Tender Ref. No.: PNGRB/IT/WI-FI EQUIPMENT/2018/01

TENDER for Supply, Installation and Commissioning of WI-FI EQUIPMENT

Petroleum and Natural Gas Regulatory Board, 1st Floor,
World Trade Centre, Babar Road, New Delhi-110001

Tel No. 011-23457700, 23457754, 2345769
Fax: - 011-26826783

Email: contact@pngrb.gov.in
Website: www.pngrb.gov.in
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description</th>
<th>Page Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Notice Inviting Tender</td>
<td>3-4</td>
</tr>
<tr>
<td>2</td>
<td>Terms and Conditions of Tender</td>
<td>5-11</td>
</tr>
<tr>
<td>3</td>
<td>Details of requirements and technical specifications <em>(Annexure – A)</em></td>
<td>12-15</td>
</tr>
<tr>
<td>4</td>
<td>Undertaking from Bidder <em>(Annexure – B)</em></td>
<td>16</td>
</tr>
<tr>
<td>5</td>
<td>Format &amp; Requirements For Submitting Technical Bid <em>(Annexure – C)</em></td>
<td>17-24</td>
</tr>
<tr>
<td>6</td>
<td>Format &amp; Requirements for submitting Commercial Bid <em>(Annexure – D)</em></td>
<td>25-33</td>
</tr>
<tr>
<td>7</td>
<td>Check list <em>(Annexure – E)</em></td>
<td>34</td>
</tr>
</tbody>
</table>
**NOTICE INVITING TENDER**

The Petroleum and Natural Gas Regulatory Board, New Delhi invites sealed tender in two bids system (Technical & Commercial bid in two separate envelopes) from Original Equipment Manufacturers or Authorized Distributors/Authorized Dealers of OEM for the Supply, Installation and Commissioning of WI-FI EQUIPMENT.

The details are summarized below:

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<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Tender number</td>
</tr>
<tr>
<td>b)</td>
<td>Purchaser</td>
</tr>
<tr>
<td>c)</td>
<td>Usage of Equipment</td>
</tr>
<tr>
<td>d)</td>
<td>Scope of Work</td>
</tr>
<tr>
<td>e)</td>
<td>Specification/ Details of equipment</td>
</tr>
<tr>
<td>f)</td>
<td>Web page for details of tender</td>
</tr>
<tr>
<td>g)</td>
<td>Locations of supplies</td>
</tr>
<tr>
<td>h)</td>
<td>Earnest Money Deposit (EMD) along with Tender</td>
</tr>
<tr>
<td>j)</td>
<td>Bid Schedule and Cost of Tender Documents</td>
</tr>
<tr>
<td></td>
<td>Last date of submission of tender</td>
</tr>
<tr>
<td>---</td>
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</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>j)</td>
<td>Date of opening of Technical Bid (Envelope-1)</td>
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<tr>
<td>k)</td>
<td>Date of opening of Commercial Bid (Envelope-2)</td>
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</table>

**Note:** In case of any further details required, the same can be collected from the office of the Secretary, Petroleum and Natural Gas Regulatory Board, 1st Floor, World Trade Centre, Babar Road, New Delhi from **19th March, 2018 to 20th March, 2018** (except Saturday & Sunday) between 10:30 hours to 15:00 hours.

Secretary
TERMS & CONDITIONS

The Tender shall be submitted in accordance with these instructions, as under.

1. Abbreviations:
   Throughout this tender document, the word/ term:
   a) “PNGRB” means Petroleum and Natural Gas Regulatory Board, New Delhi
   b) “day” means Calendar day
   c) “working day” means Monday to Friday in week (except gazette/national holiday)
   d) “tender” means tender number PNGRB/IT/WI-FI EQUIPMENT/2018/01
   e) “Equipment” means the equipment & accessories as detailed at Annexure-A.
   f) If context so requires, “singular” means “plural” and vice versa.
   g) “EMD” means Earnest Money Deposit.
   h) “Purchaser” means Petroleum and Natural Gas Regulatory Board, New Delhi
   i) “Bid” means the tender document, technical details and financial details submitted by bidder.
   j) “OEM” means Original Equipment Manufacturer
   k) “Bidder”/Tenderer means the Original Equipment Manufacturers / Authorized Distributor/ Authorized Dealer.

2. Eligibility Criteria for Bidder:
   a) The intending Bidder, in case of Original Equipment manufacturers shall submit a self-declaration on their letter-head, along with the Technical Bid, confirming that they are regular in manufacturing & supplying the WI-FI equipment, as asked in this tender, for the last three (3) years.
   b) The intending Bidder, in case of Authorized Distributor / Authorized Dealer of OEM shall possess authorized Distributorship/Dealership certificate from Original Equipment Manufacturers valid since the last three (3) years and a copy of the same shall be enclosed in the Technical Bid.

3. Scope of Work:
   a) The Equipment and Accessories shall be supplied, installed and commissioned in compliance to the specifications mentioned in Annexure- A of the tender.
   b) The bidder shall quote for equipment of only RUCKUS/ CISCO/HP brands.
   c) The bidder shall offer on-site comprehensive warranty and support of equipment for one year from the date of supply of equipment. The purchaser is not liable to pay any extra charges on any account during warranty period.
4. Location of supply, installation and commissioning:
   a) The details of location where the equipment supplied, installed and commissioned through this tender are as under:

<table>
<thead>
<tr>
<th>#</th>
<th>Location</th>
<th>Address for supplies</th>
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<tr>
<td>1</td>
<td>New Delhi</td>
<td>Petroleum and Natural Gas Regulatory Board, 1st Floor,</td>
</tr>
</tbody>
</table>
<pre><code>   |            | World Trade Centre, Babar Road, New Delhi-110001          |
</code></pre>

5. Time Duration for Execution:
   a) Complete delivery, installation and commissioning of equipment by the bidder within fifteen (15) calendar days from the date of issue of order.
   b) The material shall be inspected on receipt at site and bidder shall be responsible for any damage during the transit of equipment.
   c) The bidder shall not arrange part shipments and/or trans-shipments without the permission of purchaser. The insurance cover including insuring the goods against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery shall be obtained by the bidder in his own name and not in the name of purchaser.
   d) It may be noted that Secretary, PNGRB New Delhi reserves full rights to cancel the tender for supply, installation and commissioning any time during the tender process without specifying any reason thereof.

6. Warranty and Support
   a) The bidder shall offer on-site comprehensive warranty and support of equipment for one year from the date of supply of equipment at the designated location. The purchaser is not liable to pay any extra charges on any account during warranty period.
   b) Any part or parts fail or proved defective within the on-site warranty period specified above, owning to defect in design, material or workmanship, the bidder shall have to replace them without asking for any charges.
   c) The bidder shall pay to the purchaser such compensations that may arise by reasons of the warranty therein contained but not attended by the bidder.

7. After Sales Services
   a) The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser, for which the bidder shall provide the contact details of the service centre in technical bid given in Annexure-C.
   b) The bidder will depute their engineer within one working day to attend the service call received by mail/over phone from purchaser.

8. Tender documents
   a) The tender document can be collected from the office of the Secretary, Petroleum and Natural Gas Regulatory Board, 1st Floor, World Trade Centre, Babar Road, New Delhi-110001 in between the period from 7th March, 2018 to 16th March, 2018 up to 15.00 hours (except Saturday & Sunday) against payment of Rs.500/- (Rupees Five Hundred only) (Non-refundable) by way of demand draft, in favour of ‘Petroleum and Natural Gas Regulatory Board’.
b) At any time prior to the last date for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum. The prospective bidders are advised to remain in touch with the Website for any update in respect of this tender.

9. **Authorization for Submission of Tender:**

   The original and all copies of the bid shall be signed by a person duly authorized to sign on behalf of the Bidder. The written confirmation of authorization (in form of letter on the bidder’s letter head) to sign on behalf of the bidder confirming the signature as a person duly authorized to sign should be attached with the technical bid of the tender. If it subsequently comes to light that the person so signed had no authority to do so, the purchaser may without prejudice to any other civil & criminal remedies cancel the tender and hold the Bidder liable for all costs, charges and damages.

10. **Earnest Money:**

   a) The EMD of Rs. 25,000/- (Rupees Twenty Five Thousand only) shall be submitted in the Envelope No.1 - super-scribed as “Tender for the Supply, Installation and Commissioning of WI-FI EQUIPMENT- Technical Bid”, by way of Demand Draft drawn in favour of ‘Petroleum and Natural Gas Regulatory Board’. No cash towards EMD shall be accepted. The offers without EMD from the Bidders shall be rejected.

   b) The Purchaser shall not be liable for payment of any interest on EMD.

   c) Any request by the bidders to consider their EMD already furnished by them to any of the other office of the purchaser, for any other contract/ tender will not be considered as EMD for this tender.

   d) The EMD will be returned to the unsuccessful bidders soon after the orders are placed on the successful bidder. In case of successful bidder, the EMD will be refunded after one month of successfully completing supply, installation and commissioning of the equipment mentioned in Annexure-A.

11. **Special Provision for Micro & Small Enterprises:**

   Micro and Small Enterprises (MSEs) participating in the tender will be given benefit as per Public Procurement Policy, 2012. Further, the MSEs owned by SC/ST entrepreneurs will also be given benefits as per Public Procurement Policy, 2012. The definition of MSEs owned by SC/ST is as given under:

   (a) In case of proprietary MSE. Proprietor shall be SC/ST

   (b) In case of partnership MSE, the SC/ST partners shall be holding at least 51% shares in the unit

   (c) In case of Private Limited Companies, at least 51% share shall be held by SC/ST promoters.

   Document to claim benefits to be enclosed in Technical Bid.

12. **Submission of Tender:**

   a) The bidder to examine all instructions, forms, terms and specifications in the tender documents and to furnish with its bid all documents or information as required by bidding document. A list of all the documents to be enclosed with technical bid, is provided in Annexure E for reference.
b) The language for all the correspondence and documents related to the tender shall be in English/ Hindi only. Moreover, the printed literature/technical details for the equipment shall also be in English/ Hindi.

The tender must be placed in a properly sealed bigger envelope addressed to Secretary, PNGRB, 1st Floor, World Trade Centre, Babar Road, New Delhi and the said bigger envelope shall contain two sealed envelopes containing Technical & Commercial bids. The bigger envelope must be super-scribed “Tender for the Supply, Installation and Commissioning of WI-FI EQUIPMENT.” The two sealed envelopes inside the bigger envelope must be super-scribed as:

Envelope No-1: The said envelope is for technical bid & shall be super-scribed as “Tender for the Supply, Installation and Commissioning of WI-FI EQUIPMENT- Technical Bid”

Envelope No-2: The said envelope is for commercial bid & shall be super-scribed as "Tender for the Supply, Installation and Commissioning of WI-FI EQUIPMENT- Commercial Bid”.

c) If both or either of the envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the bid.

d) All the columns of the tender shall be duly, properly and exhaustively filled in. Any cutting/over writing etc. in the tender must be signed by the person who is signing the tender.

e) Tenders received in open covers/ letters/ fax/ email will not be considered.

13. **Financial Bid Submission:**

a) Bidder shall take into account of all costs including Packing, Freight, Transportation, Insurance etc., for giving supply, installation and commissioning of material at site as specified in Para 4 of “Terms and Conditions” before quoting the “Price per unit of equipment” in the Commercial Bid.

b) The “Total Price for all Equipment for supply, installation and commissioning” shall remain firm for the supply, installation and commissioning to the destination.

c) No extra payment or revision of “Total Price for all Equipment for supply, installation and commissioning” shall be accepted on account of any discrepancy in nomenclature of items. No representation for the revision of the quoted “Total Price for all Equipment for supply, installation and commissioning” shall be considered on any account till the supply, installation and commissioning are completed to the designated location. The Bidder is advised to seek clarification, if any, desired before submitting the tender.

14. **Last date of submission of Tender:**

a) The tender should reach the office of Secretary, PNGRB, 1st Floor, World Trade Centre, Babar Road, New Delhi by 21st March, 2018 up to 15.00 hours.

b) The purchaser may, at its discretion, extend the last date for the submission of bids by amending the Tender Documents, in which case all rights and obligations of the Purchaser and Bidders previously subject to the last date shall thereafter be subject to the last date as extended. The prospective bidders are advised to remain in touch with website for any update in respect of their tender.

c) The purchaser shall not consider any bid that arrives after the due date for submission of bids. Any bid received by the Purchaser after the due date and time for
submittion of bids shall be declared late, rejected and returned unopened to the Bidder.

15. Opening of Technical Bid:
   a) The technical bid of tenders will be opened at PNGRB New Delhi on 23rd March, 2018 at 15:00 Hours. The Bidder or their authorized representative (One person only) carrying the authorization letter from the bidder, may be present at the time of opening of the tender

16. Opening of Commercial Bid:
   a) The Commercial Bid of only technically qualified bidders will be opened on the stipulated due date. The date & time for opening of Commercial Bid shall be intimated to the technically qualified bidders through email, after the evaluation of Technical Bid.

17. Validity of Tender:
   a) The tender shall be valid for a period of 30 days from the date of opening of the Technical Bid of tender. Terms and financial details submitted in the bid shall be treated as firm during the said period of 30 days.
   b) In exceptional circumstances, prior to the expiry of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing.

18. Evaluation of Bids:
   a) If there is an error in a total corresponding to the addition or subtraction of sub totals, the subtotals shall prevail and the total shall be corrected.
   b) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
   c) To assist in the examination, evaluation, comparison of the bids and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing only.
   d) If the Bidder does not provide clarifications of its bid by the date and time set in the Purchaser’s request for clarification, its bid may be rejected.
   e) The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to issuing the supply order, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically Bid document, EMD deposits shall be returned to the Bidders.
   f) The Purchaser shall compare the “Total Price for all Equipment for supply, installation and commissioning” of all the qualifying bids to determine the lowest bid.
   g) The successful Bidder, shall intimate his acceptance of the order to the purchaser within three days, from the date of receipt of communication of acceptance of his quotes. The successful bidder shall complete supply, installation and commissioning strictly as per the accepted delivery period.
19. Earnest Money Forfeit:
   a) If any Bidder withdraws his tender before the period of 30 days from the date opening of technical bid or makes any modifications in the terms and the conditions of the tender which are not acceptable to the purchaser, then the purchaser shall, without prejudice to any other rights or remedy, be at liberty to forfeit the EMD.

   b) The EMD will also be forfeited in following cases:
      i. If the bidder fails to accept the order based on his offer (bid) and within the prescribed time.
      ii. If the bidder fails to supply, installation and commissioning the Equipment with specifications as mentioned in Annexure -A
      iii. If the bidder delays supply, installation and commissioning beyond the stipulated delivery time resulting in disruption of project.
      iv. Submission of misleading/contradictory/false statement or information and fabricated/invalid documents is detected before or after the issue of order to execute the supplies.

20. Packing:
The equipment & accessories shall be securely boxed, crated and protected from mechanical damage, moisture etc. suitable for both storage and transit according to the nature of the material and mode of transport. The bidder shall be responsible for any loss/ damage to material during transportation to the designated location.

21. Delivery Time:
The bidder shall indicate the period within which the ordered quantity will be supply, installation and commissioning. Further, shall be noted that in case bidder fails to supply, installation and commissioning within the period of delivery indicated by the bidder in technical bid of this tender, penalty @1% of value of the order per week of delay would be levied subject to maximum 2 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 2 weeks after expiry of scheduled delivery date. Beyond that EMD shall be forfeited and Secretary, PNGRB New Delhi reserves full rights to cancel the supply order and debar the bidder from participation in any future tenders, including asking for the compensation of financial loss that occurred.

22. Payment:
   a) The payment of total bill will be made by the purchaser in two parts through account payee cheque/RTGS/NEFT, 90% after supply, installation and commissioning of the complete equipment and 10% after completing one year of installation and commissioning of equipment.

   b) The details about the designated official, who is authorized to take the delivery of equipment(s) shall be informed to the successful bidder through the order placed for the supply, installation and commissioning of equipment(s).

23. Causes of Rejection of Tender:
   a) Then bidder should quote for all the equipment mentioned in Annexure-A, quoting for partial equipment is liable to be rejected.

   b) While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected.

   b) If any Bidder stipulates any condition of his own, such conditional tender is liable to be rejected.
24. **Claims:**

a) If the material supplied are found to be off size and shape different than those in the accepted offer and are of specifications lower than those stipulated in the accepted offer, the purchaser shall have right to totally reject the equipment and/or to claim for compensation from bidder. The bidder shall reimburse to purchaser, the claim lodged in writing within 15 (fifteen) days of its demand. The bidder shall also compensate for losses, if any, sustained by purchaser due to defective packing and/or wrong marking of the equipment.

b) The bidder shall be responsible for arranging the rejected equipment to be removed at his cost from purchaser premises.

25. **Address for communication:**

All the communication with respect to the tender shall be addressed to:

Secretary,
PNGRB, 1st Floor,
World Trade Centre, Babar Road,
New Delhi-110001

26. **Force Majeure:**

In the event of any unforeseen circumstances directly interfering with the supply of goods/work/service arising during the execution of order such as war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, floods, earthquakes, explosions, epidemics, quarantine restrictions, strikes, lockouts, or acts of God, the Bidder shall, within a week from the commencement thereof, notify the same in writing to the Purchaser with reasonable evidence thereof. Either party shall have the option to terminate the contract on expiry of 30 days of commencement of such force majeure by giving 14 days “notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other.

27. **Code of Ethics:**

The Purchaser as well as the Bidder shall observe the highest standard of ethics including laws against fraud and corruption in force in India namely “Prevention of Corruption Act 1988”, during the procurement or execution of such supply, installation and commissioning orders. If the bidders are found in Bid pooling or against law against fraud and corruption then their firms may be blacklisted.

28. **Jurisdiction:**

In the event of any dispute the legal matter shall be subjected to the jurisdiction of Delhi Court only.

*We confirm with our acceptance to the instructions (S.No-1 to 28 above) as given above.*

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**BIDDER’S NAME & SIGNATURE WITH SEAL**

_These duly signed “Terms & Conditions of the Tender” shall be attached with technical bid of the tender as a mark of acceptance of bidder and any tender not confirming these terms & conditions is liable to be rejected._
# Details of Requirements and Technical Specifications of Equipment

Name of the Equipment: **WI-FI Equipment & Accessories**

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<th>Sl. No</th>
<th>Name of the Equipment and Specifications</th>
<th>Quantity (in Nos.)</th>
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| 1      | **24 port POE Switch with applicable accessories**  
- The access switch should be configured to provide Wire-Speed Non-Blocking Switching and Routing Performance at Layer 2 and Layer 3 on all ports.  
- The Switch should have min. 24 ports of 10/100/1000 BaseT  
- The Access Switch should have 2 ports of 10G SFP+ for uplink to Core  
- The Access Switch should have min 2 ports of 10G SFP+ from day-1 for stacking  
- Switch Should Have option for Redundant power Supply  
- The Access Switch should provide Non- Blocking switch fabric capacity of 128 Gbps or more.  
- The Switch should provide wire-speed packet forwarding of 95 Mpps or more for IPv4 and IPv6.  
- The Access Switch should support 4 switches in the stack  
- The Access Switch should support min 16K MAC addresses and min 4000 active VLANs.  
- "The access Switch should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS andIGMPv1/v2/v3 from day 1."
- The Access Switch should support basic Layer 3 features like static routing, RIPv1/v2 and VRRP from day 1.  
- OEM for Active components should be present in Gartner 2017 report for wired and wireless LAN in Leaders/Challengers/visionary/ NICHE in Magic quadrant or present in Gartner 2017 report for wired and wireless LAN  
- The Access Switch should support Openflow /netflow/Sflow/jflowprogrammable interface for SDN  
- Switch Should Support IPV4 and IPV6 from day one.  
- Access switch should Support for IEEE 802.3af as well as IEEE 802.3at-compliant PoE  
- Access switch should have 370W of POE Power Budget  
- The access switch should support Energy efficient Ethernet IEEE 802.3az (Hardwareready) | 1 |
| 2      | **Dlink 24 port Patch Panel** | 1 |
| 3      | **Wireless Controller with mounting accessories & applicable licenses.**  
- Must be compliant with CAPWAP or equivalent for controller-based WLANs.  
- WLAN Management device must be hardware controller and should support upto 150 Access points and should have all Licenses from day 1 as per requirement in this tender | 1 |
• Controller must be work on Distributed Network base and in case of centralized network it should be non-blocking.
• Controller should support 802.11a/b/g/n and 802.11ac Wave 1 & 2 Standards or higher from day 1
• Controller must support IPV4 and IPV6 from day 1
• Controller must Auto approve APs across Network
• Controller must support auto AP Discovery and provisioning and auto IP assignment.
• Controller AP should be able to scan for rogue access points and Software controller/hardware controller/cloud controller should be able to locate them on a Floor map and be able to send a notification to the administrator when a rogue AP has been detected.
• AP Cluster Management/grouping
• Device must have AP status and wireless client monitoring.
• Device must have the feature for wireless traffic and usages statistics for monitoring from day 1.
• Device must have the feature for AP Radio settings, device name editing and remote rebooting from day 1.
• Device should support fast roaming, fast handover, traffic shaping and band steering
• Device should have option of Guest Networks and client limiting per AP.
• Device must have minimum 8 SSID for VLANs.
• Must support RF Management with 20/40/80 MHz channels with 802.11a/b/g/n and 802.11 ac standards from the day 1.
• Device should support Rapid Spanning tree, CoS based on 802.1p priority, physical port, DHCP and 802.1X port based Access control.
• Device should support Access control list and Attack prevention.
• OEM for controller should be present in Gartner 2017 report for wired and wireless LAN in Leaders/Challengers/visionary/ NICHE in Magic quadrant or present in Gartner 2017 report for wired and wireless LAN
• Device Should support Secure control messaging and SSL certificate.
• Wireless Security (WEP, WPA / WPA2, Enterprise, WPA-PSK / WPA2-PSK)
• Device should have feature to provide unique PSK credential to each user or device for authentication and proper storage within the appliance
• Must be able to set a maximum per-user bandwidth limit on a per-SSID basis.
• Must support user load balancing across Access Points.
• Device should support Bulk Firmware upgrade.
• Device should support Unified configuration import and export.
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<th>Tender Ref. No.: PNGRB/IT/WI-FI EQUIPMENT/2018/01</th>
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<td><strong>Device should support intelligent diagnostics.</strong></td>
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<td><strong>Device should support WEB User Interface Support non-IE Browsers as Chrome, Safari and Firefox</strong></td>
</tr>
<tr>
<td><strong>Device should support separate Guest SSID</strong></td>
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### Access Points with mounting accessories & applicable licenses.
- Dual Band Wireless Managed Indoor Access Point. Access Point must have Gigabit LAN port with 802.3af/at PoE Power support.
- Access Points must include radios for both 2.4 GHz and 5 GHz from day 1
- Must include dual band MIMO antennas to support both the 2.4GHz and 5GHz operations simultaneously.
- Access Point Should Be 802.11 a/b/g/n and 802.11ac wave 2 standards
- Must support minimum data rates of 300 Mbps on 2.4 GHz (as per 802.11n standard) & max data rates 1733 Gbps on 5 GHz (as per 802.11ac Wave or higher as per standards) with backward compatibility.
- Must support 4x4 multiple-input multiple-output (MIMO) with 4 spatial streams.
- Must support maximum 28dbm of transmit power
- Device should support fast roaming and fast handover option.
- Device should support Client limits per AP and band steering.
- OEM for Active components should be present in Gartner 2017 report for wired and wireless LAN in Leaders/Challengers/visionary/ NICHE in Magic quadrant or present in Gartner 2017 report for wired and wireless LAN
- Guest Network and Client Status supported.
- WEP/WPA/WPA2 Wireless encryption support.
- MAC Address filtering and client isolation support.
- Should Support PMKSA for Mobility.
- Effective and flexible bandwidth management support
- Must support Controller-based and standalone (autonomous) deployments
- Must support Controller less deployment mode
- Device must support IPV4 and IPV6 from day 1
- Device must support PING Test, Trace route test and speed test.
- Must support minimum 8 WLANs per AP for SSID deployment flexibility.
- Must support telnet/SSH/HTTP/SNMP/CLI
- shall have the support of 802.11e and WMM
- Should support Email alerts and syslog
- Minimum 50 clients support by each AP.
- Must support Power over Ethernet, PoE Kit and OEM mounting kit.
- Access Point must be having integrated internal or
Tender Ref. No.: PNGRB/IT/WI-FI EQUIPMENT/2018/01

- Device should be support separate SSID for each band for Guest purpose with different subnet IP facility via VLAN
- Device should be ceiling or wall mounts with Kensington security lock option.
- Must should be certified by WiFi Alliance/UL 2043/WEEE
- Must support Dynamic per-user or per-WLAN rate limiting

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<th>S.No.</th>
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<th>Quantity</th>
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<tr>
<td>5</td>
<td>Dlink CAT6 I/O</td>
<td>8</td>
</tr>
<tr>
<td>6</td>
<td>Dlink CAT6 Face Plate</td>
<td>8</td>
</tr>
<tr>
<td>7</td>
<td>ISI mark Gang Box</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>Dlink Cat6 Patch Cord 2 mtr. (user end)</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>Dlink Cat6 Patch Cord 1 mtr.(switch end)</td>
<td>8</td>
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<tr>
<td>10</td>
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<td>Service cost for WLAN implementation, Rack fitting, installation &amp; dressing, Cat6 laying with pipe/conduit, Patch_panel punching &amp; testing (both user &amp; switch side) with 1 year support</td>
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**Note:** All equipment should be compatible with 220 V Single Phase, 50 Hz supply. Electrical wiring for interconnection of the equipments up to main supply wherever necessary should be supplied along with equipment.
To,
Secretary
PNGRB, 1st Floor,
World Trade Centre, Babar Road,
New Delhi-110001

Madam,


Dear Madam,

HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS
1. Notice Inviting Tender
2. Terms and Conditions
3. Technical Specifications of equipment (Annexure-A)
4. Annexure – C (Technical Bid)
5. Annexure – D (Commercial Bid)

I/We …………………………………..do hereby submit the above tender in prescribed formats duly completed in all respects in accordance with the conditions applicable. If this tender is accepted, I/We agree to abide by and fulfill all the terms and conditions in the tender documents

I/We hereby distinctly and expressly declare and acknowledge that before the submission of this tender, I/We have carefully followed the instructions and I/We have understood the existing system of supply, installation and commissioning at the location of purchaser including the scope and nature of duties expected from the Bidder.

I/We distinctly agree that I /We would hereafter make no claim or demand upon the purchaser based upon or arising out of any alleged misunderstanding or misconceptions or mistake on my/our part of the said stipulations, restrictions and conditions.

I/ We declare that our unit has never made any default in supply, installation and commissioning the equipment to Government / Semi Government/ Central or State Public sector enterprise(s) in terms of quality and financial agreed supply conditions.

I/We declare that..................company has been regular in supplying & Installing /manufacturing, supplying, installing and commissioning the equipment quoted from last ...... number of years.

I/ We shall provide services during the warranty period towards the repairing or replacing of any faulty equipment reported. The fault shall be attended by our engineers within one working day of reporting.

Any notice required to be served on me/us shall be sufficiently served on me/us by post (registered or ordinary) or courier or left at my/our address furnished herein..................

I/We fully understand the terms and conditions in the tender documents.
I/We understood that the purchaser is not bound to accept any proposal that it may receive without assigning any reason.

Dated this........................day of......................2018

Authorized Signatory with Seal
1. **Tender Ref. No:** PNGRB/IT/WI-FI EQUIPMENT/2018/01

2. **Name of Bidder:** .................................................................

3. **Complete office address of Bidder:** ...........................................

4. Name of Authorized Person to be contacted regarding bid:..............................

5. **Email Id:**.......................

6. **Landline Phone No:**..............................

7. **Mobile Phone No:**..............................

8. **Website:**..............................

9. **GSTIN No:**..............................

10. **PAN No:**..............................

11. **Warranty:**..............................

12. **Contact details for After Sales Services:** Address..............................

   Mobile No..............................E-mail ID:.......................

13. **Validity of Commercial Bid (Minimum 30 Days):**

14. **Tender fee payment details**

   Details of DD by which tender fee Paid..............................................................

15. **EMD payment details**

   Details of DD by which EMD paid

   ..............................................................................................................................

   The EMD of Rs. 25,000/- (Rupees Twenty Five Thousand Only) shall be submitted.
16. **Technical Specifications for the supply, installation and commissioning of Equipment and Accessories to be indicated with Brand Name & Model Number:**

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Equipment and Specification</th>
<th>Brand Name &amp; Model Number</th>
<th>Acceptance for All (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24 port POE Switch with applicable accessories</td>
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- The access switch should be configured to provide Wire-Speed Non-Blocking Switching and Routing Performance at Layer 2 and Layer 3 on all ports.
- The Switch should have min. 24 ports of 10/100/1000 BaseT
- The Access Switch should have 2 ports of 10G SFP+ for uplink to Core
- The Access Switch should have min 2 ports of 10G SFP+ from day-1 for stacking
- Switch Should Have option for Redundant power Supply
- The Access Switch should provide Non- Blocking switch fabric capacity of 128 Gbps or more.
- The Switch should provide wire-speed packet forwarding of 95 Mpps or more for IPv4 and IPv6.
- The Access Switch should support 4 switches in the stack
- The Access Switch should support min 16K MAC addresses and min 4000 active VLANs.
- "The access Switch should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2/v3 from day 1."
- The Access Switch should support basic Layer 3 features like static routing, RIPv1/v2 and VRRP from day 1.
- OEM for Active components should be present in Gartner 2017 report for wired and wireless LAN in Leaders/Challengers/visionary/ NICHE in Magic quadrant or present in Gartner 2017 report for wired and wireless LAN
- The Access Switch should support Openflow /netflow/Sflow/jflow programmable
interface for SDN
- Switch Should Support IPV4 and IPV6 from day one.
- Access switch should Support for IEEE 802.3af as well as IEEE 802.3at-compliant PoE
- Access switch should have 370W of POE Power Budget

The access switch should support Energy efficient Ethernet IEEE 802.3az (Hardware ready)

2  **Dlink 24 port Patch Panel**

3  **Wireless Controller with mounting accessories & applicable licenses.**
- Must be compliant with CAPWAP or equivalent for controller-based WLANs.
- WLAN Management device must be hardware controller and should support upto 150 Access points and should have all Licenses from day 1 as per requirement in this tender
- Controller must be work on Distributed Network base and in case of centralized network it should be non-blocking.
- Controller should support 802.11a/b/g/n and 802.11ac Wave 1 & 2 Standards or higher from day 1
- Controller must support IPV4 and IPV6 from day 1
- Controller must Auto approve APs across Network
- Controller must support auto AP discovery and provisioning and auto IP assignment.
- Controller AP should be able to scan for rogue access points and Software controller/hardware controller/cloud controller should be able to locate them on a Floor map and be able to send a notification to the administrator when a rogue AP has been detected.
- AP Cluster Management/grouping
- Device must have AP status and wireless client monitoring.
- Device must have the feature for wireless traffic and usages statistics for monitoring from day 1.
• Device must have the feature for AP Radio settings, device name editing and remote rebooting from day 1.
• Device should support fast roaming, fast handover, traffic shaping and band steering.
• Device should have option of Guest Networks and client limiting per AP.
• Device must have minimum 8 SSID for VLANs.
• Must support RF Management with 20/40/80 MHz channels with 802.11a/b/g/n and 802.11 ac standards from the day 1.
• Device should support Rapid Spanning tree, CoS based on 802.1p priority, physical port, DHCP and 802.1X port based Access control.
• Device should support Access control list and Attack prevention.
• OEM for controller should be present in Gartner 2017 report for wired and wireless LAN in Leaders/Challengers/visionary/NICHE in Magic quadrant or present in Gartner 2017 report for wired and wireless LAN.
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• Wireless Security (WEP, WPA/WPA2, Enterprise, WPA-PSK/WPA2-PSK)
• Device should have feature to provide unique PSK credential to each user or device for authentication and proper storage within the appliance.
• Must be able to set a maximum per-user bandwidth limit on a per-SSID basis.
• Must support user load balancing across Access Points.
• Device should support Bulk Firmware upgrade.
• Device should support Unified configuration import and export.
• Device should support intelligent diagnostics.
• Device should support WEB User Interface Support non-IE
<p>| |</p>
<table>
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<tr>
<td><strong>Tender Ref. No.: PNGRB/IT/WI-FI EQUIPMENT/2018/01</strong></td>
</tr>
<tr>
<td><strong>Browsers as Chrome, Safari and Firefox</strong></td>
</tr>
<tr>
<td><strong>Device should support separate Guest SSID</strong></td>
</tr>
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<td><strong>Access Points with mounting accessories &amp; applicable licenses.</strong></td>
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<td>• Dual Band Wireless Managed Indoor Access Point. Access Point must Have Gigabit LAN port with 802.3af/at PoE Power support.</td>
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<td>• Access Points must include radios for both 2.4 GHz and 5 GHz from day 1</td>
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<td>• Must include dual band MIMO antennas to support both the 2.4GHz and 5GHz operations simultaneously.</td>
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<td>• Access Point Should Be 802.11 a/b/g/n and 802.11ac wave 2 standards</td>
</tr>
<tr>
<td>• Must support minimum data rates of 300 Mbps on 2.4 GHz (as per 802.11n standard) &amp; max data rates 1733 Gbps on 5 GHz(as per 802.11ac Wave or higher as per standards) with backward compatibility.</td>
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<td>• Must support 4x4 multiple-input multiple-output (MIMO) with 4 spatial streams.</td>
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<td>• Must support maximum 28dbm of transmit power</td>
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<td>• Device should Support fast roaming and fast handover option.</td>
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<td>• Device should support Client limits per AP and band steering.</td>
</tr>
<tr>
<td>• OEM for Active components should be present in Gartner 2017 report for wired and wireless LAN in Leaders/Challengers/visionary/NICHE in Magic quadrant or present in Gartner 2017 report for wired and wireless LAN</td>
</tr>
<tr>
<td>• Guest Network and Client Status supported.</td>
</tr>
<tr>
<td>• WEP/WPA/WPA2 Wireless encryption support.</td>
</tr>
<tr>
<td>• MAC Address filtering and client isolation support.</td>
</tr>
<tr>
<td>• Should Support PMKSA for Mobility.</td>
</tr>
<tr>
<td>• Effective and flexible bandwidth management support</td>
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</table>
- Must support Controller-based and standalone (autonomous) deployments
- Must support Controller less deployment mode
- Device must support IPV4 and IPV6 from day 1
- Device must support PING Test, Trace route test and speed test.
- Must support minimum 8 WLANs per AP for SSID deployment flexibility.
- Must support telnet/SSH/HTTP/SNMP/CLI
- shall have the support of 802.11e and WMM
- Should support Email alerts and syslog
- Minimum 50 clients support by each AP.
- Must support Power over Ethernet, PoE Kit and OEM mounting kit.
- Access Point must be having integrated internal or external antenna
- Device should be support separate SSID for each band for Guest purpose with different subnet IP facility via VLAN
- Device should be ceiling or wall mounts with Kensington security lock option.
- Must should be certified by WiFi Alliance/UL 2043/WEEE
- Must support Dynamic per-user or per-WLAN rate limiting

| 5   | Dlink CAT6 I/O            |
| 6   | Dlink CAT6 Face Plate     |
| 7   | ISI mark Gang Box        |
| 8   | Dlink Cat6 Patch Cord 2 mtr. (user end) |
| 9   | Dlink Cat6 Patch Cord 1 mtr.(switch end) |
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| 12  | Conduit/Casing caping (As per actual) |
| 13  | Service cost for WLAN implementation, Rack fitting, installation & dressing, Cat6 laying with pipe/conduit, Patch_panel punching & testing (both |
17. **Delivery period after receipt of order from purchaser:** The purchaser is interested for complete delivery, installation and commissioning of equipment by the bidder within fifteen (15) calendar days from the date of issue of order.

18. **Details of address with contact details from where the bidder planned to offer After Sales Services during the Warranty & after warranty Maintenance period:**

<table>
<thead>
<tr>
<th>#</th>
<th>Location</th>
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<tbody>
<tr>
<td>New Delhi</td>
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</tbody>
</table>

Details of address of bidder for rendering After Sales Services

19. **Details of address with contact details for at least three (03) purchaser to whom the bidder supplied, installed and commissioned similar equipment in the last three (03) years and equipment shall be in operations to the satisfaction of buyer for the last three (03) years:** The format for submission of details for at least three purchaser are as under: (the bidder can furnish details of even more than three purchaser)

   a. Address of Purchaser with contact details (email and phone no.): ...............
   b. Details of order for supply placed to bidder: ...........................................
   c. Description and quantity of ordered equipment: .......................................  
   d. Value of order in rupees: .................................................................
   e. Date of completion of delivery: ..........................................................

*(The purchaser shall have liberty to contact any or all of purchaser to assess the performance of equipment supplied by bidder)*

20. I/We as bidder agree that:

   a. If our bid is accepted, we shall supply, installation and commissioning each equipment & accessories in compliance to specifications and quantity defined in Annexure-A without any deviation.
   b. The tender shall remain valid for acceptance for 30 days from the date of opening the Technical Bid of the tender.
   c. Agree to offer services for onsite comprehensive warranty on the equipment supplied through this tender.
   d. No price of any Equipment/ Accessories shall be given in Technical Bid.
e. Submitting of documents as per Annexure – “E”.

Name & Signature of the authorized bidder with stamp
Contact details of authorized person of bidder who have signed the tender.

Name.................................................................
Designation.....................................................
Phone  (office)....................................................
Phone (Mobile)...............................................  
E mail...............................................................
FORMAT FOR SUBMISSION OF COMMERCIAL BID

1. Tender Ref. No: PNGRB/IT/WI-FI EQUIPMENT/2018/01

2. Name of the Bidder: ................................................

3. The financial offer to execute the supply, installation and commissioning of Equipment as per the tender to PNGRB, New Delhi:

<table>
<thead>
<tr>
<th>#</th>
<th>Details</th>
<th>Quantity to be supplied (In No.)</th>
<th>Price per unit of Equipment (In Rs.)*</th>
<th>GST Rate (%)</th>
<th>GST Value (In Rs.)</th>
<th>Unit Price of Equipment with GST (C+E)(in Rs.)</th>
<th>Total Price of Equipment (Multiply B and F)(i.e., Landed Price)(In Rs.)**</th>
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<td>1</td>
<td>24 port POE Switch with applicable accessories</td>
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</tr>
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- Must support user load balancing across Access Points.
- Device should support Bulk Firmware upgrade.
- Device should support Unified configuration import and export.
- Device should support intelligent diagnostics.
- Device should support WEB User Interface Support non-IE Browsers as Chrome, Safari and Firefox
- Device should support separate Guest SSID

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- Minimum 50 clients support by each AP.
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<tr>
<td>S.No.</td>
<td>Description</td>
<td>Quant.</td>
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<tr>
<td>9</td>
<td>Dlink Cat6 Patch Cord 1 mtr. (switch end)</td>
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<tr>
<td>14</td>
<td>Grand Total Price for All Equipment for the supply, installation and commissioning of quantity as detailed above (In Rs.)</td>
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</table>

Grand Total Price for All Equipment for the supply of quantity as detailed above (In Rs.) in Words

................................................................................................................................................................
................................................................................................................................................................
*Price per unit of Equipment inclusive of Basic Price, Transportation, Incidental Services like Insurance, Loading/Unloading, Packing & Forwarding charges etc.,

**Note: The Grand Total Price (indicated in Row 16 above i.e., Total Landed price inclusive of GST) shall be considered, while selecting the Party on Lowest Offered Price.

The following points to be noted while submitting financial details for the supply, installation and commissioning of equipment to the individual location:

a. The Purchaser shall compare the “Grand Total Price for all Equipment” of all the qualified bids to determine the lowest bid/bids for the supply, installation and commissioning of equipment at the designated site.

I/We as bidder certify that:

a. Agree to offer services for onsite comprehensive warranty on the equipment supplied through this tender.

b. Agree that the offer price is valid for a period of 30 days from the date of opening of technical bid of this tender. No request for escalation on the price shall be entertained during this period.

Further confirm that we agree with the terms and conditions specified in this Tender and if selected, the execution of supply, installation and commissioning would be made in compliance.

Name & Signature of the authorized bidder with stamp
Contact details of authorized person of bidder who have signed the tender.

Name.............................................................................

Designation....................................................................

Phone (office)..............................................................

Phone (Mobile).........................................................

E mail............................................................................
Check List

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Activity</th>
<th>Yes/No/NA</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Have you enclosed EMD of required amount for the quoted item?</td>
<td></td>
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<tr>
<td>2</td>
<td>Have you submitted end user certificate?</td>
<td></td>
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<tr>
<td>3</td>
<td>Have you submitted manufacturer’s (OEM) authorization certificate?</td>
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<tr>
<td>4</td>
<td>Have you enclosed equipment catalogue, leaflet, and brochure with full details of quoted equipment?</td>
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<tr>
<td>5</td>
<td>Have you fully accepted payment terms as per Tender document?</td>
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<tr>
<td>6</td>
<td>Have you fully accepted delivery period as per Tender document?</td>
<td></td>
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<tr>
<td>7</td>
<td>Have you accepted the warranty terms as per Tender document?</td>
<td></td>
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<tr>
<td>8</td>
<td>Have you accepted all terms and conditions of Tender document?</td>
<td></td>
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<tr>
<td>9</td>
<td>Have you submitted PAN Card self attested copy?</td>
<td></td>
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<tr>
<td>10</td>
<td>Have you submitted GST registration self attested copy?</td>
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<tr>
<td>11</td>
<td>Have you submitted address with contact details of purchaser to whom the bidder supplied, installed and commissioned similar equipment in last three years?</td>
<td></td>
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<tr>
<td>12</td>
<td>Have you submitted Undertaking as per annexure-B on Company’s Letter head?</td>
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</tr>
<tr>
<td>13</td>
<td>Have you submitted duly signed all pages of “Terms &amp; Conditions” of the tender document as a mark of acceptance?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>