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E-mail: pmecbam@gmail.com
Website: www.pmec.ac.in

PARALA MAHARAJA ENGINEERING COLLEGE

(An autonomous college affiliated to Biju Patnaik University of Technology, Odisha, Rourkela)
SITALAPALLI, BERHAMPUR, DIST- GANJAM, PIN – 761003

Tender Document for Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest versions, 3 phase with AMF panel along with foundations, enclosures & other accessories in Academic and Library Building at PMEC Berhampur.

TCN No. PMEC/Estt/2365 Dated 20/12/2024

PART I (TECHNICAL BID)

Submitted by

Name of the Bidder: _____

Postal Address for Communication: _____

Mobile No: _____ Email Id: _____

Date of availability of Bidding Document: 24.12.2024
on the website

Last Date and Time of Submission of 27.01.2025 up to 4PM during Office Hours.
Tender by Registered/Speed Post Only

Cost of bidding Document : Rs 2000/-(Rupees Two Thousand Only)

Date & Time of Opening of Technical bid : 28.01.2025 at 11 AM

Date & Time of Opening of Price bid : To be notified & intimated after
evaluation of technical bid

The Document is prepared by PMEC, Berhampur consisting of Pages-1 to 43. It should not be reused, copied, or used either partially or fully in any form elsewhere. The information provided by the bidders in response to this quotation document will become the property of PMEC, Berhampur and will not be returned.

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(An autonomous college affiliated to Biju Patnaik University of Technology, Odisha, Rourkela)
SITALAPALLI, BERHAMPUR, DIST- GANJAM, PIN – 761003

Advt No. P MEC/Estt./ 2368

Date: 20 /12/2024

TENDER CALL NOTICE (TWO BID SYSTEM)

Sealed tenders are invited from reputed Original Equipment Manufacturers (OEMs) /Authorized Dealers having valid GST No. and PAN for the following works;

(i) Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest versions, 3 phase with AMF panel along with foundations, enclosures & other accessories in Academic and Library Building at P MEC Berhampur (TCN No. P MEC/Estt./ 2365 Date: 20/12/2024).

(ii) Supply, Installation, Testing and Commissioning of IP-based Digital CCTV Surveillance System for Classrooms and College Campus at P MEC, Berhampur. (TCN No. P MEC/Estt./ 2366 Date:20/12/2024).

(iii) Supply, Installation, Testing and Commissioning of Wi-Fi Network in College Campus at P MEC, Berhampur (TCN No. P MEC/Estt./ 2367 Date: 20/12/2024).

The sealed tender will be received by speed post / Registered post only. The authority will not be held responsible for any postal delay. The tender document received after the scheduled date and time will not be accepted. The last date of tender submission is 27.01.2025 up to 4:00 P.M. The tender documents with other details of above works may be downloaded from the Website: www.pmec.ac.in. The authority reserves the right to reject/cancel the tenders in whole or in part without assigning any reason thereof.

[Signature]
20.12.2024

Principal

Parala Maharaja Engineering College
Berhampur

Memo No. P MEC/Estt./ 2369

Date: 20/12/2024

Copy to:

1. The Director I & PR Department, Government of Odisha to publish in Odia Edition of "The Samaj (Odia Daily) and all editions of "The Times of India (English daily)" Newspaper on 24/12/2024 or 25/12/2024 in I & PR approved rates in one issue using minimum space. The bill may be sent in triplicate along with a copy of paper in which publication is made.
2. College Notice Board
3. The PICs for information.
4. Dean (F& P), P MEC, Berhampur with a request to display the advertisement in college website.
5. The Registrar and Finance Officer, P MEC Berhampur for information.
6. The OSD-Cum-Special Secretary to Government, SD&TE Department Bhubaneswar for kind information and necessary action.

[Signature]
20.12.2024

Principal

P MEC, Berhampur

Parala Maharaja Engineering College
Berhampur

PARALA MAHARAJA ENGINEERING COLLEGE

(An autonomous college affiliated to Biju Patnaik University of Technology, Odisha, Rourkela)
SITALAPALLI, BERHAMPUR, DIST- GANJAM, PIN – 761003

TCN No. P MEC/Estt./2365

Date: 20/12/2024

TENDER CALL NOTICE (TWO BID SYSTEM)

The Principal, Parala Maharaja Engineering College Berhampur invites sealed bids from eligible bidders for Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest version, 3 phase with AMF panel along with foundations, enclosures & other accessories in Academic and Library Building at P MEC Berhampur.

Interested eligible Bidders may obtain detailed information and a list of items with technical specifications from the website www.pmec.ac.in

Particulars about the submission of the bidding document are as follows:

- (a) Cost of bidding document: Rs. 2000/- (service tax is included) (non-refundable)
- (b) The bidder has to submit a Demand Draft of **not less than 1% of the quoted amount** in favour of “**The Principal, Parala Maharaja Engineering College, Berhampur**” drawn in any Nationalized Bank payable at Berhampur towards EMD.
- (c) First date of availability of Bidding Document on the website: **24.12.2024**
- (d) Last date and time of submission of bids: **27.01.2025 up to 4:00 PM**
- (e) Date and time of opening of technical bids: **28.01.2025 at 11:00 AM**
- (g) Date and time of opening of financial bids: *Will be communicated to the successful bidders.*
- (f) Time period for completion: 120 days from the date of issue of work order.
- (h) The authority reserves the right to reject any or all the bids without assigning any reason thereof.
- (i) Other details can be seen in the tender call notice.
- (j) If any queries on technical and site, please contact ME, Electrical (Mobile No: 9437091773) during office hours only or mail to: procurement@pmec.ac.in
- (k) Place of opening of bids:

Room No. 110 (Ground Floor)

PARALA MAHARAJA ENGINEERING COLLEGE (P MEC)

Sitalapalli, PO: Tanganapalli, Berhampur-761003, Ganjam,

Odisha, India.

- (l) Address for communication:

The Principal

PARALA MAHARAJA ENGINEERING COLLEGE (P MEC)

Sitalapalli, PO: Tanganapalli, Berhampur-761003, Ganjam,

Odisha, India.

Email id: procurement@pmec.ac.in/pmecbam@gmail.com

Sd/-
Principal

Terms and Conditions for Submission of Bid

1. **Bidder's Eligibility Criteria:** The bidder should verify its eligibility criteria as mentioned below before submitting the tender and enclose the required documents in technical bid in the sequence listed below, to avoid rejection or disqualification of tender. The bidder should meet the following criteria;
 - a) The Bidder should be OEM (Original Equipment Manufacturer) or Authorized Dealer of the OEM of offered products/items. The OEM, who shall participate in the bid directly or through a Authorized Dealer should satisfy the conditions such as (i) OEM should have presence in India for more than 10 years (Certificate of Incorporation required) (ii) OEM should have registered office in Odisha (Valid documents is required: Odisha GST, Trade License) (iii) OEM should have up-to-date Industry Registration and Tax Registration Certificate of offered items issued from competent authority (iv) OEM should have BIS certification of 5C of DG Set and its other components/accessories (v) OEM should have direct/authorized service centre located at Bhubaneswar/Berhampur in the state of Odisha for providing quick on-site support. (vi) OEM's average turnover is Rs. 500Cr or more in last three financial years- FY2021-22, FY2022-23 and FY2023-24 in India and Globally (vii) OEM should have ISO 9001, ISO 14001, ISO 45001. All the supporting documents of above points must be enclosed with technical bid.
 - b) The Authorized Dealer who shall participate in the bid directly should satisfy the conditions such as (i) OEM's authorization, in original, on the OEM's letter head, of the quoted product duly ink-signed by authorized signatory of OEM (**Annexure I**) (ii) OEM's authorization, in original, on the OEM's letter head, in support of OEM's service/support centers located at Bhubaneswar/ Berhampur in the state of Odisha, duly ink-signed by OEM (iii) OEM's authorization, in original, on the OEM's letter head, in support of "*OEM's after-sales support*" duly ink-signed by OEM (iv) Annual turnover (average) should be more than One Crore in last three financial years. All the supporting documents of above points and points at 1 (a) must be enclosed with technical bid.
 - c) The bidder must have wide experience of installing DG Sets in NITs/IITs/ reputed Research Laboratories/ Government Institutions within Odisha/India. Necessary supporting documents like work orders, work completion certificate, payment certificate etc. for last three years to this effect must be submitted along with the offer.

- d) The bidder should be a registered firm having valid GST/CST/PAN/TIN/Service Tax.
- e) Bidder shall have to provide operational Training for DG Sets to Officials at Consignee site **at least for 3 days**. Training must include user training, account creation, coordination, logs, controls, hand holding, running and up keeping, trouble shooting/maintenance/repair to be done for the network.
- f) The bidder should provide 2-years Standard Warranty for all hardware, equipment, software including 5C of DG Sets and additional 3 years on 5C of the engine from the date of commissioning of DG Sets. Therefore 5C of the engine shall have 5-years Standard Warranty.
- After expiry of 2-years Standard Warranty, the bidder must have willingness to provide Extended Warranty which includes cost of hardware/spares to be replaced/repaired and services to be rendered for next 3-years under Comprehensive Annual Maintenance Contract (CAMC) for DG Sets.
- g) The bidder should not have been blacklisted by any organization.
2. Bidders may visit the college, at their own expenses, in any working day during office hours so as to acquaint themselves with the (i) site conditions (ii) scope and extent of work etc where the job is to be carried out before quoting the rates.
 3. The Bidder shall have the single point responsibility for the complete Turnkey solution including supply, installation, testing & commissioning and maintenance.
 4. **Cost of tender documents:** The tender documents can be downloaded from the Institute website **www.pmec.ac.in** and have to deposit a Demand Draft equal to the cost of tender documents of Rs.2000/- (Rupees Two Thousand Only) (Non-refundable, Non-adjustable and Non-transferable) in favor of “Principal, Parala Maharaja Engineering College, Berhampur” drawn in any Nationalized Bank payable at Berhampur.
 5. **Earnest Money Deposit** not less than 1% of the quoted amount in the shape of a Demand Draft in favour of “Principal, Parala Maharaja Engineering College, Berhampur” drawn in any Nationalized Bank payable at Berhampur. The EMD of unsuccessful bidder shall be returned within fifteen days of finalization of the work order. The Institute shall not be responsible for any non-receipt of the EMD by post.
 6. This tender documents must reach to “The Principal, Parala Maharaja Engineering College, Sitalapalli, Berhampur, Ganjam-761003 (Odisha)” by the last date of submission under a sealed cover by registered/speed post only. The tenders received

after the due date & time is liable to be rejected. The Institute is not responsible for any delay, loss or non-receipt of tender documents sent by post. Submission of tender by FAX/e-mail/Courier will not be entertained.

7. This tender documents must be filled in completely and ink-signed by the authorized signatory of the bidder on all the pages as acceptance of the guidelines, terms and conditions laid in this tender document, otherwise the bid shall become invalid. (This document should be printed on both sides of the A4 size paper sheet).
8. The tenders shall be opened in the presence of the bidder or their authorized representative on due date and time as specified in the tender document. The name and address of the representative authorized to attend the opening of the tenders on behalf of a bidder should be indicated in the tender. The representative so deputed should also bring with him a letter of authorization from the firm for having been authorized to be present at the time of opening of tenders and are required to sign an attendance sheet. Only one representative per firm shall be permitted to attend the opening of the tenders
9. If the date of opening of tender happens to be a holiday, a revised schedule will be notified. However, in absence of such notification, the tender will be opened on the next working day. The time and venue remains unaltered.
10. Any additional information, bidders wish to provide may be attached separately.
11. **Documents Comprising the Bid:** The bid prepared by the bidder shall be in English and shall comprise of two parts i.e. (1) The Technical Bid and (2) Financial Bid. In case, any bidder encloses the financial bid within technical bid, the same shall be rejected.

Part I (Technical Bid): To qualify in the technical bid, the bidder should have the minimum eligibility criteria as under and the bidder in this regard must submit the following documents in support of his eligibility criteria;

- a) Demand Draft (non-refundable) towards the cost of tender documents in favour of “Principal, Parala Maharaja Engineering College, Berhampur” drawn in any Nationalized Bank payable at Berhampur. Demand draft towards EMD in favour of “Principal, Parala Maharaja Engineering College, Berhampur” drawn in any Nationalized Bank payable at Berhampur. Both DDs should be made separately.
- b) Duly filled-in Information Sheet of the bidder along with enclosures (**Annexure-II**)
- c) Profile of the organization along with list of personnel including skills and competence in organization.

- d) Undertaking by the bidder for unconditional acceptance of terms and conditions of this tender document in the prescribe format (**Annexure-III**)
- e) Self-attested copy of up-to-date IT PAN of the firm, and service tax and GST registration certificate etc. issued by appropriate government authority for the required services with sale.
- f) Financial Status: Copies of profit & loss account and balance sheet duly authenticated by a chartered accountant for the last three years. The copy of annual turnover (average) statement duly certified by the bidders of more than One Crore in last three years.
- g) Copy of Income Tax return acknowledgement for last three year.
- h) Bidders should submit copy of up-to-date valid certificate of OEM/Business partner/ Authorized Dealer for DG Sets. Tender Specific authorized Letter from OEM's must be submitted.
- i) List of user's clients related to experience of execution of similar work in central/ state Govt departments, PSU's, Autonomous bodies, Large Industrials, Educational campus, where similar services (supply and installation of DG Sets) are provided by the agency for the clients along with address and telephone nos with supporting documents like work orders, work completion certificate, payment certificates etc. for last three years to this effect must be submitted along with the offer (**Annexure-IV**)
- j) The bidder must submit an affidavit with the content that he has not been blacklisted by any Govt. Organization or punished by any court for any criminal offence/ breach of contract and no police/vigilance enquiry/criminal case is pending against him or company/agency as the case may be, in Non-Judicial Stamp Paper (Rs.100/-).
- k) Two self-attested envelope of size 11" x 5" (or above) with complete address with pin and contact no written for future correspondence.
- l) Two self-addressed slips of size 6" x 3" (or above) with complete address with pin and contact no. written future correspondence.
- m) Technical specification for DG Set along with list of approved makes is enclosed as in **Annexure-V**. The bidder should submit a technical compliance form of items with make & model without any ambiguity on OEM Letterhead ink signed by OEM as per **Annexure-VI** falling which the tender paper shall be rejected. The bidder has to furnish one make & one model of each item looking into compatibility of the system. Bid shall be rejected quoting more than one make/model.

- n) Detailed literature along with make, model, topology, design, data sheet, pamphlets/catalogue and performance curves as applicable are to be submitted. The bidder has to submit a schematic diagram/drawing of DG Sets.
- o) To be submitted with technical bid:
- ❖ Manufacturer's catalogues,
 - ❖ Copy of Alternator Type test report of similar alternator issued in the name of Alternator Manufacturer,
 - ❖ Copy of Type Approval certificate of similar engine issued in the name of Engine Manufacturer,
 - ❖ Copy of Type Approval certificate of similar DG Set issued in the name of DG Set OEM ,
 - ❖ Copy of Conformity of production (COP) certificate of engine,
 - ❖ Copy of Conformity of production (COP) certificate of DG Set issued in the name of DG Set OEM ,
 - ❖ IP certificate for Panel
 - ❖ Copy of different ISOs certificate issued in the name of DG Set OEM
- To prove conformity to the specifications, copy of Routine test report, Type test report & Endurance test report for Engine & Alternator as per latest BIS Code should be submitted. These test reports should be of last five years of DG Sets of similar capacity supplied to other Agencies
- p) Participant shall submit CPCB compliance report/certificate for complete DG set and BIS certificate for diesel engine.
- q) Other Annexure duly filled-in and signed with official seal
- r) Any other document in support of the eligibility of the bidder.

Part II (Price Bid): The price bid shall specify the following.

- a) The hard copy of price bid for Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest version, 3 phase with AMF panel along with enclosers, foundations & other accessories in Academic and Library Building at PMEC Berhampur as per technical specification and scope of work in Indian Rupees only in the **Annexure- IX (A)**.
- b) Charges for Comprehensive Annual Maintenance of DG Sets at PMEC, Berhampur in the **Annexure- IX (B)**

12. Submission of Tender: Sealing and Marking of Bids

The bidder shall wax seal the technical bid and financial bid in two separate envelopes, clearly superscribing on the covers "**Part I – Technical bid for DG Sets** " and "**Part II – Price Bid for DG Sets** " and also indicating on each of the covers the "**Tender call Notice Number & Date**" and **Due date and time of submission** as mentioned in Tender Call Notice. These envelopes (Part I and Part II separately) should be addressed to "The Principal, Parala Maharaja Engineering College, Sitalapalli, Berhampur, Ganjam-761003.

*Envelopes 1 & 2 should be submitted in a 3rd big envelope super-scribing "**Supply, Installation, Commissioning and Training of DG Sets at PMEC, Berhampur**" and addressed to "The Principal, Parala Maharaja Engineering College, Sitalapalli, Berhampur, Ganjam-761003.*

13. The tender is liable to be rejected, and the EMD shall be forfeited in the event of any failure to comply with any of the clauses of the terms and conditions of this tender call document or in the event of bidder withdrawing his offer before/after finalization of this selection process. Bid without the required EMD amount will be summarily rejected.
14. Bid along with the prices shall remain valid initially for a period of 120 days from the date of opening of Part II of tender. The bid valid for a shorter period shall be rejected by the Institute as non-responsive. In exceptional circumstance, the Institute may request for the consent of the bidder for an extension to the period of bid validity.
15. To assist evaluation and comparison of the bids, the Institute at its discretion may ask the bidder for clarification of the bid. The clarification and response from bidder shall be in writing.
16. The Institute reserves the right at the time of award of the order to increase or decrease the quantity of the goods and services specified in the schedule of requirements without any change in unit price of the ordered quantity.
17. The Institute reserves the right to reject any or all the tenders without assigning any reason and the decision of the Institute shall be final and binding.
18. The Institute reserves the right to call the bidders and conduct negotiations, if necessary and has the right to select more than one bidder, one bidder for one or more items at its discretion.
19. Any deviation in specification, terms and conditions shall not be entertained. The Institute reserves the right to add/delete/change/modify any of the specifications, terms

and conditions of this tender call document, if it is necessary during the process of execution of the work.

20. The Institute reserves the right to order all or part or none of the items and/or services given in this schedule. The Institute also reserves the right to order additional services based on the rates finalized as a result of this tender.
21. At any time prior to date of submission of tenders, the Institute may, for any reason, or decision, modify the terms & conditions of the tender document by a corrigendum displayed on the website of PMEC (www.pmec.ac.in). In order to provide reasonable time to take the amendment into account in preparing their bid, the Institute may or may not at his discretion, extend the date and time for submission of tenders.

22. Technical Evaluation of Bids

- a) Detailed technical evaluation shall be carried out by Technical Evaluation Committee pursuant to conditions in the tender documents to determine responsiveness of each tender. For this clause, the substantially responsive bid is one that conforms to all the eligibility and terms and conditions of the tender without any material deviation. The institute's determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. The institute shall evaluate the technical bids to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are in order.
- b) The technical evaluation committee may call the responsive bidders for discussion or presentation to facilitate and assess their undertaking of the scope of work and its execution. However, the committee shall have sole discretion to call for discussion/presentation.
- c) Financial bids of only those bidders who qualify the technical criteria will be opened, provided all other requirements are fulfilled.
- d) A bid determined as subsequently non-responsive will be rejected by the institute.
- e) PMEC, Berhampur shall have right to accept or reject any or all tenders without assigning any reason thereof.

23. Financial Evaluation and Comparison of Bids

- a) The financial bid shall be opened only of those bidders who have been found to be technically eligible as enumerated earlier. The financial bids shall be opened in

presence of representative of technically eligible bidders, who may like to be present. The institute shall inform the date, place, time for opening of financial bid.

- b) The rates must be quoted as per format prescribed. The quoted price must be inclusive of all taxes including GST, freight, packing, forwarding, transit insurance, storage at site etc. and must be shown clearly against each entity for delivery at site. The installation, commissioning, demonstration and training shall be at the supplier cost.
- c) Bidder shall quote the rate price including all taxes and other cost while quoting for the tender in “**Part -II: Financial bid**” to be kept in Envelop No.2. Income Tax will be deducted at source from the bills as applicable.
- d) Arithmetic errors shall be rectified on the following basis. If there is discrepancy between the unit price and total price, the unit price shall prevail and the total price shall be corrected by the institute. If there is discrepancy between words and figures, the lesser amount shall be considered as valid. If the supplier does not accept the correction of the errors, his bid shall be rejected.
- e) Quoting minimum rate just for acquiring the tenders will not be the only criteria for award of the contract. Therefore, bidders should carefully assess the work before offering the rates. The tenders will be evaluated based on total cost which will include the capital cost quoted for the system and the rates quoted for Comprehensive Annual Maintenance Contract (CAMC) for a period of 3 years after expiry of two year standard warranty period (Defect Liability Period). Payment terms for CAMC will be as half yearly payment after satisfactory completion of the service.
- f) The purpose of bid evaluation is to determine substantially responsive bid with **the lowest evaluated cost**, but not necessarily **the lowest submitted price**, which should be recommended for award.
- g) The PMEC, Berhampur does not bind himself to accept the lowest bid or any bid and reserve the right of accepting the whole or any part of the bid or portion of the job offered and the bidder shall provide the same at the rate quoted. The PMEC, Berhampur reserves the right to reject any or all offers received in response to tender or cancel or withdrawn the tenders notice without assigning any reasons, whatsoever.

24. Bid Price and its validity

- a) The bidder shall give the total composite price inclusive of all levies and taxes etc.
- b) The college may increase or decrease the quantity before placing/executing the order, without assigning any reason thereof.

- c) The bidders must quote the final rates in clear and unambiguous terms in Indian Rupees only. No foreign exchange will be made available by the institute.
- d) Bidders are requested to quote their prices firm & fixed basis for the entire period of the workorder. Bids of the firms received with prices quoted on variable basis shall be rejected without assigning any reason and no communication in this regard shall be entertained.
- e) The tender along with the prices shall remain valid initially for a period of 120 days from the date of opening of Part II of tender, which period may be further extended by mutual agreement in writing by bidder and the bidder shall not cancel or withdraw the tender during this period.

25. Award of Contract: Placement Of Order

The Institute shall consider placement of work order for the job which has been found technically, commercially and financially acceptable. The institute reserves the right to counter offer price against price quoted by any bidder.

26. Performance Bank Guarantee

The successful Bidder shall furnish Performance Bank Guarantee within 21 days after the issue of work order for an amount equal to 5% (Five Percent) of the Contract Price in favor of “Principal, Parala Maharaja Engineering College, Berhampur” issued by any Nationalized Bank valid up to 60 months (**Annexure-VII**).

The Performance Bank Guarantee shall be refunded after 60 months from the date of successful completion of the work as per order.

No interest will be paid on Performance Bank Guarantee/ Earnest Money Deposit.

The Performance Bank Guarantee is liable to be deducted/forfeited for any or all the following reasons:

- a) Unusual delay in complying the service request (if any).
- b) Termination of contract or delivery defaulters.
- c) Any default, failure or negligence in fulfilling the contract, Losses incurred by the Purchaser during warrantee period of 60 months.

27. Payment Terms

No advance payment is allowed by the Purchaser to the supplier for any deal. The standard payment terms (subject to recoveries, if any) upon submission of required documents shall be as follows:

The supplier should submit the bills in triplicate on printed forms only. The billing must be done with GST billing norms. The 90% of the billed amount will be released only after receiving the items in good condition, successful installation, demonstration and commissioning of the DG Sets in premises as per the specification along with other terms and conditions stipulated in the work order and certified by Maintenance Engineer (Elect). The balance 10% will be released after 60 days of the satisfactory on-site performance from the final date of installation and commissioning of all hardware against Bank Guarantee of 5% of total project value. All payments will be released based on separate invoices submitted to the college by the bidder.

28. Standard Warranty and Comprehensive Annual Maintenance Contract (CAMC)

The bidder will provide Standard Warranty/guarantee for all hardware/equipment /spares/accessories etc and onsite supports/services for complete DG Sets for two years from the date of commissioning and additional 3 years Standard Warranty and onsite supports/services on five critical components (5C) of the engine i.e. Cylinder Block, Cylinder Head, Cam Shaft, Crank Shaft, and Connecting Rod. However, if any other individual component has standard warranty more than 2 years offered by manufacturers, the same will prevail. Further, after two years of standard warranty, the bidder should provide extended warranty for all hardware/equipment /spares/accessories etc and free technical support & maintenance obligation/service through CAMC for next 3 years for complete DG Sets and the cost of which should be quoted separately for 3 years.

- a) The successful Bidder has to warrant that the Goods supplied under this Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the work Order.
- b) The successful Bidder further have to warrant that the Goods supplied under this Work Order shall have no defect arising from design, materials or workmanship (except when the design and/or materials required by the Institute's specifications) or from any act or omission of the successful Bidder, that may develop under normal use of the supplied goods.
- c) All the equipment including the accessories supplied as per the technical specification as mentioned in the bidding document should carry standard warranty (including all spares and accessories) for a period mentioned in this documents. During this period, the successful Bidder shall replace all defective parts / accessories/consumables and

attend to all repairs/breakdowns and undertake stipulated number of preventive maintenance visits to every user installation site. The cost of spare parts for all replacements has to be borne by the successful Bidder during the period of comprehensive warranty. The items which are not covered under warranty should be clearly mentioned along with rate of the items.

- d) On expiry of the comprehensive warranty period, the successful Bidder shall be willing to provide after sales support for an additional period prescribed in this document.
- e) The prospective Bidder shall submit an undertaking from the Original Equipment Manufacturers (OEM) that they are willing to provide spare parts for the period of warranty as mentioned and also during the additional CAMC period, if awarded. The OEM shall also assure continuity of service to their product, in the event of change in dealership or the Bidders – their existing dealers- couldn't provide service during the warranty / CAMC period. The undertaking from OEM is an essential document forming part of the Technical Bid, without which the tenders will be rejected summarily in the first round itself.
- f) After sales service centre in Bhubaneswar/Berhampur (Odisha) should be available as a part of the pre-qualification and the Bidder shall provide proof of their capability to undertake such maintenance/repair within the stipulated time.
- g) The successful Bidder shall provide preventive maintenance as per the frequency mentioned in this document during the warranty period. The Bidder shall attend any number of breakdown/repair calls as and when informed by the institute authority without any extra cost.
- h) Upon receipt of such notice for repair/breakdown from the institute, the successful Bidder shall, within the period as specified in this document, and with all reasonable speed, repair or replace the defective goods or parts thereof, without cost to the college.
- i) If the successful Bidder, having been notified, fails to rectify the defect(s) within the period specified mentioned in this document, the Institution may proceed to take such remedial action as may be deemed necessary, at the successful Bidder's risk and cost and without prejudice to any other rights which the Institution may have against the successful Bidder under the contract.
- j) Failure to attend the repairs in time or failure to attend the stipulated preventive maintenance visit or failure to replace the defective equipment or to provide stand by equipment if the fault/down time exceeds the stipulated period or to ensure the

stipulated up-time in an year shall lead to forfeiture of the performance Bank Guarantee and/or may lead to blacklisting/debarring of the defaulting Bidder.

- k) The equipment which requires quality assurance test shall be done at free of cost immediately after installation, during the comprehensive warranty period, by the demand of User and also when major spares are replaced.
- l) Any mandatory approval required for installation shall be obtained by the successful bidder in liaison with the respective authorities without any extra cost.
- m) The Bidder shall submit the parameters which require calibration and the frequency of calibration required.
- n) The Bidder shall undertake on-site calibration of the equipment every year as part of the after sales service during the period of comprehensive warranty, or on demand from the user.
- o) The Bidder shall also have to submit whether periodic replacements of consumable items are required for proper functioning of their quoted machine/Equipment, If yes, they should submit the list of such consumables along with price list and frequency of replacement per year, if the same is not replaced free of cost during warranty / guarantee period.
- p) The offered warranty also includes:
 - i). Visits to the user institutions at frequencies prescribed as part of preventive maintenance.
 - ii). Testing & calibration as per technical/service/operation manual of the manufacturer or as per the period specified or as per the demand of the user.
 - iii). Quality Assurance tests (if applicable).
 - iv). The cost of labour for all repairs/ and all spares required for replacement during repairs all kinds of accessories
 - v). The exclusion of warranty of any vital equipment parts will be compared with offers of other Bidders during evaluation of the bids and this may be taken into consideration in deciding the successful Bidder on the basis of expert advice.
 - vi). The Bidder shall provide up-time warranty of complete equipment as mentioned in this document, the uptime being calculated on 24 (hrs) X 7 (days) basis failing which Warranty period will be extended as per the provisions of CAMC agreement.

Comprehensive Annual Maintenance Contract (CAMC)

- a) The decision to enter into CAMC will be determined on the basis of cost and complexity of the equipment by the Institute, at its discretion, prior to the expiry of warranty period.
- b) The Comprehensive Annual Maintenance Contract (CAMC) is otherwise an extended warranty. All the terms and conditions agreed by the successful Bidder for executing 2-years Standard Warranty (Warranty on hardware and free maintenance obligation) shall be extended during the period of CAMC, only difference being the payment of CAMC charges is absent during the period of standard warranty.
- c) The cost of CAMC, accessories and spares, reagents and consumables as in case may be quoted along with taxes applicable, if any. The taxes to be paid extra, to be specifically indicated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- d) Failure/refusal on the part of the successful bidder supplying/installing the equipment to enter into CAMC with the Institute, at the end of the Comprehensive Warranty Period, if the Institute, as the case may be, desires so, may also result in the blacklisting/debarring of the Bidder.
- e) The successful Bidder shall also indicate the rates for the CAMC in price bid form and such rates are binding on the successful tenders after the expiry of the warranty period. The yearly rates for CAMC shall remain the one and the same as quoted in the price bid form for the extended years.
- f) Cost of CAMC will be considered for Ranking/Evaluation purpose.
- g) The payment of the agreed CAMC charges will be made as per frequency for payment after satisfactory completion of said period, on receipt of service report/ breakdown report from the user.
- h) The Bidder shall also have to submit whether periodic replacements of consumable items are required for proper functioning of their quoted machine/Equipment? If yes they should submit the list of such consumables along with price list and frequency of replacement per year if the same is not included in quoted Comprehensive Annual Maintenance Contract charges per year.
- i) Payment of Comprehensive Annual Maintenance Contract would be made on half yearly basis after completion of work and satisfactory working report. Firm have to

provide a minimum Uptime Guarantee of 95% (95% of 365 Days) per year during the warranty period as well as during the Comprehensive Annual Maintenance Contract.

- j) While calculating the total unit price of the item / system to be procured, expenditure to be incurred in maintenance of the quoted item / system including all spare parts for a total period of 3 years after expiry of the warranty period of 2 years shall be taken into consideration. The 5C components of DG sets are to be guaranteed/warranted with onsite support/free maintenance for five years as per clause 28 of the document. Therefore, it is mandatory for the bidders to quote the rate for Comprehensive Annual Maintenance Contract (maintenance with spares) excluding 5C for a period of 3 years after expiry of standard warranty period of 2 years.

29. Demonstration of Technical expertise: The firm/OEM/Bidder/ Agency will be required to demonstrate the technical capabilities of the entire network and functioning of each installed equipment at the place and time determined by the institute. at their own expenses.

30. Other Conditions

- a) The successful bidder shall submit full address with phone no., fax no. and e-mail ID of the Contact person for after sales service.
- b) The consignee shall not adopt call log procedure for call logging through IVR system of the OEM for service or complain launching.
- c) The successful bidder is required to take care of change in technology and supply higher version of the hardware available at the time of delivery at the same total cost as per the order. The operating manuals and tools must be supplied.
- d) No interest on any deferred claim arising out of this purchase shall be payable in any case whatsoever. No payment will be made for goods rejected at site during installation and commissioning.
- e) The Purchaser will not pay separately for transit Insurance. The supplier is completely responsible for delivery of goods in perfect condition at site and shall replace/ rectify the missing / defective parts if any at his own cost.
- f) The goods to be supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage & delivery of the goods from Warehouse / Factory / Ex- shop of the supplier to the delivery on “All Risk” basis including war Risks and Strike.
- g) The bidder has to ensure that materials are properly packed before dispatch to avoid

damage during transport, storage and handling. Proper arrangements shall be provided to handle the DG Sets.

- h) The bidder shall be responsible for any accident during the execution of the work for this work order for which he has to arrange workmen's compensation insurance. This policy shall also cover the bidder against the claims for injury, disability, disease, or death of his or his sub-contractor's employees covered under the workmen's compensation act, 1948.
 - i) The bidder should have enough spare parts and backup configuration and setup etc. to provide standby in case of any repair in the equipments, cables etc., and the repair/replacement of the original equipment should be done within 24 hours.
 - j) The bidders must perform quarterly post-implementation health checks/preventive maintenance throughout the period (60 months) to ensure the solution is correctly configured and functioning optimally on-site. A detailed report of each visit must be submitted to the Professor In Charge (PIC). The CAMC amount will be disbursed to the bidder semi-annually based on these reports. These health checks must be conducted proactively, without requiring any request from the Institute.
 - k) All bidders should watch and follow everyday our website www.pmec.ac.in for any updation.
 - l) The college reserves the right to cancel an item as ordered or cancel the whole order, if the college does not agree to a change of specification suggested by the bidder or if the bidder is not able to supply an item as per changed specification required by the college or if there is no agreement on the revision price.
 - m) The Institute may reject the bid even if it is accepted but the successful bidder fails to execute any of the terms and conditions mentioned herein.
- 31. Jurisdiction and Right to Amend Rules:** The Institute reserves the right to amend the rules of operation whenever and wherever considered necessary and appropriate. The same shall be intimated to the bidder in due course. The Institute rules shall be binding for execution of the workorder. Further, in case of any dispute arising out of or in connection with the aforesaid contract either during subsistence of the order or thereafter, the Principal of the Institute is the sole arbitrator to decide the same and his decision is final and binding on both the parties. If differences persist even after attribution and there are compelling reasons to go to the court, it will be decided in the proper Court of Law at Berhampur, Ganjam District only within the State of Odisha.

32. Delivery & Billing Address : The Principal,
Parala Maharaja Engineering College,
Sitallapalli, PO: Tanganapalli, Berhampur,
Dist. Ganjam (Odisha) 761003.

Scope of Work

The scope of the work is to provide Turnkey Solution that includes Supply, Installation, Testing, Commissioning of DG Sets in the P MEC Berhampur campus. The scopes of work include the followings;

- 1) Supply, lifting/erection, installation, testing, commissioning of diesel generator sets with AMF, Auto Start/stop panel and associated cabling, earthing, safety items including packing, handling, transporting, clearing, loading/unloading etc. at P MEC's site and other accessories required for complete installation in compliance with the specifications and the manufacturer's instructions. The complete DG Sets with all its accessories are to be door-delivered to the college. Site location for installation of DG sets will be decided by P MEC authority.
- 2) Supply, installation and Connection of cable between the Generator Set and AMF. neutral earthing, body earthing, required for engine and alternator, main board/control panels and control wiring including loop earthing, specified in schedule of work. The work shall be done conforming to relevant BIS.
- 3) The generator set, control panel, as well as the neutral of the generator shall be effectively earthed. The bidder shall provide 4 Nos. chemical earthings complete in all respect with chamber cover, necessary connections etc. along with strip (as required) for each DG Set. Out of these 4 earthings, 2 are for DG Set body and 2 are for neutral. All the materials / labour required for construction of above earthing pits shall be supplied by the bidder. The consignee should choose earthing pit site in such a way that the earthing pits can be made within 30 metres distance from the Power Generator. Earthing pit shall be typically constructed as per prevalent standard practices and shall be generally conforming to OPWD General Specification for Electrical Works.
- 4) All Sundry equipments/fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, cable trays, junction boxes, a set of tools & plants and all other sundry items for proper assembly and installation of the DG Sets 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) Supply, laying and termination of interconnecting power and control cable shall be done by the bidder. Necessary aluminium power cable, cable glands, cable end lugs, PVC numbering ferrules, tapes etc. shall be supplied and installed by the bidder. The cable

supplied shall be ISI marked heavy duty PVC insulated, armoured cable, with PVC outer Sheath of Type ST-2 (FR Grade, Category C1), with aluminium conductor having insulation of PVC compound type -C, suitable for rated voltage up to and including 1100 volts and conforming to IS: 1554 (Part-1) latest.

- 6) The Contractor shall carry out erection, testing and commissioning of the diesel generator set with Control Panel. The DG set shall be installed on AVM pads. The complete work shall be carried out as per manufacturer's manuals, drawings etc.
- 7) 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.
- 8) Installation of the DG with manufacturing equipments/accessories should be done by the bidder as per OEM's manual/instructions.
- 9) It will be the responsibility of the bidder to provide all necessary spares and consumables, which may be required during installation and commissioning, at no extra cost to the purchaser.
- 10) The bidder is to bring their own instruments, tools & plants required for installation, testing, and commissioning.
- 11) Installation must be completed within 30 days after delivery at site.
- 12) The bidder should provide all necessary raw materials and consumables for running of the machine during commissioning.
- 13) The bidder should provide all civil engineering works like base plinth with asbestos sheds along with metallic fenced as per site engineer instruction and drawings at the time of commission.
- 14) A completion certificate regarding commissioning of DG set to be furnished by bidder.
- 15) After completion of the work a joint inspection report is to be submitted with duly signed by bidder and site engineer(s).
- 16) The bidders will have to follow all the security instructions applicable from time to time. If the engineers deputed by the bidder are found guilty of any violation of security norms, they will be liable to be prosecuted under the law.
- 17) The entire electrical installation work shall be carried out in conformity with the requirements of the Indian Electricity rules, the relevant I.S. codes of practice, as amended to date, wherever applicable and the regulations of the local licensing bodies,

CEA, SPCB, Electrical Inspector etc., and where such installations are subject to inspection and approval of fire insurance, the installation shall be planned and executed also conforming to their regulations/rules.

- 18) Design and construction of DG sets RCC foundation and its shed with GI wired fencing along with all other accessories/components. The construction of shed needs to be approved by PMEC Berhampur.
- 19) Construction of GI frame design Shelter for Generator. The shelter drawing needs to be approved by the competent authority of the college.
- 20) Obtaining all statutory permissions/license from appropriate authorities such as from State Pollution Control Board/ Electrical Inspectorate Authority /Local Bodies/ other licensing authorities etc., wherever required. However the application shall be made by the PMEC in consultation with bidder and necessary fee shall be paid by bidder, as applicable.
- 21) Minor building work necessary for installation of equipment, foundation trench for fuel line and cable, making of opening in walls or in the floors and restoring them to their original condition/ finish and necessary grouting etc. as required are to be done by bidder without any extra cost.
- 22) All supports for exhaust and water pipes, chimney, cables, anti-vibration pads etc. as are necessary.
- 23) Providing all-inclusive service including all spares, etc. during warranty period of DG set.
- 24) All engineering, equipment, labour, and permits required for satisfactorily completion of DG set installation work as per Specification.
- 25) Any other ancillary work, related to but not mentioned above, required for satisfactorily completion of the job.
- 26) Unless otherwise 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:
- 27) Making good to all damages caused to the structure during installation and restoring the same to their original finish.

Installation and Commissioning

The Bidder shall be liable to complete all successful installation and commissioning of the DG Sets in the premise within 30 days from the date of receipt of the work order. After

successful completion of installation of the system, a 2-day continuous trial operation putting those on optimum use shall be conducted by the bidder at site, during which the performance of the DG shall be demonstrated for trouble-free continuous operation, meeting the specified standards and proper training shall be imparted to officials of the college. Installation and Commissioning shall include the following: All acceptance tests are to be completed as specified in relevant BIS (Recent edition)

- 1) After successful completion of Installation of the 2 x 250 kVA DGs, a 2-days continuous trial operation putting those on optimum use shall be conducted by the bidder at site, during which the performance of the 2 x 250 kVA DGs shall be demonstrated for trouble-free continuous operation, meeting the specified standards and proper training shall be imparted to two persons of the purchaser.
- 2) The DG set shall be tested on load of Unity Power Factor for the rated kW rating. During testing, the each of the DG sets shall be operated for 12 hours for DG set's kW rating including one hour on 10% overload after continuous run of the 12 hours.
- 3) The fuel consumption shall be measured at 100% load. The DG set shall remain liable for rejection, if the actual fuel consumption calculated exceed 5% of the committed value. All other parameters shall be tested as per relevant IS. The contractor shall provide all the consumables like fuel, lubricant (including one initial charge) necessary for this testing.
- 4) **Testing Procedure:** The testing procedure for specific fuel consumption norms under standard and labeling program for DG sets is proposed. DG set shall run on 100% loading for 15 minutes after reaching thermal stability. Then DG set load shall be gradually reduced to 75% load. After reaching 75% loading, 0.8 Power Factor and normal ambient conditions, fuel consumption and other parameters shall be recorded for 4 hours at an interval of 30 minutes each. Average SFC of 4 hours will be considered for test result.
- 5) During trial operation, bidder shall do all necessary adjustments required to ensure the performance as per the acceptable level.
- 6) After completion of the work a joint inspection report is to be submitted with duly signed by bidder and Technical Committee Member (s)/ ME (Elect) of the Institute.
- 7) In case, guaranteed performance is not established, the bidder shall be given the opportunity to rectify/replace the items of the DG Sets, and restart the 3 days continuous trial operation, at the risk and cost of the bidder.

Noise, Emission & Smoke limits: As per latest Amendment of Environment (Protection) Act 1986 (as laid down by Min. of Environment & Forests).

Noise level: Less than or equal to 75 db (A) at a distance of 1M from of Acoustic Enclosure as per CPCB Norms

Foundation for DG set

1. Engine and Alternator shall be mounted on a common bed plate (more than 5mm thickness) 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 (AVM) system/ vibration isolators..
2. A RCC foundation platform (M-20 grade) of weight 2.5 times of the operating weight of DG set (Engine and Alternator) having depth of the foundation of 600 mm i.e. 300 mm below ground level and 300 mm above the ground level so as to provide levelled surface for placement of the DG. The size (L x W) of the foundation should not be less than 5500 x 2000 mm respectively.
3. The length and breadth of the foundation shall be 300 mm more from the respective length and breadth of the DG set.
4. The platform levels to be checked diagonally as well as across the length for even flatness.
5. The platform shall be within +/-0.5 degree (angle) of any horizontal plane.
6. The bidder shall submit the drawings for approval before proceeding with the work

Shed with GI wire net fencing for DG Set

1. Angular truss made in GI with asbestos roofing including all required accessories as required.
2. There should be a GI barbed wire-fencing of 6ft from the plinth of DG Set which shall be sandwiched between GI angles of 40 x 40 x 6 mm size and GI flat 40 x 6 mm size at each corner and other suitable positions enclosing the DG Sets. The GI mesh to be used in fencing should be approved by the college.
3. The enclosure shall be provided with suitable size of hinged type doors made from GI barbed wire with heavy duty locks along the length of the enclosure on each side. Sufficient space will be provided inside the enclosure on all sides of the DG set for inspection, easy maintenance and repairs.
4. The enclosure shall be designed and manufactured conforming 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 m from the enclosure as per CPCB norms

Drawings for approval on Award of the work: The bidder shall prepare and submit three sets of following drawings and get them approved from P MEC before the start of the work. The approval of drawings however does not absolve the bidder not to supply the equipment/materials as per the agreement, if there is any contradiction between the approved drawings and agreement.

- a. Layout drawings of the equipment to be installed including control cables, fuel/ lube oil pipes and supports/structure for housing DG Set and bus ducts/cable trays.
- b. Drawings including section, showing the details of erection of entire equipment.
- c. 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.
- d. Dimensioned drawings of Acoustic enclosure/engine alternator set and electrical control panel.
- e. Drawings showing details of supports for pipes, chimney cable trays, ducts etc.

Drawings to be furnished on completion of installation

Two sets of the following laminated drawings shall be submitted by the bidder while handing over the installation to P MEC. One set shall be laminated on the hard base for display in the DG set room/room where AMF panel is installed and another set shall be kept with P MEC. In addition drawings shall be given in Pen Drive.

- a. DG set installation drawings giving complete details of all the equipment, including the foundations.
- b. Line diagram and layout of all electrical control/AMF panels giving switchgear ratings and there 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 AMF 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.

The design, drawings and the complete panel need to be approved from the local electrical inspectorate.

One set of operating manuals and two sets of control circuit drawing of panel in laminated form out of which one will be made available in the generator room near the AMF panel

and other for the record purpose shall be provided.

Spares and Tools: The bidder shall submit the list of standard tools & plants and spares to be supplied along with the generating set (without any extra cost).

Mandatory Requirements:

Wiring Diagrams: Wiring diagrams for diesel engine driven generator units showing connections to electrical power panels, feeders, and ancillary equipment to be submitted. Differentiate between portions of wiring that are manufacturer installed and portions that are field installed.

Certifications: Diesel engine driven generator sets certified test record of the final production testing to be provided for Safety shutdown device testing and Voltage regulation.

Battery Charger: The battery charger shall be readily accessible and designed that it shall not be damaged and shall not trip its circuit protective device during engine cranking or it shall be automatically disconnected from battery during cranking period. The charger shall be mounted inside the emergency generator enclosure. The charger shall have a 7-day/24-hour timer control.

Fault Indicators: Individual press to test fault indicator lights for low oil pressure, high water temperature, low water level, over speed, over crank, and for aboveground storage tank and high and low fuel level shall be provided.

Circuit Breaker: A generator circuit breaker of suitable capacity shall be installed as a manual load circuit interrupter and an automatic overload and short circuit protection device should be used to interrupt load circuit.

Scope of works during CAMC: The scope of work shall include the following:

- 1) Routine servicing/ troubleshooting/ setting/ adjustments/ cleaning/ lubrication/ checking etc.to ensure smooth and trouble-free working of the D G Set.
- 2) All manufacturers preventive maintenance schedules/ replacement of periodic consumable like oil / oil filter / fuel filter etc. including checking of safety devices, etc. shall be strictly followed as per the manufacturer's periodicity or as required in addition to the scope of maintenance indicated above.
- 3) The scope of maintenance in addition to periodic maintenance will also include attending to /any number of breakdown calls.
- 4) In-case any of the equipment is to be taken out for repairs to firm's workshop a standby equipment of same/higher configuration shall be provided by the firm.

- 5) The comprehensive maintenance should include corrective maintenance i.e. repair/replacement of spares etc. It can be extended depending on performance satisfaction.
- 6) Penalty: If the firm fails to provide the maintenance services for more than 48 hours, penalty equal to charges for the period for which services has not been provided, may be imposed and deducted from the next bill.

Annexure-I
OEM Authorization Letter

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

To
The Principal,
Parala Maharaja Engineering College,
Sitalapalli, Berhampur, Ganjam-761003

Subject : Direct Manufacturers Authorization

Ref : Tender No:

Name of Work: Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest versions, 3 phase with AMF panel along with foundations, enclosures & other accessories in Academic and Library Building at PMEC Berhampur.

Dear Sir,

We, an established and reputed manufacturer of Diesel Generator having Corporate/Registered office at(address of OEM) do hereby authorize (name of bidder) and having their office at (bidder's address) as our representative to submit the above bid _____dt_____ and subsequently negotiate and sign the contract with you for the supply of DG Set manufactured by us and authorize the said firm to act on our behalf in fulfilling to supply, install, test, commission & train and provide all technical support & maintenance obligation as required by the contract.

We also hereby undertake to provide Standard Performance Warranty and Comprehensive Annual Maintenance Contract as agreed by the bidder in the event, the bidder is changed or the bidder fails to provide satisfactory after-sales and service during such period of Standard Warranty/ Comprehensive Annual Maintenance Contract and to supply all the spares/accessories/ consumables/ material/software upgrades/ labour etc. during the said period through the appointed bidder by PMEC Berhampur.

We also hereby declare that we have the capacity to manufacture and supply the quantity of the equipment tendered within the stipulated time, and provide service to install, and commission through the bidder

We also compiled the technical particulars data sheet attached with the authorized signature and company seal.

Yours faithfully,
for

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

Annexure- II
(On the letter head of the Firm)
Information Sheet of the bidders

SN	Description	To be filled-in by the supplier/bidder
1	Bidder is an OEM or Authorized Dealer	
2	Name with Full Postal Address, phone No./e-mail of bidder	
3.	(i) If the Bidder is an OEM, he has to submit copy of Industry Registration of offered products and Tax Registration Certificate issued from competent authority. (ii) If the bidder is an Authorized Dealer, he has to submit OEM's authorization letter, in original, on the OEM's letter head duly signed by authorized signatory.	
4	Contact Person (s) details with Phone No/Mobile No authorized during the tender Opening	
5	Details of Service Centre/Contact Person a) Full Postal Address of Service Centre in Bhubaneswar/Berhampur Only b) Full Postal Address of Contact Person with phone No./FAX/e-mail	
6	Copies of IT return of last three years	
7	Copy of balance sheet of last three years duly audited and certified by Chartered Accountant.	
8	Copy of annual turn over statement certified by a CA.	
9	PAN No & TIN No of the OEM/ Authorized Dealer (Attach copy)	
10	GST registration details and up-to date filed return (Attach copy)	
11	BIS/ISO certification	
12	Details of DD towards the cost of tender documents Issuing Bank: Branch Name: Branch Code: DD No: Date of Issue: Payable at: Date of Expiry:	
13	Details of DD towards EMD Issuing Bank: Branch Name: Branch Code: DD No: Date of Issue: Payable at: Date of Expiry:	
14	Undertaking to provide operational training for DG Sets System to one Official at Consignee site at least for 3 days.	
15	Undertaking to provide all after-sales support and comprehensive annual maintenance support.	

DECLARATION: We hereby certify that the information furnished above is full and correct to the best of our knowledge. We understand that in case any deviation is found in the above statement at any stage, the tender is liable to be rejected.

Annexure - III
(On the letter head of the Firm)
Undertaking by the Bidder for unconditional acceptance of terms & conditions

To
The Principal,
Parala Maharaja Engineering College,
Sitalapalli, Berhampur, Ganjam-761003.

Subject: Tender documents for Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest version, 3 phase with AMF panel along with foundations, enclosures & other accessories in Academic and Library Building at P MEC Berhampur..

Dear Sir,

We have carefully examined and gone through the full content of the tender documents and have visited the installation site of the works and have acquired the requisite information affecting the tender. We hereby offer to quote and execute the works by the guidelines, terms and condition laid down in tender documents and accept **unconditionally** all the terms and condition laid down in the tender call documents published in the website.

We warrant that the goods to be supplied under this contract as per complete technical specification laid in the tender call notice are new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials and all the services configured shall trouble free function. In case of non-observance of any of the guidelines, terms and conditions mentioned in this tender document by us, we understand that our tender/work order (as the case) may be cancelled.

We further undertake that none of the Proprietor/Partners/Directors of the Agency was or is Proprietor or Partner or Director of any Agency with whom the Government of Odisha have banned /suspended business dealings. I/We further undertake to report to you immediately after we are informed but in any case not later 15 days, if any Agency in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such a Agency which is banned/suspended in future during the currency of the Contract with you.

The information / documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

We understand that you reserve the right to accept or reject any or all the tender either in full or in part without assigning any reason thereof.

We hereby agree to supply, install, test and commission of 2 x 250 kVA DG Sets abiding by all terms and conditions of the tender document if we are offered to execute the work and in default thereof, to forfeit and pay to you such sums of money as are stipulated in the conditions contained in the tender together with the written acceptance of the work order.

Seal with Full Signature of Bidder

Place:

Date:

Annexure-IV
(On the letter head of the Firm)
List of clients

(To whom works of similar scope have been completed in the last 3 years.)

S N	Details	Details of Client (1)	Details of Client (2)	Details of Client (3)
1	Project name, location and address			
2	Name, Address and telephone numbers			
3	Brief description of the work			
4	Contract No. /copy of work order (Enclose copy)			
5	Value of Contract as completed (Rs. in Lakhs)/Payment Certificate			
6	Date of issue of work order			
7	Stipulated period of completion			
8	Actual date of completion of work			
9	Work Completion Certificate			

(Add more columns in case of more than 3 clients)

Annexure-V (A)
Technical Specifications for DG Set

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/instructions shall be followed.

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

Note 3. Engine, Alternator, battery and controller should be of same or different make.

Technical Requirement in Brief

TECHNICAL SPECIFICATION		
Generator Prime Rating at rated rpm (as per ISO-8528)	kVA	250
	kW	200
Governing Class (As per ISO 8528 Part-V)		G3
Noise Level @ 1 mtr	dBa	as per CPCB IV+ Norms
Fuel Consumption @ 100% load	L/hr	Not more than 57 Ltrs/hr (180-200gram/BHP ay 75% Load)
Fuel Tank Capacity	Ltrs	Minimum 400 ltrs
Weight of genset with canopy	kg	Not more than 4200 kg
150 Amh or higher Electrical Battery	Volts-DC	2 x 12
ENGINE		
Rated output (Prime Continuous rating as per ISO 8528-1)	kW	Minimum 200 kW
	HP	Minimum 310 BHP
Engine must be as per CPCB-IV+ Norms		
Cooling System (mandatory)		Liquid Cooled with CRDI Fuel system
No. of Cylinder (Mandatory)	Number	6
Cubic Capacity (Minimum)	Ltrs	Minimum 9.0 ltrs
SFC	g/kWh	Less than 212 g/kWh
Bore x Stroke	mm	118 x 135
Rated Speed	RPM	1500
Fuel System		HSD
Aspiration	TA	Turbo Charged After Cooled
Lube Oil sump capacity	Ltrs	Minimum 27 ltrs
Coolant Capacity	Ltrs	Minimum 35 ltrs
DEF Capacity	Ltrs	Minimum 45 ltrs
ALTERNATOR: Self-excited, screen protected, self-regulated, brush less alternator, horizontal foot mounted in single bearing construction with following specifications.		
Type		Brushless, Self excited
Rated Power factor	Lagging	0.80
Rated Voltage	V	415 (3Ø)
Rated Frequency	Hz	50
Ventilation		Self ventilated, air cooled

Voltage regulation	%	Within +/- 1% of rated voltage from no load to Full load
Voltage variation	%	Within +/- 4% from no load to full load
Over load duration / capacity	%	10% in excess of rated KVA for a period of 1 hour in any period of 12 hours continuous running operation
Frequency variation	%	+/-1% (As defined by engine governor)
Insulation Class		Class H
Temperature rise		Within limits of class H insulation
Protection		IP -42
Type of AVR		Solid state Electronic type
Alternator Efficiency (at 100 % load) 0.8 pf	%	Not less than 93.5%
Max Voltage Dip at Full Load 0.8 pf Lag	sec	≤ 20%
Max Time to build up rated voltage at rated RPM		< 5 sec provided engine reach the rated speed
PANEL		
Panel Type		*AMF Panel with required switches/cutouts, Contactor and SMPS based battery charger
IP protection		IP – 65-IK-09-Class 2panel (certificate to be furnished along with Bid) The panel shall conform to EN-60439-3.

***Auto Mains Failure (AMF) Panel:** The AMF Panel should have microprocessor-based monitoring, metering and control system with LCD display. AMF Panel will be fabricated out of 1.6mm CRCA sheet totally enclosed, dust, damp and vermin proof with IP-42. The same shall be equipped with following: 1 no MCCB, 1 no Electronic kWh meter, 1 No electronic PF meter, 1 No electronic frequency meter, 1 No electronic earth fault relay, 1 no MCB of suitable rating for potential circuit, 3 nos Resin Cast CTs of required ratio and class-1, 10 VA for metering, 3 nos LED type indication lamps for RYB indications , Push button for manual start and stop, Air break contactor of adequate rating , 1 No battery charger with all instruments and protection to charge the starting battery from external source and the Microprocessor (PLC) based system module to read all the engine conditions 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 AMF logic to sense Mains supply and give command to start and stop the engine with time delay and auto manual switch

Annexure-V (B)
List of Approved Makes

SN	Equipment	Make
1	Engine	Cummins/Jacksons/Kirloskar/Greaves/Caterpillar / Valvo/ Mahindra /Ashok Ley Land/Escorts/Eicher/ Generics make oil engines or equivalent make of repute
2.	Alternator	Kirloskar Electric/Crompton Greaves/Stamford/ NGEF/Valvo or equivalent make of repute
3.	L.T Switchgear	L&T / Siemens/ M.G make or equivalent make of repute
4.	Cable	CCI/Gloster/NICCO/Tyco/Poly cab/Finolex or equivalent make of repute
5.	Cable gland	Comet/Braco or equivalent make of repute
6.	Cable lugs	Siemens/Dowell or equivalent make of repute
7.	MCC Band Power contactors	L&T/ABB/Siemens/Crompton/Alstom or equivalent make of repute
8.	Energy meter	L&T/Siemens/Jaipur/Havel's or equivalent make of repute
9.	Voltmeter/Ammeter	AE/Meco or equivalent make of repute
10.	CTs	Kappa/Pragati/ECS or equivalent make of repute
11	Battery	Exide/Panasonic/Standard Furu khawa/Amaron or equivalent make of repute
12	MCB/ MCB DB/ MCCB	Legrand/L&T/ABB or equivalent make of repute
13	LED indication lamps	L&T/Siemens/Technique or equivalent make of repute
14	Power cables	Polycab/CCI/GEMSCAB or equivalent make of repute
15	PVC insulated copper wire	Legrand/L&T/ Siemens or equivalent make of repute

The Bidder may please tick mark (√) on the make they propose to offer among the above list. Bidder should mention the make, model and technical specification of each item to be supplied in the technical bid. Bidder quoted for substandard products will not be considered and the offered bids are liable for rejection.

Annexure-VI
Technical Particulars of Diesel Engine and Alternator
(To be furnished by the bidder on OEM's Letter Head)

SN	Description	Bidder's offer (Enclose manufactures catalogue / brochure for each item)
1.	DG Set complete unit	
	KVA Rating @ 0.8 Power Factor	
	Control Panel (Manual/Automatic)	
	Size - Length × Width × Height (mm)	
	Fuel Tank Capacity (ltrs)	
	Weight (Kg)	
	Radiator capacity	
	Specific Fuel Consumption (SFC) in g/kWh	
	Ambient Temperature	
2.	Engine	
	Make	
	Model	
	Gross Power 100% (100%) hp	
	Type (Stroke)	
	Rated Output (HP)	
	Rated RPM	
	Cooling (liquid cooled/Air cooled)	
	Cylinders- Bore × Stroke	
	Turbocharger (type)	
	Type of Governor	
	Fuel consumption at full load/hour	
	Fuel consumption at 75% load/hour	
	Type of silencer	
3.	Alternator	
	Make	
	Model	
	Rated Frequency (HZ)	
	Rated Voltage (V)	
	No. of Phases (Electrical)	
	Rated Speed	
	a) No load	
	b) Rated load	
	Phase sequence (Viewed from driving end)	
	Power Factor	
	Rated output (kVA)	
	Rated Current (Amp)	
	Direction of rotation	
	Excitation System	
	Duty type	

	Class of insulation for winding	
	Temperature rise	
	Efficiency at rated voltage and frequency and 0.8pf	
	a) In full load	
	b) 1/3 load	
	c) 1/4 load	
	Short circuit rating (Peak)	
	Over speed limit	
	Limits of vibration	
	Types of enclosure	
	Cooling system	
	Variation in	
	a) Voltage	
	b) Frequency	
	Overload withstand capacity	
	a) Momentary	
	b) Intermittent	
	c) Sustained	
	Whether brushless or not	
	Motor starting ability(Current/duration)	
4.	Batteries	
	Make	
	Battery Capacity (AH)	
	Battery Rated DC Voltage	
	Whether stand included or not	
5.	Coupling	
	Type	
	Whether guard provided or not	
	Whether base plate is included or not	
6.	List of tools normally supplied with the engine & alternator, free of cost	List to be enclosed separately
7.	List of spares normally supplied along with the engine & alternator, free of cost.	List to be enclosed separately

Annexure-VII
Bank Guarantee for Performance Security

To

**The Principal,
Parala Maharaja Engineering College,
Sitalapalli, Berhampur, Ganjam-761003**

WHEREAS (name and address of the bidder) (herein after called “the bidder”) has undertaken, in pursuance of workorder no..... dated to supply (description of goods and services.

AND WHEREAS it has been stipulated by you in the said work order that the bidder shall furnish you with a bank guarantee by a scheduled nationalized bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the work order;

AND WHEREAS we have agreed to give the bidder such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the bidder, up to a total of Rs.....(amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the bidders to be in default under the work and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the bidders before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the work to be performed there under or of any of the work order which may be made between you and the bidders shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the day of, 20.....

(Signature of the authorized officer of the Bank)

.....

Name and designation of the officer

.....

Seal, Name & Address of the Bank and address of the Branch

Annexure - VIII
Comprehensive Annual Maintenance Contract (CAMC) Agreement

THIS AGREEMENT made the.....day of, 20___ between the “**The Principal, Parala Maharaja Engineering College, Berhampur**” (hereinafter "the Purchaser") of the one part and M/s..... (hereinafter called "the Supplier") of the other part:

WHEREAS the Purchaser invited bids for Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest versions, 3 phase with AMF panel along with foundations, enclosures & other accessories in Academic and Library Building at PMEC Berhampur including Comprehensive Annual Maintenance Services and has accepted a bid by the Supplier for the DG Sets at the Consignee site including Comprehensive Warranty Maintenance Services for a period of 3 Years after two years of standard warranty period from the date of installation & commissioning of the instruments & equipment as per award of Work Order No..... dated.....

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. Maintenance Services shall consist of Preventive and Corrective maintenance of equipment specified above & will include repair and replacement of parts free of cost.
2. Preventive maintenance, monthly once, which includes:
 - 2.1 Check-up to ensure that device connection is proper, cabling is at proper condition etc.
 - 2.2 Cleaning of the above instruments & equipments and checking the System Performance.
3. The Supplier is to furnish the tentative schedule of the preventive maintenance of DG Sets to be carried out.
4. The parts replaced must be new parts or equivalent in performance to new parts.
5. The Supplier will also provide the same maintenance service in case of the movement of equipment from the place of original installation to a different place or location, if the equipment is shifted by the Purchaser to another place or location at the cost and risk of the purchaser.
6. Any complaint informed through telephone must be acknowledged with a Complaint No. by the Supplier which will be noted by Consignee. All further contact with the Supplier on such complaint will be initiated through that Complaint No. Once

rectification done that No. will be cancelled by both parties. A register is to be maintained by the Supplier where complaints are to be noted along with Complaint No.

7. The maintenance shall normally be done during working hours of the customer.
8. The Service Engineer of the Supplier will be allowed to handle the respective plant & machineries only in presence of the officer in charge at the Consignee site.
9. The Supplier should ensure that maintenance job is not hampered/delayed due to paucity of spares/inadequate manpower etc.
10. The Supplier should submit the services call report, to the Consignee for each and every service call without fail.
11. In case of delay/lack of communication, down time will be calculated as mentioned below in CAMC Clause.

Comprehensive Warranty Maintenance Contract Clause

Normal response time for repair is 24 hours from the actual time of reporting of the problem to the supplier .

	Period	Extension of CAMC period
Response Time	Above 24 hrs & below 48 hrs	2 days for each day of delay
	Above 48 hrs & below 96 hrs	1 week for each day of delay
	Above 96 hrs	2 weeks for each day of delay
Down Time	Above 24 hrs & below 48 hrs	2 days for each day of delay
	Above 48 hrs & below 96 hrs	1 week for each day of delay
	Above 96 hrs	2 weeks for each day of delay

12. The Supplier evaluation data format for the CAMC of Consignee systems may be filled up for necessary action.
13. All formats after filled up should be signed at the end of each page by the Supplier.
14. After completion of the work/repair/maintenance, the Purchaser shall issue a certificate of completion to the supplier to that effect.

Signature
For the Purchaser
Name:
Designation:
Address:
Telephone No:

Signature
For the Supplier
Name:
Designation:
Address:
Telephone No:

PART II (PRICE BID)

Annexure-IX (A)
(On the letter head of the Firm)
Financial Bid/Price Bid Undertaking

Dear Sir,

1. I/we,..... submitted the financial bid for Tender No.....dated.....for “ Supply, Installation, Testing and Commissioning of 02 (two) numbers of 250 kVA Silent Diesel Generator Sets of latest version, 3 phase with AMF panel along with foundations, enclosures & other accessories in Academic and Library Building at PMEC Berhampur.
2. I/we thoroughly examined and understood instruction to tenders, scope of work, terms & condition given in the tender document and agree to abide by them.
3. I/We hereby offer to execute the jobs at the following rates.
4. I/We, undertake that I/we are not entitled to claim any enhancement of rates on any account during the tenure of the complete the work.

Description	Qty	Unit/Set Price in Rs.	Amount in Rs.	Taxes in Rs.	Total amount in Rs. (a+b)
			a	b	
Supply, installation, testing and commissioning of Silent, Smokeless 250 kVA DG Set of latest version, 415 Volts AC, 3-Phase, minimum 310BHP or more, at 1500 RPM, coupled with Alternator mounted on a common base plate with logical AMF control panel of latest version with fuel tank, Battery & Lids, Residential Silencer, First Fill of Lube Oil, AVM Pad, Acoustic Enclosure, Controller of advanced version, including RCC foundation of 600mm thick, with power cable 3.5 core Al. armored cable x 300sqmm, three runs per each GenSet of required length, control cabling 6sqmm 12 core (as required), 4nos of plate/chemical earthing with cover and transporting, unloading and shifting of DG Sets on foundation with other accessories inclusive of all taxes complete in all respects upto the satisfaction of the purchaser. The engine should comply with CPCB IV+ Emission Standards. The other works also include the followings; (i) End termination of 3.5 Core Al. armored cable 300 sq mm with double compression Gland and thimbles (ii) Clearance from Various department (iii) Commissioning DG sets at site up to satisfactory & trouble-free operation and handing over the DG sets to the College.	02 Sets				
Total					
(Rupees)					

- Note:** 1. Above rates shall include GST, all applicable taxes, fees, duties, levies, transportation charges, insurance charges, installation charges, material charges, labour charges and all other charges required for the successful completion of work. Any increase in rate during the execution of project shall not be entertained.
2. Price Bid shall not contain any condition whatsoever and any conditional bids shall be rejected.

Name & Sign of Bidder along with address:

Annexure- IX (B)
(On the letter head of the Firm)
Price Schedule for Comprehensive Annual Maintenance Contract
After Completion of 2-Ys Warranty Period

Item Description	3rd Yr	4th Yr	5 th Yr	*Total CAMC over a period of three years (E=B+C+D)
A	B	C	D	E
CAMC Charges include all hardware/spares/parts/equipment /accessories/ consumables and maintenance for routine servicing/ troubleshooting/ setting/ adjustments/ cleaning/ lubrication/checking etc. to ensure smooth and trouble-free working of the DG Sets of the supplied items				

Scope of CAMC (Details as mentioned in the Terms & Condition of Contract)

- a) The price should be inclusive of GST, all applicable taxes, fees, duties, levies, transportation charges, insurance charges, installation charges, material charges, labour charges and all other charges required for the successful completion of work.
- b) The rate of Comprehensive Annual Maintenance Contract as mentioned above should cover the Complete System with all supporting components
- c) Preventive maintenance visit: Monthly Maintenance visits at regular interval for routine servicing/ troubleshooting/ setting/ adjustments/ cleaning/ lubrication/checking etc. to ensure smooth and trouble-free working of the DG Sets failing which 25% of the contract amount per visit would be deducted as penalty.
- d) Break down maintenance visit: As & when required
- e) Response Time: Within 24 Hours
- f) Uptime Guarantee: 95% of 365 days
- g) If any spares / consumables / accessories etc. are not covered under above-mentioned charges; it should be clearly mentioned with frequency of replacement and with rate. The validity of rate of such items should also be mentioned clearly. The rate of escalation on the quoted rate after expiry of the validity of rate of such item must be mentioned.
- h) Payment of Comprehensive Annual Maintenance Contract would be made on half yearly basis after completion of work and satisfactory working report. In no case, advance payment is to be considered.

Place:

Date:

Signature of Bidder
Seal of the Bidder