



Estd. – 2009  
A Government Engineering College  
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Website – [www.pmec.ac.in](http://www.pmec.ac.in)

# PARALA MAHARAJA ENGINEERING COLLEGE

(A constituent college of Biju Patnaik University of Technology, Odisha, Rourkela)

**SITALAPALLI: BERHAMPUR: DIST.:-GANJAM: PIN – 761003**

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## **EXPRESSION OF INTEREST (TWO BID SYSTEMS)** **SETUP OF SECURED, CENTRALLY MANAGED WIRELESS LAN**

**No. PMEC/ 2117**

**Date:- 09.12.2016**

Sealed tenders are invited from the reputed firms / ISO 9001 Certified Companies / Authorized Dealers / Manufactures with valid TIN / SRIN / VAT No. and PAN for supply and setup of **SECURED, CENTRALLY MANAGED WIRELESS LAN** (approx. cost ₹ **10.00 lakh**). Interested parties may apply in the prescribed tender document which can be obtained from this Institution website i.e. [www.pmec.ac.in](http://www.pmec.ac.in) on payment of non-refundable fees of ₹**2,000/-** (Rupees Two thousand) only in shape of Account Payee demand draft in favour of “**Principal, Parala Maharaja Engineering College**” payable at **Berhampur** from any Nationalized Bank. The bidder has to attach DD of required amount towards tender cost while submitting the tender. All bids must be accompanied by Bid Security(EMD) of 1% tendered value in shape of Account Payee demand draft in favour of “**Principal, Parala Maharaja Engineering College**” payable at **Berhampur** from any Nationalized Bank with copies of valid VAT Clearance Certificate, Income Tax Clearance Certificate and other relevant documents of the bidder failing which the bid will liable for rejection. The Bid Security in other form like cash, personal cheque etc. will not accepted and in such case bid will be rejected. In case of outside bidder, the concerned bidder is required to submit Orissa VAT clearance certificate along with the valid ITCC from the competent authority.

**Last Date of Receipt of Tender Paper: 16.12.2016 up to 01.00 PM.**

**Opening of Technical Bid: 16.12.2016 at 02.00 PM.**

**Opening of Commercial Bid: 16.12.2016 at 03.00 PM.**

The tenders should be submitted through Speed Post / Registered Post addressed to “**THE PRINCIPAL, PARALA MAHARAJA ENGINEERING COLLEGE, AT: SITALAPALLI, BERHAMPUR, PIN-761003, DIST.:- GANJAM, ODISHA**”, which should reached by the scheduled date and time. Tenders received beyond the scheduled date and time will be summarily rejected. The undersigned reserve the right to extend the date and accept or reject any or all tenders without assigning any reason thereof.

Sd/-  
Principal  
PMEC, Berhampur

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## 1 INTRODUCTION

Parala Maharaja Engineering College, Brahmapur (The College) invites Expression of Interest from OEMs / their authorized System Integrators to submit their technical proposal as well as capability and experience for:

- a) Setup of a secured, centrally managed wireless access network based on the latest 802.11n standard with over-the-air shared minimum data rates up to 300Mbps in its 5-storied Administrative building.

## 2 SCOPE OF WORK

Setup of a secured, centrally managed wireless access network based on the latest 802.11n standard with over-the-air shared minimum data rates up to 300Mbps. Training and maintenance of the proposed solution for minimum period of 3 (three) years is mandatory.

The College is looking at the below minimum specification of Wireless Access Points, PoE Switches, etc.

### **Minimum Specification:**

#### **Wireless Access Point (Indoor):**

High performance, High coverage area, High concurrent user supported, Fast Ethernet port PoE enabled, 802.11n 300 Mbps support, backward compatible to 802.11b/g, can be used in standalone mode as well as work in centralized management mode, configuration to use as an access point, wireless distribution system (WDS) with access point, WDS bridge or wireless client, Traffic control/QoS support, ARP spoofing prevention, about 29 dBm transmission power, built-in omni directional antenna (2 x 3dbi), multiple SSID support, security : WEP, WPA/WPA2, MAC, RADIUS, should come with mounting accessories for ceiling mount/wall mount, Wi-Fi certified, WPC certified product.

#### **Wireless Access Point (Outdoor):**

High performance, High coverage area, High concurrent user supported, Fast Ethernet port PoE enabled, 802.11n 300 Mbps support, backward compatible to 802.11b/g, can be used in standalone mode as well as work in centralized management mode, configuration to use as an access point, wireless distribution system (WDS) with access point, WDS bridge or wireless client, Traffic control/QoS support, ARP spoofing prevention, about 29 dBm transmission power, built-in omni directional antenna, multiple SSID support, security : WEP, WPA/WPA2, MAC, RADIUS, should come with mounting accessories for ceiling mount/wall mount, 4 KV Surge protection, 15 KV ESD protection, Wi-Fi certified, WPC certified product.

**8-port 10/100 Mbps Web Managed PoE Switch:**

8 nos. of 10/100 Mbps Copper ports supporting 802.3af PoE, 1.6 Gbps Switching fabric, 72 Watt PoE budget, 8K MAC address, 802.3x Flow control support, Port mirroring (one-to-one or many-to-one), spanning tree 802.1d and 802.1w, 802.3ad support, IGMP v1/v2/v3 and MLD v1/v2 support, 802.1p QoS support, VLAN support : 802.1q tagged VLAN, VLAN group, 256 static VLAN groups and 4094 VID, Auto Surveillance VLAN, Asymmetric VLAN, ACL based on VLAN, MAC, Ethernet port, protocol type, 802.1p priority, Security : 802.1x, ARP spoofing prevention, DHCP Server scanning, storm control, traffic segmentation, port security, SSL v1/v2/v3, DoS attack prevention, IP-MAC-Port binding, Management: Web based GUI, telnet, SNMP v1/v2/v3, SSH v2, TFTP client, LLDP, LLDP-Med, RMON v1, IPv4/IPv6 dial stack.

**Appliance for Centralized Management of Wireless Access Points:**

Capable to manage up to 500 Access Points from day-1, scalable flexible centralized AP management, Web based user interface, MAC and User authentication, Guest Portal Authentication, Auto RF Channel and Power management, Dash board based monitoring, SSID based MAC authentication, Captive portal and access control : support local database, external RADIUS/LDAP/POP3 and Wi-fi pass code authentication, WIDS : Rogue AP detection, support for 8 SSID/RADIO/AP, support advance wireless features like Band steering, L2 roaming, Bandwidth optimization, Web based GUI support, Scheduling : Firmware update and configuration update.

The OEM/Authorized System Integrator is requested to visit the site on working hours during **10/12/16 to 15/12/16** and study the nature of building construction and area to be covered for Wi-Fi provisioning before submission of the proposal. The proposed solution must be robust, centrally managed, ensure 99% uptime and must include warranty and maintenance for a period of 3 (three) years.

**2.1 Duration**

The job/service must be completed within 1(one) week of the receipt of Work order and the maintenance will be for a period of 3 (three) years from the date of completion of work. The selected firm and the OEM thereto are required to sign a tripartite agreement with the College for the warranty and maintenance support of the proposed network.

**3 SCHEDULE**

<b>S. No.</b>	<b>Information</b>	<b>Details</b>
1	Last date of receipt of EOI responses by Speed / Regd. Post	On or before <b>01.00 PM on 16.12.2016</b>
2	Address for submission of EOI	Principal, Parala Maharaja Engineering College, Sitalapalli, Berhampur, PIN-761003 Dist:- Ganjam (Odisha)
3	Opening of Technical Bids	<b>16.12.2016 at 02.00 PM</b>
4	Opening of Commercial Bids	<b>16.12.2016 at 03.00 PM</b>

#### **4 ELIGIBILITY CRITERIA**

- 4.1 The Bidder should submit a refundable EMD fee in INR @1% of the total proposed value of the Solution in the form of Demand Draft in favor of "Principal, Parala Maharaja Engineering College" payable at Berhampur.
- 4.2 The Bidder must comply with all statutory requirement of tax as be applicable by Government.
- 4.3 No consortium bidding will be allowed for the execution of the project.
- 4.4 The bidder shall have the experience of implementing/handling one project of similar nature worth ₹5,00,000/- in single order for any Government organization in India. Copies of supporting documents must be furnished.
- 4.5 Bidders must not be under declaration of ineligibility for corrupt and fraudulent practices issued by Government of India / Government of Odisha / Court of Law for the last three financial years ending on 31.03.2016.
- 4.6 The College reserves the right to accept or reject any or all responses without assigning any reason or modify or cancel the EOI in total.
- 4.7 The bidders should submit documentary proof of the above criteria in their EOI responses.
- 4.8 The OEM should have local branch office in Odisha since last 3 years. Documentary proof like landline telephone bill, Trade license registration under local municipality, house agreement etc. must be submitted with the EOI response.
- 4.9 The offered Wireless product must be certified by WPC or its any of the wing. Latest ETA certificate of offered model must be submitted with the EOI response.

#### **5 GENERAL TERMS & CONDITIONS**

- 5.1 Please note that this is not a Request for Proposal (RFP). After review of the EOI responses, only short-listed bidders would be invited to discuss further on techno-commercial proposal.
- 5.2 The bidder should submit their technical response / architecture as per the brief scope of work mentioned above in both hard and soft copy.
- 5.3 Short-listing of the bidders will be done by the College as per their suitability (techno-commercial) which shall be totally based on the EIO response submitted by the bidders.
- 5.4 The EOI responses shall be evaluated as per the eligibility criteria stated as above. However, within the broad framework of the eligibility criteria as stated in this EOI, the College reserves all the right to make modifications to the stated eligibility criteria in the EOI which would be uniformly applied to all the bidders.
- 5.5 The College further reserves the right to change, modify, add to or alter the bidding process for EOI including the right to rank and shortlist the pre-qualified bidders based on the detailed evaluation of capabilities.
- 5.6 Each page of the EOI document shall be duly signed and sealed by the authorized representative of the bidder.
- 5.7 The language for submission shall be English.
- 5.8 The College reserves the right to accept or reject any or all responses without assigning any reason. It also reserves the right to seek further information / details from the bidders / OEMs.

5.9 The EOI will be made available in the website of the College and the bidders shall download the same to submit their response.

**Principal,  
Parala Maharaja Engineering College,  
Sitalapalli, Berhampur, PIN – 761003  
Dist:- Ganjam (Odisha)**

The envelope must show the name of the bidder, address and should be superscribed as “SETUP OF SECURED, CENTRALLY MANAGED WIRELESS LAN – EOI REF. No.: P MEC/2117 DATED 09.12.2016” on top of the envelope.

## 6 EVALUATION CRITERIA

The responses to this EOI including the enclosed technical documentation shall be evaluated in the following manner.

- 6.1 The documentation furnished by the bidder will be examined prima facie to see if the submissions meet the eligibility criteria as specified above.
- 6.2 Preliminary scrutiny of the response to EOI will be made to determine whether they are complete, required EMD fee has been furnished, whether the documents have been properly signed, and whether the response is generally in order.
- 6.3 The bidders those are successful in the eligibility criteria will be called for further techno-commercial discussion.
- 6.4 Evaluation shall be made on the basis of marks to be awarded as per Table-A where the minimum qualifying marks should be 80%.

<b>Table-A</b>		
<b>S. No.</b>	<b>Description</b>	<b>Total Marks</b>
1	Overall approach	10
2	Clarity on Scope of Work	10
3	Technology and Tools	40
4	Work plan and methodology to complete the project with timeline.	40
	<b>TOTAL</b>	<b>100</b>

## 7 CHECK LISTS

<b>S. No.</b>	<b>Item</b>	<b>Yes/No</b>	<b>Page Reference in Response Document</b>
1	Brief Organization Profile		
2	Copy of Registration certificate of the firm		
3	Tender Paper cost & EMD in the form of DD		
4	Copy of PAN		
5	Copy of VAT / Service Tax Registration / Clearance if any		
6	Experience on similar projects (Attach the proof)		

7	Acceptance of Terms and Conditions		
8	Copy of proof of OEM's presence in Odisha (Trade license / office agreement copy / landline bill copy etc.)		
9	OEM Authorization Letter (Ink signed authorization in Original letter head of OEM. Signed by Company Secretary of the OEM).		
10	OEM / Product quality Certificate (ISO-9001 / ISO-14001 / ETA / WPC certificate of offered Wireless model etc.)		
11	Soft copy of Technical datasheet of proposed models		

Sd/-  
Principal  
PMEC, Berhampur