

Corrigendum – I

Amendments/Clarifications against the tender no. EI-D/Tech/55-48/15 dated 21.11.2015 for supply, Installation, commissioning & Integration of Goods/equipment/services for Wi-Fi enabled Campus Network & other IT infrastructure.

| SR. No. | Tender Clause No.          | Existing tender clause   | Aspiring Bidder's Query  | ERNET Response to Queries |
|---------|----------------------------|--|--|---------------------------|
| 1       | 5. Eligibility Criteria a) | i) The bidder should have ISO 9001:2008 or equivalent, ISO 27001 or equivalent & ISO 20000 or equivalent or better quality certification against each of them. Supporting relevant documentary proof should be enclosed.   | Request you to accept any one of ISO 9001, 27001 and 20000 certification. Please confirm   | No Change.                |
| a       |                            | iii) The bidder must enclose relevant copies of the customer purchase orders, scope of work, deliverables, time period of execution, project value and satisfactory work completion certificate from client for at-least One similar project of minimum Rs. 8 Cr. in single order executed in last five financial years for any Government Institutes/University/Organizations/PSU or Two similar projects of minimum Rs. 5 Cr.in each order executed in last five financial years for any Government/Institutes/University/Organizations/ PSU or Three similar projects of minimum Rs.4Cr. in each order executed in last five financial years for any Government/Institutes/University/Organizations/ PSU. Similar project means IT projects including LAN/WAN/CAN/wireless/IT security. | Please change it to "The bidder must enclose relevant copies of the customer purchase orders, scope of work, deliverables, time period of execution, project value and satisfactory work completion certificate from client for at-least One similar project of minimum Rs. 8 Cr.in single order executed in last five financial years for any Government Institutes/University/Organizations/PSU/ Private organisation or Two similar projects of minimum Rs. 5 Cr. in each order executed in last five financial years for any Government Institutes/University/Organizations/PSU/ Private organisation or Three similar projects of minimum Rs. 4Cr. in each order executed in last five financial years for any Government Institutes/University/Organizations/PSU. Similar project means IT projects including LAN/WAN/CAN/wireless/IT security." | No Change.                |
| b       |                            | v) The bidder must enclose a copy of at least one LAN/network work order having minimum of 10Kms of Fibre optical cable with at least 500 Fibre Terminations and 500 UTP nodes in any of the last five financial years for any Govt. educational institutes / University / Govt. entity / PSU.   | Request you to consider the experience criteria in Eligibility Criteria (a - iii) above only and remove this criteria.   | No Change.                |

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| c |  |   | Please change it to "The bidder must enclose a copy of at least one LAN/network work order having minimum of 2Kms of Fibre optical cable with at least 500 Fibre Terminations and 500 UTP nodes in any of the last five financial years for any Govt. educational institutes / University / Govt. entity / PSU/ Private organisation"  | No Change. |
| d |  | vi) The bidder must enclose a copy of at least one LAN/network work order having 500 ports on data network switches and at least one chassis based layer 3 switch in a single order in any of the last five financial years for any Govt.Institute/University/Govt. entity/PSU.   | Please change it to "The bidder must enclose a copy of at least one LAN/network work order having 500 ports on data network switches and at least one chassis based layer 3 switch in a single order in any of the last five financial years for any Govt. Institute/University/Govt. entity/PSU / Private organisation"   | No Change. |
| e |  | ix) The bidder should have annual average turnover of Rs. 100 Crores in below mentioned three financial years with minimum annual turnover of Rs. 75 Crores in each of these years. The Bidder should be profit making company in last three years with positive net worth. Attested audited copies of the bidders' annual reports for the years 2012-13, 2013-14 and 2014-15 have to be attached along with a certificate from a practicing Chartered Accountant on his letter head confirming annual turnover, net profit, positive net worth & average annual turnover during these years. | ITI Limited, Which has been in the forefront of telecom manufacturing and Implementation of Wi Fi solutions has turnover of more than 800 Crore for last ten Financial years.We have implemented various turnkey projects for premier education and research institutions and Army in the country. This may please be noted that while addressing the tenders for this type of projects from BSNL, MTNL, Defence and State Govts, we have been exempted from profitability clause. CVC's guidelines supporting exemption for PSU's on this regard is also enclosed herewith. In view of the above ITI may please be exempted from profitability clause to enable us to participate in the bid. | No Change. |

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| f |  |  | <p>Profitability of reputed corporates/PSUs/Govt. promoted companies keep varying as it is directly related to the investment made by the Corporate/Government in particular year. Hence it may be negative in some year and positive in another. Practically its not the correct indicator for evaluating financial capability of big corporates having more than 100 Crs. turnover. This clause may limit the participation of many reputed Government PSUs/NGOs/Govt. promoted companies who work on competitive prices, PPP/BOOT models and have expertise/credentials for such rate contract based government works. Also 'Profit making' is not standard eligibility clause/limitation in Government tenders. Clause should be amended to "The bidder should have positive net worth in last 3 years". Bank credit limit/Solvency certificate may be asked additionally, if required.</p> | <p>Please refer above response given at Sr. No. 1 (e).</p> |
| g |  |  | <p>The bidder should have annual average turnover of Rs. 100 Crores in below mentioned three financial years with minimum annual turnover of Rs. 75 Crores in each of these years. The Bidder should have positive net worth. Attested audited copies of the bidders' annual reports for the years 2012-13, 2013-14 and 2014-15 have to be attached along with a certificate from a practicing Chartered Accountant on his letter head confirming annual turnover, positive net worth &amp; average annual turnover during these years. Kindly remove net profit clause from eligibility criteria</p>   | <p>Please refer above response given at Sr. No. 1 (e).</p> |

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| h |                            |  | Request ERNET to consider credentials of bidder's parent entity (subject to bidder being 100% subsidiary of the aforementioned parent entity)  | Please refer above response given at Sr. No. 1 (e).      |
| i |                            | xi) The bidder should have an office in the Delhi state/ NCR with support centers manned with their own qualified engineers across India with a Toll Free number.  | Please allow a list of bidder's own or third party support centres and manpower  | No Change.   |
| j |                            | xiii) The Bidder should have a country wide support infrastructure. The Resident Engineer & Project Manager as asked in the tender should be on direct role of the bidder and should be employed by the bidder in compliance with relevant Govt. acts of employment fulfilling statutory obligations including but not limited to provident fund, ESI, etc. An undertaking to this effect should be submitted by the Bidder. | Please allow Project Manager to be on the payroll of the bidder/bidder's parent company. Also, please allow third party provided resident engineer.  | No Change.   |
| 2 | 5. Eligibility Criteria b) | i) OEMs whose products have been offered in the bid shall have Technical Assistance Centre(TAC) and shall have Toll Free Number for TAC to support the equipment. OEM(s) should have direct presence with their own office in India manned with their own engineers for minimum of last 5 years. Relevant documentary proof should be submitted.   | Please clarify that OEM should have TAC in INDIA.<br>TAC support center/After Sales support based out of INDIA + OEM stability will showcase about the seriousness of the OEM about Indian subcontinent business and support requirements. Please confirm the same.<br>OEMs whose products have been offered in the bid shall have Technical Assistance Centre(TAC) in INDIA and shall have Toll Free Number for TAC to support the equipment. | No. Change. It is clarified that TAC should be in India. |

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| a |  | <p>ii) The OEM(s) of data switching &amp; Wireless LAN equipment being quoted/offered in the tender should have an installed base in India and should have atleast two installations of its data network switching(with minimum 2000 ports on data network switches and at least one chassis based layer 3 switch) &amp; and Wireless (minimum 100 Access Points with Wireless LAN Controller) in Government department/organization/university in India. Relevant documentary proof should be submitted. OEM for WLAN equipment should have installed base of atleast 5000 Wifi access points in India. Relevant Documentary proof should be submitted. OEM of passive components should have atleast two installations with 10KM fiber optic cable with atleast 500 fiber terminations and 500 UTP nodes. Relevant documentary proofs should be submitted.</p> | <p>Request to amend that: OEM for WLAN equipment should have installed base of atleast 1000 Wifi access points in India.</p>  | <p>No Change.</p> |
| b |  |  | <p>5000 Wifi access point installation count is too high for Indian Installations. This will limit the participation of many reputed Wifi OEMs dealing in educational/ Institutional sector and will favor non reputed OEMs having commercial/retail business. Clause should be amended to "Atleast 1000 Wifi access point installation in India OR 5000 Wifi access point installations globally."</p> | <p>No Change.</p> |
| c |  | <p>iv) OEM should authorize maximum of TWO bidders only. The Bids received with a single OEM from more than two bidders would lead to rejection of all bids of that particular OEM. An Undertaking from OEM to this effect should be submitted.</p>  | <p>This clause is limiting the OEM participation across multiple bidders. Due to this clause, technically qualified &amp; financially viable OEM solution would not be bid by the System Integrators, which will further impact the overall project in terms of commercials and participation. Hence we would request ERNET to kindly delte this clause.<br/>REMOVE THIS CLAUSE</p>                     | <p>No Change.</p> |

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| 3 | 20. Earnest Money Deposit | i) Each bid must be accompanied by Earnest Money Deposit(EMD) of Rs.30,00,000/- (Rupees Thirty Lakhs only) shall be in the form of Demand Draft/Pay Order/EM Fixed deposit/Bank Guarantee of any Nationalized/Scheduled commercial Bank taken in the name of ERNET India, New Delhi. Bank Guarantee should be valid minimum for a period of 225 days from due date of the bid & be submitted as per the enclosed Performa. Bids received without Earnest Money Deposit are liable to be rejected. | Request you to reduce the EMD value to INR 5 Lakhs and reduce the validity of EMD to 90 days. | No Change. |
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| 4 | 21. Payment Terms | <p>In case of any discrepancy between rates mentioned in figures and words, the later shall prevail. The payment for Items quoted in US\$ would be released through irrevocable Letter of Credit(LC) after acceptance of the Purchase Order by the firm and subject to submission of Proforma Invoice and a Performance Security in conformity with Clause 24 below. Payment in respect of rupee value components, 80% payment shall be made by ERNET India after delivery and satisfactory completion of installation, commissioning, testing and acceptance of the equipment as well as receipt of pre-receipted bill in duplicate. 20% payment would be released after expiry of the warranty period or 100% on satisfactory completion of installation, commissioning, testing and acceptance of the equipment if the firm had submitted the Performance Bank Guarantee of the amount equivalent to 20% as defined in clause 24(ii) below, which should be valid for the period of warranty as well as receipt of pre-receipted bill in triplicate. For Passive Components: The payments for passive components will be made as per actual supplied/installed/consumed quantities/items within the overall purchase order(PO) value of Passive components. In case, there is variation of upto 2% of PO value then no extra payment will be made. In case variation is expected to exceed 2% then a written communication in this regard need to be send for prior approval of Competent Authority. The eligible payments will be released to the bidders subject to the receipt of the funds from customer institutes/organizations/departments, etc.</p> | <p>This payment term will not be acceptable to us. Please ammend this to 80% payment on delivery and 20 percent payment after installation. And no separate BG should be required for the payment. Please ammend this clause.</p> | <p>No Change.</p> |
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| a |                                    |  | For rupee bids of any component & services, request you to change the payment terms to 90% on delivery & installation & 10% against PBG   | No Change. |
| b |                                    |  | Payment in respect of rupee value components, 80% payment shall be made by ERNET India after delivery as well as receipt of pre-receipted bill in duplicate. 20% satisfactory completion of installation, commissioning, testing and acceptance of the equipment on submission of Performance Bank Guarantee of the amount equivalent to 20%. Since INR component will also be sizeable kindly amend the payment terms  | No Change. |
| 5 | 23A. Service Level Agreement (SLA) | After commissioning & acceptance, during warranty & AMC, the bidder(s) shall be responsible for the uptime of the equipment and shall conform with a SLA of maintaining the setup for 99.5% uptime on 24x7 basis. The uptime will be calculated over a twelve (12) month time frame. The permissible downtime of 0.5% will further be subject to maximum downtime of 24 hours at a stretch at any instance. In case the same exceeds 24 hours at a stretch then penalty clause at Clause 23B below will be enforced. The same penalty clause will also be enforced in case the downtime exceeds the permissible total downtime as stated above in this clause. | Request modification of clause as follows :<br>After commissioning & acceptance, during warranty & AMC, the bidder(s) shall be responsible for the uptime of the equipment and shall conform with a SLA of maintaining the setup for 98% uptime on 24x7 basis. The uptime will be calculated over a twelve (12) month time frame. The permissible downtime of 2% will further be subject to maximum downtime of 24 hours at a stretch at any instance. In case the same exceeds 24 hours at a stretch then penalty clause at Clause 23B below will be enforced. The same penalty clause will also be enforced in case the downtime exceeds the permissible total downtime as stated above in this clause. | No Change. |

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| a |  |  | As the deployment for rate contracted items can be in all over India hence we request to have SLA segregation based on Following :<br>1) Class A cities : 24 Hours<br>2) Class B Cities :24 Hours<br>3) Class C & D Cities : 72 Hours<br>4) States in North East : 96 hours<br>5) Andaman & lakshadweep Islands : 1 week | No Change. |
| b |  |  | Please merge all the SLA penalties to one.<br>Suggestion is:<br>Uptime should be 98%<br>For every 0.01% less uptime, penalty will be Rs. 1000/-  | No Change. |

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| 6 | 23B. Penalty clause for non conformance to above SLA | <p>i) For critical components namely Switch, Wireless Controller &amp; Authentication server: ERNET India/End user may deduct Rs. 2000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET India/End user may deduct Rs. 5000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts. For non-critical components namely Wireless Access Point: ERNET India/End user may deduct Rs. 500/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET India/End user may deduct Rs. 1000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts.</p> <p>ii) In any case, if the equipment is not made operational for 08 days from the time of reporting of fault, the Bank guarantee submitted by the bidder to ERNET India shall be invoked. Any payments (payable to bidder) shall not be paid too &amp; will be adjusted as penalty. This will be deemed to be an event of default and ERNET India may terminate the contract.</p> | <p>Request modification of clause as following:</p> <p>i) For critical components namely Switch, Wireless Controller &amp; Authentication server: ERNET India/End user may deduct Rs.500/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET India/End user may deduct Rs.1000/-from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts.</p> <p>For non-critical components namely Wireless Access Point: ERNET India/End user may deduct Rs. 100/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET India/End user may deduct Rs. 100/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts.</p> <p>ii) In any case, if the equipment is not made operational for 15 days from the time of reporting of fault, the Bank guarantee submitted by the bidder to ERNET India shall be invoked. Any payments (payable to bidder) shall not be paid too &amp; will be adjusted as penalty. This will be deemed to be an event of default and ERNET India may</p> | <p>This Clause may be read as "</p> <p>i) For critical components namely Switch, Wireless Controller &amp; Authentication server: ERNET India/End user may deduct Rs. 1000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET India/End user may deduct Rs. 3000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts. For non-critical components namely Wireless Access Point: ERNET India/End user may deduct Rs. 200/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET India/End user may deduct Rs. 500/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts.</p> <p>ii) In any case, if the equipment is not made operational for 08 days from the time of reporting of fault, the Bank guarantee submitted by the bidder to ERNET India shall be invoked. Any payments (payable to bidder) shall not be paid too &amp; will be adjusted as penalty. This will be deemed to be an event of default and ERNET India may terminate the contract.</p> |
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|   |  |  | terminate the contract                             |   |
| a |  |  | Request to Cap the penalty to 10 % of Device value | Please refer above response given at Sr. No. 6. |

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| 7 | 24. Performance Security | <p>i) For US Dollar Value Equipments/goods: In addition to Bank Guarantee(BG) required as per para 24(ii) below, the successful vendor would also submit Bank Guarantee of equivalent amount of Dollar Value Equipments valid for a period of six months before opening of LC within a period of 20 days from date of purchase order, otherwise, LD clause may be made applicable. ERNET may consider to release this BG after satisfactory delivery &amp; acceptance of equipment at end-user site/location. In case of successful installation, Competent Authority in ERNET India may consider to release the BG, in case there is a delay beyond 3 months in acceptance of equipment by the end-user without any fault on the part of the bidder.</p> <p>ii) The successful bidder shall submit a Performance Security of 20% of the cost of the purchase order within 15 days of the placement of purchase order. The Performance Security may be in the form of Demand Draft/Pay Order/Bank Guarantee of any nationalized/scheduled bank. The Bank Guarantee should be valid for a minimum period of 42 months extendable to cover warranty period. In case supplier fails to deliver the items within delivery period or provide satisfactory after sales service within the warranty period, the Performance Security submitted by the firm is liable to be forfeited. Performance Security shall be released immediately after the warranty is over. No interest will be payable by ERNET India on the Performance Security.</p> | Performance security is very high. Request you to reduce it to 10% on the cost of PO.   | No Change. |
| a |                          |   | For US dollar order the effective BG value would be 120% of the PO.<br>Request ERNET to reduce to 30% of PO value as the total BG value required to be submitted valid for six months | No Change. |

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| b |                     |   | Request ERNET to clarify each of the circumstances under which the BG might be invoked. | No Change. Please refer Tender Document. |
| c |                     |   | PBG should be 10% as per Govt/PSU bidding norms.  | No Change.                               |
| 8 | 25. Delivery Period | The Delivery is required within 8 weeks from the date of opening of LC/placement of the purchase order. Any delay by the supplier in the performance of delivery of items shall render the supplier liable to any or all of the following sanctions-forfeiture of its i) Earnest Money Deposit, ii) imposition of liquidated damage as per clause 26 below or/and iii) cancellation of the purchase order for default. Equipment/goods will be directly supplied at specified sites for installation. All the expenses involved in shipping the equipment to the ERNET India sites will be borne by the bidder. All aspects of safe delivery shall be the exclusive responsibility of the bidder. ERNET India will have the right to reject the component/equipments supplied, if it does not comply with the specifications at any point of installation/inspections. The installation shall be completed within three months from the date of delivery. | Request delivery period for 12 weeks for each Domestic and International Products       | No Change.                               |
| a |                     |   | Request to increase the delivery time from 8 weeks to 10 weeks.                         | No Change.                               |
| b |                     |   | Request you to give atleast 12 weeks for Delivery.                                      | No Change.                               |

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| 9 | 26. Liquidated Damages (LD) | In the event of the Bidder's failure to install & commission the system/items by the date/dates specified in this Purchase Order or extended period, ERNET India may at its discretion withhold any payment, as liquidated damages and not by way of penalty at the rate of 2.5% of the value of delayed item per week or a part of a week subject to a maximum of 20%. The amount towards Liquidated Damage would be recovered from the amount of Bank Guarantee as required vide clause 24 above or the amounts due to the bidder. The LD will be imposed only in case the delay is on part of the bidder. | Request ERNET to clarify timeline for Installation and Commissioning for each Domestic and International products LD is very high and not acceptable. Request you to amend this to "0.5% of the value of delayed item per week or a part of a week subject to a maximum of 5% of the value of the delayed item" | Please refer Clause no. 25 'Delivery Period ' of the tender document.No Change. |
| a |                             |  | Request you change LD to 0.5% per week max upto 10% as per Govt/PSU bidding norms.  | No Change.  |

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| 10 | 34. Indemnity | <p>The selected bidder shall indemnify the ERNET India/End-user departments against all third party claims of infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied items and related services or any part thereof. ERNET India/End-user department stand indemnified from any claims that the bidder's manpower may opt to have towards the discharge of their duties in the fulfillment of the purchase orders. ERNET India/End-user department also stand indemnified from any compensation arising out of accidental loss of life or injury sustained by the bidder's manpower while discharging their duty towards fulfillment of the rate contract and purchase orders. The bidder shall solely responsible for any damage, loss or injury which may occur to any property or to any person by or arising out the execution of the works or temporary works or in carrying out of the contract otherwise than due to the matters referred to in this agreement hereinbefore. The bidder would ensure for observance of all labor and other laws applicable in the matter and shall indemnify and keep indemnified the ERNET/its customers against the effect of nonobservance of any such laws.</p> | <p>Request modification of the clause as follows:<br/>The selected bidder shall indemnify the ERNET India/End-user departments against all direct and provden damages of third party claims of infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied items and related services or any part thereof. ERNET India/End-user department stand indemnified from any claims that the bidder's manpower may opt to have towards the discharge of their duties in the fulfillment of the purchase order. ERNET India/End-user department also stand indemnified from any compensation arising out of accidental loss of life or injury sustained by the bidder's manpower while discharging their duty towards fulfillment of the rate contract and purchase orders. The bidder shall solely responsible for any damage, loss or injury which may occur to any property or to any person by or arising out the execution of the works or temporary works or in carrying out of the contract otherwise than due to the matters referred to in this agreement hereinbefore. The bidder would ensure for observance of all labor and other laws applicable in the matter and shall indemnify and keep indemnified the ERNET/its customers against the effect of nonobservance of any such laws</p> | No Change. |
|----|---------------|--|---|------------|

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|    |                             |   |   |            |
|----|-----------------------------|---|---|------------|
| 11 | 36. Termination for Default | <p>i) Default is said to have occurred</p> <p>a. If the bidder fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by ERNET India.</p> <p>b. If the bidder fails to perform any other obligation(s) under the empanelment</p> <p>ii) If the bidder, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from ERNET India (or takes longer period in spite of what ERNET India may authorize in writing), ERNET India may terminate the empanelment / purchase order in whole or in part. In addition to above, ERNET India may at its discretion also take the following actions: ERNET India may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting bidder shall be liable to compensate ERNET India for any extra expenditure involved towards goods and services to complete the scope of work in totality and/or 20% of the total value of purchase order as cancellation charges whichever is higher through invocation of PBG.</p> <p>iii) ERNET India may at any time terminate the purchase order / empanelment by giving one month written notice to the bidder, without any compensation to the bidder, if the bidder becomes bankrupt or otherwise insolvent.</p> | <p>Request clause to be modified as follows:</p> <p>i) Default is said to have occurred a. If the bidder fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by ERNET India.</p> <p>b. If the bidder fails to perform any other obligation(s) under the empanelment</p> <p>ii) If the bidder, in either of the above circumstances, does not take remedial steps within a period of 60 days after receipt of the default notice from ERNET India (or takes longer period in spite of what ERNET India may authorize in writing), ERNET India may terminate the empanelment / purchase order in whole or in part. In addition to above, ERNET India may at its discretion also take the following actions: ERNET India may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting bidder shall be liable to compensate ERNET India for any extra expenditure involved towards goods and services to complete the scope of work in totality and/or 20% of the total value of purchase order as cancellation charges whichever is higher through invocation of PBG.</p> <p>iii) ERNET India may at any time terminate the purchase order / empanelment by giving one month written notice to the bidder, without any compensation to the bidder, if the bidder becomes bankrupt or otherwise insolvent.</p> | No Change. |
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|    |                                  |  |   |            |
|----|----------------------------------|--|---|------------|
| 12 | 41. Domestic Manufacturer Clause | <p>1. Preference will be given to domestically manufactured electronic goods in procurement. Guidelines as per Govt. notification No. 8(78)/2010-IPHW dated 10-2-2012, and subsequent amendments/clarifications will be followed for implementation. Bidders must submit an undertaking on notarized Rs. 100/- stamp paper as per Annexure-V: PMA AFFIDAVIT mentioning the percentage of domestic value addition (in terms of BOM) for each quoted item/product under a schedule to avail any applicable preference at the time of placing of purchase orders.</p> <p>2. Bidders who do not provide the undertaking shall not be considered for receiving this preference.</p> <p>3. The empanelment of bidders quoting false information will be cancelled and the EMD will be forfeited.</p> | <p>There are cases where importing the items becomes necessary and unavoidable. Request you to remove this Affidavit.</p> | No Change. |
| 13 | 42. Defect Liability period      | <p>The bidder shall arrange for maintenance for a period of warranty from the date/dates of installation of the project with regard to rectification/removal of defects if any observed during this period. If the bidder does not arrange to rectify the defects observed during the maintenance period within a reasonable time, the ERNET/End user shall be at liberty to get such defects rectified at the cost and risk of the bidder.</p>  | Request removal of this clause  | No Change. |

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|    |  |                            |   |            |
|----|--|----------------------------|---|------------|
| 14 | Annexure -I<br>Schedule of<br>Requirement (Bill of<br>Material)<br>A. Active Equipment &<br>Components | 1) Core Switch- Port Count | Reuquest you to kindly includeatleast 32 x 40G ports into the schedule of requirements of the core switch.<br>Today every modern day architecture is transitioning to 40G backbone. The advent of 802.11ac and the increase in the number of end devices have resulted in a bottleneck in the campus network aggregation. For the same reason, it is imperative that 40G connectivity between core and distribution layer is included.Referring the RFP specification for Core switch (clause number 3 & 11), wherein you have asked switch to support minimum 5 Tbps of throughput and 48 x 40 G non blocking ports, it is evident the Ernet is looking for infrastructure which has high scale and designed for 40 G backbone connectivity. Now to optimally utilise this infrastructure bidder should be given an option in rate contract to choose required number to 40G ports, so you are requested to include the same in BoQ. | No Change. |
|----|--|----------------------------|---|------------|

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|    |  |                                   |  |            |
|----|--|-----------------------------------|--|------------|
| 15 | Annexure -I<br>Schedule of<br>Requirement (Bill of<br>Material)<br>A. Active Equipment &<br>Components | 2) Zonal Switch-type1- Port Count | Reuquest you to kindly includeatleast 24 x 40G ports into the schedule of requirements of the core switch.<br>Today every modern day architecture is transitioning to 40G backbone. The advent of 802.11ac and the increase in the number of end devices have resulted in a bottleneck in the campus network aggregation. For the same reason, it is imperative that 40G connectivity between core and distribution layer is included. Referring the RFP specification for Core switch (clause number 3 & 11), wherein you have asked switch to support minimum 5 Tbps of throughput and 24 x 40 G non blocking ports, it is evident the Ernet is looking for infrastructure which has high scale and designed for 40 G backbone connectivity. Now to optimally utilise this infrastructure bidder should be given an option in rate contract to choose required number to 40G ports, so you are requested to include the same in BoQ. | No Change. |
|----|--|-----------------------------------|--|------------|

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|    |   |  |  |                                |
|----|---|--|--|--------------------------------|
| 16 | Annexure -I<br>Schedule of Requirement (Bill of Material)<br>A. Active Equipment & Components | 3) Zonal Switch-type2- Port Count  | Request you to kindly include atleast 4 x 40G ports into the schedule of requirements of the core switch.<br>Today every modern day architecture is transitioning to 40G backbone. The advent of 802.11ac and the increase in the number of end devices have resulted in a bottleneck in the campus network aggregation. For the same reason, it is imperative that 40G connectivity between core and distribution layer is included. Referring the RFP specification for Core switch (clause number 1 & 6), wherein you have asked switch to support minimum 5 Tbps of throughput and 8 x 40 G non blocking ports, it is evident the Enet is looking for infrastructure which has high scale and designed for 40 G backbone connectivity. Now to optimally utilise this infrastructure bidder should be given an option in rate contract to choose required number to 40G ports, so you are requested to include the same in BoQ. | No Change.                     |
| 17 | Annexure -I<br>Schedule of Requirement (Bill of Material)<br>A. Active Equipment & Components | 6) Wireless Access System(WLAN)<br>i) Wireless LAN Controller/switch(type1) with 2 Gigabit Ethernet uplinks for 100 802.11a/b/g/n/ac Access Points provided in high availability with all accessories and Management software - 3<br>a) Additional licenses for 50 Access Points - 22<br>ii) Wireless LAN Controller/switch(type2) with 2 Gigabit Ethernet uplinks for 500 802.11a/b/g/n/ac Access Points provided in high availability with all accessories and Management software - 1 | please share the description of how Licenses are used in each of controller ? As per Lic mentioned here, you may load 06 lic of 50 AP (2 max in 3 controllers + 6 in controller with 500 AP support- after 2 Lic of 100 AP support).   | Query is not clear. No change. |

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|    |  |  |  |  |
|----|--|--|--|--|
| 18 | Annexure -I<br>Schedule of Requirement(Bill of Material)<br>A. Active Equipment & Components | 6 iii) Wireless Access Points supporting 802.11a/b/g/n/ac and with suitable antenna - 1367   | Please mention if it is external antenna or integrated/ external antenna ?<br>integrated/ external antenna ?   | This Clause may be read as<br><br>" 6 iii) Wireless Access Points supporting 802.11a/b/g/n/ac and with suitable internal/external/integrated antenna "                             |
| 19 | Annexure -I<br>Schedule of Requirement(Bill of Material)<br>A. Active Equipment & Components | 6 iv) Wireless Access Points supporting 802.11a/b/g/n/ac and with suitable antenna (outdoor with necessary environment protections) - 12   | Please mention if it is external antenna or integrated/ external antenna ?<br>integrated/ external antenna ?   | This Clause may be read as<br><br>" 6 iv) Wireless Access Points supporting 802.11a/b/g/n/ac and with suitable external antenna (outdoor with necessary environment protections) " |
| 20 | Annexure -II<br>A. Active Equipment & Components 1.Core Switch                               | 3) Dual Redundant Switch Fabric/CPU should support minimum 5 Tbps switch fabric capacity per switch. There should not be any performance degradation in case of any switching/routing engine failure | The desired fabric capacity is way too high against the desired actual physical ports requirement. As per the standard non blocking and wirespeed line card performance per slot, e.g. standard 24x10Gbps or 6x40Gbps line cards maximum performance required 240Gbps x2 = 480 Gbps full duplex throughput only however in tender only 8 ports of 10G has been asked from day 1 in each switch. Even with 3 times of future scalability against current requirement the throughput should not exceed 3.8Tbps for 8 payload slot chassis (480Gbps x 8 = 3840 Gbps). Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Dual Redundant Switch Fabric/CPU should support minimum 3.8 Tbps switch fabric capacity per switch. There should not be any performance degradation in case of any | No Change.   |

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|   |  |   |  |   |
|---|--|---|--|---|
|   |  |   | switching/routing engine failure   |   |
| a |  | 7) Minimum 3.5 Bpps forwarding rate should be supported.            | The desired forwarding rate is slightly high against the desired actual physical ports requirement and doesn't match with the asked fabric capacity as per wire speed calculation. Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Minimum 2.38 Bpps forwarding rate should be supported. | No Change.  |
| b |  | 22) Should support minimum 32K IPv4 and 16K IPv6 multicast entries. | Kindly reduce 32K and 16k to 6K multicast streams per switch. As it is practically difficult to have more than 5K multicast streams on a single switch.  | This Clause may be read as<br>" Should support minimum 16K IPv4 and 8K IPv6 multicast entries." |

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|   |  |   |  |   |
|---|--|---|--|---|
| c |  |   | <p>As this switch would be deployed more towards the Enterprise setup with termination of the AP's etc., hence, we understand that the multicast entries ask would be an over kill and would not be required within the deployed architecture. This will drastically increase the cost of the solution. Hence, requesting to change the clause to "The switch should support 8K Multicast entries" in order to get the cost optimized solution.</p> <p>"The switch should support 8K Multicast entries with all requisite licenses"</p>  | <p>Please refer above response given at Sr.No.20 (b)</p>  |
| d |  | <p>30) Should have Filters/Access-List on all ports</p>                   | <p>Request to modify the clause to, "Should have Filters/Access-List on all portsThe switch should also support uRPF check for IPv4 and IPv6."</p> <p>Network administrators can use Unicast Reverse Path Forwarding (Unicast RPF) to help limit the malicious traffic on an enterprise network. This security feature works by enabling a router to verify the reachability of the source address in packets being forwarded. This capability can limit the appearance of spoofed addresses on a network. If the source IP address is not valid, the packet is discarded. The presence of this feature is a must in any modern day enterprise/campus network to prevent unwanted malicious traffic entering the network</p> | <p>No Change.</p>   |
| e |  | <p>33) Switch should support minimum 128k QoS ACLs and Security ACLs.</p> | <p>Kindly reduce it to 16K as 128k ACL deployment is too much for a single switch</p>  | <p>This Clause may be read as</p> <p>" Switch should support minimum 64k QoS ACLs and Security ACLs."</p> |

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|   |  |  |  |   |
|---|--|--|--|---|
| f |  |  | OEM Specific and numbers are too high. Request you to modify the clause as requested with slight reduction which shall enable us to participate in this opportunity with our industry leading switches. Switch should support minimum 100k ACLs.   | Please refer above response given at Sr. No.20 (e)  |
| g |  | 34) Should support DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses | DHCP snooping will be implemented at Access Switch level, and not required at Core Switch. Kindly add support on Access switch instead of Core Switch  | No Change.  |
| h |  | 36) Switch should support Application Visibility and Control.  | Kindly describe what application visibility and control mechanism is required  | This Clause is deleted.   |
| i |  |  | i)This feature is primarily a firewall feature and not a part of switch . Kindly remove this clause as it will limit reputed OEM's to participate  | Please refer above response given at Sr. No.20 (h)  |
| j |  |  | We understand that the requirement can be addressed by the entire proposed solution as well. Hence, requesting to modify the clause to "Solution should support Application Visibility and control" so that all the OEMs can qualify and participate in this tender. "The proposed Switch or Solution should support Application Visibility and control" | Please refer above response given at Sr. No.20 (h)  |
| k |  | 37) Switch should support minimum 512K NetFlow/ jflow/sFlow entries  | 512K netflow entries are too much for a single switch, kindly reduce it to 16K   | This Clause may be read as<br>" Switch should support minimum 256K NetFlow/ jflow/sFlow entries " |
| l |  |  | Kindly modify clause as"Switch should support NetFlow/ jflow/sFlow entries " for other leading oem's to participate  | Please refer above response given at Sr. No. 20 (k)   |

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|   |  |   |   |  |
|---|--|---|---|--|
| m |  |   | Requesting to please elaborate on the flow entries requirement, as we understand that for a Core Switch the routes and multicast entries suffice to the requirement, and basically a collector in the switch can be mapped to multiple agents and this is what can be co-related to the flow entries or the routes. This is already asked in the other line items for the asked switch. Hence, requesting to modify as per the number of ipv4 routes asked in clause 23 in order to get the cost optimized solution. "The Switch should support 256K Netflow/jflow/sflow entries" | Please refer above response given at Sr. No. 20 (k)  |
| n |  |   | OEM Specific and numbers are too high and such extensive logs should always recommended to redirect to a dedicated separate LOG ANALYSER solution (specially ment for log correlation). Even sFlow uses samples from different time interval due to which less no of flows are supported. In addition, for log and reporting NMS and has been asked in the tender. Hence Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches.Switch should support minimum 4K NetFlow/ jflow/sFlow entries  | Please refer above response given at Sr. No. 20 (k)  |
| o |  | 40) Switch should be IPv6 Certified/ Ready Logo | Every new launch product covering larger life cycle takes time to get IPv6 certified logo from third party vendors. However the desired IPv6 feature sets are fully available from day one which is required. Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches.Switch should be IPv6 Certified / Ready from day 1  | The Clause may be read as<br><br>" Switch should be IPv6 Certified/ Ready Logo/TEC certified." |

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|    |  |  |  |  |
|----|--|--|--|--|
| p  |  |  | Kindly modify clause as "The switch should be IPv6 Certified/ Ready Logo/IPV6 ready from Day 1"  | Please refer above response given at Sr. No. 20 (o).   |
| q  |  | 41) Switch should be common criteria Certified   | Our Switches is been widely used and deployed at number of state & centraal government orgaanisations , Please delete this clause or give us an option like Product switch should be common criteria certified / Switches should be tested and certifiedby leading lab for interop and cyber securtiy like US defense Information System Agency 's JITC  | The clause may be read as<br>"Switch should be minimum EAL2 common criteria Certified or equivalent" |
| r  |  |  | We understand that the NDPP certification approves against the asked clause.Kindly confirm on the understanding.<br>Switch should be Common Criteria / NDPP Certified  | Please refer the above response given at Sr.No.20 (q).   |
| 21 | Annexure -II<br>A. Active Equipment & Components 2.Zonal<br>Switch-type1 | 1) Should be a modular chassis based switch having minimum 5 payload slots with redundant CPU/Switch fabric and redundant power supply | As per desired actual interfaces with each switch in this category can be fullfilled in one slot only. Even with 100 % future scalability the desired 5 payload slots are way too high and specific to one OEM. Hence request you to modify the clause as requested which shall enable us to participate in this oppportunity with our industry leading switches.Should be a modular chassis based switch having minimum 4 payload slots with redundant CPU/Switch fabric and redundant power supply | No Change.   |

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|   |  |  |  |   |
|---|--|--|--|---|
| a |  | 3) Dual Redundant Switch Fabric/CPU should support minimum 2 Tbps switch fabric capacity per switch. There should not be any performance degradation in case of any switching/routing engine failure | The desired fabric capacity is high against the desired actual physical ports requirement. As per the standard non blocking and wirespeed line card performance per slot, e.g. standard 24x10Gbps or 6x40Gbps line cards maximum performance required 240Gbps x2 = 480 Gbps full duplex throughput only. Even with 3 times of future scalability against current requirement the throughput should not exceed 1.92Tbps for 4 payload slot chassis (480Gbps x 4 = 1920 Gbps). Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Dual Redundant Switch Fabric/CPU should support minimum 1.92 Tbps switch fabric capacity per switch. There should not be any performance degradation in case of any switching/routing engine failure | No Change.  |
| b |  | 7) Minimum 1.5 Bpps forwarding rate should be supported.   | The desired forwarding rate is slightly high against the desired actual physical ports requirement and doesn't match with the asked fabric capacity as per wire speed calculation. Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Minimum 1.4 Bpps forwarding rate should be supported.  | No Change.  |
| c |  | 22) Should support minimum 32K IPv4 and 16K IPv6 multicast entries.  | Kindly reduce 32K and 16k to 6K multicast streams per switch. As it is practically difficult to have more than 5K multicast streams on a single switch.  | This Clause may be read as<br>" Should support minimum 16K IPv4 and 8K IPv6 multicast entries." |

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|   |  |  |   |  |
|---|--|--|---|--|
| d |  |  | <p>As this switch would be deployed more towards the distribution layer, hence, we understand that the multicast entries ask would be an over kill and would not be required within the deployed architecture. This will unnecessarily increase the cost of the solution.Hence, requesting to change the clause to "The switch should support 8K Multicast entries" in order to get the cost optimized solution.<br/>"The switch should support 8K Multicast entries with all requisite licenses"</p>   | <p>Please refer the above response given at Sr. No. 21( c).</p>  |
| e |  | 30) Should have Filters/Access-List on all ports                   | <p>Request to modify the clause to, "Should have Filters/Access-List on all portsThe switch should also support uRPF check for IPv4 and IPv6."<br/>Network administrators can use Unicast Reverse Path Forwarding (Unicast RPF) to help limit the malicious traffic on an enterprise network. This security feature works by enabling a router to verify the reachability of the source address in packets being forwarded. This capability can limit the appearance of spoofed addresses on a network. If the source IP address is not valid, the packet is discarded. The presence of this feature is a must in any modern day enterprise/campus network to prevent unwanted malicious traffic entering the network</p> | <p>No Change.</p>  |
| f |  | 33) Switch should support minimum 128k QoS ACLs and Security ACLs. | <p>Kindly reduce it to 16K as 128k ACL deployment is too much for a single switch</p>   | <p>This Clause may be read as<br/>" Switch should support minimum 64k QoS ACLs and Security ACLs."</p> |

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|   |  |  |   |  |
|---|--|--|---|--|
| g |  |  | OEM Specific. Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Switch should support minimum 100k ACLs.   | Please refer the above response given at Sr. No. 21( f).   |
| h |  | 34) Should support DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses | DHCP snooping will be implemented at Access Switch level, and not required at Core Switch. Kindly add support on Access switch instead of Core Switch   | No Change.   |
| i |  | 36) Switch should support Application Visibility and Control.  | Kindly describe what application visibility and control mechanism is required   | This Clause is deleted.  |
| j |  |  | This feature is primarily a firewall feature and not a part of switch . Kindly remove this clause as it will limit reputed OEM's to participate   | Please refer the above response given at Sr. No. 21( i).   |
| k |  |  | We understand that the requirement can be addressed by the entire proposed solution as well. Hence, requesting to modify the clause to "Solution should support Application Visibility and control" so that all the leading OEMs can comply and participate in this tender. "The proposed Switch or Solution should support Application Visibility and control" | Please refer the above response given at Sr. No. 21( i).   |
| l |  | 37) Switch should support minimum 512K NetFlow/ jflow/sFlow entries  | 512K netflow entries are too much for a single switch, kindly reduce it to 16K  | This Clause may be read as<br><br>" Switch should support minimum 256K NetFlow/ jflow/sFlow entries" |

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|   |  |  |  |   |
|---|--|--|--|---|
| m |  |  | <p>OEM Specific and numbers are too high and such extensive logs should always recommended to redirect to a dedicated separate LOG ANALYSER solution (specially ment for log correlation). Even sFlow uses samples from different time interval due to which less no of flows are supported. In addition, for log and reporting NMS and has been asked in the tender. Hence Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Switch should support minimum 4K NetFlow/ jflow/sFlow entries</p> | <p>Please refer the above response given at Sr. No. 21(1)</p> |
| n |  |  | <p>Kindly modify clause as "Switch should support NetFlow/ jflow/sFlow entries " for other leading oem's to participate</p>  | <p>Please refer the above response given at Sr. No. 21(1)</p> |
| o |  |  | <p>Requesting to please elaborate on the flow entries requirement, as we understand that for a Core Switch the routes and multicast entries suffice to the requirement, and basically a collector in the switch can be mapped to multiple agents and this is what can be co-related to the flow entries or the routes. This is already asked in the other line items for the asked switch. Hence, requesting to please modify the number of ipv4 routes asked. "The Switch should support 256K Netflow/jflow/sflow entries"</p>  | <p>Please refer the above response given at Sr. No. 21(1)</p> |

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|    |   |   |   |   |
|----|---|---|---|---|
| p  |   | 40) Switch should be IPv6 Certified/ Ready Logo   | Every new launch product covering larger life cycle takes time to get IPv6 certified logo from third party vendors. However the desired IPv6 feature sets are fully available from day one which is required. Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Switch should be IPv6 Certified / Ready from day 1   | Please refer above response given at Sr. No. 20 (o).  |
| q  |   |   | Kindly modify clause as "The switch should be IPv6 Certified/ Ready Logo/IPV6 ready from Day 1"   | Please refer above response given at Sr. No. 20 (o).  |
| r  |   | 41) The Switch should be common criteria Certified  | CCC is designed for European countries, kindly advise certification from Indian security authority  | The clause may be read as "Switch should be minimum EAL2 common criteria Certified or equivalent" |
| s  |   |   | We understand that the NDPP certification approves against the asked clause. Kindly confirm on the understanding. Switch should be Common Criteria / NDPP Certified   | Please refer the above response given at Sr.No. 21( r).   |
| 22 | Annexure -II<br>A. Active Equipment & Components 3.Zonal Switch-type2 | 1) The switch should support minimum 2 Tbps of bandwidth and forward rate of minimum 1.5 Bpps | The desired fabric capacity and forwarding rate is slightly high against the desired actual physical ports requirement and doesn't match with the asked fabric capacity as per wire speed calculation. As per the standard non blocking and wirespeed line card performance per slot, e.g. standard 24x10Gbps or 6x40Gbps line cards maximum performance required 240Gbps x2 = 480 Gbps full duplex throughput only. Even with 3 times of future scalability against current requirement the throughput should not exceed 1.92Tbps for 4 payload slot chassis (480Gbps x 4 = 1920 Gbps). Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading | No Change.  |

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|   |  |   |  |            |
|---|--|---|--|------------|
|   |  |   | switches.The switch should support minimum 1.92 Tbps of bandwidth and forward rate of minimum 1.4 Bpps   |            |
| a |  |   | Kindly modify clause as"The switch should support minimum 2 Tbps of bandwidth and forward rate of minimum 1.44 Bpps". For the wirespeed performance the forwarding performace comes at 1.44Bpps ((72 x 20Gbps + 8 x 80Gbps) x 1.488)   | No Change. |
| b |  | 6) Switch should support upto 8 Nos. of 40-Gig non-blocking ports | Kindly modify clause as"Switch should support upto 6 Nos. of 40-Gig non-blocking ports " for other leading oem's to participate  | No Change. |
| c |  | 16) Should support minimum 16k IPv4 and 8K Ipv6 routes.           | Since the routing framework in IPv6 is different from IPv4 and more number of addresses can be accommodated in IPv6 number of aggregated routes would serve the purpose. And thus we request that a slight reduction in IPv6 aggregated routes that shall enable us to participate in this opportunity with our industry leading switches. Should support minimum 16k IPv4 and 7K Ipv6 routes. | No Change. |

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|   |  |   |   |  |
|---|--|---|---|--|
| d |  | 17) Should support minimum 8k Multicast routes.                               | Kindly allow 6K multicast routes as well  | This Clause may be read as<br><br>" Should support minimum 8k Multicast routes/entries." |
| e |  |   | We understand that this is an ask for the Multicast entries required on the Zonal Switch. This will increase the cost of the solution.Hence, requesting to modify the clause to "The switch should support 8K Multicast entries" in order to get the cost optimized solution.<br>"The switch should support 8K Multicast entries with all requisite licenses"   | Please refer the above response given at Sr.No. 22( d).                                  |
| f |  |   | We request a slight reduction in Multicast routes that shall enable us to participate in this opportunity with our industry leading switches. Should support minimum 6k Multicast routes.   | Please refer the above response given at Sr.No. 22( d).                                  |
| g |  | 21) Should have Filters/Access-List on all ports with support for min 4K ACLs | Kindly make it 1500 ACL per system  | No Change.   |
| h |  | 28) The switch should be IPv6 Certified/ Ready Logo                           | Every new launch product covering larger life cycle takes time to get IPv6 certified logo from third party vendors. However the desired IPv6 feature sets are fully available from day one which is required. Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Switch should be IPv6 Certified / Ready from day 1 | Please refer above response given at Sr. No. 20 (o).                                     |
| i |  |   | Kindly modify clause as "The switch should be IPv6 Certified/ Ready Logo/IPV6 ready from Day 1"   | Please refer above response given at Sr. No. 20 (o).                                     |

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|    |  |  |   |   |
|----|--|--|---|---|
| 23 | Annexure -II<br>A. Active Equipment & Components<br>4 (i&ii) Access Switch (PoE & non PoE) | 4) Switch should support stacking bandwidth of minimum 80 Gbps with dedicated stacking port. | 20Gbps stacking bandwidth is more than sufficient to stack 24 Port Switch up to 8 units in a single stack as all 24 ports traffic may not be used simultaneously for inter-vlan communication, request to kindly amend the clause to industry leader OEM to participate in the RFP. Switch should support stacking bandwidth of minimum 20 Gbps with dedicated stacking port. | No Change.  |
| a  |  | 10) Switch should support power supply redundancy.   | Kindly modify clause as "Switch should support internal power supply redundancy".Most of the device failure happens due to power supply failure so it is recommended to have the power supply redundancy  | No Change.  |
| b  |  |  | We understand that the power supply redundancy required should be an internal power supply as an external power supply will have management and space overheads. Hence, requesting to modify the clause to "Switch should support Internal power supply redundancy." "Switch should support Internal power supply redundancy."  | No Change.  |
| c  |  | 19) Switch should support Port as well as VLAN based Filters / ACLs.                         | Kindly make Port/VLAN based ACL support   | This Clause may be read as<br><br>" Switch should support Port /VLAN based Filters / ACLs." |

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|   |  |  |  |   |
|---|--|--|--|---|
| d |  | 26) Support for Unidirectional Link Detection Protocol (UDLD) to detect unidirectional links caused by incorrect fiber-optic wiring or port faults and disable on fiber-optic interfaces | Various OEM's follow various nomenclature for the same functionality. Hence, requesting to modify the clause to "Support for Unidirectional Link Detection Protocol (UDLD) or equivalent to detect unidirectional links caused by incorrect fiber-optic wiring or port faults and disable on fiber-optic interfaces" so that all the leading OEMs can comply and participate in this prestigious tender.<br>"Support for Unidirectional Link Detection Protocol (UDLD) or equivalent to detect unidirectional links caused by incorrect fiber-optic wiring or port faults and disable on fiber-optic interfaces" | The clause may be read as<br><br>"Support for Unidirectional Link Detection Protocol (UDLD) or equivalent to detect unidirectional links caused by incorrect fiber-optic wiring or port faults and disable on fiber-optic interfaces" |
| e |  | 27) Layer 2 trace route eases troubleshooting by identifying the physical path that a packet takes from source to destination.   | Layer 2 traceroute is supported by specific OEM only hence we request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Layer 2 / 3 trace route eases troubleshooting by identifying the physical path that a packet takes from source to destination.  | This clause may be read as<br><br>" Trace route eases troubleshooting by identifying the physical path that a packet takes from source to destination. "  |
| f |  |  | TRACEROUTE is generally used for tracing or finding Layer 3 Hops to reach destination. Asking for a L2 traceroute capability is oriented towards a single OEM. Hence, requesting to modify the clause to "Should support trace route " so that all the leading OEMs can comply and participate in this prestigious tender.<br>"Should support trace route "  | Please refer the above response given at Sr. No. 23 (e).  |
| g |  | 31) The Switch should be common criteria Certified   | CCC is designed for European countries, kindly advise certification from Indian security authority   | The clause may be read as<br><br>"Switch should be minimum EAL2 common criteria Certified or equivalent"  |

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|    |   |  |   |   |
|----|---|--|---|---|
| h  |   |  | We understand that the NDPP certification approves against the asked clause. Kindly confirm on the understanding. Switch should be Common Criteria / NDPP Certified   | Please refer the above response given at Sr. No. 23 (g) |
| i  |   | 32) The switch should be IPv6 Certified/ Logo Ready  | Every new launch product covering larger life cycle takes time to get IPv6 certified logo from third party vendors. However the desired IPv6 feature sets are fully available from day one which is required. Request you to modify the clause as requested which shall enable us to participate in this opportunity with our industry leading switches. Switch should be IPv6 Certified / Ready from day 1 | Please refer above response given at Sr. No. 20 (o).    |
| j  |   |  | Kindly modify clause as "The switch should be IPv6 Certified/ Ready Logo/IPV6 ready from Day 1"   | Please refer above response given at Sr. No. 20 (o).    |
| k  |   |  | We understand that the proposed switch should be ipv6 ready. Kindly confirm on the understanding so that all the leading OEMs can comply and participate in this prestigious tender. Switch should be ipv6 ready with all requisite licenses  | Please refer above response given at Sr. No. 20 (o).    |
| 24 | Annexure -II<br>A. Active Equipment & Components<br>5 Network Management System (NMS) | 1) The NMS should support management of Network devices like Routers, switches, wi-fi controllers and other SNMP based devices | Please change it to " The NMS should support management of Network devices like Routers, switches, and other SNMP based devices   | No Change.  |
| a  |   | 11) The NMS should support multiple protocols such as https, SSL, SCP, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3).       | Please change it to "The NMS should support multiple protocols such as https, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3).   | No Change.  |

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|   |  |   |  |  |
|---|--|---|--|--|
| b |  | 22) The NMS should support features to help validate whether the network is ready for video and rich media applications               | We understand that the NMS should be capable of providing the monitoring and management features of the Triple Play applications including video. The NMS can only help the administrator evaluate the network for any delays or faults. Kindly confirm on the understanding. If the understanding is not correct, this validation can only be achieved thru a full-fledged Enterprise Management Suite, out of which NMS is just a subset. EMS is not the scope of the asked RFP, hence, requesting to delete the asked clause. | This Clause is deleted.  |
| c |  | 27) The NMS should support configuration of MACsec  | It's favoring only one OEM. Request you to remove this clause which shall enable us to participate in this opportunity with our industry leading solutions. Kindly remove this clause.   | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution.     |
| d |  | 29) The NMS should support configuration of location settings of switch ports to aid the provisioning and tracking of Media endpoints | Please remove as it is OEM specific  | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution.     |
| e |  | 37) The NMS should support flexible reporting for user tracking   | Please remove as it is OEM specific  | This Clause is deleted.  |
| f |  | 42) The NMS should support Syslog report  | Please remove as it is a SIEM feature  | No Change.   |
| g |  | 47) The NMS should support installation on Windows Server Standard/Enterprise Edition   | Please remove as it is OEM specific  | This Clause may be read as<br><br>" The NMS should support installation on Windows Server Standard/Enterprise Edition/ Linux." |

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|    |  |   |   |  |
|----|--|---|---|--|
| h  |  | 48) The NMS should support High Availability  | It's favoring only one OEM. Request you to remove this clause which shall enable us to participate in this opportunity with our industry leading solutions. Kindly remove this clause.  | This Clause is deleted.  |
| 25 | Annexure -II<br>A. Active Equipment & Components<br>6(i) Wireless LAN Controller/Switch(WLC)-Type1 | 1) WLC must be compliant with IEEE CAPWAP or equivalent for controller-based Wireless LANs(WLANs)   | IEEE CAPWAP is applicable to Controller based WLC architecture, there are other vendors who provide Distributed controller wireless solution with better resiliency and management. Kindly allow Distributed controller architecture as well. | No Change. However the Solution Architecture offered should be Complaint with IEEE CAPWAP or equivalent. |
| a  |  | 2) WLC should be dedicated appliance with support for upto 500 Access points. Should be a standalone appliance in High Availability mode. | In case of distributed controller architecture, License will be managed at Wireless Management application which supports vmotion between hardware and does not require additional resources like controller based archotecture.              | No Change.   |
| b  |  |   | what is the mean of high availability ? Is it redundant controller ?<br>Please clarify "High Availability mode" Is it redundant controller ?  | The Clause is self explanatory. No Change.   |

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|   |  |  |  |  |
|---|--|--|--|--|
| c |  | 5) Should have redundant power supplies.   | please remove this.  | No Change.   |
| d |  |  | This clause is not applicable for distributed controller architecture  | No Change.   |
| e |  | 9) Should support coverage hole detection and correction that can be adjusted on a per WLAN basis. | every OEM has their own mechanism to manage coverage hole. Given line will restrict RFP for limited OEM's. please remove "that can be adjusted on a per WLAN basis." | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution. |
| f |  | 11) WLC performance should remain the same if encryption is on or off for wireless SSIDs.          | This feature will be applicable to AP's only in non WLC architecture solutions   | No Change.   |
| g |  | 12) WLC Should support Rogue AP detection, classification and standard WIPS signatures.            | This feature will be applicable to AP's only in non WLC architecture solutions   | No Change.   |
| h |  | 19) Must be able to dedicate some APs to monitor-only for Intrusion Prevention Services.           | please remove this. Dedicated AP's will increase number of AP deployment and will restrict RFP to limited OEM's only.  | This clause is deleted.  |

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|   |  |  |  |   |
|---|--|--|--|---|
| i |  | 20) Must support client roaming across controllers separated by a layer 3 routed boundary.     | please remove this. while we are considering only 1 controller in RFP then it should be an optional feature.   | No Change. However the feature/functionality is important may be considered optional. |
| j |  | 22) Should support the ability to schedule AP power on/off for energy savings.                 | this is specific to limited OEM's. Please remove this.   | This clause is deleted.   |
| k |  |  | Request to modify the clause to " Should support the ability to schedule AP SSID on/off for day savings"<br>The ability of turning the AP on and off cannot be provided by any OEM. The capability of turning the SSID on/off can be provided using centralized controllers and helps in daily savings.  | No Change.  |
| l |  |  | Access points usually get power either from POE switch or power adaptor. Controller is not a source of power to control power. This is vendor restrictive clause and available with single OEM. This feature can be achieved through switches. Request to delete the clause so that leading OEMs can comply<br>Request to delete the clause from the WLC Specifications. | No Change.  |
| m |  | 23) Should be able to classify over 20 different types of interference within 5 to 30 seconds. | Kindly elaborate   | Please refer the response given below at Sr.No. 25 (n)                                |

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|   |  |  |   |  |
|---|--|--|---|--|
| n |  |  | Different OEM has different number which they classify. 20 number is restrictive to single OEM, request to amend the clause as "Should be able to classify different types of interference within 5 to 30 seconds. " Request to modify the clause so that leading OEMs can comply. Request to delete the clause from the WLC Specifications | This clause may be read as<br><br>" Should be able to classify different types of interference within 5 to 30 seconds "    |
| o |  |  | OEM specific. Please remove this.   | Please refer the response given above at Sr. No. 25 ( n)   |
| p |  | 24) Should provide a snapshot of air quality in terms of the performance and impact of interference on the wireless network identifying the problem areas.   | This feature is specific to WLC architecture & will not be applicable for non WLC designs   | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution. |
| q |  | 25) Should provide an Air Quality rating on a per- radio basis to help gauge the impact of interference on the network   | This feature is specific to WLC architecture & will not be applicable for non WLC designs   | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution. |
| r |  | 28) Should support multicast Video call admission control mechanism and Stream prioritization.   | this is specific to limited OEM's. Please remove this.  | This Clause is deleted.  |
| s |  | 30) To deliver optimal bandwidth usage, reliable multicast must use single session between AP and Wireless Controller.   | This feature is specific to WLC architecture & will not be applicable for non WLC designs   | No Change.   |
| t |  | 34) Controller should support deep packet inspection for all user traffic across Layer 4-7 network to analyse information about applications usage, peak network usage times for all access points from day one in a central and local switching mode. | This feature is will be delivered at AP level distributed controller architecture.  | Query is not clear. No change.   |

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|    |   |   |   |  |
|----|---|---|---|--|
| 26 | Annexure -II<br>A. Active Equipment & Components<br>6(ii) Wireless LAN Controller/Switch(WLC)-Type2 | 1) WLC must be compliant with IEEE CAPWAP or equivalent for controller-based Wireless LANs(WLANs)   | IEEE CAPWAP is applicable to Controller based WLC architecture, there are other vendors who provide Distributed controller wireless solution with better resiliency and management. Kindly allow Distributed controller architecture as well. | No Change. However the Solution Architecture offered should be Complaint with IEEE CAPWAP or equivalent. |
| a  |   | 2) WLC should be dedicated appliance with support for upto 500 Access points. Should be a standalone appliance in High Availability mode. | In case of distributed controller architecture, License will be managed at Wireless Management application which supports vmotion between hardware and does not require additional resources like controller based archotecture.              | No Change.   |
| b  |   |   | kindly change it to 1000 AP support.  | No Change.   |
| c  |   | 5) Should have redundant power supplies.  | This clause is not applicable for distributed controller architecture   | Query is not clear. No change.   |
| d  |   |   | please remove this.   | No Change.   |

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|   |  |  |  |  |
|---|--|--|--|--|
| e |  | 9) Must support coverage hole detection and correction that can be adjusted on a per WLAN basis. | every OEM has their own mechanism to manage coverage hole. Given line will restrict RFP for limited OEM's. please remove "that can be adjusted on a per WLAN basis." | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution. |
| f |  | 11) WLC performance should remain the same if encryption is on or off for wireless SSIDs.        | This feature will be applicable to AP's only in non WLC architecture solutions   | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution. |
| g |  | 12) WLC Should support Rogue AP detection, classification and standard WIPS signatures.          | This feature will be applicable to AP's only in non WLC architecture solutions   | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution. |
| h |  | 19) Must be able to dedicate some WAPs to monitor-only for Intrusion Prevention Services.        | please remove this. Dedicated AP's will increase number of AP deployment and will restrict RFP to limited OEM's only.  | This clause is deleted.  |
| i |  | 20) Must support client roaming across controllers separated by a layer 3 routed boundary.       | please remove this. while we are considering only 1 controller in RFP then it should be an optional feature.   | No Change. However the feature/functionality is important may be considered optional.                                      |
| j |  | 22) Should support the ability to schedule WAP power on/off for energy savings.                  | this is specific to limited OEM's. Please remove this.   | This clause is deleted.  |

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|   |  |  |   |  |
|---|--|--|---|--|
| k |  |  | Request to modify the clause to " Should support the ability to schedule AP SSID on/off for day savings"<br>The ability of turning the AP on and off cannot be provided by any OEM. The capability of turning the SSID on/off can be provided using centralized controllers and helps in daily savings.   | Please refer above response given at Sr. No. 26 (j)      |
| l |  |  | Acess points usually get power either from POE switch or power adaptor. Controller is not a source of power to control power. This is vendor restrictive clause and available with single OEM. This feature can be achieved through switches. Request to delete the clause so that leading OEMs can comply. Request to delete the clause from the WLC Specifications                          | Please refer above response given at Sr. No. 26 (j)      |
| m |  | 23) Should be able to classify over 20 different types of interference within 5 to 30 seconds. | Kindly elaborate  | Please refer the response given above at Sr. No. 25 ( n) |
| n |  |  | OEM specific. Please remove this.   | Please refer the response given above at Sr. No. 25 ( n) |
| o |  |  | Different OEM has different number which they classify. 20 number is restrictive to single OEM, request to amend the clause as"Should be able to classify different types of interference within 5 to 30 seconds. " so that all the Leading OEMs can participate in this prestigious tender. "Should be able to classify maximum available interferences within timeframe of 5 to 30 seconds" | Please refer the response given above at Sr. No. 25 ( n) |

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| p  |   | 24) Should provide a snapshot of air quality in terms of the performance and impact of interference on the wireless network identifying the problem areas.  | This feature is specific to vendor, kindly remove this  | Please refer the response given above at Sr. No. 25 ( p) |
| q  |   | 25) Should provide an Air Quality rating on a per- radio basis to help gauge the impact of interference on the network  | This feature is specific to vendor, kindly remove this  | Please refer the response given above at Sr. No. 25 ( q) |
| r  |   | 30) To deliver optimal bandwidth usage, reliable multicast must use single session between AP and Wireless Controller.  | This feature is specific to WLC architecture & will not be applicable for non WLC designs   | Please refer the response given above at Sr. No. 25 ( s) |
| s  |   | 34) Controller should support deep packet inspection for all user traffic across Layer 4-7 network to analyses information about applications usage, peak network usage times for all access points from day one in a central and local switching mode. | This feature is will be delivered at AP level distributed controller architecture.  | Please refer the response given above at Sr. No. 25 ( t) |
| 27 | Annexure -II<br>A. Active Equipment & Components<br>6 (iii)Wireless Access Points (WAP) | 2) Access point must have minimum one Ethernet port.  | Request to change the clause to " Access point must have minimum of two ethernet port with additional Console port." It is desired to have the second gigabit ethernet port so that additional devices can be connected such as ip Surveillance cameras and other IP devices. Therefore, some products from all major OEMs provide two ethernet ports for the same purpose. Moreover, the console port enables local login and thus simplifies the troubleshooting process to a great extent. | No Change.   |
| a  |   | 5) Must support data rates upto 1.3Gbps on 5Ghz radio.  | please mention datarate of 2.4Ghz as well and with 3 stream it should be minimum 450Mbps. Since majurity of client device still supports 2.4Ghz only, its critical  | No Change.   |

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| b |  | 17) WAP proposed must be able to be both a client-serving WAP and a monitor-only WAP for Intrusion Prevention services. | please remove this. specific to limited OEM's.  | No Change. However the feature/functionality is required may be provided through equivalent mechanism/technology/solution.                |
| c |  | 21) Must support telnet and/or SSH login to WAPs directly for troubleshooting flexibility.                              | In controller based solution everything is pushed through controller and troubleshooting also can be done on controller for AP level. Moreover, this clause is vendor restrictive and hence it is requested to amend the clause as "Must support telnet and/or SSH login/Console access to WAPs directly for troubleshooting flexibility. " so that all the leading OEMs can participate in this prestigious tender. "Must support telnet /SSH login/Console access to WAPs directly for troubleshooting flexibility. " | The Clause may be read as<br><br>" Must support telnet and/or SSH login/Console access to WAPs directly for troubleshooting flexibility." |
| d |  | 22) Must support Power over Ethernet, local power and power injectors. Should be provided with power adapter.           | 22 Must support Power over Ethernet and power injectors. Should be provided with power adapter/Injector.  | No Change.  |
| e |  |   | It is an additional overhead to lay electric cable as well for power adaptor wherever Ap need to be mounted, Kindly clarify whether adaptor need to supply with all access points or only for limited number of AP's? Kindly clarify whether adaptor need to supply with all access points or only for limited number of AP's?  | The Clause is self explanatory. No Change.  |

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| f  |   | 24) WiFi Alliance Certification for WMM and WMM power save  | please remove certification for WMM power save.   | No Change. |
| 28 | Annexure -II<br>A. Active Equipment & Components<br>6 (iv) Wireless Access Points (WAP) (outdoor) | Same as at 6(iii) above with all other necessary environmental safety & protections. The Outdoor AP should either be ruggedized device or provided with external third party outdoor enclosure and in compliance with the IP67. | Kindly allow IP65 compliant devices as well   | No Change. |
| a  |   |   | Using indoor AP in outdoor using external casing degrade the performance of the Access point. WPC norms for indoor AP is 26dbm and for outdoor is 36 dbm, so using indoor in outdoor will not transmit even 26 dbm as external casing will absorb several dbm and antennas will not throw signal in appropriate pattern. Thus request to amend the clause as "Same as at 6(iii) above with all other necessary environmental safety & protections. The Outdoor AP should either be ruggedized device and IP67 compliant. No third party external casing will be accepted" | No Change. |

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| b  |  |   | AP should be IP67 rated. External enclosure will give flexibility to quote indoor AP's in enclosure.   | No Change.                                 |
| 29 | Annexure -II<br>A. Active Equipment & Components<br>7 Firewall | 9) Firewall should support authentication protocols like LDAP, RADIUS and have support for firewall passwords, smart cards, & token-based products like SecurID, LDAP-stored passwords, RADIUS or TACACS+ authentication servers and X.509 digital certificates | As per our understanding these protocols are required to authenticate the remote user coming via VPN. Pls confirm whethet our understanding is correct<br>Firewall main function is to allow or deny the traffic as defined in policied. Internal users are authenticated by logining into domains, users who are trying to access services from remote require such facility. Hence we requested for confirmation | The Clause is self explanatory. No Change. |
| a  |  | 11) Firewall should provide Web protections designed specifically for Web-based attacks and compliment the network and application level protections. Eachprotection can be enabled, disabled, or set in passive/monitor mode.                                  | Today's NGFW provide application level visibility and control. At the same time, they ensure that protocol is RFP Conformance. Conversely Web Application Firewall protect the only the web servers hosted by organization. Hence we requested the change  | No Change.                                 |
| b  |  | 12) Firewall appliance must be supplied with at least 4 X 10/100/1000Mbps Ethernet ports on Copper and support atleast 2 Gigabit Ethernet ports on Fiber optic.   | Since th RFP has already requested for scalability of copper or fiber module, so we requested the change   | Query is not clear. No change.             |

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| c  |  | 14) Firewall appliance should support fiber interfaces LR/LX for 1Gig/10Gig ports   | Please change it to "Firewall appliance should support fiber interfaces LR/LX for 1Gig ports'<br>As per RFP's section A Firewall with 4 x GE ports and 1G performance is required. 1G firewall with 10G of traffic will create a bottleneck and there is possibility of firewall failing. Hence we request to remove 10G from the specification or if 10G interfaces is required, we should include another appliance with minimum of 10G throughput   | No Change. |
| d  |  | 16) Firewall appliance should allow 1 Million Concurrent connections with 50% scalability in the same chassis   | Please change it to "Firewall appliance should allow 500 K Concurrent connections with 50% scalability in the same chassis or maximum of 1 M concurrent connections"<br>For 1 G firewall 1M connection is already on the higher side, hence we request to change to 500K and scalable by 50% or maximum of 1M connection.  | No Change. |
| e  |  | 17) Firewall appliance should support 25,000 new connections/second   | Please change it to "Firewall appliance should support 50,000 new connections/second<br>For 1G performance Firewall 25,000 connections/sec is too low. Hence we request to change it to 50,000   | No Change. |
| 30 | Annexure -II<br>A. Active Equipment & Components<br>8 Intrusion Prevention System(IPS) | 1) IPS should be dedicated appliance based with inspected Throughput should be minimum of 1 Gbps. IPS should provide scalability of atleast 50% of the throughput asked for. The IPS throughput specified should not decrease in case of DDOS scenario. | Please change it to "IPS should be dedicated appliance based with inspected Throughput should be minimum of 1 Gbps. IPS should provide scalability of atleast 50% of the throughput asked for." While NGIPS has a capability to detect the threats emerging from inside by baseling the normal traffic and protect itself against any IPS evasion techniques, DDoS is something which require a dedicated appliance. Also DDoS is close to internet and IPS is behind FW inspecting, detecting and blocking the attack | No Change. |

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|   |  |   | coming through permitted traffic.  |  |
| a |  |   | Please clarify that the throughput mentioned is REAL WORLD traffic only, not the UDP (1512 Byte Packets) traffic parameter. Also please mention the DDoS throughput parameter, which is required to size the proposed NIPS device. IPS should be dedicated appliance based with inspected REAL WORLD Throughput should be minimum of 1 Gbps. IPS should provide scalability of atleast 50% of the throughput asked for.<br>The IPS throughput specified should not decrease in case of DDOS scenario upto 1 Mpps Flood Attack Prevention Rate. | The Clause is self explanatory. No Change. |
| b |  | 2) IPS should support sessions with security state of upto 1000000  | The Concurrent Connection supports should be increased keeping in mind the future requirements. IPS should support sessions with security rate upto 2,000,000  | No Change.                                 |
| c |  | 5) Number of Ports should be minimum 4 X 1Gigabit Ethernet(copper) with the support of 2 more SFP based Gigabit Ethernet ports. | In NIPS, a segment is used for the protection which is combination of 2 ports (In & Out traffic) always. Currently the number of ports mention will limit the number of Segments to be deplyed, if devices are configured in HA mode. We would suggest to kindly increase the number of ports.<br>Inspection Ports support:<br>12 x 10/100/1000 Copper Ethernet 4 (SFP) x  | No Change.                                 |

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|   |  |  | 1 GE   |  |
| d |  | 9) IPS categories/ signatures should atleast contain: Worm , Phishing , Spyware ,Virus , Suspicious , DDoS ,Trojan , Reconnaissance ,Bandwidth Hijacking, P2P,Walk-in Worm , Blended Threat ,VoIP , Backdoor , Zero Day Initiative | Please remove "Bandwidth Hijacking" , "Walk-in-Worm" and change the clause to: IPS categories/ signatures should atleast contain: Worm , Phishing , Spyware , Virus , Suspicious , DDoS ,Trojan , Reconnaissance ,P2P,, Blended Threat ,VoIP , Backdoor , Zero Day Initiative IPS can conserve the BW by blocking the illegitimate traffic but Bandwidth Hijacking is something which IPS doesn't do Walk-in-Worm phrase is specific to one OEM and not commonly used in industry and request to remove both | The Clause may be read as<br><br>" IPS categories/ signatures should atleast contain: Worm , Phishing , Spyware ,Virus , Suspicious , DoS/DDoS ,Trojan , Reconnaissance , P2P, Blended Threat ,VoIP , Backdoor , Zero Day Initiative " |
| e |  | 11) The IPS hardware architecture should be based on FPGA/ASIC switch architecture with parallel processing  | Please change it to The IPS hardware architecture should be based on FPGA/ASIC switch architecture with parallel processing or single pass architecture" FPGA, Parallel Processing phrase and architecture is specific to one OEM. Hence please include single pass architecture to achieve threat effectiveness, scalability and performance  | The Clause may be read as<br><br>" The IPS hardware architecture should be based on FPGA/ASIC switch architecture with parallel processing or based on equivalent technology/architecture "  |
| f |  | 14) It should support active/passive, active/active, Symmetric & Asymmetric HA without any 3rd party load balancers  | Please change it to "It should support active/passive or active/active, Symmetric or Asymmetric HA without any 3rd party load balancers Different vendor achieve high availability via different way, hence we request the change  | No Change.   |

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| g |  |   | <p>There are certain OEM's NIPS products, when deployed in HA mode the Total throughput capability of the pair &lt;= the quoted throughput rate of the single Sensor. This is a serious deviation keeping in mind the solution throughput requirements. Hence it is highly suggested to clarify that the performance of the NIPS device should remain same whether deployed in standalone or High Availability mode. This would ensure that the System Integrators/NIPS OEM's would size the box in terms of throughput requirements accordingly. The IPS should support High Availability (Active-Passive).<br/>The Inspection throughput of the standalone NIPS device should NOT Degrade when deployed in HA mode (Active-Passive).</p> | No Change. |
| h |  | 18) It should be possible to define policies per time schedule, direction, VLAN ID, CIDR & segment/port | <p>Please delete "time schedule" and change it to<br/>"It should be possible to define policies per, direction, VLAN ID, CIDR &amp; segment/port"<br/>Permitted access to infrastructure on time basis should be a responsibility of Network Admission control. Security devices should be always ON and protecting the infrastructure behind. If the requirement is to whitelist specific host or URL, that is achievable.</p>  | No Change. |

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| 31 | Annexure -II<br>A. Active Equipment & Components 9(i & ii)<br>Server | 1) Processor type - 2X Intel Xeon Quad Core Processor 2.4 Ghz, 10 MB Cahce,1066 MHz Front Side Bus or better | Please clarify if bidders needs to offer only the latest generation Intel Xeon E5-26xx v3 Quad Core Processors with 2.4 GHz, 10 MB Cache, 1066 Mhz FSB or better ?<br>The latest generation processors series from intel for 2 Processors machines are E5-26XX v3 which were launched in Q3 of CY2014. Therefore it will have much better life cycle from Intel as compared to earlier generation processors.   | The Clause is self explanatory. No change. Minimum is specified. May offer latest/higher. |
| a  |  | 3) Standard Memory - 16 GB Standard Memory with support of feature like ECC, Sparebank/mirroring             | Please rephrase the clause as " 16 GB DDR4 2133 Mhz Memory with Support of feature like ECC Sparebank/Mirroring" DDR4 2133 MHZ is current and fourth generation Memory technology . The primary advantages of DDR4 over its predecessor, DDR3 or lower, includes higher module density and lower voltage requirements, coupled with higher data rate transfer speeds. Therefore , considering critical and enterprise set ups its highly recommended to ask minimum for this DDR 4 Memory for optimum performane of applications. | No Change.  |
| b  |  | 4) Maximum Memory - 320GB (24 DIMM Slots) or better  | Since currently 64 GB DIMMS are also available therefore considering 24 DIMM Slots ,the maximum memory capability should be up to 1.5 TB. It is requested to rephrase the clause as " 1.5 TB ( 24 DIMM Slots ) or Better"<br>64 GB DIMMS are readily available and memory capacity of 1.5 TB would ensure total investment protection for ERNET for next 5-7 years atleast considering any increase in workload or new applications deployment  | No Change.  |

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| c  |                                      | 12) Network Interface Card - Two embedded gigabit Network Adapters with TCP/IP Offload Engine  | Please clarify if servers with two nos of embedded gigabit Network Ports would also be allowed ?<br>As per current industry standards Server vendors provide Servers which already have two numbers of embedded gigabit ethernet ports thus mitigating the requirement of additional Netwk interface Card on PCIe slots.                                   | The Clause is self explanatory. No Change.            |
| d  |                                      | 14) Expansion Slots - I/O 2 X PCI Express or better  | Please change this to "Expansion Slots - I/O 6 x PCIe Slots or better" Since PCIe Slot based HBA card has already been asked which will leave only 1 free PCIe slot. For any future scalability and expansion it is highly recommended that sufficient numbers of free PCIe slots should be available .  | No Change.  |
| e  |                                      | 17) Support - Physical address Extension (PAE) Support; Microsoft Logo Certifications; USB 2.0 Support   | Please make PAE feature as optional for vendors offering Windows 2012 in the Servers<br>PAE is a feature related to Microsoft and only supported on following 32 bit versions of Windows :<br>Windows 7 (32 bit only)<br>Windows Server 2008 (32-bit only)<br>Windows Vista (32-bit only)<br>Windows Server 2003 (32-bit only)<br>Windows XP (32-bit only) | No Change. However PAE may be considered as optional. |
| 32 | Annexure -II<br>B Passive Components | 10) The 4 pair UTP cable shall be of 23/24 AWG bare solid copper conductors. The cable should have uniform characteristic impedance. Should meet or exceed EIA/TIA 568-B2.1 CAT6 specifications. The cable should be tested for 250-500MHz or higher. The cabling system should be with Gigabit Ethernet Zero bit error rate performance warranty. | Since Wireless Access Points are to be installed in outdoor environment it is better to use armoured cable to protect it from damage so please make it mandatory that 4 Pair Cat 6 Cable should also be armoured ( Steel Tape) for high Strength.  | No Change.  |

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| a  |  |  | Wireless AP will be install Outdoor hence Copper cable should be Armoured ( Steel Tape) for high<br>Kindly modify clause "Cat 6 Cable should be Armoured ( Steel Tape) for high Strength."  | No Change.   |
| b  |  | 26) All the passive networking components(UTP & Fiber optic cable) should be from same manufacturer and should be preferably from Tyco/Systimax/AMP/Krone/Molex and should be quoted with part numbers alongwith datasheets. | Tyco/Systimax/AMP/Krone are brands from same manufacturer this will hamper better price discovery. So please amend it as Schneider/Tyco/Systimax/AMP/Krone/Mole x   | This Clause may be read as<br><br>" All the passive networking components(UTP & Fiber optic cable) as per tender specifications should be from same manufacturer and should be quoted with part numbers alongwith datasheets." |
| c  |  |  | We confirm that we are meeting all technical specifications of the tender and we request to include D-Link make in the makes already mentioned in the tender.   | Please refer above response given at Sr. No. 32 (b)  |
| d  |  |  | Schneider is serving various prestigious projects with intelligent solution. Like IIT Delhi, JNU, Mandoli Jail, Rajiv Gandhi Cancer Hospital, Max Hospital etc on turnkey basis. Kindly modify preferred make as "Schneider / Tyco/Systimax/AMP/Krone/Molex"  | Please refer above response given at Sr. No. 32 (b)  |
| 33 |  |  | Please add Limitation of Liability clause as " Under no circumstances shall the bidder be liable to the customer for any indirect, special, punitive or exemplary damages, or for any loss of business, profit, use, goodwill, reputation or data. Notwithstanding anything contained in the tender document or the contract, the maximum liability of the bidder in respect of all claims, in the aggregate, under or in relation to the tender/contract shall not exceed the total fees paid to the bidder by customer in the twelve months immediately preceding the date of the claim." | Suggestion not accepted.   |

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| 34 |  |  | Core Switch - The switch must support GRE. GRE is an essential feature in any campus/enterprise network and it is highly recommended that the same be included in the list fo requirements for the core switch   | Suggestion not accepted. |
| 35 |  |  | Zonal Switch- Type 1- The switch must support GRE. GRE is an essential feature in any campus/enterprise network and it is highly recommended that the same be included in the list fo requirements for the core switch   | Suggestion not accepted. |
| 36 |  |  | Zonal Switch- Type 1- Request you to add the clause ,"Switch should support Layer 3 Security and Flexible netflow or equivalent." The ability to characterize IP traffic and identify its source, traffic destination, timing, and application information is critical for network availability, performance, and security. It is imperative that these feature be incorporated in the next generation network being planned by ERNET. | Suggestion not accepted  |
| 37 |  |  | Zonal Switch- Type 2 - The switch must support GRE. GRE is an essential feature in any campus/enterprise network and it is highly recommended that the same be included in the list fo requirements for the core switch  | Suggestion not accepted  |

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| 38 |  |  | Zonal Switch- Type 2 - Request you to add the clause ,"Switch should support Layer 3 Security and Flexible netflow or equivalent."The ability to characterize IP traffic and identify its source, traffic destination, timing, and application information is critical for network availability, performance, and security. It is imperative that these feature be incorporated in the next generation network being planned by ERNET. | Suggestion not accepted  |
| 39 |  |  | Please include "System offered should be a dedicated NGFW appliance device and not a UTM based " In order to ensure that device performance maintained consistantly, dedicated Appliance should only be permitted  | Suggestion not accepted  |
| 40 |  |  | Please include "Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core cpu's to protect & scale against dynamic latest security threats." To avoid upgrading firewall appliance when ever new feature is introduced, it is suggested to have an appliance not built on proprietary based Architecture  | Suggestion not accepted  |
| 41 |  |  | Please include "Proposed NGFW should be in Leader/Challenger quadrant of Magic Gartner's Enterprise Firewall" SI should quote a FW from credible security OEM's solution. Gartner has become an increasingly relevant report.  | Suggestion not accepted. |

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| 42 |  |  | Please include "System offered should be a dedicated NGIPS appliance device and not a UTM based " In order to ensure that device performance maintained consistantly, dedicated Appliance should only be permitted                     | Suggestion not accepted. |
| 43 |  |  | Please include "Proposed NGIPS should be in Leader/Challenger quadrant of Magic Gartner's NGIPS" SI should quote a IPS from credible security OEM's solution   | Suggestion not accepted. |
| 44 |  |  | Please include "Proposed NGIPS should tested by 3rd party agency like NSS and should have exploit catch rate of minimum of 99% IPS is all about detecting and blocking, Maximum efficacy and test by 3rd part is must for credible OEM | Suggestion not accepted. |
| 45 |  |  | Please include Proposed solution should be able to block the traffic on the basis of Geo Location. This allow organization to block the traffic from specific countries with which they don't do business or have bad reputation       | Suggestion not accepted. |
| 46 |  |  | Please include Proposed solution should have inbuilt capability to inspect SSL traffic. Visibility for SSL based traffic is asked in Firewall and hence is must to have capability to inspect the SSL based traffic in IPS             | Suggestion not accepted. |
| 47 |  |  | Please clarify that the NIPS should be a dedicated appliance based solution, not a part of Firewall or UTM blade. Please confirm NIPS should be dedicated appliance based solution, not a part of Firewall or                          | Suggestion not accepted. |

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|    |  |  | UTM blade  |   |
| 48 |  |  | <p>Worldwide recognized Third party Technical reports like Common Criteria Certification (EAL) ensures that the proposed NIPS is proven &amp; recognized worldwide in the respective domain area.</p> <p>Please mention the OEM certifications like EAL in the given specs, since this criteria is also mentioned in the other components of the RFP as well.</p> <p>The proposed NIPS device should be EAL4+ certified</p>  | <p>No Change in existing relevant Clause. However the following is added in the existing relevant Clause of the tender document at S. no. 20, Annexure II. Technical Specifications A. Active Equipment &amp; Components</p> <p>8. Intrusion Prevention System (IPS)</p> <p>" The clause may be read as</p> <p>“Switch should be minimum EAL2 common criteria Certified or equivalent”.</p> |
| 49 |  |  | <p>Typically to handle sophisticated attacks like DDOS, professional Services from the OEM are required, for mitigating these kind of complicated attacks. Hence kindly mention that at the time of DDoS attack, Real time support, which should be available 24x7 would be provided by directly by the OEM (with SLA defined) in order to mitigate the DoS/DDoS attacks.</p> <p>The System Integrator has to quote these services in their commercial proposal as well.</p> <p><b>EMERGENCY RESPONSE TEAM:</b><br/>The OEM has to provision for knowledgeable and specialized security experts who provide 24x7 (SLA defined), real time Professional Services for the network facing denial-of-service (DoS) attack in order to restore network and service operational status. The service should NOT be a part of TAC support or SoC Team support, rather it should be a OEM</p> | <p>Suggestion not accepted.</p>   |

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2. Subject to above, all other terms and conditions, specifications of the tender document remain unchanged unless otherwise amended/modified.

Corrigendum – I

Amendments/Clarifications against the tender no. EI-D/Tech/55-48/15 dated 21.11.2015 for supply, Installation, commissioning & Integration of Goods/equipment/services for Wi-Fi enabled Campus Network & other IT infrastructure.

|    |  |  |  |                          |
|----|--|--|--|--------------------------|
|    |  |  | Professional Services team which would be taking care for the DoS/DDoS Flood Mitigation services.  |                          |
| 50 |  |  | "In case, any of the proprietary protocol is asked in the specification, the OEM is allowed to propose a solution or functionality equivalent to the same."<br>This is to ensure no Proprietary protocol is pushed to the end-customer and the Network architecture being deployed is open standard, ready for integration with any and ever OEM over open-standard in future as well. "In case, any of the proprietary protocol is asked in the specification, the OEM is allowed to propose a solution or functionality equivalent to the same." | Suggestion not accepted. |
| 51 |  |  | Please incorporate ERV clause for rupee bids. " Any increase or decrease in dollar beyond 2% should be to customer account".   | Suggestion not accepted. |

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Corrigendum – I

Amendments/Clarifications against the tender no. EI-D/Tech/55-48/15 dated 21.11.2015 for supply, Installation, commissioning & Integration of Goods/equipment/services for Wi-Fi enabled Campus Network & other IT infrastructure.

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|----|--------------|--|--|--|
| 52 |              |  | We want to know estimated volume of purchase during RC period & estimated order value for each campus. | Please refer Clause no. 32 'Evaluation of Tender' of the tender document.  |
| 53 | 22. Warranty | <p>(i) Onsite warranty/AMC services shall be provided at the specified locations of installation of equipment supplied.</p> <p>(ii) Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts free software upgrades/updates/renewals. The defects, if any shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty shall be for a minimum period of three years from the date of acceptance of the equipment by ERNET India. The bidders are also required to quote for Comprehensive AMC of two years after warranty period is over. The Comprehensive AMC includes onsite warranty with parts and softwareupdates/upgrades/renewals. The bids received without quotes for Comprehensive AMC would be out rightly rejected. AMC cost for two years will also be taken into account for commercial evaluation.</p> |  | <p>The Clause is amended to the extent as follows:</p> <p>" (i) Onsite warranty/AMC services will comprise of back to back support from the successful bidder(s). The successful bidder(s) shall furnish the documents from OEM confirming back to back support. In case the documents are not submitted it will be deemed to be an event of default and ERNET India may terminate the contract. The Bank guarantee submitted by the bidder to ERNET India shall be invoked and any payments (payable to bidder) shall not be paid too &amp; will be adjusted as penalty.</p> <p>(ii) Onsite warranty/AMC services shall be provided at the specified locations of installation of equipment supplied.</p> <p>(iiI) Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts free software upgrades/updates/renewals. The defects, if any shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty shall be for a minimum period of three years from the date of acceptance of the equipment by ERNET India. The bidders are also required to quote for Comprehensive AMC of two years after warranty period is over. The Comprehensive AMC includes onsite warranty</p> |

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