with all accessories. The battery charger of auxiliary DC power supply unit, with dry batteries with connecting leads and terminals with stationary type, high discharge performance, Valve Regulated Lead Acid (VRLA) sealed maintenance free, battery charger including all other accessories like interconnecting cables etc as required for complete installation. The Generator set shall have a integral type acoustic enclosure as per the latest CPCB norms (CPCB - IV+). Diesel engine shall be suitable for continuous operation of generator set and satisfies with EURO - II specifications. The cost inclusive of unloading the DG set at site (KCA Cricket Ground, Mangalapuram, Thiruvananthapuram).	Set	1.00		
	SUB TOTAL				

CONSOLIDATED ABSTRACT

1	INSTALLATION OF 200 KVA DG SET				
	TOTAL (before GST)				
	GST (18%)				
	TOTAL AMOUNT				

KERALA CRICKET ASSOCIATION

KCA COMPLEX, TC 28/152, Shasthamkovil Road, Thycaud, TRIVANDRUM -695014

Tender for Supply, Installation, Testing and Commissioning of Diesel Generator Set -100KVA – 1 No.
at KCA Headquarters, Thycaud, Thiruvananthapuram.

BOQ

Sl.No.	Description of work	Unit	Quantity	Rate	Amount
1	INSTALLATION OF 100KVA DG SET				
1.1	Supply, installation, testing and commissioning of 3phase, 415 V, 0.8 PF 50 Hz radiator cooled DG set of the rating 100 kVA Prime Duty Diesel Generator Set comprising of diesel engine alternator, fuel tank, starting system, battery, battery charger, electronic governor etc with all accessories. The battery charger of auxiliary DC power supply unit, with dry batteries with connecting leads and terminals with stationary type, high discharge performance, Valve Regulated Lead Acid (VRLA) sealed maintenance free, battery charger including all other accessories like interconnecting cables etc as required for complete installation. The Generator set shall have a integral type acoustic enclosure as per the latest CPCB norms (CPCB - IV+). Diesel engine shall be suitable for continuous operation of generator set and satisfies with EURO - II specifications. The cost inclusive of unloading the DG set at site (KCA Headquarters, Thycaud, Thiruvananthapuram).	Set	1.00		
	SUB TOTAL				

CONSOLIDATED ABSTRACT

1	INSTALLATION OF 100 KVA DG SET				
	TOTAL (before GST)				
	GST (18%)				
	TOTAL AMOUNT				