



Estd. – 2009
A Government Engineering College
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 Wi-Fi Network in College Campus at PMEC, Berhampur.

TCN No. PMEC/Estt/2367 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 Tender Document: 24.12.2024
on the website

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

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

Date & Time of Opening of Technical bid : 30.01.2025 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 52. It should not be reused, copied, or used either partially or fully in any form. The information provided by the bidders in response to this quotation document will become the property of PMEC, Berhampur and will not be returned.

Seal and Full Signature of the Bidder

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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.

P. S. Saha
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.

P. S. Saha
20.12.2024
Principal
P MEC, Berhampur
Parala Maharaja Engineering College
Berhampur

Seal and Full Signature of the Bidder

PARALA MAHARAJA ENGINEERING COLLEGE

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

TCN No. PMEC/Estt./2367

Date: 20/12/2024

NOTICE INVITING TENDER

The Principal, Parala Maharaja Engineering College Berhampur invites sealed bids from reputed Original Equipment Manufacturers (OEMs) /Authorized Dealers for Supply, Installation, Training and Commissioning of Wi-Fi Network in College Campus at PMEC, 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: **30.01.2025 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 9658262014/9438801526 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 (PMEC)

Sitalapalli, PO: Tanglapalli, Berhampur-761003, Ganjam, Odisha, India.

(l) Address for communication:

The Principal

PARALA MAHARAJA ENGINEERING COLLEGE (PMEC)

Sitalapalli, PO: Tanglapalli, Berhampur-761003, Ganjam, Odisha, India.

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

Sd/-
Principal

Seal and Full Signature of the Bidder

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 the technical bid in the sequence listed below, to avoid rejection or disqualification of the tender. The bidder should meet the following criteria;
- a) The Bidder should be OEM (Original Equipment Manufacturer) or Authorized system Integrator/ Authorized Dealer of the OEM of the offered product. OEM has to submit up-to-date copy of the Industry Registration of offered products and Tax Registration Certificate issued by the competent authority. The Authorized Dealer/System Integrator has to submit OEM's authorization letter, in original, on the OEM's letterhead duly ink-signed by the authorized signatory.
 - b) Original Equipment Manufacturer/Authorized system Integrator/Authorized Dealer for Campus Wireless LAN (Wi-Fi) System shall have a base with technical support function and service network across India. The Bidders has to submit 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.
 - c) The bidder shall submit a certificate (self-certified on Firm's letter head) that the firm has not been blacklisted by any institution of the State/ Central Government in the past.
 - d) The bidders should have sufficient experience on campus Networking and/or Supply, Installation, Testing, Training and commissioning of the Wi-Fi networking in NITs/IITs/reputed Research Laboratories/Government Institutions within India. Necessary supporting documents like work orders, work completion certificates, payment certificates etc. for the last three years to this effect must be submitted along with the offer.
 - e) The bidder should be a registered company making a profit for the last three years, having a good business track record. The average annual turnover of the company should be more than Rs. Two crores in the last three financial years.
 - f) The bidder should be a registered firm in India, having valid GST/PAN/TIN/Service Tax etc.
 - g) Bidder should have BIS certification for quoted Wi-Fi System and its accessories.
 - h) All after-sales support should be provided by OEM through the bidder.

Seal and Full Signature of the Bidder

- i) The bidder should provide 5-years Standard Warranty for all hardware (equipment/spares/accessories/any item etc) supplied for complete Wireless LAN System and 1-year Standard Warranty for free technical support and maintenance obligation. After expiry of 1-year free maintenance obligation, the bidder must have willingness to provide maintenance service for next 4-years under Comprehensive Annual Maintenance Contract (CAMC) for new network system.
- j) The bidder may send their queries related to the tender in procurement@pmec.ac.in at least four days before the last date of submission of tender documents.
2. The Bidders may visit the college, at their own expense, 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 document must be filled in completely and 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).

Seal and Full Signature of the Bidder

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-I**)
- c) Profile of the organization along with list of personnel including skills and competence in organization.
- d) Unconditional acceptance letter of undertaking for the terms and conditions of this tender documents in the prescribed format (**Annexure-II**)
- e) Self-attested copy of up-to-date IT PAN of the firm, VAT registration, VAT clearance and service tax and GST registration certificate etc., issued by appropriate government authority for the required services with sale.
- f) Financial Status: The average annual turnover of the firm should be more than Two crores in last three financial years. Copies of profit & loss account and balance sheet duly authenticated by a chartered accountant for the last three years.

Seal and Full Signature of the Bidder

- g) Copy of Income Tax return acknowledgement for last three years.
- h) Bidders should submit copy of up-to-date valid certificate of OEM/Business partner/ Authorized system Integrator/Partner for Wi-Fi, Active & Passive Components. Tender Specific authorized Letter from OEM's must be submitted.
- i) Bidder should submit a declaration letter on OEM letter head duly signed and stamped, declaring that the supplied products are of five years warranty.
- j) List of user's clients related to experience of execution of similar work in central/ state Govt departments, PSU's, Autonomous bodies, Large Industrial, Educational campus, where similar services (supply and installation of Campus Wireless LAN equipment's) are provided by the agency for the clients along with address and telephone nos with 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 (**Annexure-III**)
- k) The bidders must enclose a self-declaration that he has never been black listed 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.
- l) Two self-attested envelopes of size 11" x 5" (or above) with complete address with pin and contact no written for future correspondence.
- m) Two self-addressed slips of size 6" x 3" (or above) with complete address with pin and contact no. written for future correspondence.
- n) Technical compliance form for the technical Specification of items with make & model must be filled up properly without any ambiguity as per **Annexure-IV** failing which the tender paper shall be rejected. The bidder has to furnish one make & one model of each item looking into the compatibility of the system. The bid shall be rejected quoting more than one make/model.
- o) Detailed literature along with make, model, topology, design, data sheet, pamphlets/catalogue and performance curves as applicable. The bidder has to submit a schematic diagram/drawing of network system.
- p) Other Annexure duly filled-in and signed with official seal
- q) Any other document in support of the eligibility of the bidder.

Seal and Full Signature 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 Wi-Fi Network in College Campus at P MEC, Berhampur as per technical specification and scope of work in Indian Rupees only in the **Annexure- VIII (A)**.
- b) Charges for CAMC of Wi-Fi Network in College Campus at P MEC, Berhampur in the **Annexure- VIII (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 super scribing on the covers "**Part I – Technical bid for Wi-Fi Network System**" and "**Part II – Price Bid for Wi-Fi Network System**" 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, Sitalapali, Berhampur, Ganjam-761003.

*Envelopes 1 & 2 should be submitted in a 3rd big envelope super-scribing "**SITC of Wi-Fi Network in College Campus at P MEC, Berhampur**" and addressed to "The Principal, Parala Maharaja Engineering College, Sitalapali, Berhampur, Ganjam-761003.*

- 13.** The tender is liable to be cancelled, 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 the bidder withdrawing his offer before/after finalization of this selection process. Bid without the required EMD amount will be summarily rejected.
- 14.** Bid shall remain valid for 120 days after the date of bid opening. The bid valid for a shorter period shall be rejected by the Institute as non-responsive. In exceptional circumstances, 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 the 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

Seal and Full Signature of the Bidder

without any change in unit price of the ordered quantity and to exclude specific goods listed in the schedule of requirements from the order.

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 its discretion, extend the date and time for submission of tenders.

22. Technical Evaluation of Bids

- a) Detailed technical evaluation shall be carried out by the Technical Evaluation Committee pursuant to conditions in the tender documents to determine the responsiveness of each tender. For this clause, the substantially responsive bid is one that confirms 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.

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- 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 the 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 of only those bidders who have been found to be technically eligible as enumerated earlier. The financial bids shall be opened in the presence of representatives of technically eligible bidders, who may like to be present. The Institute shall inform the date, place, and time for the opening of the financial bid.
- b) The rates must be quoted as per the format prescribed. The quoted price must be inclusive of all taxes including GST, freight, packing, forwarding, transit insurance etc. and must be shown clearly against each entity for delivery at the site. The installation, commissioning, demonstration and training shall be at the supplier's cost.
- c) Bidder shall quote the rate price of all taxes and other costs 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 a 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 a discrepancy between words and figures, the lesser amount shall be considered valid. If the supplier does not accept the correction of the errors, his bid shall be rejected.
- e) Quoting the minimum rate just for acquiring the tenders will not be the only criteria for the 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 CAMC for a period of 4 years. 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 price**, but not necessarily the **lowest submitted price (Price**

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quoted in Annexure VIIIA + Price quoted in Annexure VIIIB), which should be recommended for award.

- g) The P MEC, 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 P MEC, Berhampur reserves the right to reject any or all offers received in response to the tender or cancel or withdraw the tender 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 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

- a) The institute shall consider the 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 the price quoted by any bidder.
- b) The evaluated lowest bidder will be awarded the work order to execute the work. Since the Institute has to ensure the seamless integration of the Wi-Fi Network with campus surveillance (CCTV) system & existing network infrastructure for resource optimization, the bidder should submit a logical execution report with its diagram (Pre-network design document) for approval of the technical committee/ Professor In Charge (PIC). After due approval of report, the work order shall be issued.

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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.

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 Wi-Fi Network System on premises as per the specification along with other terms and conditions stipulated in the work order and certified by PIC (CIF). The balance 10% will be released after 60 days of satisfactory on-site performance from the final date of installation and commissioning of all hardware against the Bank Guarantee of 5% of the 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

The bidder will provide Standard Warranty/guarantee for all hardware (equipment /spares/accessories etc) and software for complete Wi-Fi network System for five years. However, if any individual component has standard warranty more than five years offered by manufacturers, the same will prevail.

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The bidder shall provide onsite support/ free maintenance/services for first year only. Further, after one year of standard warranty for free maintenance, the bidder should be able to provide free maintenance/services through CAMC for remaining 4 years for complete Wi-Fi Network System and the cost of which should be quoted separately for 4 years. It is the bidder's responsibility to handle all maintenance tasks, whether minor or major, and to have adequate standby equipment on hand to ensure the system remains functional within 24 hours of any disruption.

- 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 has 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 of 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/break downs 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 warranty period. 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

Seal and Full Signature of the Bidder

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 break down/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 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 any 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.
- 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.

Seal and Full Signature of the Bidder

- 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

29. Comprehensive Annual Maintenance Contract: (CAMC)

- a) The decision to enter into CAMC for onsite support/services will be determined on the basis of cost and complexity of the equipment by the Institute, at its discretion, prior to the expiration of warranty period for onsite support.
- b) The Comprehensive Annual Maintenance Contract (CAMC) is otherwise an extended warranty that covers the repair & maintenance of a product beyond one year standard warranty. The charges for CAMC shall include on-site support/repair & maintenance/ routine check-up charges only (cost of all equipment/spares covered under standard warranty). All the terms and conditions agreed by the successful Bidder for executing 1-year Standard Warranty for free shall be extended for next 4-years during the period of CAMC, only difference being the payment of CAMC charges for maintenance services is absent during the period of initial 1-year standard warranty.

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- c) The cost of CAMC 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 expiration 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 of payment after satisfactory completion of said period, on receipt of service report/ break down 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 has 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 for a period of initial 1 year shall also be taken into consideration. Accordingly, it is mandatory for the bidders to submit the rate for Comprehensive Annual Maintenance Contract for maintenance for a minimum period of 4 years.

30. Demonstration of Technical expertise: The firm/OEM/Bidder/ Agency will be required to demonstrate the technical capabilities of the entire network and functioning

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of each installed equipment at the place and time determined by the institute. at their own expenses.

31. 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 the delivery of goods in perfect condition 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 the manufacture or acquisition, transportation, storage & delivery of the goods from the 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, software etc., and the repair/replacement of the original equipment should be done within 24 hours. The bidders must include 5 years of 24×7 hardware & software support, threat

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intelligence subscription and any other annual fee required as part of the bidder's solution.

- 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 Institute 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 the 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.

32. 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 firm in due course. The Institute rules shall be binding for execution of the contract. Further, in case of any dispute arising out of or in connection with the aforesaid contract either during subsistence of the contract 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.

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

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SCOPE OF WORK

The scope of the work is to provide Turnkey Solution that includes but should cover Supply, Installation, Implementation, Commissioning, Training, providing a user manual, providing 60 months Warranty for the total solution including all hardware, software, materials, services, and support etc. Which should provide Wi-Fi Network System for the P MEC Berhampur campus.

1. Overview and Ensuring Solution of Wi-Fi Network System:

- a) P MEC, Berhampur has a well-developed Wired LAN setup with servers and internet bandwidth.
- b) It is planned to setup wireless network for entire building of P MEC, Hostels and Library which should be seamlessly integrated with the existing wireless and wired network of the institution.
- c) The access point/network modules should support all application software and network protocols.
- d) The network needs to provide full coverage in areas from where users will access the network i.e in rooms, Labs and reading room etc.
- e) This controller should be capable to manage 500 clients at maximum level and should be based on Centralized WLAN controller, single point management for configuration for WLAN access.
- f) The system should be put in place based on Site survey, technical bid, financial bid, selection process, Contract, Procurement, installation and system administrator's training, hand holding, running and up keeping of systems including dusting keeping them clean and safe etc. trouble shooting/maintenance done for the entire five years period.
- g) Vendors are requested to do a detailed site survey before giving quotation to understand the exact requirements. For site survey, vendors may contact PIC(CIF), P MEC Berhampur, through the email: procurement@pmec.ac.in .
- h) Bidder will provide complete turnkey solution including all works like, laying of cables wherever required civil work, if any etc.
- i) Laying, terminating & connecting Single mode 6-core Optical Fiber cable (OFC) in ring Topology by using necessary Accessories like LIU, pigtail, fiber patch cords etc.

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- j) Wall mounting of Racks with installation and commissioning of 24-p patch panel & 24-p PoE switches in different locations with power supply provision.
- k) Installation of I/O port and access point indifferent required position.
- l) Supply & Laying of Cat-6 UTP from switch to I/O port with casing & capping.
- m) Arranging tools, tackles, machinery, test instruments, consumables, skilled manpower, etc. complete in all respects for installation, testing, and commissioning of the system by the bidder.
- n) Drawings and Data Requirements to be submitted by the Bidder for the complete system like:
 - ❖ Technical Architecture of the System.
 - ❖ Complete Bill of Quantity (BOQ)
 - ❖ Complete Data Sheet
 - ❖ Test Records and Commissioning Documents.
 - ❖ Diagrams and Wiring connection.
 - ❖ Operation and Maintenance Manual
 - ❖ As-built drawings & rack elevation along with patching details i.e. acrylic laminated (Hard copy of visible size must be fixed on the wall of each rack location along with their soft copy)
 - ❖ Warranty certificate of the installed products on the letterhead of OEM with duly signed and stamped.
- o) Commissioning of requirement and network integration with overall P MEC, Berhampur network will also be the responsibility of the vendors.
- p) The vendors will provide comprehensive warranty/guarantee with parts and onsite support for all the network equipment for a total five years and CAMC for next 4 years.
- q) After 1 year of warranty period, the vendors should be able to maintain the system through a comprehensive AMC for another 4 years and the cost of which should be quoted separately for 4 years.
- r) Any complaint/breakdown call reported should be attended the same day within 2 hours by the 1st level local resident engineer. Further, any complaint/ breakdown call requiring repair/replacement/stand by equipment/2nd level support are to be rectified within 8 hours if reported before 6:00 pm and if reported after 6:00 pm shall be attended by 11:00 AM next day.

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- s) The simple operational difficulties etc. to be attended and sorted out within 2 hours of the complaint. The vendor will maintain a complaint register with cell phone for complaints to be registered and complaint no. to be given to the user for further reference.
- t) Wireless equipment shall be high performance access (indoor) points and other equipment required shall be optimized for cost and efficiency.
- u) Seamless connectivity throughout the zone for mobile users with laptops/PDAs.

2. Coverage & Availability

- a) No black hole/low signal within zone, there should not be any information access/communication black hole. The WLAN should be designed in such a way that there is nil or minimum interference between the wireless i.e., AP or any other wireless devices like medical equipment etc.
- b) The WLAN should allow roaming across all the locations.
- c) Secure user authenticated access, login, password, and usage logs etc. to be provided by the vendors in coordination with P MEC, Berhampur. There should be option for centralized/ uniform/universal access for access/login in all wireless LAN of P MEC, Berhampur.
- d) The bidder should have implemented similar solutions (Secure wi-fi set up with controller & LAN Components) deployed in Odisha in last three years. Minimum one such supply order is needed with completion certificate and performance certificate from end customer.
- e) All the cables should be of latest industry standard and should be laid within conduits as per the latest standard laying procedure.
- f) The complete installation of network and implementation of wireless controller should be done in phased manner in consultation with PIC (CIF), P MEC, Berhampur to make sure minimum disturbance to the users.
- g) P MEC, Berhampur or its representatives shall have the right to inspect or evaluate the hardware, software etc. to confirm their conformity to the ordered specification. The supplier shall provide all reasonable facilities and assistance for inspection at no charge to P MEC, Berhampur. In case inspected tested features fail to confirm to the specification, office of CIF P MEC, Berhampur may reject them, and the supplier shall

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either replace the rejected goods or make all alternation necessary to meet specification required, free of cost.

- h)** The new setup should be seamlessly integrated with existing network.
- i)** Design of the wireless Network and deployments should adhere to governments norms defined and should comply with all its security measures.
- j)** All the equipment, cables and accessories must be handed over to office of CIF, PMEC Berhampur in perfect working conditions.
- k)** All the active wireless devices should be of the same manufacturer. All switches should be from single OEM. All passive components including racks should be from single OEM.
- l)** The offered product in the Wi-Fi solutions against the supply order shall be the latest version and should be under support for next 5 Years. However, if any product, which is declared end of life product by the OEM during the supply period of materials, the bidders should supply replaced model or next higher model/version of the product.
- m)** The quantities for the components mentioned in the tender are the estimates only. The bidders may quote and include in their bill of quantities any components, which they deem are necessary for successful implementation of the project.

3. Installation and Commissioning

The Supplier shall be liable to complete all installation and commissioning of the Wi-Fi Network System at the site within 30 days from the date of receipt of the work order. All packing must be opened at the site and handed over to the consignee, at the suppliers cost in presence of our Technical Committee Member (s)/ PIC (CIF). Installation and Commissioning shall include the following:

- a) Site location for installation of Access Points will be decided by PMEC authority.
- b) Installation of the Access Points with manufacturing equipments/accessories should be done by the bidder as per OEM's manual/instructions.
- c) 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.
- d) The bidder is to bring their own instruments required for installation, testing, and commissioning, which can be taken back after completion.
- e) Installation must be completed within 30 days after delivery at site.

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- f) The bidder should provide all necessary raw materials and consumables for running the system during commissioning.
- g) A completion certificate regarding the commissioning of Wi-Fi Network system to be furnished by the bidder.
- h) After completion of the work a joint inspection report is to be submitted duly signed by the bidder and Technical Committee Member (s)/ PIC (C1F) of the Institute.
- i) In case, guaranteed performance is not established, the bidder shall be given the opportunity to rectify/replace the items of the network, and restart the 7 days continuous trial operation, at the risk and cost of the bidder.
- j) The bidders will have to follow all the security instructions applicable from time to time. If the engineers deputed by the firms are found guilty of any violation of security norms, they will be liable to be prosecuted under the law.

Scope of work during Standard Warranty (SW) and Comprehensive Annual Maintenance Contract (CAMC) period:

1. The agency shall be solely responsible for comprehensive maintenance and up keep the system in good condition. The CAMC includes services only for both high end & low end equipment.
2. Quarterly preventive maintenance service be done as per the maintenance schedule.
3. The preventive maintenance shall be prepared and submitted in advance to the PIC (CIF).by the Agency. The necessary shutdown may be taken with the prior permission of the PIC (CIF).
4. The machines will be kept under working conditions throughout the year except for certain eventualities of the service provider.
5. All major and minor jobs including turnkey-based full-phased maintenance jobs are responsibilities of the bidder.
6. The tools and tackles for the maintenance job will be provided by the agency at site.
7. The scope of a Comprehensive Annual Maintenance Contract (CAMC) for Wi-Fi Network shall include all types of maintenance, repair, spares, consumable items, software, and support services to keep the system fully operational.
8. If any damage will occur in the system during the maintenance, work shall be rectified immediately by the agency. No extra cost will be paid for this.
9. The service engineer deputed by the agency shall be well-qualified and have enough knowledge in the field of Wi-Fi Network Systems.

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10. The agency shall submit a service report to the PIC (CIF) after completion of the preventive maintenance and as well as break down maintenance.
11. The Warranty/Guarantee of new spare items installed against the faulty/damaged spares shall be covered.
12. If the bidder fails to give service, then legal action will be initiated against the agency as per rule and work will be done by encashing their BG.
13. Schedule of Attendance of complaints:-
 - a) In case of breakdown-within 4 hours call should be attained (Subject to complaint logged between 9:00 am to 6:00 pm, Monday to Saturday baring national holidays)
 - b) The agency shall respond to all calls and provide 7 × 24 hours and 365 days emergency service failing which legal action will be initiated against the agency as per rule and work will be done by encashing their BG amount by the PIC (CIF).
 - c) If the hardware failure is detected, then the same will be rectified within 72 hours failing then legal action will be initiated against the agency as per rule and work will be done by encashing their BG amount by PIC (CIF).
 - d) If the software failure is detected, then the same will be rectified within 24 hours failing then legal action will be initiated against the agency as per rule and work will be done by encashing their BG amount by the PIC (CIF).
14. All repairs/replacement/servicing/fixing of the entire CCTV system shall be carried out only by the contractor / Bidder. PMEC Berhampur shall not permit or allow any other party other than the authorized contractor / successful bidder to handle or deal with the equipment.
15. Repair/replacement/servicing shall mean system testing, repair, and maintenance of the entire/total equipment for the proper functioning of the Wi-Fi Network system. The CAMC includes repairing & maintenance of Network switches, Network Configuration, Firewall configuration, Access Points, UPS, display, and other associated items e.g. connectors, Ethernet / Optical fiber cable, Power cable, HDPE pipe, etc., or any other item included in the Wi-Fi Network system. The CAMC charges should include the expenses for preventive maintenance and routine check-up and attending to breakdown calls as and when required.

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16. The contract is comprehensive and includes replacement, fitment, maintenance, and repair of all types of spare parts (Components/printed circuit board /power supply units/connectors & Electronics sub-systems, etc.), for replacement of defective parts and repair of the existing Wi-Fi Network system and all related items. No extra charges will be payable by P MEC on account of spares.
17. Any modification of software/ software upgradation for the change in class of service and to provide the same additional facilities within the existing software provided in the system shall be covered under a warranty period of 5 years.
18. The Agency shall be solely responsible for the maintenance and upkeep of the equipments in good condition.
19. The preventive maintenance schedule shall be prepared and submitted in advance. The necessary shutdown may be taken with the prior permission of the PIC (CIF).
20. A suitable complete shutdown shall be given once in a year for preventive maintenance of the complete system. All the equipment should be thoroughly checked and maintained for proper functioning/operations of the equipment.
21. In case of any fault in the installation covered under this work requiring immediate rectification of the same to put the installation in running condition, the firm has to rectify the fault and if any material is required in doing so, shall also arrange the same within a reasonable time.
25. The agency shall keep a minimum of spare and consumable materials in its custody for maintenance and attend the breakdowns.
26. Round-the-clock watch of the equipment shall be the Agency's responsibility and any losses and damage to the equipment shall have to be made good/repaired/ replaced as per the original standards /specification of the department, by the Agency at his own cost and nothing extra shall be paid by the department.
27. In case of faults/repairs/damages, the Agency should immediately submit a detailed fault analysis report, citing details of the repair/rectification schedule with details of probable completion which will be executed after due approval of PIC (CIF).
28. On completion of the replacement of spares before the commission of the system, the replacement shall be physically checked and properly tested. These checks and tests shall be conducted by the agency under the supervision of P MEC Berhampur and the agency shall furnish the final test result.

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Annexure- I
Information Sheet of the bidders

S/L	Description	To be filled-in by the supplier
1	Bidder is an OEM or Authorized system Integrator	OEM or Authorized system Integrator
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 system Integrator, 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 turnover 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 Wi-Fi Network System to one Official at Consignee site at least for 7 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.

Signature and seal of the Bidder

Seal and Full Signature of the Bidder

Annexure-II
Undertaking by the Bidder for unconditional acceptance of terms & Conditions

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

Subject: Tender documents for Supply, Installation, Testing and Commissioning of Wi-Fi Network System in College Campus 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 conditions laid down in the tender documents and accept **unconditionally** all the terms and conditions laid down in the tender call documents published on the website.

We warrant that the goods to be supplied under this contract as per the complete technical specifications 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/agency was or is Proprietor or Partner or Director of any Agency with whom the Government has banned /suspended business dealings. I/We further undertake to report to you immediately after we are informed but in any case not later than 15 days, if any Agency in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such an 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.

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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 Wi-Fi Network System in in abiding by all terms and conditions of the tender document if we are offered to execute the contract 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 contract.

Full Signature of Bidder

Place:

Date:

Seal and Full Signature of the Bidder

Annexure-III

List of clients

(To whom works of similar scope **each costing not less than Rs. 1.0 Crore** 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)

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Annexure-IV

Technical Specification for Wi-Fi Network System installation

Following are the list of some known / approved makes for Wi-Fi Network System. Technical specification mentioned here is the minimum, any better specification will also be accepted.

List of Approved Materials

Sl. No	Description of item
1	Access Point: Cisco/Netgear/Juniper/HP/Aruba/D-Link or equivalent make of repute
2	Switch & Modules: Cisco/Netgear/Juniper/HP/Aruba/D-Link or equivalent make of repute
3	Passive component: Commscope/ Siemon/Panduit/Belden/D-Link or equivalent make of repute
4	UPS: Vertiv/ APC/ Numeric/EATON/Emerson or equivalent make of repute
6	Rack: Valrack/ Netrack/Schneider/APW/Comrack/Dlink or equivalent make of repute
7	HDPE: Narayani Poly pipes/Shree Narayani/ Utkarsh/ Oriplast /Magnum or equivalent make of repute
8	PVC Pipe: AKG/ Polycab/Finolex/Precision/Sudhakaror equivalent make of repute
9	Electrical Socket box: Legrand/Schneider/Anchor roma or equivalent make of repute
10	Battery: Exide/Amron (Amararaja)/Cummins or equivalent make of repute
11	Other Item TO BE DIECIDED BY TECHNICAL COMMITTEE/PIC-IN -CHARGE

Bidder quoted for substandard products will not be considered and the offered quotations are liable for rejection.

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General Conditions applied to OEM/Bidders for the items as specified in BOQ1 TO BOQ 19.

Sl. #	Eligibility Criteria	Compliance (Y/N)with Document
1	Warranty declaration in OEM letter head mentioning the product Model No.	
2	Bid Specific Authorization in OEM letterhead.	
3	Bid Specific Malicious code certificate.	
4	Product's features must be mentioned in the OEM Data sheet and must be available in OEM global site.	
5	All Active, Passive & Rack Components like switch, DAC Cable, SFP Module should be from Single OEM	
6	All switches, Transceivers and access points should be from same OEM for ensuring 100% compatibility.	
5	OEM should be ISO-9001,ISO-14001, ISO-45001certified	
3	OEM should have IEC-62443-4-1 certification.	
4	OEM should be present in India for minimum 10 years. Certificate of Incorporation to be submitted.	
5	OEM annual turnover should be min 500Cr during last 3 years financial years.	
6	OEM should have TOLL FREE support number. Escalation matrix to be submitted with the bid.	
7	OEM should provide land boarder declaration.	

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Technical Specification of Items

BOQ 1Wi-Fi 6 Indoor Access Point			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Please mention Make, Model No		
2	Device Interfaces 1 x RJ45 console port, 1 x 10/100/1000 Ethernet (PoE) LAN, factory reset, power input		
3	Access Point should have One RJ45 Console port		
4	Access Point should have 2 x 2 dual-band internal antennas		
5	Access Point should support Antenna Gain 3.2 dBi (2.4 GHz), 4.3 dBi (5 GHz)		
6	Access Point should support Maximum Output Power 23 dBm (2.4 GHz), 26 dBm (5 GHz)		
7	Access Point should support Maximum Data Signal Rate Up to 1800 Mbps		
8	Access Point should support Standards IEEE 802.11a/b/g/n/ac/ax, IEEE 802.3u/ab, IEEE 802.3az Energy-Efficient Ethernet (EEE), IEEE 802.3at PoE		
9	Access Point should support Operating Frequency 2.4 - 2.483 GHz, 5.15 - 5.35 GHz, 5.47 - 5.85 GHz		
10	Access Point should support Security Protocol WPA/WPA2/WPA3™ Personal/Enterprise, WEP 64/128-bit, SSID broadcast disable, MAC address access control, internal RADIUS server		
11	Access Point should Support for Power of Ethernet 802.3at		
12	Access Point should Support MU-MIMO slices through congestion, reducing wait time for all users		
13	Access Point should Support latest WPA3™ Personal & Enterprise wireless encryption		
14	Access Point should support multiple AP modes to ensure performance optimization based on your network's needs AP/WDS with AP/WDS		
15	Access Point should support MAC Address Filtering and WLAN Partitioning ensure ultimate control of your network's access		
16	Access Point should support Power Supply 12 V / 2.5 A (optional power adapter), IEEE 802.3at PoE		
17	Access Point should support Maximum Power Consumption 14.7 W by ADP, 16 W by PoE		
18	Access Point should support Operating Temperature 0 °C to 40 °C (32 °F to 104 °F)		
19	Access Point should support Storage Temperature -20°C to 65 °C (-4 °F to 149°F)		
20	Access Point should support Certifications CE, FCC		

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BOQ 2Wi-Fi 6 Outdoor Access Point			
Sl. #	Specification	Compliance Yes/No	Remarks
1	Device Interfaces 1 x RJ45 console port, 1 x 10/100/1000/2500 Ethernet PoE LAN port, factory reset button		
2	Access Point should have One RJ45 Console port		
3	Access Point should have 4 x 4 dual-band internal antennas		
4	Access Point should support Antenna Gain 5 dBi (2.4 GHz),7.9 dBi (5 GHz)		
5	Access Point should support Maximum Output Power 23 dBm (2.4 GHz), 22 dBm (5 GHz)		
6	Access Point should support Maximum Data Signal Rate Up to 3000 Mbps		
7	Access Point should support IP68 water and dust-proof housing for outdoor environments		
8	Access Point should support Standards IEEE 802.11a/b/g/n/ac/ax, IEEE 802.3u/ab, IEEE 802.3az Energy-Efficient Ethernet (EEE), IEEE 802.3at PoE		
9	Access Point should support Operating Frequency 2.4 - 2.483 GHz, 5.15 - 5.35 GHz, 5.47 - 5.85 GHz		
11	Access Point should support Security Protocol WPA/WPA2/WPA3™ Personal/Enterprise, WEP 64/128-bit, SSID broadcast disable, MAC address access control, internal RADIUS server		
12	Access Point should Support for Power of Ethernet 802.3at		
13	Access Point should Support MU-MIMO slices through congestion, reducing wait time for all users		
14	Access Point should Support latest WPA3™ Personal & Enterprise wireless encryption		
15	Access Point should support Supports multiple AP modes to ensure performance optimization based on your network's needs AP/WDS with AP/WDS.		
16	Access Point should support Authentication via Customizable Captive Portal, 802.1x and RADIUS Server, POP3, LDAP.		
17	Access Point should support External power adapter: 54 V DC +/-10% IEEE 802.3at PoE		
18	Access Point should support Maximum Power Consumption 16.7 W		
19	Access Point should support Operating Temperature -30 to 60 °C		
20	Access Point should support Storage Temperature -30 to 65 °C		
21	Access Point should support Certifications CE, FCC, UL, IP68, EN60601-1-2		

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BOQ 3 Layer2 8 Port PoE with 2 SFP Switch

Sl. #	Specification	Compliance Yes/No	Remarks
1	Switch with 8 nos 10/100/1000 Mbps PoE Port and 2 nos 100/1000 Mbps SFP ports		
2	SFP's 1000 BaseSX,1000BaseLX,1000BaseTX		
3	The Switch shall have Non-blocking wire speed switch fabric		
4	The Switch shall have Min. 20 Gbps Back plane or higher		
5	The Switch shall have Min 14 million pps or higher		
6	The Switch shall support Min. 8K Mac address		
7	The Switch Should support Jumbo Frame (9K Bytes)		
8	The witch Should Support PoE Capable Port 1 to 8		
9	The Switch Should Support PoE power Budget of 130		
11	The Switch should have IGMP Snooping v1,v2 & IGMP v3 awareness		
12	The Switch should have Spanning tree 802.1D STP, 802.1W RSTP & 802.1s MSTP		
13	The Switch should have 802.3ad Link Aggregation Up to 8 groups/8 ports per group		
14	The Switch should have Port Mirroring One to one/Many to One		
15	The switch should support 4 nos IP interface		
16	The switch should support 124 nos IPv4 static route & 50 nos IPv6 static route		
17	The LAN switch shall have IEEE 802.1Q VLAN encapsulation. Up to 255 VLANs per switch.		
18	It shall have Auto Surveillance VLAN, Asymmetric Vlan & Auto Voice Vlan		
19	It shall support 802.1p Priority Queues (8 queues per port)		
20	Queue Handling mode: WRR & Strict Mode, Class of service shall be based on DSCP,802.1p queues,IPv6 Traffic class		
21	The LAN switch shall support IEEE 802.1x to allow dynamic, port-based security, providing user authentication, DHCP Server Screening .		
22	It shall support Network Timing Protocol (NTP/SNTP) to provide an accurate and consistent timestamp to all intranet switches.		
23	It should support Compact CLI through Telnet, SNMPv1/V2c and V3, LLDP, LLDP-MED .		
24	Switch should be CE,FCC,UL,VCCI, certified		
25	Switch should be IPv6 ready from day one.		

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BOQ 4 24-port PoE access switch with 4 nos 1G/10G SFP Ports

Sl.#	Specification	Compliance Yes/No	Remarks
1	Layer-2 Managed Switch having minimum 24x 10/100/1000BaseT PoE ports & 4x 1/10G SFP+ slots		
2	Switching Capacity: Minimum 128Gbps (Must have non-blocking architecture) Packet Forwarding Rate (For 64-bytes packet size): Minimum 95Mpps		
3	The switch should support both IEEE 802.3af & IEEE 802.3at standards. It should have PoE power budget of atleast 370Watt.		
4	The Switch should support 6KV Surge Protection.		
5	The Switch should have following L2 features:		
6	MAC Address Table size: Atleast 16000, support atleast 256 static MAC		
7	Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention		
8	Jumbo Frame Support (Atleast 12000 bytes)		
9	IGMP v1 v2 with atleast 256 IGMP snooping groups, Per VLAN IGMP Snooping, port based IGMP snooping fast leave.		
11	LLDP, LLDP-MED, IPv6 Neighbor Discovery.		
12	IEEE802.1D STP, 802.1w RSTP, 802.1s MSTP, Root guard or equivalent feature.		
13	The switch should be able to avoid the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
14	IEEE 802.3ad Link Aggregation with atleast 8 ports per groups & 8 groups per switch.		
15	Port mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode		
16	IEEE 802.1Q VLAN, atleast 4094 Static VLANs, Voice-VLAN		
17	The switch should have 802.1p support with 8 queues per port. Support strict & WRR queue handling technique.		
18	The switch should have Port-based ingress & egress bandwidth control with minimum granularity of atleast 16kbps		
19	The switch should have standard & extended Access control list		
20	The switch should have the following security features: Broadcast, Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x, DHCP server screening, RADIUS server.		

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21	The switch should have feature to protect the CPU from protocol control packet attack.		
22	The switch should have cable diagnostic feature to check the status of connected RJ45 cables.		
23	The Switch should have following Management features from day-1: Web-based GUI, Web based GUI for IPv6, Physical console port for Out of band CLI management, Telnet Server, Telnet Server IPv6, TFTP Client, TFTP client IPv6, SNMPv1v2cv3, SNMP IPv6, SNMP trap, BootP/DHCP Client,SNTP, trusted host, trusted host IPv6, RMONv1, Syslog, Syslog IPv6.		
24	The switch should have Energy saving green technology based on cable length & link status. IEEE 802.3az		
25	All type of switches & transceivers should be from same make.		

BOQ 5 1G Single mode Transceiver

Sl.#	Specification	Compliance Yes/No	Remarks
1	1000Base-LX Single Mode SFP Transceiver with Duplex LC Connector		
2	Support IEEE802.3z 1000BASE-LX		
3	Atleast 10Km distance support on single mode fiber interface		
4	Output TX Optical Power MAX.: -3dBm MIN.: -8 dBm		
5	Output RX Optical Power MAX.: -3dBm MIN.: -24 dBm		
6	Sensitivity -24dBm		
7	Cable Type single-mode 9/125um fiber		
8	Operating wavelength: 1310nm		
9	Should be same make as switches.		

BOQ 6 10G Single mode Transceiver

Sl.#	Specification	Compliance Yes/No	Remarks
1	10GBASE-LR Single Mode SFP+ Transceiver with Duplex LC Connector		
2	Support IEEE 802.3ae standard		
3	Output TX Optical Power Max.: 0.5 dBm Min.: -8.5 dBm		
4	Input RX Optical Power Max.: 0.5 dBm Min.: -8.5 dBm		
5	Sensitivity -12.6 dBm		
6	Cable Type Single-mode 9/125 um fiber		
8	Atleast 10Km distance support on single mode fiber interface		
9	Transceiver module should be hot pluggible. MSA Compliant		
10	Operating wavelength: 1310nm		
11	Should be same make as switches.		
12	OEM should be ISO-9001, ISO-14001, ISO-45001 certified for design and development of networking products.		
13	OEM should have IEC-62443-4-1 certification.		
14	OEM should be present in India for minimum 10 years.		

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	Certificate of Incorporation to be submitted.		
15	OEM annual turnover should be min 500 Cr during last 3 years.		
16	All switches, Transceivers and access points should be from same OEM for ensuring 100% compatibility.		

BOQ 7 Wireless Controller			
Sl.#	Specification	Compliance Yes/No	Remarks
1	General		
1.1	Device Interfaces: 1 x Gigabit LAN, 1 x USB 3.0 (offers 5V / 1A power), 1 x Micro SD Slot 1 x RJ45 Console port from day one.		
1.2	Standards :IEEE 802.3u/ab, IEEE 802.3x Flow Control		
2	Functionality		
2.1	Network Management : Telnet, Web (HTTPS) Secure Telnet (SSH)		
2.2	WLAN Management		
2.3	Minimum APs Support: 100		
2.4	WLAN Management Features : AP grouping, Multi-tenancy, Visualized topology, NAT pass-through, Setup wizard, AP discovery (layer 2 and layer 3), Report system		
3	User Authentication		
3.1	Guest Portal : Captive portal		
3.2	Authentication Method : Local; POP3, RADIUS, LDAP, Voucher		
3.3	Hotspot Features: Built-in support for voucher-based authentication, Built-in hotspot manager for voucher creation and guest management, Rate limiting and bandwidth control for guest and hotspot portal		
4	Wireless Features		
4.1	RF Management and Control : Auto Output Power Control, Auto Channel, Self-healing around failed APs		
4.2	Multiple SSIDs per Radio(AP): 8		
4.3	Advanced Wireless Features: Band steering, L2 roaming, Bandwidth optimization, Airtime fairness		
5	System Management		
5.1	Management Interface: Web-based user interface(HTTPS)		
5.2	Scheduling : Firmware update, Configuration update		

BOQ 8 CAT6 UTP Cable			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Category 6 Unshielded Twisted Pair 4 pair cable shall be compliant with ANSI/TIA/EIA-568-C.2 channel performance		
2	The 4 pair Unshielded Twisted Pair cable shall be UL Listed, ETL Verified		
3	All Category 6 cables shall meet or exceed the following		

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	characteristics:		
4	Mechanical Characteristics		
5	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, full separator. Half shall not be accepted.		
6	Conductor dia: 23 AWG		
8	Insulation: polyethylene		
9	Pairing: Two insulated conductor twisted together		
10	No.of Pair: 4 pair twisted together		
11	Color of sheath: LSZH GREY- Single sheath		
12	Rip Cord should be available		
13	Sequential meter marking should be available		
14	Temperature Rating: (- 20 to +60 C)		
15	Packing : 305 Mtrs.		
16	Low Frequency Electrical Parameter		
17	Conductor Resistance (DC): 9.38 OHMS/100 MTR @20 Degree C. MAX.		
18	Resistance Unbalance: 5% Max		
19	Mutual Capacitance: 5.6 nF/100 mtrs Max.		
20	Capacitance Unbalance Pair/Ground: 330PF/100M MAX		
21	Nominal Velocity of Propagation: 69%		
22	IMPEDANCE: 100±15%OHMS		
23	Worst Case cable skew : 45ns/100m		
24	Generally confirming to EIA/TIA 568-C.2 and IEC/ISO 11801		

BOQ 9 CAT6 Outdoor UTP Cable			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Category 6 Unshielded Twisted Pair 4 pair cable shall be compliant withTIA/EIA-568-C.2 and ISO/IEC 11801 and RoHS compliant		
2	All Category 6 Outdoor cables shall meet or exceed the following characteristics:		
3	Mechanical Characteristics		
4	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, full separator. Half shall not be accepted.		
5	Conductor dia: 23 AWG		
6	Insulation: polyethylene		
8	Insulation Diameter 0.973 ± 0.05 mm		
9	No.of Pair: 4 pair twisted together		
10	Outer Jacket:UV-PE		
11	Insulation Thickness 0.217mm		
12	Sheath Thickness 0.5 ± 0.15 mm		
13	Operating Temperature: -20°C to 60°C		
14	Packing : 305 Mtrs.		
15	Color of Jacket : Black/Blue		
16	Low Frequency Electrical Parameter		

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17	Conductor Resistance: 8.9Ω /100MTR@20°C.		
18	Resistance Unbalance: 4% Max		
19	Mutual Capacitance: 5.6 nF/100 mtrs MAX.		
20	Capacitance Unbalance Pair/Ground: 160 nF/100M MAX		
21	Propagation Delay: 536 nS/100m max @ 250 MHz		
22	Delay Skew: ≤45 nS/100M		
23	Normal Velocity Of Propagation: 69%		
24	Bend Radius : 8 X CABLE DIAMETER		
25	Tensile Strength: >9MPa		
26	Impedance: 100 ± 15% Ω		
27	Sequential Marking At Every Meter		

BOQ 10 24 Port UTP Loaded Patch Panel			
Sl.#	Specification	Compliance Yes/No	Remarks
1	24-Port Cat6 UTP Patch Panel		
2	Patch Panel made of powder coated steel, in 24 port configurations.		
3	Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.		
4	Have port identification numbers on the front of the panel.		
5	Should have self adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel		
6	IDC: Suitable for 22-26 AWG stranded and solid wire compatible with both 110 & Krone punch down tools		
8	The Cat-6 transmission performance is in compliance with the ANSI/TIA/EIA 568C.2 standard		
9	Mechanical Characteristics:		
10	Plastic Housing: PBT+Glass Fiber, UL94V-0 rated		
11	Jack Connector		
12	Operating Life: Minimum 750 insertion cycles		
13	Material: Phosher bronze with nickel plated		
14	Contact Plating: 50μ” Gold plated on plug contact area		
15	IDC Connector		
16	Plastic Housing: Polycarbonate		
17	IDC Contact Plating: Phosphor bronze with tin plated		
18	Wire Accommodation: 22-26 AWG solid		
19	Contact resistance: 20Milliohms		
20	Insulation resistance: 100 MegaOhms @ 500V DC		

BOQ 11 UTP Patch Cord -0.5 Mtr			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Category 6 UTP Patch Cord – 0.5 Mtr		
2	The work area equipment cords shall, at a minimum comply with proposed ANSI/TIA/EIA-568-C.2 Commercial Building Cabling Standards Transmission Performance Specifications		

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	for 4 pair Category 6 Cabling.		
3	Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wiring.		
4	Mechanical Feature of Cable:		
5	Conductor size: 24 AWG multi-strands bare copper		
6	Jacket: FR-PVC		
8	Mechanical Feature of Plug:		
9	Operating life: Minimum 750 insertion cycles		
10	Contact blade: Copper Alloy		
11	Operating temperature: -10°C to 60°C		
12	RJ45 Plug & Boot Material: Clear Polycarbonate for RJ-45 And PVC for Boot		
13	Factory Crimped Patch Cord with Factory Moulded Boot		

BOQ 12 UTP Patch Cord -1 Mtr			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Category 6 UTP Patch Cord – 1Mtr		
2	The work area equipment cords shall, at a minimum comply with proposed ANSI/TIA/EIA-568-C.2 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair Category 6 Cabling.		
3	Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wiring.		
4	Mechanical Feature of Cable:		
5	Conductor size: 24 AWG multi-strands bare copper		
6	Jacket: FR-PVC		
8	Mechanical Feature of Plug:		
9	Operating life: Minimum 750 insertion cycles		
10	Contact blade: Copper Alloy		
11	Operating temperature: -10°C to 60°C		
12	RJ45 Plug & Boot Material: Clear Polycarbonate for RJ-45 And PVC for Boot		
13	Factory Crimped Patch Cord with Factory Moulded Boot		

BOQ 13 UTP Information Outlet			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Single Port Cat6 UTP Information Outlet with Surface Mount Box		
2	Single Port		
3	Write on labels in transparent plastic window – supplied with plate		
4	Face Plate with shutter		
5	Should be able to support variety of jacks – UTP, STP etc.		
6	Category 6, TIA568 C.2		
8	All information outlets for 22-26 AWG copper cable shall:		
9	Use insulation displacement connectors (IDC)		

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10	Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limits.		
11	Jack Specification:		
12	Plastic Housing: Polycarbonate, UL94V-2 rated or equivalent		
13	Operating Life: Minimum 750 insertion cycles		
14	Contact Material: Phosphor Bronze with nickel plated		
15	Contact Plating: 50µ inches gold on plug contact area		
16	IDC : Housing PC , UL 94 V-2, 568A/B configuration		
17	Operating Life: Minimum 200 Re-terminations		
18	IDC Contact Plating: Phosphor bronze with tin plated		
19	Operation Temp: -10 C to 60 C		
20	Keystone of I/O should be UL Listed. Back box should be of same make as keystone jack & face plate.		

BOQ 14 12 Port Loaded LIU			
Sl.#	Specification	Compliance Yes/No	Remarks
1	12-Port, 19" Rack Mount LIU Fully Loaded with Single Mode SC Adapters		
2	Aluminium/Steel base material with powder coating for light mounting		
3	Snap-in locker design, easy to change the adapter panels		
4	Front mounted cable saddles for jumper management		
5	It should have facility for managing splices & terminations		
6	It should have rubber fiber slotted bracket built-in		
8	It should be capable of storing upto 3mtr of 900micron tight buffered fiber per adapter		
9	It should have snap-in locker design for easy to change adapter panels for various connector patching		
10	It should have removable rubber grommet allowing for pre-terminated fibre trunk installation, cable protection & minimizing dust build-up.		
11	It should have atleast 4 rubber cable plugs for cable entries.		
12	It should have removable front & top covers for better access to interior of LIU		
13	It should be supplied with cable ties, mounting ear screws and spiral wrap tubes		

BOQ 15 24 Port Loaded LIU			
Sl.#	Specification	Compliance Yes/No	Remarks
1	24-Port, 19" Rack Mount LIU Fully Loaded with Single Mode SC Adapters		
2	Aluminium/Steel base material with powder coating for light mounting		
3	Snap-in locker design, easy to change the adapter panels		

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4	Front mounted cable saddles for jumper management		
5	It should have facility for managing splices & terminations		
6	It should have rubber fiber slotted bracket built-in		
8	It should be capable of storing upto 3mtr of 900micron tight buffered fiber per adapter		
9	It should have snap-in locker design for easy to change adapter panels for various connector patching		
10	It should have removable rubber grommet allowing for pre-terminated fibre trunk installation, cable protection & minimizing dust build-up.		
11	It should have at least 4 rubber cable plugs for cable entries.		
12	It should have removable front & top covers for better access to interior of LIU		
13	It should be supplied with cable ties, mounting ear screws and spiral wrap tubes		

BOQ 16 Fiber Optic Pigtail			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Single Mode SC Pigtail - 1Mtr		
2	Provide a field installable Single mode SC pigtails		
3	Utilize a UPC polishing on the tip to provide high yield during installation.		
4	Meet TIA/EIA 568.C.3 standards for repeatability.		
5	Insertion Loss (Max): <0.3 db Max.		
6	Mating Cycle : 1000 Times		
8	Return Loss : >= 50 db for UPC		
9	Connector ferrule: Ceramic		
10	retention strenght: 20N		
11	Operating Temp.: (- 20 deg. C to + 60 deg. C)		
12	Buffer diameter: 900um Tight buffer		
13	Types : SC Type Simplex		

BOQ 17 Fiber Optic Patch Cord			
Sl.#	Specification	Compliance Yes/No	Remarks
1	Single Mode LC-SC Duplex Patch Cord - 3Mtr		
2	Optical fiber patch leads shall comprise of Single mode 9/125µm fiber with LC-SC fiber connectors terminated at each end. The optical fiber patch leads shall comply with the following specifications:		
3	Optical Fiber – Single mode		
4	Connector: Zirconia ceramic ferrule		
5	Pre-radiuses and pre-polished ferrule		
6	Duplex Type		

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8	Color-coded yellow for Single mode		
9	Insertion Loss : <0.3 db		
10	Cable: 9/125, SM		
11	Return Loss: >/= 50dB for UPC		
12	Durability: 1000 mating cycle		
13	Working Temp: (- 20 deg. C to + 60 deg. C)		
14	Length: 3 Meter		

BOQ 18 Network Enclosure (9U)			
Sl.#	Specification	Compliance Yes/No	Remarks
1	9U, 19" 550mm Width, 450mm Depth, Wall Mount Networking Enclosure		
2	It should confirm to DIN 41494 or equivalent standard		
3	It should be welded construction with steel frame		
4	Lockable tough ended glass front door		
5	19" mounting angle made of formed steel		
6	Powdered coated standard finish		
8	Top & Bottom welded cover with vented & cable entry exit cut outs		
9	2 pair of 19" mounting rails		
10	1U Cable Manager		
11	Roof Mounted Fan Unit		
12	230V AC, 6 way, 5/15 Amp Power Distribution Unit		
13	Mounting Hardware set.		

BOQ 19 Network Enclosure (12U)			
Sl.#	Specification	Compliance Yes/No	Remarks
1	12U, 19" 550mm Width, 450mm Depth, Wall Mount Networking Enclosure		
2	It should confirm to DIN 41494 or equivalent standard		
3	It should be welded construction with steel frame		
4	Lockable tough ended glass front door		
5	19" mounting angle made of formed steel		
6	Powdered coated standard finish		
8	Top & Bottom welded cover with vented & cable entry exit cut outs		
9	2 pair of 19" mounting rails		
10	1U Cable Manager		
11	Roof Mounted Fan Unit		
12	230V AC, 6 way, 5/15 Amp Power Distribution Unit		
13	Mounting Hardware set.		

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BOQ 20:1 KVA OFFLINE UPS				
Sl. #	Specification		Compliance Yes / No	Remarks
1	General Features			
1.1	Nominal power (VA)	1000V		
1.2	Active power (W)	600W		
1.3	Technology	Line Interactive		
1.5	Waveform	Modified Sinusoidal at Back up mode		
1.6	UPS architecture	Tower		
2	Input			
2.1	Input voltage	230 V		
2.2	Input frequency	50Hz \pm 6% Autosensing		
2.3	Input Voltage Range	140V-300V on full load		
3	Output			
3.1	Output voltage	230V \pm 10%		
3.2	Output frequency (nominal)	50Hz \pm 1%		
4	Mechanical features			
4.1	Measurements W x D x H (mm)	150x350x160		
4.2	Net Weight (kg)	8		
5	Environmental conditions			
5.1	Operating temperature($^{\circ}$ C)	0 - 40 $^{\circ}$ C		
5.2	Degree of protection	IP20		
5.3	Relative humidity (%)	0 - 95% non-condensing		
5.4	Noise level at 1 m (dBA)	< 45		
6	Warranty	2 years or manufacturer warranty period whichever is higher from the date of Installation		

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Annexure-V
OEM AUTHORISATION LETTER

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

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

Subject : Direct Manufacturers Authorization

Ref : Tender No:

Name of Work: Supply, Installation, Testing and Commissioning of Wi-Fi Network System at P MEC, Berhampur

Dear Sir,

We, an established and reputable manufacturer of Wi-Fi Network System 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 Wi-Fi System manufactured by us and authorize the said firm to act on our behalf in fulfilling to supply, install, train & commission and provide all technical support and maintenance obligation as required by the contract.

We also here by undertake to provide full guarantee/full performance warrantee/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 Comprehensive Warranty/ Comprehensive Annual Maintenance Contract and to supply all the spares/accessories/consumables/material/software upgrades/ labour etc. during the said period through the appoint bidder by P MEC 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 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.

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Annexure-VI
BANKGUARANTEEFORPERFORMANCESECURITY

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

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

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

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

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, 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 supplier to be in default under the contract 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 supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the supplier 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

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Annexure-VII

Comprehensive Annual Maintenance Contract Agreement

THIS AGREEMENT made the.....day of, 2025 between the “**The Principal, Parala Maharaja Engineering College, Berhampur**” (herein after "the Purchaser") of the one part and M/s.....
(hereinafter called "the Supplier")of the other part:

WHEREAS the Purchaser invited bids for certain Goods & ancillary services viz, supply, installation, testing and commissioning of Wi-Fi Network System at PMEC Berhampur including Comprehensive Annual Maintenance Services and has accepted a bid by the Supplier for the instruments & equipment specified below at the Consignee site including Comprehensive Warranty Maintenance Services for a period of 4 Years after one year of standard warranty period from the date of installation & commissioning of the instruments & equipment as per award of Contract No..... dated.....

NOW THIS AGREEMENT WITNES 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 Warranty Maintenance Contract (WMC) 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,

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

Seal and Full Signature of the Bidder

PART II (PRICE BID)

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

Dear Sir,

1. I/we,..... submitted the bid for Tender No***** For “Supply, Installation, Training and Commissioning of Wi-Fi Network in College Campus at PMEC, Berhampur.
2. I/we thoroughly examined and understood instruction to tenders, scope of work, terms & condition contact given in the tender document and those contained appendix of Terms & conditions of contract and agree to abide by them.
3. I/We hereby offer to provide supply and installation of Wi-Fi 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 completion of the work.

Sl no	Item	Quantity	UOM	Unit Price in Rs.	Amount in Rs.	Taxes in Rs.	Total amount in Rs. (amount + Taxes)
1.	SITC of Wi-Fi 6 Indoor Access Point	365	No.				
2.	SITC of Wi-Fi 6 Outdoor Access Point	35	Nos.				
3.	SITC of Layer2 8 Port PoE with 2 SFP Switch	10	Nos				
4.	SITC of 24-port PoE access switch with 4 nos 1G/10G SFP Ports	34	Nos				
5.	SITC of 1G Single mode Transceiver	40	No				
6.	SITC of 10G Single mode Transceiver	6	Nos				
7.	SITC of Wireless Controller	2	Nos				
8.	SITC of CAT6 UTP Cable (305 Mtr Box)	51	Box				
9	SITC of CAT6 Outdoor UTP Cable (305 Mtr Box)	8	Box				
10	SITC of 24 Port UTP Loaded Patch Panel	44	Nos				
11	SITC of UTP Patch Cord -0.5 Mtr	400	Nos				
12	SITC of UTP Patch Cord - 1 Mtr	400	Nos				
13	SITC of UTP Information Outlet	400	Nos				
14	SITC of 12 Port Loaded LIU	13	Nos				
15	SITC of 24 Port	2	Nos				

Seal and Full Signature of the Bidder

	Loaded LIU						
16	SITC of Fiber Optic Pigtail	204	Nos				
17	SITC of Fiber Optic Patch Cord	46	Mtr				
18	SITC of Network Enclosure (9U)	44	Nos				
19	SITC of Network Enclosure (12U)	8	Nos				
20	SITC of Laying of Cat-6 using Pipe, Flexible Pipe, etc	17000	RMT				
21	SITC of Laying of OFC using HDPE pipe etc	1000	RMT				
22	SITC of PVC Casing and Capping 25mm	8275	Mtr				
23	SITC of PVC flexible pipe 25mm	1650	Mtr				
24	SITC of Electrical fittings, wiring connection, switch board and switches	12	No.s				
25	SITC of 1kVA Line interactive UPS at each rack location	40	No.s				

Note: The quantities mentioned against each item are indicative only and subjected to change; however the above mentioned quantities shall be used for financial evaluation.

Name & Sign of Bidder along with address

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.
2. Price Bid shall not contain any condition whatsoever and any conditional bids shall be rejected.

Place:

Date:

**Signature of Bidder/Business Address
Seal of the Bidder**

Seal and Full Signature of the Bidder

Annexure-VIII (B)
Price Schedule for Comprehensive Annual Maintenance Contract
After Completion of Warranty Period.

Item CAMC for four years after completion of one year warranty period					
Years	2nd Year	3rdYear	4th Year	5th Year	Total Amount
Amount (Rs)					
Amount including Tax (Rs)					

Note:-

1. Prices shall be quoted inclusive of all taxes, duties, freight, forwarding, and cost of labor for installation. In case of discrepancy between unit price and total prices, the lowest price shall prevail.
2. The cost of CAMC which includes preventive maintenance including testing & calibration as per technical/ service/ operational manual, labour and spares, after satisfactory completion of Standard warranty period may be quoted for next 4 years on yearly basis.
3. The payment of CAMC will be made as per payment terms of the bid document.
4. The uptime warranty and down time penalty shall be as per the bid document.
5. All software update should be provided free of cost during CAMC period.
6. The stipulations in Technical Specification will supersede above provisions.
7. The supplier shall keep sufficient stock of spares required during Annual comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Place:

Signature of Bidder Seal of the Bidder

Date:

Seal and Full Signature of the Bidder