

RailTel Corporation of India Ltd

(A Government of India Enterprise)

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No: RailTel/Tender/OT/CO/P/2017-18/VSS/403

Date: 07.12.2017

CORRIGENDUM-VI

Sub: Tender for “Supply, Installation, Testing, Commissioning, Operation and Maintenance of Cloud Ready IP based Video Surveillance System (VSS) at various Railway Stations of A1, A and B category of Indian Railways for four (4) packages under Northern, Western, Eastern and Southern Region’s of RailTel for and on behalf of RailTel Enterprises Limited and Indian Railways”

- Ref: i) Notices of even no. dated 02.11.17, 07.11.17 and 10.11.17.
ii) E-Tender No. RailTel/Tender/OT/CO/P/2017-18/VSS/403 dated 13.11.17.
iii) Corrigendum-I & II dated 18.11.2017.
iii) Corrigendum-III dated 21.11.2017.
iv) Corrigendum-IV dated 23.11.2017.
v) Corrigendum-V dated 24.11.2017

With reference to the above referred Tender, responses/replies to the pre-bid queries are attached as Appendix-II. Further, following amendments/modifications/ additions /corrections are also issued to the same, keeping all other terms & conditions of the tender including date of submission/opening of the technical bid same:

- 1. Line Item no. 3 of SOR Schedule- ‘A’ of Packages: Northern, Western, Eastern and Southern of Chapter-2 in the tender document may be read as under:**

3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24” 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption , and all other required accessories
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- 2. Note-I (e) of Schedule of Requirement of Chapter-2 in the tender document may be read as under:**

(e)	The bidder must ensure that the capacity of storage system supplied at the Station should be supplied with an additional 50% capacity over and above the capacity required for 30 days recording computed on the basis of cameras given for respective station from day one. The storage capacity should be calculated considering RAID6 configuration. The additional capacity is required to meet the compliance requirement of keeping the flagged/marked images/video footage as a evidence required by the RPF/GRP/Appropriate authority for investigation purpose and also to cater the
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	<p>requirements of provision of any new cameras on the station. Bidder is advised to quote the unit rate against each category of stations considering the above total capacity requirements.</p> <p>In case more storage capacity in addition to the above mentioned is required in the storage system then the cost towards the additional capacity in terms of Tera Byte (TB) would be calculated on pro-rata basis on the lowest per TB cost among the offered storage systems against the A1/A/B category of stations.</p>
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3. Note-V of Schedule of Requirement of Chapter-2 in the tender document may be read as under:

V	<p>Bidder should submit the soft copy (Word/Excel/PDFs format) of offer in DVDs/USB's. Bill of Material (BOM) must be in PDF as well as Excel format (except price bid). Bidder is allowed to quote only for a single Make/Model of the quoted items along with the offer. The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, edge devices, workstation, storage, large video displays units, VMS Software, switches (Type-I, II, III and IV separately), Firewall and NMS. DIFFERENT OEM(S) ACROSS PACKAGES IS NOT PERMITTED. Offers without particulars of Make/Model or multiple OEMs of same item shall be liable to summarily rejected.</p>
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4. 30 days recording of camera feeds shall be stored at Station/RPF/GRP Chowki/Thana/Post. Therefore, reference mentioned for “7 days” under clause 3.B.4.2, 3.B.4.3, 3.B.4.4, 3.B.4.5, 3.B.5 and other clauses/conditions of the tender may be read as “30 days” in line of the above.

5. Modifications/additions in Clause nos. 4.A.8 in Chapter 4-A and 5.0 of Annexure-II (Service Level Agreement (SLA) and Penalties) of Tender Document is enclosed as Appendix-I.

6. Clause 4.A.6 Performance Bank Guarantee (Security Deposit) in the tender document may be read as under:

4.A.6 Performance Bank Guarantee (Security Deposit)

4.A.6.1 The bidder is required to submit a Performance Bank Guarantee (PBG) within 15 days of the issue of LOA as per BDS (chapter-5) for the satisfactory performance of materials covered in SOR given in Chapter 2 valid for a period of 4 months beyond warranty period. The earnest money shall be released on submission of PBG. The Proforma for PBG is given in Chapter 6 Form No. 1. If the delivery period gets extended, the PBG should also be extended appropriately.

Extension of time for submission of PBG beyond 15(**fifteen**) days and up to 30 days from the date of issue of LOA may be given with the approval of contract signing authority. However, a penal interest of 15% per annum shall be charged for the delay beyond 15(**fifteen**) days, i.e. 16th day after the date of issue of LOA. In case the contractor fails to submit the requisite PBG even after 30 days from the date of issue of

LOA, the contract shall be terminated duly forfeiting EMD and other dues, if any payable against that contract. The failed contractor shall be debarred from participating in re-tender of the work.

7. SN.2 of 4.A.14.1 Eligibility Criteria Requirements for Bidders in the tender document may be read as under:

Satisfactory Working of Model Offered	Each offered model or its immediate predecessor in the same series/family (an undertaking by the OEM has to be submitted in support in case of immediate predecessor) of equipment for camera, server, storage, switches, edge device, firewall, UPS and VMS software should have been working for at least six months in India or Abroad.
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8. Note of SN. 3 of 4.A.14.1 Eligibility Criteria Requirements for Bidders in the tender document may be read as under:

Financial Capability	In case of Consortium/JV, each member's relevant turnover combined together shall be considered against the above mentioned financial capability criteria.
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9. New Note added Note no. VI of 4.A.14.1 Eligibility Criteria Requirements for Bidders in the tender document may be read as under:

VI	Legal Entity requirement under SN.1 of clause 4.A.14.1 of Chapter 4A shall be met by the lead bidder in case of consortium/JV bidder.
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10. Clause 4.A.36.2 of Chapter-4 A in the tender document may be read as under:

4.A.36.2	BIDDER HAS TO MANDATORY QUOTE FOR ALL THE ITEMS OF SCHEDULE-‘A’, ‘B’ AND ‘C’ OF THE PACKAGE/S BEING QUOTED. THE INCOMPLETE SOR WILL NOT BE ACCEPTED AND IF FOUND THE OFFER IS LIABLE TO BE REJECTED.
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11. New Note added Note no. XV in SOR of Chapter-2 in the tender document may be read as under:

XV	Along with the server, bidder is required to propose necessary hardware/software required for remote management of servers like IPMI Port with KVM over LAN or equivalent. Remote management functionalities includes remote OS/Software updation/installation, reboot, shutdown etc.
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12. **3rd para of Clause no. 7.17, Settlement of Dispute and Arbitration of Annexure-II: Detailed standard conditions applicable for the Annual Maintenance Contract in the tender document may be read as under:**

The arbitral tribunal shall consist of the sole Arbitrator if the value of claim is up to Rs. 10 lakhs. The arbitrator will be mutually appointed by the Chairman & Managing Director of RailTel Corporation of India Ltd and the bidder. If the value of claim or amount under dispute is more than Rs. 10 lakhs, the matter shall be referred to arbitral tribunal consisting of three arbitrators with each Party nominating its arbitrator and both the arbitrators appointing the third and presiding arbitrator.

AND

Clause 4.A.29 of Chapter-4A: COMMERCIAL TERMS & CONDITIONS

Appointment of arbitrator shall be as per above para of clause 7.17 of Annex-II.

13. **Specification no. 7 of item no. 8.8 of Chapter-8 in the tender document may be read as under:**

7	Should support 802.1D spanning tree control/RSTP support, DAI.
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14. **Specification no. 21 of item no. 8.9 of Chapter-8 in the tender document may be read as under:**

21	Should support following security features viz.: i) SSL (HTTPS)/SSH, ii) Broadcast/Multicast/Unicast Storm Control, DoS Attack Prevention/ DAI
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15. **Specification no. 29 of item no. 8.10 of Chapter-8 in the tender document may be read as under:**

29	Switch should have SAFETY CERTIFICATE of UL.
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16. **Specification no. 4 of item no. 8.11 of Chapter-8 in the tender document may be read as under:**

4	Should have AC/DC power supply arrangement as given below without any external adaptors with redundant power supply: i) AC power supply 100 to 240 V AC with 50 to 60 Hz ii) -48 V DC supply RailTel will specify the requirement of power supply arrangement on the basis of site requirement as identified during the site survey by the contractor.
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17. Specification no. 18 of item no. 8.11 of Chapter-8 in the tender document may be read as under:

18	"OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted)
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18. Specification no. 3.3 of item no. 8.17 of Chapter-8 in the tender document may be read as under:

3.3	NG Firewall should support at least 15,000 connections per second
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19. Specification no. 2 (General Features) of item no. A of 8.26 of Chapter-8 in the tender document may be read as under:

2	The Network Management System should be licensed for asked managed switches for a regional HQ. Management system should have scalability to manage minimum 5000 managed switches.
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20. Form factor of Edge device as specified in RDSO Specification RDSO/SPN/TC/65/2016 Rev. 4.0 Amendment 1.0 under clause 4.2.10 is specified as "Ultra Compact Form Factor (UCFF) of the range of 4"x4" or similar".

21. BIDDERS QUOTING FOR MORE THAN ONE PACKAGE ARE REQUIRED TO SUBMIT SINGLE TECHNICAL SOLUTION AND SUBMIT ONE TECHNICAL BID ACCORDINGLY FOR ALL FOUR PACKAGES. (PLEASE REFER NOTE-V OF SOR)

SUBMISSION OF PRICE BIDS WILL BE IN ACCORDANCE TO NOTE-II OF CLAUSE 4.B.7 OF CHAPTER-4B OF TENDER DOCUMENT.

This Corrigendum-VI along with Corrigendum-V including replies/clarifications to the pre-bid queries form integral part of the tender document.

The bidder is required to submit compliances to the tender document issued vide Corrigendum-V and to the Corrigendum-VI including replies/clarifications to the pre-bid queries along with their bid.

Appendices: I - SLA related (3 pages).

:II- Replies/Clarifications to the pre-bid queries (64 pages).

**(Sanjai Kumar)
Group General Manager/Project**

Appendix-I

Modifications/additions in Clause nos. 4.A.8 in Chapter 4-A and 5.0 of Annexure-II (Service Level Agreement (SLA) and Penalties) of Tender Document

4.A.8.4. (Existing clause) may be read as under:

The contractor must ensure the up-time efficiency 95% for the station under each cluster being offered as part of video surveillance solution, upto the end of the AMC period of 5 years. The up-time would be monitored and calculated on the monthly basis and no relaxation or consideration would be made for the non-availability of the back-up/stand-by system. Below 95% up-Time efficiency shall attract penalty in any type of failure.

4.A.8.14 to 4.A.8.18 (New Clauses)

4.A.8.14 Up Time Availability:

The system shall be available for minimum 95% up time availability. The uptime availability will be calculated as follows:

$$\text{UP TIME EFFICIENCY} = \{ (\text{POT} - \text{PMT} - \text{DT}) \times 100 \} / (\text{POT} - \text{PMT})$$

POT - Power on time.

PMT - Preventive Maintenance Time, if any, (to be approved by Rly before starting AMC)

DT - Down Time i.e. unproductive time for malfunctioning of the system or sub system.

4.A.8.14.1 Preventive maintenance time for system and sub-system put together shall not exceed 30 hours in a month.

4.A.8.14.2 Preventive maintenance shall be carried out so as to ensure high system UP time and to forestall any major system failure. However, preventive maintenance should not result a total shut down of the system, keeping in view of the working of control office.

4.A.8.14.3 Total system shut down can be permitted for maximum period of 120 minutes on one occasion only during night time i.e. after 01:30Hrs in night, when trains are few in the section. Maximum such occasions during a month shall not exceed 4.

4.A.8.14.4 Any major work related to Software/Hardware up - gradation which needs more than 120 minutes block period, if required, can be granted with prior permission of Railways and the period shall be counted as PMT.

4.A.8.15 (New Clause)

Total Down Time (DT) shall be calculated based on weightage given to various sub-system failures mentioned below:

4.A.8.15.1 Equipment in Monitoring Room

Sr No.	Equipment/subsystem	Down Time	Weightage
1	VMS and VRS		100%

	server, External Storage		
2	switch		100%
3	PC work station		50%
3	Display		50%
3	UPS (both equipments)		100%
4	Any item not listed above		10%

4.A.8.15.2 Way Side Station Equipments:

Sr No.	Equipment/subsystem	Down Time	Weightage
1	Platform Lan Switch		50%
2	VSS camera		20%
3	Networeking		20%
4	Any item not listed above		10%

4.A.8.15.3 The Down Time counting of wayside equipments is as below:

4.A.8.15.3.1 Any equipment failure in way side section, a standard time of 2 Hrs. will be given as travelling time for reaching the service Engineer at site. The initial 02 hours from the time of failure logged in from field station will not be counted as down time.

4.A.8.15.3.2 The following, if unavailable shall be termed as Total System Failure (Crash)

- Both VMS and VRS server
- External storage
- LAN switches
- LAN network
- both PC workstation simultaneously.
- Failure of UPS at Monitoring Room.
- Complete system failure due to software (system crash).

Note: More than Two crashes (irrespective of duration) per month shall attract penalty. For crashes more than 4, penalty will be doubled.

4.A.8.16 RailTel/Railways shall deduct penalty for shortfall in system availability, calculated on monthly basis, as per rate indicated hereunder:

4.A.8.16.1. System crash (complete system failure) exceeding more than 2 occasions but less than 4 in a month, 1% of the Total monthly AMC charges of complete system , for every hour or part thereof of the system failure. System crash beyond 4 occasions in a month, 2% of the monthly maintenance charges for every hour or part thereof of the system failure.

4.A.8.16.2. Complete system failure is more than 45 minutes (on one occasion), 1% of the

monthly AMC charges for every hour or part thereof of the system failure.

- 4.A.8.16.3. For System, UP time availability is less than 95 %, 1% of the monthly AMC charges for every hour or part thereof the system Down Time (weighted) beyond the permissible hours.

Note: Total penalty added together in above 3 situations over a month for failure to maintain the promised level of system availability shall be limited to 10% of Maintenance charges payable to the contractor in a month.

In the monthly uptime availability during the Annual Maintenance Contract period falls below 95% or any critical component of the configuration of VSS installation under the scope of work under this contract goes out of service for more than three days, Railways reserve the right to serve notice to the firm and undertakes to replace defective system by a proven system/subsystem at the risk and cost of the firm. Railways reserve the right to encash the Performance Bank Guarantee bond and recover any additional amounts by way of damage suffered.

4.A.8.17 **Example for Calculation of Efficiency:**

During 24 Hours, if main VMS/VRS server failed from 10:00hrs to 11:00hrs, any one workstation failed from 15:00hrs to 19:00hrs, one Display failed from 03:00hrs to 13:0113.00 hrs & preventive maintenance taken 1hr, so efficiency shall be calculated as under:

Main server failure = 1hr

Other controller terminal failure = 4hrs

One no. VDU failure = 10hrs

Total down time = $1 \times 1 + 4 \times 0.25 + 10 \times 0.1 = 3$ hrs

DT = 3 hrs

POT = 24 hrs

PMT = 1 hr

UP TIME EFFICIENCY = $(POT - PMT - DT) / (POT - PM) \times 100$

= $(24 - 1 - 3) / (24 - 1) \times 100$

= 86%

As the Up Time efficiency is less than 95%, hence the penalty will be calculated as per clause above.

Total penalty = 1% of the Monthly AMC charges x 3hrs

- 4.A.8.18 Any absence of service Engineer/s on any shift in a day shall invite penalty of a deduction to the tune of 3 times the average daily rate of Annual maintenance charges.

RailTel Replies/Clarifications to the Pre-Bid queries held on 30-11-2017						Appendix-II
RailTel Tender No. RailTel/Tender/OT/CO/P/2017-18/VSS/403						
SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	RailTel Response
1	Chapter-2 - Schedule of requirement: PACKAGE-I: NORTHERN - Schedule A	8	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories	Specifications of 500VA UPS Systems has not been specified in the RFP. Request to kindly share the technical Specifications of the same. Also, it is requested to kindly clarify 500 VA UPS required is Offline or Online type & battery backup required for 500 VA UPS with 'VAH' Capacity.	1. UPS should back up for 30 minutes power failure without interruption. 2. Yes, UPS is required with inbuilt surge protection. 3. Warranty as per Tender.
2	Chapter-2 - Schedule of requirement: PACKAGE-I: NORTHERN - Schedule A	12	34	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories at Regional HQ, Rail-way Board or other authorized location to access the application hosted at respective stations and all accessories required for installation	Also, kindly clarify the meaning of " spike buster " 500 VA UPS. Does it imply that 500 VA UPS is required with inbuilt surge protection device (SPD) ? Warranty on batteries for UPS may be considered for 1 year/ 2 years being a consumable item.	Same as above
3	Chapter-2 - Schedule of requirement: PACKAGE-II: WESTERN - Schedule A	17	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories		Same as above
4	Chapter-2 - Schedule of requirement: PACKAGE-II: WESTERN - Schedule A	21	34	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories at Regional HQ, Rail-way Board or other authorized location to access the application hosted at respective stations and all accessories required for installation		Same as above
5	Chapter-2 - Schedule of requirement: PACKAGE-III: EASTERN - Schedule A	25	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories		Same as above
6	Chapter-2 - Schedule of requirement: PACKAGE-III: EASTERN - Schedule A	29	34	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories at Regional HQ, Rail-way Board or other authorized location to access the application hosted at respective stations and all accessories required for installation		Same as above
7	Chapter-2 - Schedule of requirement: PACKAGE-IV: SOUTHERN - Schedule A	34	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories	Specifications of 500VA UPS Systems has not been specified in the RFP. Request to kindly share the technical Specifications of the same. Also, it is requested to kindly clarify 500 VA UPS required is Offline or Online type & battery backup required for 500 VA UPS with 'VAH' Capacity.	Same as above
8	Chapter-2 - Schedule of requirement: PACKAGE-IV: SOUTHERN - Schedule A	38	34	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS , and all other required accessories at Regional HQ, Rail-way Board or other authorized location to access the application hosted at respective stations and all accessories required for installation	Also, kindly clarify the meaning of " spike buster " 500 VA UPS. Does it imply that 500 VA UPS is required with inbuilt surge protection device (SPD) ? Warranty on batteries for UPS may be considered for 1 year/ 2 years being a consumable item.	Same as above
9	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-1	Capacity - 1KVA/800 W, better as per actual requirement	It is requested to kindly amend the clause to read as 1 KVA/ 700W i.e. Output Factor - 0.7 Lag, which is as per industry standards	As per Tender.
10	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-5	Input power factor correction - 0.99	It is requested to kindly amend the Input Power Factor to ≥ 0.9 , which is as per industry standards.	As per Tender.
11	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-7	Output Power factor - 0.8	It is requested to kindly amend the clause to read as " Output Factor - 0.7 Lag ", which is as per industry standards	As per Tender.
12	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-9	frequency (output) - 50Hz/60Hz frequency	Kindly amend Output Frequency to 50Hz ($\pm 0.5\%$) as 60 Hz is not relevant for Indian Power Conditions.	"50/60 Hz" should be read as "50 Hz ($\pm 0.5\%$)".
13	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-10	Voltage Range (Bypass) - 120VAC~288VAC	It is requested to kindly amend the clause to read as: " Input Voltage Range - 160V AC-270V AC " which is as per industry standards & covers the voltage variation issues prevalent in Indian Sub Continent.	As per Tender.
14	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-12	PF - ≥ 0.99	It is requested to kindly amend the Input Power Factor to ≥ 0.9 , which is as per industry standards.	As per Tender.

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RailTel Tender No. RailTel/Tender/OT/CO/P/2017-18/VSS/403						
SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	RailTel Response
15	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-21	Port - USB	USB/ RS 232 may kindly be allowed.	As per Tender.
16	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-22/ 23	Battery Type - SMF Battery backup - 1 Hrs. on full load (Single bank)	It is requested to kindly specify Minimum VAH capacity. This will provide common platform to all prospective bidders. "Suggested Minimum VAH: 1500 VAH". Also, warranty on batteries may be specified for 2 years being a consumable item.	As per Tender.
17	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-24 C	Tel line surge protection - inbuilt	It is strongly recommended to consider UPS with Inbuilt transformer to enable galvanic isolation between input & output (as per GEM/ DGS&D/ NIC Specifications) in order to provide adequate protection to sensitive loads from the variations of input power supply prevalent in many parts of the country.	As per Tender.
18	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-24 F	Size - not more than 2U rack mountable	It is requested Tower Type may be considered. Tower Type UPS are easy in transportation & for rugged use. Rack type arrangement may not be ideally suited for rugged use. Hence it is requested to kindly amend the UPS requirement to Tower Type/ Rack type UPS Systems.	As per Tender.
19	Chapter-8 - Technical Requirements & Specifications	217	8.18. UPS 1KVA: S. No.-25	Mechanical Parameter - EMI Safety - EN Performance - IEC/EN	It is requested to kindly consider CE certificate as it will suffice all the mentioned standards. Additionally, BIS certification may be specified as it is mandatory as per GOI notification to this effect.	As per Tender.
20	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-1	Capacity - 2KVA/1600 W	It is requested to kindly amend the clause to read as 2 KVA/ 1400W i.e. Output Factor - 0.7 Lag, which is as per industry standards	As per Tender.
21	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-5	Input power factor correction - 0.99	It is requested to kindly amend the Input Power Factor to ≥ 0.9 , which is as per industry standards.	As per Tender.
22	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-7	Output Power factor - 0.8	It is requested to kindly amend the clause to read as "Output Factor - 0.7 Lag" , which is as per industry standards	As per Tender.
23	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-9	frequency (output) - 50Hz/60Hz frequency	Kindly amend Output Frequency to 50Hz ($\pm 0.5\%$) as 60 Hz is not relevant for Indian Power Conditions.	As per Tender.
24	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-11	PF - ≥ 0.99	It is requested to kindly amend the Input Power Factor to ≥ 0.9 , which is as per industry standards.	As per Tender.
25	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-20	Port - USB	USB/ RS 232 may kindly be allowed.	As per Tender.
26	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-21/ 22	Battery Type - SMF Battery backup - 1 Hrs. with full load	It is requested to kindly specify Minimum VAH capacity. This will provide common platform to all prospective bidders. "Suggested Minimum VAH: 3000 VAH" Also, warranty on batteries may be specified for 2 years being a consumable item.	As per Tender.
27	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-23 C	EPO function - Yes	It is requested to kindly make this requirement OPTIONAL & specify MCB at input/ output in lieu.	As per Tender.
28	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-23 D	Tel line surge protection - inbuilt	It is strongly recommended to consider UPS with Inbuilt transformer to enable galvanic isolation between input & output (as per GEM/ DGS&D/ NIC Specifications) in order to provide adequate protection to sensitive loads from the variations of input power supply prevalent in many parts of the country.	As per Tender.
29	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-23 G	Size - not more than 2U rack mountable	It is requested Tower Type may be considered. Tower Type UPS are easy in transportation & for rugged use. Rack type arrangement may not be ideally suited for rugged use. Hence it is requested to kindly amend the UPS requirement to Tower Type /Rack Type UPS Systems.	As per Tender.
30	Chapter-8 - Technical Requirements & Specifications	218	8.19. UPS 2KVA: S. No.-24	Mechanical Parameter - EMI Safety - EN Performance - IEC/EN	It is requested to kindly consider CE certificate as it will suffice all the mentioned standards. Additionally, BIS certification may be specified as it is mandatory as per GOI notification to this effect.	As per Tender.
31	CHAPTER 8/ TYPE 1 SWITCH	195	7	Should support 802.1D spanning tree control/RSTP support, DA1, IP source guard sflow.	Please remove IP source guard sflow.	Please refer to point no. 13 of Corrigendum-VI.
32		195	8	Should support management features like Web-based GUI, SNMP, TFTP Client, System Log, DHCP/BootP Client and Should support Optical Transceiver Digital Diagnostic Monitoring.	Please remove Optical Transceiver Digital Diagnostic Monitoring.	As per Tender.
33		195	16	Should support following for min. 64 Groups :i) IGMP Snooping,ii) IGMP v1/v2/v3 awareness Snooping,iii) IGMP Snooping Queried.	Please remove IGMP v3 awareness snooping in the specs.	As per Tender.
34		195	17	Should support Port-based VLAN. 802.1Q Tagged VLAN & Voice VLAN along with Management VLAN.	Please remove Voice VLAN. It is applicable in case of VOIP environment. The current project is for IP Surveillance and NO need to have voice VLAN support in the switch.	As per Tender.
35	19" 42U Rack	222	10	Material used: CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm	Please specify like: Main pillars 1.6mm, 19" angle 2mm, panels and doors - 1mm (industry standard)	
36	19" 42U Rack	222	11	The rack should be fitted with one modem tray 19".	Please ask clearly like: Cantilever Tray	
37	19" 42U Rack	222	9	Adequate and Redundant power distribution units with electronically controlled circuits for surge and spike protection, isolated input to ground and output to ground.	Please provide missing details like number of sockets and details of MCB (rating) required.	
38	8.24 Telecom Rack (9U, 19", Wall mounted)	221	9	Cable Manager: 1 no. horizontal and 1 no. vertical cable manager with cable loops to be provided with each rack.	Since it is wall mount rack, it is not advisable to have vertical cable manager. Kindly remove from the specs.	
39	8.24 Telecom Rack (9U, 19", Wall mounted)	221	5	Rear side: MS CRCA door plain having ventilation holes bottom side with dust filters.	Since it is wall mount rack, it is not advisable to ventilation holes. Kindly remove from the specs.	

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40		195	32	Switch should support following SNMP traps or syslog(i) Interface UP & Down(ii) Optical Power SFP threshold alarms(iii) STP Topology Changes and New root bridge(iv) LLDP table changes(v) Threshold alarms for Temperature	Please remove below 02 points.ii) Optical Power SFP threshold alarms(v) Threshold alarms for Temperature	As per Tender.
41	4.A.14.1	76		Eligibility Criteria Requirements # Similar Work: Works entailing completion of Supply, Installation, Testing and Commissioning of a project comprising of Integrated IP based video surveillance work for central government or any state government or semi / quasi-government entities or Public Sector Units or private enterprises having turnover of atleast 500 crores.	Recommend to amend as:# Similar Work: Works entailing completion of Supply, Installation, Testing and Commissioning of project in the business areas of ICT/IT Infrastructure / IT, ITES for central government or any state government or entities or Public Sector Units or private enterprises having turnover of at least 500 crores.	As per Tender.
42	5	99	Clause 4.A.36	Last Date of submission of offer	May like to request M/s Railtel authorities to consider the last date of submission of offer by atleast 4 weeks.	As per Tender.
43	4	82	Clause 4.A.23	Certain benefits/preferential treatment shall be extended to the registered MSEs as per guidelines issued in the latest notification of Ministry of MSME/ Government of India.	It has been learnt that M/s.Telecommunications Consultants India Limited(TCIL) is empanelled in RAILTEL that construes that we already have fulfilled the eligibility criteria.It is requested to kindly remove the eligibility criteria for this Tender for empanelled bidders in RAILTEL.	As per Tender.
44	4	74	Clause 4.A.14.1.5	Experience in Video Surveillance(Technical Capability)	It has been learnt that TCIL is empanelled in RAILTEL that construes that we already have fulfilled the eligibility criteria. It is requested to kindly review this eligibility criteria for this Tender for empanelled bidders Also , we may request the RailTel authorities to reconsider the requirement of # similar work: Works entailing completion of Supply, Installation, Testing and Commissioning of a project comprising of Integrated IP based video surveillance work for central government or any state government or semi/quasi-government entities or Public Sector Units or private enterprises having turnover of at least 500 crores to be relaxed to turnover less than 500 crores.	As per Tender.
45	Note	27	VIII	The bidder can offer a Edge device or Edge server based solution or combination of both for 7 days recording at the A1, A, B and C category of stations mentioned in the each package i.e. Northern, Western, Eastern and Southern. Bidder to offer unit rates against each category of station in the price bid, however, the edge device/edge server quantity calculated by the bidder to design the 7 days video footage recording system should be sufficient to cater for 25% increase in camera quantities. Bidder will submit the calculations duly mentioning the numbers of edge device/edge server being planned against each category of stations.	As there is requirement for Storage of 7 days , Kindly reconfirm that the VMS license quantity is equal to the number of cameras or we need to take 25 % additional license as well.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
46		196	26	Operating Temperature of the Switch should be min -0 to 50 °C.	Operating Temperature of the Switch should be min -0 to 45 °C.	As per Tender.
47		197	11	Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	we request to change & consider IEEE 802.1w sub second failover	As per Tender.
48		197	24	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 50 °C II) Storage Temperature - min -10 to 70 °C	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 45 °C II) Storage Temperature - min -10 to 65 °C	As per Tender.
49	ii	24	No. of Cores & No. of Processors	Minimum 8 Cores in Single Processor PC	Clarification required is whether workstation needs to be quoted with single socket or dual socket	Clause is self explanatory.
50	vii		Operating System	Windows Operating System or Linux, latest	Clarification required whether workstation should be embedded /preloaded with windows or linux or just certification that our product is certified on linux too.	Clause is self explanatory.
51	ix		Graphics Card	One no. of dual Port 4 GB NVIDIA Graphic Card	Request you to add AMD graphics	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.
52	8.3	193			we request hardware OEM should be considered to be listed Top 5 Companies, Worldwide Server Vendor Revenue, Market Share, and Growth, Second Quarter of 2017 (Revenues are in Millions)	As per Tender.
53	8.22 Network Management System (NMS)	214	Note	It is desirable that as per the industry practices, the contractor may like to integrate the monitoring systems to have monitoring status of all network equipments, DCPS etc. as requested in the RFP on a single common GUI.	We request department to make this clause mandatory as this will not only save the infrastructure sizing resources across 4 regions but also gives a centralized, unified & scalable solution which can discover, map, monitor & manage the network equipments across Northern, Western, Eastern & Southern regions. All the monitored nodes can be grouped in to 4 geographical web views, wherein the relevant stakeholders can drill down to domain specific topology, events/alerts, incidents etc for analysis & reporting. We request RailTel to rephrase the clause as : "It is required that as per the industry practices, the contractor would need to integrate the monitoring systems to have monitoring status of all network equipments, DCPS etc. as requested in the RFP on a single common GUI."	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
54	8.22 Network Management System (NMS)	211		Do we need DR for the NMS Software?		As per Tender.

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55	4.A.14.1.3	78	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEMs supplying camera, switch & accessories and INR5000 crores for OEMs supplying IT hardware (server) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	1. Camera and Switch OEM's turnover for the last FY is 10 crores. (Higher turnover will kill the competition and low turnover will give a chance to small OEM to become the part of this prestigious project)	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
56	8.7	196	31	Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL or equivalent (Safety product testing has been tested by UL and many more labs)	As per Tender.
57	8.8	197	28	Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL or equivalent (Safety product testing has been tested by UL and many more labs)	As per Tender.
58	8.9	200	18	OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner. (Documentary support to be submitted)	"OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR "OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
59				We offer to supply various equipment at the rates quoted in the attached schedules and hereby bind my-self/ourselves to complete the work wrthrn 90 days from the date of issue of Purchase Order/LOA.		No clarification sought by the bidder.
60	4.A.14.1	73-74	3	The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender. For Package-I: Northern Region: Rs. 129.9 Crores For Package-II: Western Region: Rs. 128.4 Crores For Package-III: Eastern Region: Rs. 191.1 Crores For Package-IV: Southern Region: Rs. 190.8 Crores Note:- In case of Consortium/JV, each member's relevant turnover shall be considered against the above mentioned financial capability criteria.	The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender. For Package-I: Northern Region: Rs. 30 Crores For Package-II: Western Region: Rs. 30 Crores For Package-III: Eastern Region: Rs. 50 Crores For Package-IV: Southern Region: Rs. 50 Crores Note:- In case of Consortium/JV, each member's relevant turnover shall be considered against the above mentioned financial capability criteria.	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
61	4.A.14.1	74-75	5	The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 30.31 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 29.96 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 44.59 crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 44.52 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.	The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 5 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 5 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 7.5 crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 7.5 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
62	4.A.14.1.3	78	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEMs supplying camera, switch & accessories and INR5000 crores for OEMs supplying IT hardware (server) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR 7 crores for OEMs supplying camera, switch & accessories	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
63	8.7	196	31	Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL or equivalent	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
64	8.8	197	28	Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL or equivalent	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
65	8.9	200	18	OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner. (Documentary support to be submitted)	OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bidOR"OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical bid.)	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
66	8.1	200	6	Should support DDMI/DOM feature. Option should be available for SFP+/XFP	Should support DDMI/DOM feature. Option should be available for SFP	As per Tender.
67	4.A.14.1	73	1	The bidder should be Original Equipment Manufacturer (OEM) of Camera (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be manufactured for supply. The OEM should have proven facilities for engineering, manufacture, assembly, integration and testing of VSS system and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to be supplied.	The bidder should be Original Equipment Manufacturer (OEM) of Camera (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be manufactured for supply. The OEM should have proven facilities for engineering, manufacture, assembly, integration and testing of VSS system	As per Tender.

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68	4.A.14.1	74-75	5	The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 30.31 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 29.96 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 44.59 crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 44.52 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.	The bidder or its group company with same ultimate parent should have completed I. Package I : Northern At least one similar work# worth of INR 30.31 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 29.96 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 44.59 crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 44.52 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
69	4.A.14.1	75	5	In case of Consortium/JV Only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.	In case of Consortium/JV Lead bidder or any one of consortium member shall be considered against the above mentioned criteria of similar work experience.	As per Tender.
70	3.A.1.4	33	General & Overall Observation on SoW & design	Overall system architecture, design basis pertaining to Video Management Software for Recording of Video for 7 Days at Local Level and at MDC (in 2nd phase)	1. As such there is no mention of any video management software at local level for recording & storing video for 7 days. How do you intend to store the data in absence of video management application? 2. Do you intend to purchase only suitable hardware for this purpose? OR 3. If yes, how & when do you intend to purchase the Video Management Software for local level as well. OR 4. Do you intend to purchase hardware NVR with pre installed proprietary recording software? 5. If yes, such embedded proprietary NVRs cannot be complied to latest RDSO Specs. Please elaborate further on overall system design and architecture	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
71	3.B.5	47	Recording Paramaters	Recording Parameters for Local & MDC site - It is understood that in the current RFP, the design basis is to record one stream of each camera type at local station/thana etc. and another stream of each type of camera will be given to MDC (in second phase of the project).	1. In case of local recording of one of the stream by local recording server/appliance (which may be from manufacturer xx) in the current project and another stream at MDC wherein the solution/technology/architecture may be different, how do you intend to ensure inter operability and multiple technology handling same camera? 2. Who will be having the ownership of ensuring SLAs? 3. Which technology (local level or MDC) will be the master controller of the cameras? 4. The best practices of such large enterprise grade surveillance system do not suggest so many interdependencies and multiple systems handling same camera. Such design will be prone to faults, ownership issues and long downtimes.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
72	3.A.1.16	39	Supply of software	License should be in favor of M/s REL	Is Edge server Operating System part of software supply of this tender? If so, Operating system, being a critical part, kindly confirm that the OS shall be licensed in favor of REL	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
73	8.3/a.x	193	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
74	8.3/b.x	193	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
75	8.3/c.x	194	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
76	3.A.1.10	37	Training	Introduction to computers, Servers, and their configuration and operations	Operating system & application software training to be included.	The successful bidder shall submit the detailed training programme as per the offered solution, as per Tender conditions which shall be approved by the purchaser.
77	Chapter-3/C	48	Management System	Management of various component of solution	Operating system of large number of servers to be managed for its patch/update management, life cycle management, etc. kindly confirm if a central management system is required?	As per Tender.
78	3.A.1.4	34	3.A.1.4.6	Supply of Software and Warranty/AMC	Kindly confirm if the Operating System provided shall have OEM Support roadmap for 8-10 Years	Yes.
79	General				Please confirm the applicability of order dated 15th June 2017 from Ministry of Commerce, Government of India Order regarding preference to Made & Make in India products for Public Procurement. Also confirm the methodology of implementing such order for this specific project for the sake of clarity to all the bidders & manufacturers.	PMA policies issued by MEITY (Govt. of India) are not applicable as on date. Public procurement (make in India) order 2017 issued by DIPP (Govt. of India) doesn't have any provision for preference to domestic manufacturer in case of Turnkey projects.
80	CHAPTER- 2	8		CHAPTER- 2 SCHEDULE OF REQUIREMENT	We don't see any VMS software in this schedule? How will the videos be managed and recorded? We request to add the VMS software and server at each station so as each station can function independantly (Management as well as recording) even in absense of central infrastructure.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
81	CHAPTER- 2	10	PACKAGE I: NORTHERN - 28	Supply, Installation, Testing and commissioning of Seven days video footage recording system at each station as defined in clause 8.2 of chapter 8.	1) What about the software for these recording equipment? 2) Local clients are expected to get the video feeds from these local recording system or from central recorders in mini data centers (Not in the scope of this tender)?	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.

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82	CHAPTER- 2	27	VIII	The bidder can offer a Edge device or Edge server based solution or combination of both for 7 days recording at the A1, A, B and C category of stations mentioned in the each package i.e. Northern, Western, Eastern and Southern.	1) Is it expected to have integration between local station Edge Device or Edge Server with software to be supplied in Mini-data centers (Not in this tender scope)? 2) If yes, then Edge device shall not be permitted in this tender as they are a propriety devices with in-built propriety software. 3) What if the Edge Device or Edge server supplied by bidder in this tender is not compatible or lower specification than the software offered in Centralized mini data centers in second tender?	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
83	CHAPTER- 2	28		SPLITTING OF SOR: The distribution of SOR for each package will be done between TWO TENDERERS by splitting it in the ratio of 60:40 (The quantity for L-1 will be calculated first @60% of total quantity, rounded off to the nearest whole number. The remaining quantity will be offered to L-2	If Bidder A is L1 and Bidder B is L2 in any package i.e. PACKAGE I: NORTHERN, then 60% of each of the item withing this package will go to L1 and 40% to L2? If this is correct then at each station there will be two companies working together and may be supplying different make/model/specification products.	As per Tender.
84	CHAPTER- 3	34	3.A.1.4.4	Supply of complete hardware components for the proposed solution (cameras, servers, PC workstations, LED displays, manageable switches etc.) including AMC and Warranty.	We assume the software (Including Server, workstation Operating system software) required for all these hardware components will be suplied by winner of Minidatacenter tender winner ?	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
85	CHAPTER- 3	34	3.A.1.4.6	Supply of all software/licenses for the solution including periph-eral applications, middleware, environmental software or any oth-er related software/licenses as required in the proposed solution (Including AMC and Warranty).	Looking at the SOR, there is no software/licenses in the scope of this tender. So this clause shall be deleted.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
86	CHAPTER- 3	34	3.A.1.4.11	To demonstrate the functioning of all the modules of software and features of hardware component as and when required by Railways.	As software is not part of this tender, this clause shall be modified to cover only hardware.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
87	CHAPTER- 3	35	3.A.1.4.17.1	The bidder is required to assist & support the bidder of cen-tral Infrastructure work in integration of the installed station-level IP cameras and Servers with the central VMS System.	Whether local system will control the paramter settings in the camera or central system will have the control? Please note the edge device management is supposed to be taken care by only one system at a time.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
88	CHAPTER- 3	38	3.A.1.11	The VSS shall be considered to be commissioned only after successful completion of the SAT, Trial Run, successful completion of 12 months of Maintenance Super-vision after issue of PAC and after issue of Final Acceptance Certificate (FAC).	As it is not practical to make the system fully operational without software (Which is not in scope), the system shall be considered comissioned after successful installation of all the supplied items.	As per Tender.
89	CHAPTER- 3	46	3.B.4.2	B Type Railway Station may have dedicated monitoring set-up and control room for monitor-ing and controlling all respective cameras. Railway Police Force users will monitor this sys-tem for related area that falls under their preview. B Type Railway Station will also have a local recording facility for at least 7 days. Moreover, system design should also support random monitoring through client applications from Re-cording facility available at Mini Data Centre sites.	1) We assume the software application supplied by Central system tender winner shall be used to set-up, monitor and control of the cameras and recording. 2) Local server/edge device need to transfer the video to central system after 7 days?	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
90		47	2.ii	ULL HD stream (@1080P, minimum 3Mbps Bandwidth, @25FPS) from 4K Camera and One UHD stream at resolution 3840x2160, minimum 8Mbps Bandwidth, @ 25 FPS from 4K UHD Camera	1) Please note it is not practical for Ultra HD 4K cameras to provide Stream 1-FULL HD stream (@1080P, minimum 3Mbps Bandwidth, @25FPS) and Stream 2 - resolution 3840x2160, minimum 8Mbps Bandwidth, @ 25 FPS simultaneously. As the Ultra HD 4K stream itself consume the complete processing power of camera, it can not provide the second stream at different resolution and FPS. 2) Also note, the central system is expected to run analytics on the incoming video streams. Video analytics algorithms including that of Face recognition need lower resolution stream for the analysis as these algorithms work on face geometry rather than actual total pixel. FRS will unnecessarily require too high computation power (As much as 4-8 times) if it accepts the UHD stream, however will have similar performance when it work with lower resolution stream. 3) Also note delay in video signal to minidatacenter will have lot of impact on analytics and overlay integration.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
91		53	3.D.4.1.2.ii	Edge Device/Edge Server must be pre-installed with RailTel's operat-ing system before being delivered and installed in stations	1) Which operating system will be provided by Railtel for edge devices/servers? It is important to know this as the edge device/server has to support the same. 2) We also understand from this that Edge device/server shall support installation of OS and thirdparty VMS software and not have any built-in software post pre-comissioning stage. Please confirm.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
92		1		Supply, Installation, Testing, Commissioning, Operation and Maintenance of Cloud-Ready IP based Video Surveillance System (VSS) at various Railway Stations of A1, A and B category of Indian Railways for four (4) packages under Northern, Western, Eastern and Southern Region's of RailTel for and on behalf of RailTel Enterprises Limited and Indian Railways"	1) Please provide the clear defination of cloud ready? As per the understanding of the specification we need to provide VMS and Recording infrastructure at station. 2) Who will provide the cloud part of this project and what software will be used for the same? What is the method of integration between cloud system and local system to be supplied under scope of this tender?	(i) Please refer scope of work as definde in Tender Document. (ii) Cloud Part is not covered in the scope of Work.
93	CHAPTER- 2	13	38	Supply of Edge devices as per specification defined in clause 8.21 of chapter 8	1) Is it expected to have integration between local station Edge Device with cloud? 2) If yes, then Edge device shall not be permitted in this tender as they are a propriety devices with in-built propriety software, so only Edge servers (COTS) shall be permitted . 3) What if the Edge Device supplied by bidder in this tender is not compatible or lower specification than the requirement of software offered in cloud which is not known to us?	As per Tender.
94				RDSO Specification no. 4.0	As per current released specification of RDSO, there is a system at divisional HQ/Cloud which will have 30 days recording of all the cameras in respective division for 30 days and also have analytics requirement. We understand that this requirement is not part of this tender, except provision of 2 Nos. client workstation at divisional HQ. Please confirm.	As per Tender.
95		65	3.B.5	Recording Parameters "should be stored for 7 days"	As per RDSO specification recording need to be maintained at Divisional HQ/Cloud for 30 days. As the cloud part is not in the scope of this tender, how this system will comply to RDSO specifications?	Please refer to point no. 2 & 4 of Corrigendum-VI.
96	3.A.1.16	39	supply of software	License should be in favor of M/s REL	Is Edge server Operating System part of software supply of this tender? If so, Operating system, being a critical part, Kindly confirm that the OS shall be licensed in favor of REL	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.

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SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	RailTel Response
97	8.3/a.x	193	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, Kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
98	8.3/b.x	193	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, Kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
99	8.3/c.x	194	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, Kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
100	3.A.1.10	37	Training	Introduction to computers, Servers, and their configuration and operations	Don't you need the training for operating systems	The successful bidder shall submit the detailed training programme as per the offered solution, as per Tender conditions which shall be approved by the purchaser.
101	Chapter-3/C	48	Management System	Management of various component of solution	Operating system of large number of servers to be managed for its patch/update management, life cycle management, etc. Kindly confirm if a central management system is required?	As per Tender.
102	8.22/point 3	213	NMS	Installation Point 3	As security is a critical aspect, Kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
103	3.A.1.4	34	3.A.1.4.6	Supply of Software and Warranty/AMC	Kindly confirm if the Operating System provided shall have OEM Support roadmap for 8 Years	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
104	8.7 Type-I Switch:	195	15	Should support at least 8000 entries in the MAC table.	For the large scale deployment of access switches, the MAC address support shall be 16000 in the MAC Table.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
105	8.7 Type-I Switch:	195	20	Switch should support IEEE 802.3af & IEEE 802.3at on Ethernet ports & Min 120W PoE Power Budget.	Shall Support UPoE and PoE power budget shall be Minimum 180W Supportable.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
106	8.7 Type-I Switch:	195	21	Switch should support Surge Protection to ± 2 kV (line-earth) and ± 1 kW (line-line) on power input and Surge Protection to ± 2 kV on Ethernet ports or as per EN61000-4-5 standard.	Considering the deployment at Railway stations, the Switch should support Surge Protection to ± 2 kV (line-earth) and ± 1 kW (line-line) on power input and Surge Protection to ± 4 kV on Ethernet ports.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
107	4.A.14.1.3	79	6	One OEM of Camera can issue Manufacturer Authorisation Form (Form 9) to any one bidder in the tender, in case OEM is not participating in the tender. In case, OEM is participating the tender, it can not issue Manufacturer Authorisation Form To any other bidder	Since the tender is open tender , MAF to various bidders are issued well in advance of the tender .Price is given at the later stage .AS an OEM , We may not have assurance as who may or may not quote us till the very end .Hence this clause becomes very restrictive for Camera OEM to search and tie up with a probable partner .Such clause is mentioned only for camera OEM and not to any other items in the SOR.Kindly relax this clause . Our Manufacturing capacity is apprx 60000 Cameras Per month	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
108	4.A.14.1	73		Each offered model of equipment for camera, servers, edge device, network devices and DCPS should have been working for at least six months in India or abroad.	As the PMA policy of the Government of India will be applicable on this tender, Please confirm that the requirement of the prior experience is not applicable for domestic manufacturers as per clause no.5.4 of the PMA policy. Please confirm	PMA policies issued by MEITY (Govt. of India) are not applicable as on date. Public procurement (make in India) order 2017 issued by DIPP (Govt. of India) doesn't have any provision for preference to domestic manufacturer in case of Turnkey projects.
109	4.A.36	86		Documentary proof of equipment (Camera, servers, edge devices, DCPS and network devices) is proven and working for more than 6 months in India or abroad.	As the PMA policy of the Government of India will be applicable on this tender, Please confirm that the requirement of the prior experience is not applicable for domestic manufacturers as per clause no.5.4 of the PMA policy. Please confirm	PMA policies issued by MEITY (Govt. of India) are not applicable as on date. Public procurement (make in India) order 2017 issued by DIPP (Govt. of India) doesn't have any provision for preference to domestic manufacturer in case of Turnkey projects.
110	8.7	196		26. Operating Temperature of the Switch should be min -0 to 50 °C.	Type-I switch will be deployed in outdoor location supplying power to the cameras. As cameras fetch power from the switch, heat dissipation is higher and the temperature is bound to increase by at least 15 degree. Also, in the previous tender which was annulled, the temperature requirement was 60 degree. We request therefore to increase the temperature to at least 75 degree so as to make the network resistant to temperature. This would essentially help in minimizing the downtimes due to high temperature and will secure the mission critical services which will ride on the network. Also, to bring in your kind notice, all surveillance networks tenders ask for industrial grade switches which are hardened for temperature. Even in the current tender, the 1G SFPs which would be used in the switches have been asked for temperature hardening of 65 degree. Kindly confirm amendment of the clause as "Operating Temperature of the switch should be min - 20 to 75 degree. Please confirm.	As per Tender.
111	8.7	195		14. Should have AC Power Supply 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.	The industrial grade switches are DC powered due to high PoE wattage and their temperature resistant range. In line to same, we request to amend the clause as "Should have AC Power Supply with or without external adapter 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.". This is in line with the previous surveillance tender which was released under Nirbhaya fund. Kindly confirm.	As per Tender.
112	8.9	198		10. Shall be temp hardened with a range of -0 to 65 OC and shall be 1/2 RU compliant in size.	Our understanding is that Railtel wants a product which is either 1U or 2U in size. Please confirm our understanding.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.

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113	8.9	200		18. OEM should have figured in latest Gartner Report in field of Ethernet Switches	Request you to amend this eligibility requirement in line with the eligibility requirements as asked for Type I & II switches. Additionally, Clause other switch 5.4 of the PMA guidelines No. 8(78)/2010-IPHW dated 12th June, 2013 mandates that the tender conditions should encourage the participation of domestic manufacturers and there should not be any restrictive conditions of prior experience and product specifications for the domestic manufacturers. In view of the same, please confirm that Gartner Quadrant requirement is not applicable to domestic manufacturers as this is a restrictive condition for the participation of domestic manufacturers. Please confirm	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
114	3.D.4.1 Installation Process for Camera and Edge Device/Edge Server	53	3.D.4.1.3	Since the cameras have to work with the cloud VMS and central infra provided by RailTel. The central infra is designed to work with all standards based cameras as specified in the technical specifications. The bidders should make necessary configuration changes if required for optimality as decided by RailTel. If required, the bidder will use VMS, bundled/supplied free-of-cost from OEM of Camera(s), for pre-commissioning testing, with the approval of the purchaser.	VMS is a requirement for any IP based Surveillance System. Would request Customer to Confirm the required number of license and the mode of deployment. Is the deployment strictly in Cloud Model or could be on Premise also.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
115	19.0 Face Recognition Software:	38	19.25	The face recognition software algorithm should have participated in the latest NIST (National Institute of Standards and Technology) Face Recognition Vendor Test. The vendor shall submit the latest NIST evaluation report for the algorithm.	The Facial Recognition technology has evolved over period of Year and has been a proven technology geographically. Would request Customer to allow us to include local Certification (origin Of OEM) for FR. We could certainly meet the specified compliance and later on over course of time get the NSIT certification also.	Facial Recognition Software is not covered under the scope of this work.
116	Final Draft to Amendment	4	4.2.8	Video Analytics and Face Recognition System shall be deployed at the Cloud. System at RPF/GRP Thana/Post shall provide video streams of requisite no. of cameras to the Cloud for running Video Analytics and Face Recognition Software. In case VMS is required for operation of Video Analytics and Face Recognition Software at Cloud, same may be provided at Cloud or as specified by the purchaser.	Would request the Customer to provide further clarity on cloud Deployment and Infrastructure along with Architecture. What would be the bandwidth available for this cloud infrastructure.	Video Analytics and Face Recognition System are not covered under the scope of this work.
117	General			Please mentioned the required number of licenses for VMS and VA. Please also mentioned the individual VA models for all the analytics.		1. Bidder should propose required number of licenses for VMS as part of the offered solution. 2. Video Analytic is not covered under scope of this work.
118	3.A.1.16	39	supply of software	License should be in favor of M/s REL	Is Edge server Operating System part of software supply of this tender? If so, Operating system, being a critical part, kindly confirm that the OS shall be licensed in favor of REL	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
119	8.3/a.x	193	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
120	8.3/b.x	193	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
121	8.3/c.x	194	Operating Systems	Support for latest Windows Operating System or Linux	As security is a critical aspect, kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
122	3.A.1.10	37	Training	Introduction to computers, Servers, and their configuration and operations	Don't you need the training for operating systems	The successful bidder shall submit the detailed training programme as per the offered solution, as per Tender conditions which shall be approved by the purchaser.
123	Chapter-3/C	48	Management System	Management of various component of solution	Operating system of large number of servers to be managed for its patch/update management, life cycle management, etc. kindly confirm if a central management system is required?	As per Tender.
124	8.22/point 3	233	NMS	Installation Point 3	As security is a critical aspect, kindly confirm if the proposed Operating System shall be EAL4 certified Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
125	3.A.1.4	34	3.A.1.4.6	Supply of Software and Warranty/AMC	Kindly confirm if the Operating System provided shall have OEM Support roadmap for 8 Years	May pls. refer clause 4.A.3.1 of tender document.
126	4.A.14.1	73	2	Each offered model of equipment for camera, servers, edge device, network devices and DCPS should have been working for at least six months in India or abroad.	This clause is restricting the OEM to quote latest technology upgraded Model. Hence we request the committee to kindly delete the clause.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
127	4.A.14.1.3	78	1	OEM(s) should have either direct presence in India or through their authorized registered partner in India for last 3 years. They should have Indian Technical Support Centre, Repair and RMA centre in India either directly or through their authorized registered partner for last 3 years.	Considering the magnitude of the project we strongly request that OEM's should be directly present in India with its registered office in India for more than 6 years (Not as Joint venture, Partnership firms or any other association). OEM should have self owned repair centre and its own RMA setup in India for the last 3 years. This ensures support capability for the large projects at such extent.	As per Tender.
128	4.A.14.1.3	78	2	The OEM(s) whose products have been offered in the bid should have a minimum cumulative turnover of INR1000 crores for OEMs supplying camera, switch & accessories and INR5000 crores for OEMs supplying IT hardware (server) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender.	We request that the cumulative turnover shall be changed to the average turnover of INR 1000 in last 3 years. This ensures that the participating OEM is efficient to meet the big supply deadlines and can ensure the presence and availability of support and spares for the said 8 Years.	As per Tender.
129	4.A.14.1.3	78	4	The OEM(s) for proposed IP cameras should have supplied for at least one project in a metro railways or airport in India in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	Minimum quantity of cameras should be specified as 500 as it depicts the substantial involvement of OEM in the project. Requesting the committee to kindly incorporate this.	As per Tender. The project should have been executed for Metro, Railway, Airport or Smart City executing Authority against PO/LOA issued by them.

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130	4.A.14.1.3	79	6	One OEM of Camera can issue Manufacturer Authorisation Form (Form 9) to any one bidder in the tender, in case OEM is not participating in the tender. In case, OEM is participating the tender, it can not issue Manufacturer Authorisation Form To any other bidder.	Clause is accepted in case of One Bidder quoting in all four locations. In case of 4 bidders quoting in 4 different locations/Zones Requesting the committee to kindly delete this clause to encourage the maximum participation	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
131	General query	NA	NA		We strongly request that All Cameras quoted and supplied against this tender requirement should be UL Certified. Request to kindly add this clause.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
132		10,15,19,24,28	24	Spares @ 8% of supply against item 1(a) to 1(d) and 5 to 8 above.	For smooth functionality during AMC, request to include the joystick and media converters in the spare capacity items	As per Tender.
133	3.A.1.4.2	34		The bidder should prepare a site plan	Request to share the layout of all the regions with dimensions	Detailed shall be shared with the successful bidder.
134	3.A.1.10	37		Continuous training and retraining	Continuous Training of 1 day for 5 persons per quarter can be provided. Clarify the set of continuous training	The successful bidder shall submit the detailed training programme as per the offered solution, as per Tender conditions which shall be approved by the purchaser.
135	4.A.4	62		Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/Lol.	Considering the project volume and specification required, general delivery timeline of materials will be 6-8 weeks as a minimum and further 4 weeks will be needed for inspection and material acceptance. Hence a revised timeline for completion of 24 weeks / 180 days is needed given the scale of the project. Kindly extend the project completion period to 180 days as practically it would be impossible to complete project of this scale in 90 days.	As per Tender.
136	4.A.14.1 & 4.A.36.5	73		Eligibility Criteria Requirements for Bidders: Each model have been India or abroad.	Since the technology keeps changing it is requested to accept certificates of similar model/ alternate or upgraded model to be working in India/abroad for 6 months	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
137				One OEM Can issue MAF to any one Bidder	Kindly change it to One OEM can issue MAF to minimum 3 bidders as the OEM so that the OEMs product participation is confirmed by at least one SI	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
138	4.A.14.1	73-74	1	The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender. For Package-I: Northern Region: Rs. 129.9 Crores For Package-II: Western Region: Rs. 128.4 Crores For Package-III: Eastern Region: Rs. 191.1 Crores For Package-IV: Southern Region: Rs. 190.8 Crores Note:- In case of Consortium/JV, each member's relevant turnover shall be considered against the above mentioned financial capability criteria.	Request you to kindly amend as below: The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender. For Package-I: Northern Region: Rs. 129.9 Crores For Package-II: Western Region: Rs. 128.4 Crores For Package-III: Eastern Region: Rs. 191.1 Crores For Package-IV: Southern Region: Rs. 190.8 Crores Note:- In case of Consortium/JV, the Lead bidder's relevant turnover shall be considered against the above mentioned financial capability criteria.	As per Tender.
139	4.A.14.1	74	1	The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 30.31 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 29.96 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 44.59 crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 44.52 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consorti-um/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience. # Similar Work: Works entailing completion of Supply, Installation, Testing and Commissioning of a project comprising of Integrated IP based video surveillance workfor central government or any state government or semi/quasi-government entities or Public Sector Units or private enterprises having turnover of at least 500 crores	Request you to kindly amend as below: The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 19.25 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 19.05 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 28.32 crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 28.25 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consorti-um/JV, any one of the bidder's experience shall be considered against the above mentioned criteria of similar work experience. # Similar Work: Works entailing completion of Supply, Installation, Testing and Commissioning of a project comprising of Integrated IP based video surveillance workfor central government or any state government or semi/quasi-government entities or Public Sector Units or private enterprises having turnover of at least 500 crores	As per Tender.

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140	4.A.14.1	73	1	The bidder should be Original Equipment Manufacturer (OEM) of Camera (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be manufactured for supply. The OEM should have proven facilities for Engineer-ing, manufacture, assembly, integration and testing of VSS system and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to be supplied. or The bidder should be a Compa-ny registered in India under the Companies Act (India) with their registered office in India should have been operating in the System Integration services for the last 3 years.	Request you to kindly amend as below: The bidder should be Original Equipment Manufacturer (OEM) of Camera (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be manufactured for supply. The OEM should have proven facilities for Engineer-ing, manufacture, assembly, integration and testing of VSS system and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to be supplied. or The bidder should be a Compa-ny registered in India under the Companies Act (India) with their registered office in India should have been operating in the System Integration services for the last 3 years. Note:- In case of Consortium/JV, the Lead bidder should be registered in India for last three years. Other bidders should be registered under the Companies Act (India) before the NIT tender notice date.	As per Tender.
141	4.A.14.1	75		The bidder should be a certified ISO 9000/9001 certified company.	Request you to kindly amend as below: The bidder should be a certified ISO 9000/9001 certified company . Note:- if the bidding company or any bidder in case of Consortium/JV is 100% subsidiary of an international or Indian company then parent company's relevant experience for ISO certification can be considered as the bidder's experience.	As per Tender.
142	8	211	Clause 8.21, Sl. No. 5	Telecom Rack (9U,19", Wall Mounted) at Serial No. 5 is as "Rear Side MS/CRCA door plain having ventilation holes bottom side with dust filters."	Once Wall Mount is mounted on the wall/ surface from rear side then provisioned rear door cannot be opened and vents will not be of any use; the desired ventilation can't be achieved since the vents will be covered by wall. Though, said ventilation is require but with asked rear door wall mounting provision without description of rear section the wall mount on rear side isn't possible. So, may please revise the clause as "MS/CRCA 100mm rear section total 500+100 deep having ventilation holes on sides."	As per Tender.
143	Chapter No. 2	10	A.29, BoQ	Panic Switch with Mushroom Cap Push-Button in Red Color	The Alert Notification System consists of Alert (a.k.a Panic) Buttons that are installed at the local stations and the Alert Indicators at the Zonal, State & Central Monitoring centers. One or more Alert Buttons can be installed at each local station. When a person presses the Alert Button, the alert is sent to the Emergency Response Team and to the Response Monitoring System. The Emergency Response Team gets notified of the alert on their Smart Phone through SMS and Mobile App. When one of the team member acknowledges the alert, that information is relayed to the Monitoring Stations. During the response operation, the Mobile App tracks the location of the response team and relays that information to Monitoring Station. This helps the Monitoring Stations to evaluate the response times of the Response Team and enables them for any future improvements. At the Response Monitoring Station, a Buzzer and Red LED Light get activated upon receipt of an alert. Once the alert is acknowledged, the Buzzer can be silenced by the Monitoring Team. The Central Monitoring Software at the Monitoring Station helps the Monitoring Team in tracking the responses of the Response Teams. In view of the criticality of mentioned Panic Button, you are requested to please incorporate the appropriate specifications for the same.	As per Tender.

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144	4	73	4.A.14.1 Eligibility Criteria Requirements for Bidders	3. Financial Capability 5. Experience in Video surveillance (Technical capability) 4.A.14.1.1 Bidding for more than one packages CASE-1, 2, 3, 4	There is a very stringent Bidder qualification criteria has been specified. Firstly the different criteria have been specified for financial capability 128 Cr to 190 Cr for respective packages. Then experience in video surveillance has also been mentioned 30 Cr to 45 Cr for respective packages. Then finally the main criteria has been specified for bidders bidding in more than one package. As per this the one particular experience of its respective category will be taken into consideration only for one package value, for remaining packages and their respective values separate experience certificate have to be arranged. This will be very stringent to have criteria over one criteria and superimposing the same from one packet to other packet. This will result into the restriction of the competition and will result into very limited participation for very few qualified bidders. This will bar the Railtel from having a competitive most techno-commercial offers from other qualified vendors. Therefore you are requested to please re-consider the same and incorporate the suitable criteria to encourage the competition.	As per Tender.
145	3.A.1.11 FINAL COMMISSIONING	53	3.A.1.11 FINAL COMMISSIONING	The VSS shall be considered to be commissioned only after successful completion of the SAT, Trial Run, successful completion of 12 months of Maintenance Super-vision after issue of PAC and after issue of Final Acceptance Certificate (FAC).	The VSS shall be considered to be commissioned only after successful completion of the SAT, Trial Run, successful completion of 3 months of Maintenance Supervision after issue of PAC and after issue of Final Acceptance Certificate (FAC) after three months of issuance of PAC and Maintenance Supervision.	As per Tender.
146	4.A.5. Payment Terms	83	4.A.5.1.3	15% payment of the value of items of Schedule – A shall be made by RailTel on installation & commissioning of stations/sites including at the concerned RPF Thana/Chowki of the cluster, 5% payment on issue of Provisional Acceptance Certificate (PAC) and the last 5% payment shall be made by RailTel/REL on issue of Final Acceptance Certificate (FAC) which will be issued by respective Executive Director of the concerned region. In case of foreign currency, payment will be paid through TT/Wire Transfer (SWIFT) from Corporate Office.	Last 5% payment should not be on hold up to the issuance of FAC. Last 5% should be paid after three months of PAC.	As per Tender.
147	4.A.5. Payment Terms	83	4.A.5.1.3	(15% + 5%) payment of value % of items of Schedule – A which could not be installed for want of site readiness or as per the decision of Executive Director/Regional General Manager of the region, will be made on issue of PAC of the last RPF Thana/Chowki and remaining 5% on issue of FAC.	Remaining 5% should not be on hold up to the issuance of FAC. Remaining 5% should be paid after three months of PAC	As per Tender.
148	4.A.5. Payment Terms	84	4.A.5.1.3	For spares 15% + 5% will be made after issue of PAC of the first RPF Thana/Chowki of the Region and remaining 5% on issue of FAC of the same.	Remaining 5% should not be on hold up to the issuance of FAC. Remaining 5% should be paid after three months of PAC	As per Tender.
149	4.A.5.2 Payment of Services Items (Schedule – B)	84	4.A.5.2.1	90% payment of Schedule – B items (except those mentioned in paras below) shall be made by respective Executive Director of the Region on successful In-stallation, Testing and Commissioning of the stations/sites including at the concerned RPF Thana/Chowki of the cluster, 5% on issue of PAC and final 5% on issue of Final Acceptance Certificate.	Final 5% should be on issue of Final Acceptance Certificate to be assigned after three months of PAC. Final 5% should not be on hold for 12 months by issuance of Final Acceptance Certificate.	As per Tender.
150	4.A.8 Service Level Agreement (SLA) and Penalties	87	4.A.8.6 4.A.8.7 4.A.8.8	General clauses of downtime for 12 hours per day	Deciding Downtime and penalties calculation should be after the PAC, with three months performance monitoring and observations of practical situations on the ground. Framework of downtime and penalties should be finalized in consultation of bidder and opinion from right third party consultant.	As per Tender.
151	4.A.8 Service Level Agreement (SLA) and Penalties	87	4.A.8.10	No payment for the month would be made for the station where the station down time observed would be more than 20%.	Clause should be revised as "No payment for the month would be made for the station where the station down time observed would be more than 50%".	As per Tender.
152	4.A.14. Qualification Criteria	92	4.A.14.1 Eligibility Criteria Requirements for Bidders: Point no. 3 - Financial Capability	The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender. For Package-I: Northern Re-gion: Rs. 134.53 Crores For Package-II: Western Re-gion: Rs. 98.55 Crores For Package-III: Eastern Re-gion: Rs. 115.02 Crores For Package-IV: Southern Re-gion: Rs. 153.88 Crores Note:- In case of Consorti-um/JV, each member's relevant turnover shall be considered against the above mentioned financial capability criteria.	1. Clause should be revised as "The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last seven financial years". 2. Please clarify if minimum contract amount defined in package I, II, III, IV are to be from respective region only?	As per Tender.
153	4.A.14. Qualification Criteria	95	4.A.14.1 Eligibility Criteria Requirements for Bidders: Point no. #5. Experience in Video surveillance (Technical capability)	Note:- In case of Consorti-um/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.	Clause should be revised as "Note:- In case of Consorti-um/JV, Lead bidder or any consortium member's experience shall be considered against the above mentioned criteria of similar work experience.	As per Tender.
154	4.A.14.1.1 Bidding for more than one packages	96	1. Case-I Single Work Experience of Rs. 40 Crore is submitted 2. Case-II Single Work Experience of Rs. 60 Crore is submitted 3. Case-III Two Work Experiences of Rs. 60 Crore and Rs. 30 Crores are submitted	All the three tables of examples of showing technical capability qualification status of various packages against separate and cumulative experience:	For examples, Kindly clarify how a bidder would qualify by submitting single similar work order of Rs. 200 Crore or more if bidder wish to bid for all four region [Packages] with preference, a. Western - 1, b. Northern - 2, c. Eastern - 3, d. Southern - 4. ? OR a. Western - 1, b. Northern - 2, c. Southern - 3, d. Eastern - 4. OR bidding for two regions, a. Western - 1, b. Northern - 2, OR bidding for two regions, a. Northern - 1, b. Western - 2. We request to explain in detail to our in-person visiting representatives for a meeting. Based on your clarification, we request to consider our query if any for the resolution.	Clause is self explanatory.

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155	4.A.14.1.1 Bidding for more than one packages	97	1. Case-I Cumulative Turnover of Rs. 40 Crore 2. Case-II Cumulative Turnover of Rs. 60 Crore 3. Case-III Cumulative Turnover of Rs. 90 Crores	All the three tables of example of showing Financial capability qualification status of various packages against cumulative contract amount received in last three financial year plus current year	1. Clause should be revised as " Below is the example of showing Financial capability qualification status of various packages against cumulative contract amount received in last seven financial year. 2. For example, kindly clarify how a bidder would qualify by submitting cumulative turnover of more than Rs. 200 Crores, OR more than Rs. 400 Crores [All consortium Member's turnover] for bidding for all four region [Packages] with preference, a. Western - 1, b. Northern - 2, c. Eastern - 3, d. Southern - 4. ? OR a. Western - 1, b. Northern - 2, c. Southern - 3, d. Eastern - 4. OR bidding for two regions, a. Western - 1, b. Northern - 2, OR bidding for two regions, a. Northern - 1, b. Western - 2. We request to explain in detail to our in-person visiting representatives for a meeting. Based on your clarification, we request to consider our query if any for the resolution.	Clause is self explanatory.
156	4.A.24.	103	4.A.24.4	5% of the payment after expiry of one year from the date of delivery, if installation is not included in PO/LOA. In case installation is included, the terms will remain same as in clause 5 of this Chapter-4.	5% remaining payment should be released after three months of successful installation OR against delivery if installation is not included.	As per Tender.
157	4.A.29 Settlement of Disputes	105	4.A.29 Settlement of Disputes	Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.	Arbitrator shall be appointed jointly by Chairman & Managing Director, RailTel Corporation of India Limited and the bidder.	Please refer to point no. 12 of Corrigendum-VI.
158	CHAPTER- 5 BID DATA SHEET (BDS)	121	Clause 4.A.36	Last Date of Submission of Offer (Online) Date: 15-12-2017 Time: 15:00 hours Venue: same as above	We request to revise last date of submission of officer (Online) with extension of three weeks from the current date of submission. We request to extend bid submission date up to January 07, 2017.	As per Tender.
159	5 Responsibilities of the OEM	153	5 Responsibilities of the OEM	2 OEM agrees to support successful bidder throughout the entire duration of this pro-ject, starting with bid preparation process up until project implementation and maintenance of the same. The project duration comprises of 90 days of implementation, 12 months of maintenance supervision period, 2 years for warranty and 5 years for AMC starting from date of issuance of LoA.	We request to revise project implementation timeline up to 210 days for all four regions.	As per Tender.
160	5 Responsibilities of the OEM	153	5 Responsibilities of the OEM	5 In case the contract agreement between successful bidder and the OEM is terminated (for whatsoever reason), the OEM shall identify and suggest a suitable replacement in agree-ment with RailTel. However the OEM shall continue to support RailTel for this project and the compliances provided will remain valid for the entire duration of the project.	In case of contract agreement between successful bidder and the OEM is terminated (for whatsoever reason), bidder should also allowed to identify and suggest a suitable replacement of OEM in agreement with Railtel. Bidder shall continue to support RailTel for this Project and compliance provided will remain valid for the entire duration of the Project.	As per Tender.
161	4.A.14.1.3	78	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEMs supplying camera, switch & accessories and INR5000 crores for OEMs supplying IT hardware (server) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	This is a restrictive clause which bars domestic manufacturer to participate in the tender and this should please be waived off for domestic Manufacturer like us as per Public Procurement Order 2017 You may like to refer to Rule 144(v) of GFR 2017 and Public Procurement Order 2017. As per Public Procurement Order 2017 restrictive clauses should be waived off for domestic manufacturer and same was incorporated in the previous RAILTEL tender no:RailTel/Tender/OT/CO/OP/2016-17/VSS-ER/365 corrigendum IV dated 23/02/2016.	PMA policies issued by MEITY (Govt. of India) are not applicable as on date. Public procurement (make in India) order 2017 issued by DIPP (Govt. of India) doesn't have any provision for preference to domestic manufacturer in case of Turnkey projects.
162	4.A.14.1.3	78	4	The OEM(s) for proposed IP cameras should have supplied for at least one pro-ject in a metro railways or airport in In-dia in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender		PMA policies issued by MEITY (Govt. of India) are not applicable as on date. Public procurement (make in India) order 2017 issued by DIPP (Govt. of India) doesn't have any provision for preference to domestic manufacturer in case of Turnkey projects.
163	Corrigendum 1	1	1	VMS and associated infrastructure and 30 day storage of video feed at stations , where RPF /GRP chowki / Thanas / Posts are located	Please give more information on Infrastructure requirements at Chowki/Thanas /Posts etc, i.e are they going to have there own mini data centers or a centralized architecture will be created.	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
164	SCOPE OF WORK	33	3.A.1.4	Mini Data Centre sites infrastructure that includes the Supply, Installation, Testing, Commissioning and Maintenance for Central Cloud Infrastructure hosting Video Management, Record-ing, Analytic and FRS services .	Request you to help in understanding is Railtel Cloud will be used at the Central Site or department will build Private cloud dedicated for this environment	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
165	SCOPE OF WORK	33	3.A.1.4	Mini Data Centre sites infrastructure that includes the Supply, Installation, Testing, Commissioning and Maintenance for Central Cloud Infrastructure hosting Video Management, Record-ing, Analytic and FRS services .	Request you to consider server consolidation technologies like Virtualization which will help railtel to reduce the number of Servers and also help in maintaining High Uptime , Availability , and business continuity of applications (smooth failover with Zero downtime and Zero data loss characteristics is possible)	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
166	Edge Server Hardware at stations	192	8.3.	Edge Server Hardware at stations	Please confirm, Edge Servers deployed at stations is to capture video and upload the same to the various Railway Data Centers (On-Premise Private Clouds). So, It is recommended all the Stations should have at least two Servers to maintain HA to maintain required SLAs , in case one Server fails the virtualization layer will help achieving smooth failover without any downtime.	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
167	Installation Process for Camera and Edge Device/Edge Server	53	3.D.4.1.3	Since the cameras have to work with the cloud VMS and central infra provided by RailTel.	Please give more inputs on the architecture and design of cloud VMS	Cloud VMS shall be covered under separate tender.
168	SCOPE OF WORK	33	3.A.1.4	Mini Data Centre sites infrastructure that includes the Supply, Installation, Testing, Commissioning and Maintenance for Central Cloud Infrastructure hosting Video Management, Record-ing, Analytic and FRS services .	Please also specify the uptime and penalty for Mini Daat centers	Cloud VMS shall be covered under separate tender.

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169	4.A.8 Service Level Agreement (SLA) and Penalties	69	4.A.8.6	4.A.8.6 For any specific camera location, the down time should not be more than 12 hours per day. In case the down time exceeds more than 12 hours then Rs.500 per day or part thereof would be deducted for each day for each camera until the failure is restored at the reported location.	As this is citizen safety infrastructure the SLA should be more stringent , would request you to reduce the downtime to not more than 2 hrs /per day and penalty should be increased to assure high SLA adherence	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
170	4.A.8 Service Level Agreement (SLA) and Penalties	69	4.A.8.6.1	This camera location downtime shall include the service disruptions caused due to reasons including but not limited to camera failures, server failures, edge device failures, software breakdowns, networking device failures, DCPS failures, electricity circuit breakdown (excluding AC Mains outage) or data network break down.	The SLA considerations for complete solution should be around 99.5%. This being security and citizen safety project there should be a zero tolerance for downtime at the field and Data Center locations.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
171	PACKAGE 1: NORTHERN	12	33	Supply of Video Management System (Video Management & Video Recording) server hardware and all accessories required for installation purposes as defined in clause 8.2 of chapter 8.	Request you to consider server consolidation technologies like Virtualization which will help Railtel to reduce the number of Servers and also help in maintaining High Uptime , Availability , and business continuity of applications (smooth failover with Zero downtime and Zero data loss characteristics is possible)	As per RDSO specification and Solution offered by the bidder.
172	Architecture Overview	57	3.B.1	In addition to robust, secure and scalable network architecture on railway stations, fully secure network architecture will be required on Cloud. This network will work as a platform for implementation of Video Management, Video Recording, Video Analytics and Facial Recognition System etc. on cloud as well.	Request you to give more information on cloud part and its requirements , Kindly confirm if you are referring to Private Cloud or Public Cloud hosting for deployment. Also request you to confirm if you are considering separate infrastructure/ network for managing the applications hosted on this cloud.	Cloud system is not covered in this Tender.
173	IP surveillance solution for B Type Railway Station	62	3.B.4.2	Type Railway Station will have a local recording facility for at least 7 days	Can bidder also consider SDS Solution to meet the recording requirements for 7 days at stations with sufficient and scalable capacity to cater future requirements.	Please refer to point no. 2 & 4 of Corrigendum-VI.
174				1 no. horizontal and 1 no. vertical cable manager with cable loops to be provided with each rack.		As per Tender.
175	Chapter 8- (8.2 Server)-	204		Intel Xeon Processor	As we meet all the performance parameters thus we request below change:- Intel Xeon Processor or AMD Processor. Following fair tendering guidelines/policy.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
176	Chapter 8-(8.6 PC Workstation)	205		Intel Xeon Processor	As we meet all the performance parameters thus we request below change:- Intel Xeon Processor or AMD Processor. Following fair tendering guidelines/policy.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
177	Chapter 8-(8.6 PC Workstation)	205		S.No.IX – Graphics Card	As we meet all the performance parameters thus we request below change:- Intel Xeon Processor or AMD Processor. Following fair tendering guidelines/policy.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.
178	Chapter 2 - Schedule of Requirements	8		Schedule of Requirements	Kindly clarify if the successful bidder shall be issued Separate orders for Local Supply (Indian entity) and Imported Supply (Foreign Entity) and Local Services (Indian Entity) ? Or a Composite order be given to the successful bidder?	As per Tender.
179	Chapter-2 Package 1 - Northern (Relevant Sections for other packages - Package 2, Package 3 and Package 4)	14	15	Training of personnel over and above the on-site training, during the installation, maintenance and supervision period as detailed in the tender document. 84 man weeks	We need details on number of training/ locations.	The successful bidder shall submit the detailed training programme as per the offered solution, as per Tender conditions which shall be approved by the purchaser.
180	Chapter-2 Package 1 - Northern (Relevant Sections for other packages - Package 2, Package 3 and Package 4)	15	15	Manpower Support during warranty period L1 support engineer in Field (@ defined per annum rate of Rs. 5,00,000/-) - Man-Years 36**	Kindly share the breakup of this number across locations (if any) , The man years mentioned herewith is total for a period of 3 years (2- Warranty + 1 Maintenance Supervision). Need clarity on same	Please refer clause 4.A.2.4 and 4.A.2.5 of tender document.
181	Chapter 2 - Schedule of Requirements	41	Note: Point b)	Unit rate quoted against SOR above should be CIP destination inclusive of all duties, taxes, insurance and freight etc. (with break-up as per Performa attached as Annexure- A and B of this Chapter)The materials as per SOR are required to be delivered within the delivery period as indicated in Bid Data Sheet (BDS, Chapter 5) to the sites as decided by the respective Regional GM/EDs.	Need to get more clarity on Dispatch Location of Material - Do we have to ship all material to Railtel Regionwise Central Location (Specify One Central Store Region Wise) or Individual Station Location. Kindly also share the List of RPF Chowkis/Thana/Post along with covered stations within the cluster of respective RPF Chowki/Thana/Post	Bidder is required to ship the material at stations where the VSS work shall be carried out. List of RPF Chowkis/Thana/Post shall be shared with the successful bidder.
182	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance System	50	3.A.1.4.5: Scope of Work	Supply of any other equipment/infrastructure or services required for the proper installation, testing, commissioning, operation, and maintenance of the Edge Infrastructure of the video surveillance solution as per the approved design.	We request any item required to complete the project over and above tender BOQ must be on payable basis	The Bidder may quote the rate along with the quantities and description of any additional items which is required as the part of the solution giving proper justification. The same shall be taken into to consideration while evaluating the Price Bids. The same shall become the part of the LOA if the bidder is successful.

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183	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance System	50	3.A.1.4.8	Remote operation and monitoring of a cluster of stations from RPF Thana/Chowkis through the RailTel/Railways TCP/IP net-work. Bidder is required to plan sufficient number of VMS/NMS licenses, IT equipments to facilitate the same. Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF Chowki	RailTel should provide permission for road, footpath etc cutting/digging/refilling from PWD/Jal Nigam/Electricity department if required. Kindly also share the List of RPF Chowkis/Thana/Post along with covered stations within the cluster of respective RPF Chowki/Thana/Post	The requisite permission shall be given by railways to the successful bidder.
184	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance System	50	3.A.1.4.10	To identify, develop and deliver the training to the Rail-ways/Railtel staff for the VSS System to be installed and commissioned.	No. of places for training not defined. Request clarity	The successful bidder shall submit the detailed training programme as per the offered solution, as per Tender conditions which shall be approved by the purchaser.
185	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance System	53	3.A.1.10	Timelines for Training and Development are as follows : Point No 4 - Continuous training and retraining -- As and when required by RailTel	Need clarity on frequency of training/ year Trainings at DHQ locations.	Kindly refer tender clause 3.A.1.10 and Chapter-3E.
186	Chapter 4 - Commercial Terms and Conditions	80	4.A.4	Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/LoI.	Since most of the equipment's are imported and have longer lead time, also the geography of the stations is very wide therefore Completion of the project within 90 days is not practically feasible. It should be noted that for the same tender , the completion time was of 18 Months. We request Railtel to extend the completion of project timelines for to be atleast 5 months from the date of succesful inspection and acceptance of all components by RDSO.	As per Tender.
187	Chapter 4 - Commercial Terms and Conditions	80	4.A.3.5	Quarterly payment for AMC Charges would be made by RailTel/REL after success-ful completion of AMC Services of that quarter and on the certificate furnished by concerned RailTel/REL representative of the Executive Director of the Region	We request the monthly payment against AMC	As per Tender.
188	Chapter 4 - Commercial Terms and Conditions	82	4.A.5	Payment Terms	Kindly confirm the Supply payment shall be on prorate basis station/site wise/RPF Thana/Chowki basis	As per Tender.
189	Chapter 4 - Commercial Terms and Conditions	82	4.A.5	Payment Terms	Capping on PAC and FAC is not mentioned if site front is not available/delayed or delay for any reason whatsoever beyond the scope of the contractor. Request if the same can be capped at 30 days from date of request from the contractor. Also request you to kindly facilitate the payment against BG submission of equivalent percentage.	As per Tender.
190	Chapter-4 Taxes & Duties	85	4.A.7	Taxes and Duties	Kindly clarify whether IGST billing is permitted by RAILTEL for this project?	Bidders are required to comply with the GST Law which is in public domain.
191	Chapter 4 - Commercial Terms and Conditions	92	4.A.13. (Statutory Deduction)	These will be made at source as per the rules prevalent in the area of work.	Need Details : Clarity on statutory Deduction ? WCT should not deducted for all Inter-state material and Imported Material - Request you to please confirm the same.	As per Tender.
192	Chapter 4 - Commercial Terms and Conditions	92	4.A.11	The timely delivery is the essence of this tender. Liquidated damages will be appli-cable at the rate of half percent per week or part thereof for undelivered portion of SOR subject to a maximum of 10% of the cost of Purchase order/LOA for any rea-son whatsoever attributed to failure of bidder. RailTel will have the right to cancel the order, place order on alternative source besides levying the liquidated damages as above.	We request you to get this reduced to 5% on Undelivered Portion	As per Tender.
193	Chapter 4 - Commercial Terms and Conditions	92	4.A.12. (Transportation)	The rates quoted should be CIP destination. The destination shall be defined POP / nominated office of RailTel in the proposed sections which shall be indicated by RailTel's representative	Need More Clarity on End location ?	End location is the station where VSS work shall be carried out.
194	Chapter 4 - Commercial Terms and Conditions	104	4.A.27.2	Pre-shipment / pre-dispatch inspection shall be carried out at manufacturer's / bidder's works by RailTel's authorized representative. At least part of the material should be offered for inspection within 30 days of issue of confirmed Purchase Order/LOA. Traveling, lodging & boarding expenses of RailTel's representative and charges for 3rd party inspection if within India shall be borne by RailTel but necessary facilities to carry out tests/witness inspection shall be provided by the manufacturer/ bidder, free of cost	How it will be handled for imported and HSS Material ? Also Kindly confirm whether High Sea Sales be allowed for the imported materials?	(i) Traveling, lodging & boarding expenses towards pre-shipment/pre-dispatch inspection, if any, of RailTel's representative will be borne by RailTel. (ii) HSS is not permitted in this Tender.
195	Chapter 4 - Commercial Terms and Conditions	105	4.A.29	<u>SETTLEMENT OF DISPUTES:</u> In case of any dispute concerning this order both the bidder and RailTel/REL shall try to settle the same amicably through mutual discussion/negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. <u>Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.</u>	New legislation has been enacted in India amending the current Arbitration and Conciliation Act of 196 to ensure the neutrality of arbitrators any person who is an employee, consultant or adviser or who has had past or present relationships with a party is ineligible to act as an arbitrator. We request you to ammend the clause accordingly.	Please refer to point no. 12 of Corrigendum-VI.
196	Chapter 4 - Commercial Terms and Conditions	106	4.A.32	Risk and Cost: The Maximum Liability of bidder to any Loss/Damages to RailTel including Li-quidity Damages and Performance Guaranteee shall be limited to 100% of Value of contract.	We request you to explicitly exclude consequential and indirect damages from our overall liability.	As per Tender.
197	Chapter 4 - Commercial Terms and Conditions	107	4.A.36.5	The offer shall be submitted in two parts, Part-I - Credential Bid (Techno-Commercial Bid) & Part-II - Price Bid as per instructions given in chapter-48	We understand that there are two parts of the bid submissions: Part 1 - Credential/Techno-commercial bid Part 2 - Price Bid In case the bidder bids for more than one package, please confirm whether <u>Part 1 of the bid</u> for all four packages be submitted separately for all 4 packages or do we submit one composite technical bid for all packages. Kindly confirm.	Kindly refer Note-V under SOR (Chapter-2). The bidder is required to submit the single technical solution and submit one technical bid accordingly for all the Four packages. Technical evaluation will be done package wise based on submitted credentials and eligibility criteria of each package. Different OEM(s) across packages is not permitted.
198	Chapter 6 - Form No.23	156	Form No.23	This letter should be on the letterhead of the OEM duly signed by an authorized signatory	Its contradicting since it has been asked to submit the Bidder's signature in OEM letter head. Kindly confirm whether the letter need to be submitted on OEM or bidder letter head or both.	Clause is self explanatory.

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199	Section 7 - Annexure II: Detailed Standard Conditions applicable for the Annual Maintenance Contract	190	7.14	<p>Determination of Contract: Right of RailTel to determine the contract: The RailTel shall be entitled to deter-mine and terminate the contract at any time, should in the RailTel's opinion, <u>the cessation of the work becomes necessary owing to paucity of funds or from any other cause whatever, in which case the value of approved materials at site and of work done to date by the Contractor will be paid for in full at the rate specified in the contract.</u> Notice in writing from the RailTel of such determination and the reasons thereof shall be conclusive evidence thereof.</p> <p>Payment on determination of contract: Should the contract be determined under sub clause (1) of this clause and the Contractor claims payment for expenditure in-curred by him in the expectation of completing the whole of the work, the RailTel shall admit and consider such claims as are deemed reasonable and are supported by vouchers to the satisfactions of the Engineer. <u>The RailTel's decision on the necessity and property of such expenditure shall be final and conclusive.</u></p> <p>Clause no. 7.14 of Chapter 7 relating to Determination of Contract will also be applicable on full scope of work as mentioned in tender</p>	<p>Owing to paucity of funds or any reason thereof, if RailTel decides to determine the contract post the design of the sytem is approved by RAILTEL and subsequently the material ordered by the contractor, the contractor is should be entitled for claims expendire incurred by him on this account and any loss of profit in anticipation of this contract. The decision regarding this shall be mutually agreed between both parties and in case of any disputes shall be subject to the Clause 7.17 - Settlement of Disputed and Arbitration</p> <p>Also request you to <u>clarify the following questions on account of funds for this project:</u></p> <ol style="list-style-type: none"> 1. Are the funds already available with RailTel? Please clarify. 2. Who is the funding authority for this project ? Please clarify. 3. Who would be the fund sanctioning authority? Please clarify. 4. How is the fund utilization for this project? Please clarify. 5. As per RFP project completion is 31-March-2018 (which we have requested for extension). Is there a dependency on 31.03.2018 on account that the fund will lapse post this date? Will budget re-validation be required post 31st March 2018? Please clarify. 	As per Tender.
200	Chapter-7, Chapter 4,	85, 173	4.A.6.1 7.2	<p>Section 4 : The bidder is required to submit a Performance Bank Guarantee (PBG) within 15 days of the issue of LOA as per BDS (chapter-5) for the satisfactory performance of materials covered in SOR given in Chapter 2 valid for a period of 4 months be-yond warranty period. The earnest money shall be released on submission of PBG. The Proforma for PBG is given in Chapter 6 Form No. 1. If the delivery period gets extended, the PBG should also be extended appropriately.</p> <p>Section 7: The contractor is required to submit a Performance Bank Guarantee (PBG) to respective Executive Director/Regional General Manager within 15 days from the date of is-sue of LOA for AMC @ 10% of the value of the AMC contract's annual value valid for a period of 64 months (4 months beyond the AMC period of 5 years) from the date of issue of LOA. The Performa for PBG is given in Form No. 1 of Chapter 6 of this tender document. If the AMC period got extended, the PBG will also be extended accordingly.</p> <p>The Performance Bank Guarantee will bear no interest</p>	We request that the extension of the PBG shall be mutually discussed with the contractor at the time of extension of delivery period/ AMC by RailTel if such extension is due to reasons not attributable to the contractor.	As per Tender.
201	Additional	NA	New Clause		Please confirm whether the Monitoring Station is already available at all stations/RPF Chowkis/GRP Chowki/Thana/Post or the same is to be under construction?	Detailed shall be shared with the successful bidder.
202	Additional	NA	New Clause		How the invoices be validated? Will invoice validation be Station-wise OR Zone-wise OR from HQ? Please clarify.	As per Tender.
203	Chapter-2	8		General	VA & FRS and associated servers as mentioned in the RDSO latest guidelines are not mentioned in the SOR. Kindly clarify.	Video Analytics and Face Recognition System are not covered under the scope of this work.
204	Chapter-2	8		General	Storage for 30 days as mentioned in the RDSO latest guidelines is not mentioned in the SOR. Kindly clarify.	Bidder to quote as per SOR.
205	Chapter-2	8		SOR	Pls clarify if we can utilize Edge Devices as Video Management System Servers or separate servers to be provided for the Video Management System at all stations.	VMS shall also be installed on the Edge Devices. Please refer Amendment 1.0 of RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0.
206	Chapter-2	8		SOR	Pls clarify if bidder has to consider 7 days storage inside the Edge Devices at stations.	Please refer Amendment 1.0 of RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0.
207	Chapter-2	8		SOR	Since Cameras, Video Management System Servers and Storage will form a complete CCTV solution. Kindly clarify the purpose of the Edge Devices at all stations.	Please refer Amendment 1.0 of RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0.
208	Chapter-2	12	33	Supply of Video Management Sys-tem (Video Management & Video Recording) server hardware and all accessories required for installation purposes as defined in clause 8.2 of chapter 8.	It is not clear from the SOR that if the Video Management System Hardware has to be installed at all stations or at only RPF/ FRP Chowki/ Thana/ Post.	VMS system hardware shall be installed at all stations/RPF/GRP Chowki/Thana/Post.
209	Chapter-4	95	4.A.14.1	OEM undertaking to sign MoU/Teaming Agreement with SI	We understand that against this requirement we will get Form-10 signed from the respective OEMs (Form No.-10 is the proforma for undertaking to sign tri-parite agreement.	Yes.
210	Chapter-2	42	I	e) The bidder must ensure that the capacity of storage system supplied at the Station should be supplied with an additional 50% capacity over and above the capacity required for 7 days recording computed on the basis of cameras given for respec-tive station from day one.	We understand that camera quantities at each station given on page- 159-160 shall be considered for Storage calculation. Kindly clarify. A1 Type Station- 43 Cameras A Type Station- 30 Cameras B Type Station- 18 Cameras	Please refer to point no. 2 & 4 of Corrigendum-VI.
211	Chapter-2	42	IV	Since, RailTel is also implementing Wi-Fi work at railway stations, therefore, the existing available infrastructure may be utilized by the purchaser for implementation of VSS system and such items used may not be considered as a part of Supply orders.	Kindly specify which all items in available infrastructure will be utilized.	Details shall be shared with the successful bidder.

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212	Chapter-2	42	V	The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, edge devices, workstation, storage, large video displays units, VMS Software, switches (Type-I, II, III and IV separately), Firewall and NMS.	We understand that the stipulation of single make & model is applicable only for the "cameras, servers, edge devices, workstation, storage, large video displays units, VMS Software, switches (Type-I, II, III and IV separately), Firewall and NMS." Kindly clarify.	Clause is self explanatory.
213	Chapter-2	43	XIII	The bidder is required to supply the NMS tool including all hardware and software in a centralized set-up in the Region. The monitoring services at all stations/RPF Chowki/Thana under the region will be provided from the centralized set-up through the clients installed at all the Stations/RPF Chowki/Thana.	Kindly clarify which one would be the central location in each region. We understand that NMS client application shall be installed on the CCTV workstation At the Stations/ RPF Chowki/ Thana and no additional Workstation hardware needs to be offered. Kindly clarify.	Details shall be shared with the successful bidder post award of the work.
214	Chapter-3	50	3.A.1.4.2	The bidder should prepare a site plan showing exact location of differ-ent type of cameras, switches etc. at various locations like parking are-as, entrance/exit points, platforms, yards, waiting halls, ticket counters, offices, foot over bridges, circulating areas etc. as per site requirement in consultation with RailTel after the proper site survey. The proposed site plan should have an optimum number of cameras so as to cover Railway Station from security point of view.	We understand that this exercise shall be done by succesfull bidder during detailed designing before execution. Any variation in quantities of Cameras, Switches, Servers, VMS Licenses and associated infrastructure from the RFP SOR, during detailed designing shall be paid by the customer on prorata basis for the SITC of the additional quantities.	Bidder to quote as per SOR.
215	Chapter-3	50	3.A.1.4.6	Supply of all software/licenses for the solution including periph-eral applications, middleware, environmental software or any oth-er related software/licenses as required in the proposed solution (Including AMC and Warranty).	SOR does not have any line item for the Software. Kindly clarify how the Software licenses will be considered in the bid.	Bidder to quote as per SOR.
216	Chapter-3	50	3.A.1.4.8	Remote operation and monitoring of a cluster of stations from RPF Thana/Chowkis through the RailTel/Railways TCP/IP net-work. Bidder is required to plan sufficient number of VMS/NMS licenses, IT equipments to facilitate the same. Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF Chowki.	Kindly provide the details of Stations and RPF Cowkies where bidder has to extend Fiber/ Network Connectivity. It is required to estimate the correct cost for implementation.	Bidder to quote as per SOR.
217	Chapter-3	50	3.A.1.4.11	To demonstrate the functioning of all the modules of software and features of hardware component as and when required by Railways.	Kindly clarify the meaning of "as and when required".	Clause is self explanatory.
218	Chapter-3	51	3.A.1.7.1	Railways shall provide AC power supply at station/cabin/panel room/mid-section buildings for carrying out the awarded work. The successful bidder will have to pay the nominal charges for the power supply as per the exist-ing Railways Norms.	Kindly provide the per unit charges or lumpsum charges per month for the power supply at each station to be paid by the bidder to Railways.	Railways Power used by the bidder to carry out the awarded work will be charged as per the ongoing rates and standard norms of Indian Railways. However the bidder may make its own arrangements for the power supply for the execution of the work.
219	Chapter-3	52	3.A.1.7.3	Indian Railways shall give permission to install video Surveillance related infrastructure in Railway area subject to non-interference with the existing devices and to the rail users.	Kindly clarify if the installation work can be carried out on 24/7 basis in Day and Night with the permission of Railways.	Clause is self explanatory.
220	Chapter-3	53	3.A.1.10	4. Continuous training and retraining -As and when required by RailTel	Kindly clarify total no. of training sessions and how many people to be trained per session throughout the contract duration.	Details shall be shared with the successful bidder.
221	Chapter-3	55	3.A.1.16	All OEMs of Edge Servers, Edge Devices, Cameras, Network equipment, Work-stations and etc. should give an undertaking that all licenses supplied by them would be registered in favor of M/s REL or its nominated agency.	Pls note that Workstations, Cameras, Network Equipments etc comes with pre-installed OEM software licenses and it is licenced to whom so ever the equipment is sold to.	As per Tender.
222	Chapter-3	57	3.B.1	To implement video surveillance solution, each station should have robust, secure and scala-ble network architecture implemented which will cover all platforms and other areas such as waiting halls, ticket counters, entry, exit, refreshment area, and foot over bridge, parking area etc. of a railway station.	Since the quantities of the cameras has already been defined in the SOR, we understand that coverage of all of these areas has already been considered while arriving to the camera quantities. Any increas in the camera quantities and associated ICT equipment and accessories shall be paid by the purchaser to the bidder on prorata basis. Earlier Tender in Yr.2016 was having more no. of cameras at each type of stations as compared to the latest tender in Yr.2017. Since there is a significant reduction in the camera qty at each station, Pls clarify which all locations/ areas has been removed from the camera coverage in the latest tender.	Bidder to quote as per SOR.
223	Chapter-3	57	3.B.2	If there is a requirement to connect more access switches for platform extension, any other locations or any other services aggregation switch will have sufficient ports available. Also there will be sufficient fiber core available to make this connectivity possible from scalability point of view.	We understand that the offerhas to be submitted as per technical specifications and SOR quantities mentioned in the tender. Therefore availability of spare ports on any switch and spare fiber core in OFC cable shall be limited to the offered qty only. Any increase in switch, fiber and associated active & passive network quantities shall be paid by the purchaser at prorata basis.	Bidder to quote as per SOR.
224	Chapter-3	61	3.B.4	a) Platform, Foot over areas should be covered by Fixed Box cameras with vari-focal lens b) Entry/Exit should be covered by 4K UHD cameras. c) Ticketing Counter, Waiting, Food Plaza, Railway Refreshment Room, Low ceiling Entry /Exits should be covered by Dome cameras with vari-focal lens d) PTZ should be mounted for bigger open areas, where Pan, Zoom & Tilt functionality will be used	Camera Quantities at each type of station as defined in the tender are not sufficient to provide full coverage of the areas mentioned in this clause. Kindly clarify if additional cameras, software licenses, servers, storage and Network infra shall be purchased seperately.	Bidder to quote as per SOR.
225	Chapter-3	62	3.B.4.2	B Type Railway Station will have approx. 18 to 20 IP cameras depending on size of Railway stations to begin with. However, as depending upon coverage requirement this may be 30 to 40 IP cameras, the design of platform/station infrastructure shall be kept ready accordingly. IP cameras should be connecting to RPF Chowki through CCTV network.	We understand that the SOR quantities given in the tender takes care of the additional infrastructure requirement in case camera quantities increases at B Type Stations.	Additional quantities ordered if any, shall be as per tender condition.
226	Chapter-3	62	3.B.4.3	A1/A Type Railway Station will have approx. 30 to 50 IP cameras depending on size of Railway stations to begin with. However, as depending upon coverage requirement this may be 60 to 90 IP cameras, the design of platform/station infrastructure shall be kept ready ac-cordingly. IP cameras should be connecting to Division level through CCTV network. Divi-sion level station may be same location or should connect all A Type Railway station of that RPF Chowki.	We understand that the SOR quantities given in the tender takes care of the additional infrastructure requirement in case camera quantities increases at A1/A Type Stations.	Additional quantities ordered if any, shall be as per tender condition.

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227	Chapter-3	62	3.B.4.4	A robust security layer will be there on these locations in form of next generation firewall and IPS combination. All RPF users will have restricted access to these systems for monitor-ing and playback stream through firewall and IPS. All 3rd party users who may access these systems via internet on some specific occasions on incidents will make a secure VPN connec-tivity to access these systems and will have time bound and restricted access to these systems.	Positioning of Firewall and IPS at all stations doesn't seems to be correct. Kindly review the same.	As per Tender.
228	Chapter-3	67	3.C	C. Management System for Network Switches and UPS along with ITSM tool-- Management system servers will be installed at each RPF Thana/Chowkis collocat-ed with the Zonal HQ for Network Switches and UPS etc.	Since NMS is already a part of this tender, A separate ITSM tool will not be required for Network Switches and UPS. We request you to kindly remove the same.	As per Tender.
229	Tender Notice	3		EMD to be paid as Bank Draft for the respective Values	Since the EMD values are large in nature, it is hereby requested to accept EMDs in the form of Bank Guarantee as well. It is also requested to share the BG format for EMD.	As per Tender.
230	SOR	43	Note XIV	Splitting of SoR	Please clarify if tenderer/s can be offered all regions in 60:40 split if they are L1 & L-2 in all regions? It is requested a tenderer should not be allotted more than 2 regions as per the the Split ratio and suitable clarification be issued.	Clause is self explanatory.
231	SOR	42	IV	Since, RailTel is also implementing Wi-Fi work at railway stations, therefore, the existing available infrastructure may be utilized by the purchaser for implementation of VSS system and such items used may not be considered as a part of Supply orders.	Please clarify the network architecture, bandwidth availability, port availability available in the different category of stations.	Detailed shall be shared with the successful bidder.
232	SOR	42	V	The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, edge server, edge device, workstation, large video displays units, switches (Type-I, II, and IV separately).	By this clause we understand that for one item, bidder can propose only one make & model. However: a) For different types of cameras can we quote different make / models (but one make & model for one line item) b) Can we quote multiple make & models for other products such as SFPs, Racks, HDPE pipe etc	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
233	3	75	3.E.1	TRAINING	Kindly specify number of trainees so that we can budget accordingly	Bidder to quote as per SOR.
234	4.A.4 Delivery/Implementation timelines	80	4.A.4	Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/LoI.	Delivery timelines of 90 days are less. It is requested to increase it to at least 180 days.	As per Tender.
235	4.A.8 Service Level Agreement (SLA) and Penalties	86	4.A.8.4	The contractor must ensure the up-time off at least 95% for the installed system be-ing offered as part of video surveillance solution, upto the end of the AMC period of 5 years. The up-time would be monitored and calculated on the monthly basis and no re-laxation or consideration would be made for the non-availability of the back-up/stand-by system.	Please change uptime monitoring & calculation on Quaterly basis instead of monthly.	As per Tender.
236	4.A.8 Service Level Agreement (SLA) and Penalties	69	4.A.8.10.1	SLAs will be monitored and reported on monthly basis to RailTel by the 5th working day of each month.	Please change SLA monitoring & Reporting on Quaterly basis instead of monthly.	As per Tender.
237	4.A.14.1 Eligibility Criteria Requirements for Bidders:	94	Experience in Video surveil-lance (Technical capabil-ity)	Note:- In case of Consortium/JV, only Lead bidder expe-rience shall be considered against the above mentioned criteria of similar work experience.	The essence of consortium bidding is that the consortium partners can pool in resources & experience to participate in the bidding process. Considering the Lead Bidder expe-rience only does not go in line with the consortium bidding process. Therefore, it is requested to change this clause to: In case of Consortium/JV, Lead bidder or consortium /JV member experience shall be considered against the above mentioned criteria of similar work experience. All the recent RFPs in the Smart City space allows consortium bidding and also allows the experience of any of the consortium partner t obe considered both for PQ & TQ evaluation. RFPs can shared for reference if required.	As per Tender.
238	8.11 Switches Type-IV	212	Note	Note:- NEBS Certification is not required for PMA. However, they have to produce certi-fi-cate from standard lab approved/authorized by Govt. of India that their product are equiv-alent to NEBS and meets all standard and specification of NEBS.	As per PMA policy, do the OEM of switch need to meet the Magic Quadrant for Wired and Wireless LAN Access published by Gartner. Kindly clarify	Please refer to point no. 17 of Corrigendum-VI.
239	4.A.14.1.3	98	4	The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	Kindly clarify whether CCTV projects implemented in the nominated Smart Cities as a part of Safe City projects qualify for this clause since most of the Smart City projects are still under implementation.	As per Tender.
240	3.A.1.9	52	b	The bidder shall be fully responsible for Quality Assurance of equipment & other network elements and supervision of following -b) Integration with existing network	Please provide the details of existing network for integration and compatibility check	Details shall be shared with the successful bidder.
241	3.A.1.7.1	51		Railways shall provide AC power supply at station/cabin/panel room/mid- section buildings for carrying out the awarded work. The successful bidder will have to pay the nominal charges for the power supply as per the exist-ing Railways Norms.	Existing Railway Norm to be mentioned to pay the nominal power charges.	Railways Power used by the bidder to carry out the awarded work will be charged as per the ongoing rates and standard norms of Indian Railways. However the bidder may make its own arrangements for the power supply for the execution of the work.
242	3.A.1.4.14	51		AMC (including repair / replacement of all consumables) for 5 years after the completion of 24 months of warranty period.	Please cleary mension the name of consumable, cost of consumable is directly proposnal to no of users, time and quantities of usage. requested to either remove the consumable from bidders scope or list out the consumable along with details of usage.	Clause is self explanatory.
243	3.A.1.10	53	4	Continuous training and retraining- As and when required by RailTel	Just wanted to understand that the man day for training mentioned in BOQ also include As and when required training by RailTel. If not please mention the additiona Trainee days.	Bidder to quote as per SOR.
244	Tender Notice	3	**	EMD will be payable by Bank Draft in favour of RailTel Corporation of India Limited, New Delhi.	As the amount of EMD is above INR 40 Lacs for each region, please allow bidders to submit EMD in form of Bank Guarantee also. This will enable more bidders to participate.	As per Tender.
245	Chapter 3	52	3.A.1.7.9	Any land required by the bidder will be made available by Railways, if available, at the lease cost as per the latest norms of Railways.	Please explain the rationale behind the charges as this project is being executed by bidder on behalf of Railtel only for the railways. As detail of necessary lease cost would be required for costing purpose, request you to please quantify the lease cost?	In case, the bidder requires space for his own use in order to carry out the work awarded, then Railways may provide the required space for which bidder would be charged as per the standard rates of Indian Railways
246	Chapter 3	52	3.A.1.9 b)	Integration with existing network	Please provide the detail of existing network containing information of type of equipment's & interface details?	Details shall be shared with the successful bidder post award of the work.
247	Chapter 3	53	3.A.1.10.4	Continous training and re-training - As and when required by RailTel	Kindly elaborate the term 'Continous training'	Bidder to quote as per SOR.
248	Chapter 3	68	3.D.1.A	Inspection will be carried by RDSO for all the items for which RDSO specifications are referred. For other items the inspection will be carried out by RailTel or its authorized agency	For non-RDSO spified items, what will be the procedure of inspection to be done by Railtel or its authorized agency?	As per Tender.

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249	Chapter 4	79	4.A.3.1	Bidder/OEM shall provide maintenance support after successful completion of the warranty obligations for a minimum period of 5 years (SOR item no. C (1)). The long term maintenance support shall be comprehensive and include all hardware and software of equipment, NMS etc. supplied against this contract. RailTel should be extended the benefits of software update/up-grades made by Bidder/OEM on the sys-tem from time to time to improve performance. During this period the scope of work as mentioned in Clause 4.A.2 above & its sub clauses will be applicable.	We understand that AMC of 5 years of the equipments will start division wise after completion of warranty period of respective division.. Is our understanding correct? Please confirm.	As per Tender.
250	Chapter 4	86	4.A.8.4	The contractor must ensure the up-time off at least 95% for the installed system be-ing offered as part of video surveillance solution, upto the end of the AMC period of 5 years. The up-time would be monitored and calculated on the monthly basis and no re-laxation or consideration would be made for the non-availability of the back-up/stand-by system.	Please define the penalty in case of SLA breach? In case of network availability less than 95%, please clarify the consequences.	Availability of MPLS Network shall be ensured by RailTel. In case of any disruption in the RailTel network same shall not be considered for calculation of uptime of the network.
251	Chapter 4	92	4.A.11.	Liquidated Damages The timely delivery is the essence of this tender. Liquidated damages will be appli-cable at the rate of half percent per week or part thereof for undelivered portion of SOR subject to a maximum of 10% of the cost of Purchase order/LOA for any rea-son whatsoever attributed to failure of bidder. RailTel will have the right to cancel the order, place order on alternative source besides levying the liquidated damages as above.	We understand that LD should not impose on bidder if the delay is being attributed due to purchaser. Is our undersnading coorrect?	Clause is self explanatory.
252	Chapter 4	107	4.A.36.5(b)	Part-II "Price Bid" Shall contain (i) the offer letter (ii) the price bid for "Sched-ule of requirements" as per part I of Chapter 2 along with "Bill of Material" for each item quoted exactly according to the proforma, as also submitted along with "Credential Bid" as in para 35.5 (a) 2 above, separately for each package if sub-mitted bids for more than one package. In case, the bidder has submitted bids for more than one bid and price bids for any two or more packages are found in one price bid, the bid shall be summarily reject-ed.	In case a bidder wants to bid for all four packages - Please clarify whether four separate ID given for each packages or four separate files need to be uploaded under one single tender ID on e-tender portal? Please confirm.	May pls. refer Note-II of clause 4.B.7 of tender document.
253	Chapter-4	113	4.B.9	Eligibility criteria related documents as applicable shall also be scanned and submitted ONLINE. Copy of these documents shall also be submitted in RailTel before Tender opening date & time. Bids without these off line submissions will be summarily rejected.	As Technical doc are also part of the 'CREDENTIAL BID', please clarify wheter complete 'CREDENTIAL BID / TECHNICAL BID' need to be submitted offline or only few selected Eligibility criteria related documents (please spacyfy) need to be submitted. Generally, in all E-tenders, bidders are asked to submit only few documents offline such as EMD, Integrity Pact, cost of tender document, pass phrase etc. Request you to allow the bidder to submit CREDENTIAL BID / TECHNICAL BID on-line only. However, documents such as EMD, Integrity Pact, cost of tender document, pass phrase etc. could be submitted offline.	May pls. refere clause 4.B.8 of tender document.
254	Chapter-4	234	II.4.1	TECHNIQUE FOR JOINTING OF OPTICAL FIBRE CABLE	We understand that in railway premises, where digging is not possible fiber overhead laying could be considered. Please confirm.	As per approved plan based on site survey.
255	8.7. Type-I Switch	206	31	Switch should have SAFETY CERTIFICATE of UL	We request you to consider and modify this clause "Switch should have SAFETY CERTIFICATE of UL & EAL2/NDPP certified from common criteria "as this will ensure evaluation of product hardware and software for security related vulnerabilities.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
256	8.8. Type-II Switch	208	28	Switch should have SAFETY CERTIFICATE of UL	We request you to consider and modify this clause "Switch should have SAFETY CERTIFICATE of UL & EAL2/NDPP certified from common criteria "as this will ensure evaluation of product hardware and software for security related vulnerabilities.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
257	4.A.9.1.3 Server Management:	70	1	Performing management of Servers for in-scope application/system	can bidders propose clounud base solution for server and related infrastructure? Please confirm	As per Tender.
258		93	4.A.14.1 Eligibility Criteria Requirements for Bidders: Satisfactory Working of Model Offered	Documentary proof of each offered model of equipment for camera, server, storage, switches, edge device, firewall, UPS and VMS software is proven and working for at least six months in India or abroad	As the PMA policy of the Government of India will be applicable on this tender, Please confirm that the requirement of the prior experience is not applicable for domestic manufacturers as per clause no.5.4 of the PMA policy.	PMA policies issued by MEITY (Govt. of India) are not applicable as on date. Public procurement (make in India) order 2017 issued by DIPP (Govt. of India) doesn't have any provision for preference to domestic manufacturer in case of Turnkey projects.
259		107	4.A.36 Submission of Offers-9	Documentary proof of each offered model of equipment for camera, server, storage, switches, edge device, firewall, UPS and VMS software is proven and working for at least six months in India or abroad	As the PMA policy of the Government of India will be applicable on this tender, Please confirm that the requirement of the prior experience is not applicable for domestic manufacturers as per clause no.5.4 of the PMA policy.	PMA policies issued by MEITY (Govt. of India) are not applicable as on date. Public procurement (make in India) order 2017 issued by DIPP (Govt. of India) doesn't have any provision for preference to domestic manufacturer in case of Turnkey projects.
260		205	8.8. Type-I Switch:	14. Should have AC Power Supply 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.	The industrial grade switches are DC powered due to high PoE wattage and their temperature resistant range. In line to same, we request to ammend the clause as " Should have AC Power Supply with or without external adapter 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug. ". This is in line with the previous surveillance tender which was released under Nirbahaya fund. Kindly confirm.	As per Tender.

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261		206	8.8. Type-I Switch:	20. Switch should support IEEE 802.3af & IEEE 802.3at on Ethernet ports & Min 120W PoE Power Budget.	We do understand that the power requirement of surveillance cameras(Dome Camera & Bullet cameras) ranges from 12 Watts to 18 watts. Also, there is a 2W ~ 3W Power dissipation across cable length as the cameras are deployed at distance ranging 30-80 mtrs. To accomodate the same, it has been an industrial practice to use 1.3 times of rated power supply of Cameras for PoE/PoE+ ports to calculate PoE Budget of Switches.To cater such field requirements, we do recommend minimum 180+ W PoE+ budget for the switch which gives appropriate power budget to power on the end devices. To strengthen further, we would like to bring in your notice, that in recent BSNL tender for similar services, PoE budget of 120W which was in initially in the tender was revised to higher PoE wattage. Kindly confirm amendment of the clause as "Switch should support IEEE 802.3af & IEEE 802.3at on Ethernet ports & Min 180+ W PoE Power Budget.". Please confirm.	As per Tender.
262		206	8.8. Type-I Switch:	26. Operating Temperature of the Switch should be min -0 to 50 °C.	Type-I switch will be deployed in outdoor location supplying power to the cameras. As cameras fetch power from the switch, heat dissipation is higher and the temperature is bound to increase by at least 15 degree. Also, in the previous tender which was annuled, the temperature requirement was 60 degree. We request therefore to increase the temperature to at least 75 degree so as to make the network resistant to temprature. This would essentially help in minimizing the downtimes due to high temperature and will secure the mission critical services which will ride on the network. Also, to bring in your kind notice, all surveillance networks tenders ask for industrial grade switches which are hardened for temperature. Even in the current tender, the 1G SFPs which would be used in the switches have been asked for temperature hardening of 65 degree. Kindly confirm amendment of the clause as "Operating Temperature of the switch should be min -20 to 75 degree. Please confirm.	As per Tender.
263		206	8.8. Type-I Switch:	Type-I Switch: Certifications	We do understand that these are the field switches and will be deployed in outdoor locations. The locations are bound to be impacted by vibration and shock against which we request to consider NEMA-TS2 certified switches. Also, all deployments happening in metro Railway Projects pertaining to surveillance are with IP30 ensuring vandalism proof network. Such certification will ensure network is tolerant to such parameters. Kindly confirm addition of the clause as "Switch shall be NEMA-TS2 certified". Please confirm.	As per Tender.
264		209	8.10 Type-III Switch	29. Switch should have SAFETY CERTIFICATE of UL Switches should be EAL2/NDPP certified from common criteria.	We request to allow Safety compliances of against UL also for the switches. Also, EAL2 & NDPP are US Standards and hence this certification becomes onerous and restrictive especially for domestic manufacturers. In lieu of EAL Certification, we request you to allow the compliance against EAL2 requirements. A self compliance certification from OEM against EAL2 requirements should be acceptable.Attached is copy of NFS (Network for Spectrum which is a very security sensitive network being made for the tri services with an estimated cost of more than INR 15000Cr)tender for Army & Navy where in the compliance against EAL-2 was acceptable. Request you to allow compliance against EAL-2 specifications instead of certification as has already been accepted in NFS tender. Pls confirm. Below is the reference from BSNL-Indian Navy Tender (CA/CNP/NCN-EQPT/T-464/2014 ISSUED ON 31 JAN 2014)--- Annexure No. 2 --- Page 46 --- Chapter 4 of TEC GR No.GR/LSW-01/04 MAR 2011 with latest amendments and EAL 2 compliant.	Please refer to point no. 15 of Corrigendum-VI.
265		200	8.9. Switches Type-IV	18. OEM should have figured in latest Gartner Report in field of Ethernet Switches	As the PMA policy is implemented on the tender,clause 5.4 of the PMA guidelines No. 8(78)/2010-IPHW dated 12th June,2013 mandates that the tender conditions should encourage the participation of domestic manufacturers and there should not be any restrictive conditions of prior experience and product specifications for the domestic manufacturers. In view of the same, please confirm that Gartner Quadrant requirement is not applicable to domestic manufacturers as this is a restrictive condition for the participation of domestic manufacturers. Please confirm.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
266	Chapter 8- (8.2 Server)- Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	204 of Railtel Tender and Page 21 of RDSO Document	S.No.XII	S.No.XII- Interface Type :	Kindly help us know, if you are OK with same LANPORT being used for connecting external storage device as well, please clarify.	Separate dedicated port.
267	Chapter 8- (8.2 Server)- Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	204 of Railtel Tender and Page 22 of RDSO Document	S.No. XIV)	S.No. XIV- RAID Controller :	Is software RAID is acceptble or not.	Hardware Raid Controller is defined in RDSO specs.
268	Chapter 8- (8.2 Server)- Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	204 of Railtel Tender and Page 21 of RDSO Document	S.No. XI)	LAN/Ethernet	Kindly clarify if dedicated port for remote managment is required or not?	Please refer to point no. 11 of Corrigendum-VI.
269	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document	S.No. X -: Hard Disk Drive	S.No. X -: Hard Disk Drive	Kindly clarify if HOT PLUG or NON-HOT PLUG bay are required	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.

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270	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document	S.No. X :- Hard Disk Drive	S.No. X :- Hard Disk Drive	In tender you have asked for 2 x 450 GB SAS harddrives, kindly clarify how to scale up if required in future.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
271	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document	S.No.XI- RAID Controller	S.No.XI- RAID Controller	Is software RAID is acceptable or not.	Hardware Raid Controller is defined in RDSO specs.
272	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document	S.No.IX – Graphics Card	S.No.IX – Graphics Card	Kindly confirm if we can supply NVIDIA - GE FORCE consumer grade graphic card.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.
273	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document	S.No. X :- Hard Disk Drive	S.No. X :- Hard Disk Drive	As per our information 450GB Capacity based SAS 10K RPM Hard Drives are either end of life please clarify which capacity HDD we should consider.,	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
274	Chapter 8-(8.21 Edge Device) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment RDSO/SPN/TC/65/2016 Revision 4.0. Ammendment No. 1	205 of Railtel Tender and Page 5/9 of RDSO Document- Ammendment no. 1	S.No. IX) Hard Disk Drive	S.No. IX) Hard Disk Drive	Edge device is used for 7 days storgae and pushing data to cloud in future, 4TB capacity would be over design and 2TB should suffice the purpose, please do revisit. Also let us know, the form factor for this device, which will also help management and layout planning.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
275	8.8 Type-I Switch:	205	15	Should support at least 8000 entries in the MAC table.	For the large scale deployment of access switches which are in L2 network, the MAC address support shall be 16000 in the MAC Table.	As per Tender.
276	8.8 Type-I Switch:	206	20	Switch should support IEEE 802.3af & IEEE 802.3at on Ethernet ports & Min 120W PoE Power Budget.	Shall Support UPOE and PoE power budget shall be Minimum 180W Supportable.	As per Tender.
277	8.8 Type-I Switch:	206	21	Switch should support Surge Protection to ± 2 kV (line-earth) and ± 1 kW (line-line) on power input and Surge Protection to ± 2 kV on Ethernet ports or as per EN61000-4-5 standard.	Considering the deployment at Railway stations, the Switch should support Surge Protection to ± 2 kV (line-earth) and ± 1 kW (line-line) on power input and Surge Protection to ± 4 kV on Ethernet ports.	As per Tender.
278	8.10 Type-III Switch:	209	29	Switch should have SAFETY CERTIFICATE of UL. Switches should be EAL2/NDPP certified from common criteria.	This Certification shall be removed. To promote open Standard operating System Platforms.	Please refer to point no. 15 of Corrigendum-VI.
279	8.8. Type-I Switch:/24			Operating Temperature of the Switch should be min -0 to 50 °C.	If we produce a compliance letter for this point which is authorised and approved by Cisco Legal Team, will this letter be acceptable as compliance document. Justification: Across the world temp. requirement of these switches is 45 deg. Because of this reason, datasheets are published with 45 deg as operating temperature while switch can work upto 50 deg. Changing same fact in datasheet is lengthy process which may take 3-6 months as per Cisco's internal process. Keeping in mind timelines for this project we can produce legal letter for compliance.	As per Tender.
280	8.8. Type-I Switch:/24			IPv6 feature should be ready from day 1.	IPv6 feature should be certified/ logo ready from day 1	As per Tender.
281	8.8. Type-I Switch:/28			"OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	"OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	As per Tender.
282	8.8. Type-I Switch:/31			Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL. Switch should be EAL2/NDPP certified from common criteria.	As per Tender.
283	8.9. Type-II Switch/23			Switch shall be IPv6 Certified/Ready.	IPv6 feature should be certified/ logo ready from day 1	As per Tender.
284	8.9. Type-II Switch/25			should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted)	"OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	As per Tender.
285	8.9. Type-II Switch/28			Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL. Switch should be EAL2/NDPP certified from common criteria.	As per Tender.
286	8.10. Type-II Switch/22			Switch shall be IPv6 Certified/Ready.	IPv6 feature should be certified/ logo ready from day 1	As per Tender.
287	8.10. Type-II Switch/24			Operating Temperature of the Switch should be min -0 to 50 °C.	Operating Temperature of the Switch should be min -0 to 45°C.	As per Tender.
288	8.10. Type-II Switch/26			should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted)	"OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	As per Tender.

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289	8.9. Switches Type-IV/4.			Should have AC/DC power supply arrangement as given below without any external adaptors with redundant hot swappable power supply:	Should have AC/DC power supply arrangement as given below without any external adaptors with dual power supply:	Please refer to point no. 16 of Corrigendum-VI.
290	8.9. Switches Type-IV/6.			Switch shall have 6 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports complying to IEEE 802.3, IEEE 802.3u and 802.3ab standard , supporting half duplex mode ,full duplex mode and auto negotiation on each port of 1G to optimize bandwidth.	Switch shall have 8 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports complying to IEEE 802.3, IEEE 802.3u and 802.3ab standard , supporting half duplex mode ,full duplex mode and auto negotiation on each port of 1G to optimize bandwidth.	As per Tender.
291	8.9. Switches Type-IV/17 (i).			The model of the Switches series shall have MEF-(9 & 14)/CE2.0 or higher certification from authorized agencies.	The model of the Switches series shall have MEF-(9 & 14) and CE2.0 or higher certification from authorized agencies.	As per Tender.
292	8.9. Switches Type-IV/17 (vi).			IPv6 feature should be ready from day 1	IPv6 feature should be certified/ logo ready from day 1	As per Tender.
293	8.9. Switches Type-IV/18			OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner. (Documentary support to be submitted)	"OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
294	8.3. Edge Server Hardware at stations : a. For A-1 Category Stations:			Cache - 15 MB	Cache - 8.25 MB	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
295	8.3. Edge Server Hardware at stations : a. For A Category Stations:			Cache - 20 MB	Cache - 11 MB	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
296	8.3. Edge Server Hardware at stations : a. For B & C Category Stations:			Cache - 15 MB	Cache - 8.25 MB	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
297	RDSO Spec Server, 8.4 Server hardware			Cache - 20 MB	Cache - 11 MB	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
298	RDSO Spec Storage, Storage hardware			Cache :16 GB per controller	Cache:- 128 GB per controller	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
299	Pg. 43 SOR			Bidder offered solution may be based on either separate server hardware for Video Management & Video Recording OR same server hardware for both video management & video recording. However, the offered solution should meet the scalability requirement without impacting the performance of server hardware. The offered solution for video management system (video management software & recording software) server hardware should be duly vetted and supported with certifications issued by OEM.	Bidder offered solution may be based on either separate server hardware for Video Management & Video Recording OR same server hardware for both video management & video recording or same server and storage hardware for both video management and video recording servers. However, the offered solution should meet the scalability requirement without impacting the performance of server hardware. The offered solution for video management system (video management software & recording software) server hardware should be duly vetted and supported with certifications issued by OEM.	As per Tender.
300	Section -II	214	1.1	Firewall solution offered from OEM must be there in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	It is suggested that the Firewall OEM should be listed as the leader in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	As per Tender.
301	Section -II	214	2.2	The appliance should have at least 8 * 1 GE ports from day one	No mention of SFP / Fibre ports. Please clarify how many SFP slots / Fibre SX ports required with the Firewall	As per Tender.
302	Section -II	214	3.3	NG Firewall should support at least 15,000 connections per second with Application visibility	Please clarify the number of applications / application visibility details to be considered for connections per second parameter.	Please refer to point no. 18 of Corrigendum-VI.
303	Section -II	215	5.20	Should support Reputation- and category-based URL filtering offering comprehensive alerting and control over suspect web traffic	Is reputation / category based URL filtering solution required from day one or only support required and later licenses can be procured in future if required	As per Tender.
304	Section -II	215	5.23	Should support the capability (by purchasing license) of providing network-based detection of malware by checking the disposition of unknown files in the cloud using the SHA-256 file-hash as they transit the network and capability to do dynamic analysis on premise (if required in future) on purpose built-appliance	Kindly share the specifications of on premise appliance so that appliance is sized correctly for future procurement.	As per Tender.
305	Section -II 8.17. Next Generation Firewall	216	8.1	Firewall/ Firewall's Operating System should be tested and certified for EAL 4/NDPP or above under Common Criteria Certification or FIPS Level 2 Certifications	Firewall family or Firewall's Operating System should be tested and certified for EAL 4/NDPP or above under Common Criteria Certification or FIPS Level 2 Certifications	As per Tender.
306	4.A.14.1 Eligibility Criteria Requirements for Bidders:	93	2	Documentary proof of each offered model of equipment for camera, server, storage, switches, edge device, firewall, UPS and VMS software is proven and working for at least six months in India or abroad	As rapid development is happening in CPU processing power of equipment, hence with every revision/upgrade of CPU & memory, OEMs make slight change product models nomenclature. As hardware architecture of equipment remain same with each upgrade so to ensure that latest hardware model can be quoted by bidders, request to change this clause to "model/model family should be proven and working for at least six month in India or abroad.	Please refer to point no. 7 of Corrigendum-VI.
307	4.A.14.1.3	98		Eligibility Criteria Requirements for OEM's: The OEM(s) for proposed IP cameras should have supplied for at least one project in a metro railways or airport in India in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	As IP Camera OEM's make products across all countries, please consider reference project in a metro railways or airport of other countries as well. As switches will be deployed at platform along with IP cameras, hence request you to consider same pre-qualification for IP Switches OEM. As switches are part of complete stack of turnkey solution, they are sold through System Integrators Partners only. In such case, PO of Master system integrator should also be considered. "The OEM(s) for proposed IP switches should have supplied for at least one project in a metro railways or airport in last 3 financial years for Video Surveillance application (i.e. current year and three previous financial years) from the date of opening of tender"	As per Tender.

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308					We request to incorporate Gartner or IDC report should be applicable for all types of switches .	As per Tender.
309	8.8	205		8.8. Type-I Switch	In line with defend Architecture mentioned at section 3.8.1 at page 57, the type-1 switches will be deployed at Platform for termination of IP Cameras. At platform, the outside temperature will in rage of 48C which may raises to +10C to 12C (58- 60C)inside enclosure wherein switch will be installed. The switch which has been specified in tender is an enterprise grade switch of operating temperature 50C, which may fail to work and operate as their semiconductor has been designed to operate under maximum temperature of 50C only. If Switch malfunctions due to temeperature, it will lead to unavalibility of camera. In such scenario, the obojective of 24 hrs surveillance will never be achieved and will seriously impact the objective of overall investment. We hope, considering all these concerns only, in earleir tender of VSS for four regions (RailTel/Tender/OT/CO/OP/2016-17/VSS-NR/359) Industrial Garde Type-1 & Type-2 switches were considered. We highly recommend to consider the same Type-1 & Type-2 switches for smooth operation of network.	As per Tender.
310					The switch which has been specified in tender is an enterprise grade switch of operating temperature 50C, which may fail to work and operate as their semiconductor has been designed to operate under maximum temperature of 50C only.	As per Tender.
311					If Switch malfunctions due to temeperature, it will lead to unavalibility of camera. In such scenario, the obojective of 24 hrs surveillance will never be achieved and will seriously impact the objective of overall investment.	
312	8.7	195	14	Should have AC Power Supply100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.	Would request you to cosider switch with AC/DC power supply.	As per Tender.
313	8.7	195	28	"OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR "OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	We belive that OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner for Type-IV switch have been cosidered to ensure quality product, proven & latest technology . We would like to highlight that Type-1, 2, & 3 are equally important as Type-4 as all are a part of same IP CCTV network. So, we request you to consider Type-1,2,& 3 from OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner as mandatorily requirement.	As per Tender.
314	8.8	196	13	Should have AC power supply arrangement as given below in chassis without any external adaptors with internal redundant power supply.AC power supply 100 to 240 V AC with 50 to 60 Hz.	Would request you to cosider switch with AC/DC power supply.	As per Tender.
315	8.8	197	24	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 50 °C II) Storage Temperature - min -10 to 70 °C	In line with defend Architecture mentioned at section 3.8.1 at page 57, the type-2 switches will be deployed at Platform for aggregation of Type-1 switches. At platform, the outside temperature will in rage of 48C which may raises to +10C to 12C (58- 60C)inside enclosure wherein switch will be installed. Railtel has considered the extreme environment across india ,having entry levelswitches will be prone to frequent breakdowns.railtel had taken this into consideration and we recommend that field switches for type 1 & 2 may be changed to previous specification from Railtel Tender no # (RailTel/Tender/OT/CO/OP/2016-17/VSS-NR/359)	As per Tender.
316	8.9	207	28	"OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR "OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	We belive that OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner for Type-IV switch have been cosidered to ensure quality product, proven & latest technology . We would like to highlight that Type-1, 2, & 3 are equally important as Type-4 as all are a part of same IP CCTV network. So, we request you to consider Type-1,2,& 3 from OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner as mandatorily requirement.	As per Tender.
317	8.10	209	29	Switch should have SAFETY CERTIFICATE of UL. Switches should be EAL2/NDPP cerified from common criteria.	If EAL2/NDPP has been considered for security, the we request you to consider for all the components used in VSS network- IP camera, all switches, servers. Keeping it on just Type-3 & 4 will not bring any relevance. So, would request you to either consider EAL/NDPP on all componenets or relax on specifically mentioned Type-3 & 4 switches.	Please refer to point no. 15 of Corrigendum-VI.
318	8.10	209	26	"OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR "OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	We belive that OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner for Type-IV switch have been cosidered to ensure quality product, proven & latest technology . We would like to highlight that Type-1, 2, & 3 are equally important as Type-4 as all are a part of same IP CCTV network. So, we request you to consider Type-1,2,& 3 from OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner as mandatorily requirement.	As per Tender.
319	8.8,8.9,8.10	205		Request for addition: SDN openflow v1.3 is an open standrad for centralised management and ease of network operations. We highly recommend to consider SDN openflow v1.3 on all the switches (type-1,2,3,4). Please refer to mentioned link which shows that all leading OEM's are members of Openflow development.	Would request you to cosider Type-1,2,3,4 with open standard Open flow v1.3 support from day-1	As per Tender.
320	11.2	24	iii	No. of Threads: 16	-	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.

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321	11.2	24	iv	Frequency: 2.4 GHz or higher	Please amend the Clock speed frequency of the asked processor from 2.4GHz to 2.2 GHz as the processor which was qualifying earlier as per RDSO was Intel Xeon Processor E5-2630 v3 (8C HTT, 20MB Cache, 2.4GHz Turbo)	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
322	11.2	24	v	Cache: 10 MB	-	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
323	11.2	25	x	SAS HDD, 2x450 GB, 10000 RPM or higher		As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
324	11.2	25	vii	Windows Operating System or Linux, latest	Which OS is required, If this can be clarified	As per RDSO specification and Solution offered by the bidder.
325	11.3	25	11.3	4K UHD LED Monitor of 24 inch size shall be provided along with PC Workstation	Please amend this to 23.8" 4K USD LED Monitor or higher	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
326	ix		Graphics Card	One no. of dual Port 4 GB NVIDIA Graphic Card	Request you to add AMD graphics	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.
327	8.3	193			we request hardware OEM should be consider to be listed Top 5 Companies, Worldwide Server Vendor Revenue, Market Share, and Growth, Second Quarter of 2017 (Revenues are in Millions)	As per Tender.
328	8.3	192	a.i. Processor	Intel Xeon Processor	RFP asked for Intel Xeon Processor based on code name Broadwell series, however Intel has launched the latest processor code name Intel Skylake series	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
329	8.3	192	a.v. Cache	15 MB	As per RFP ask cache required is 15 MB, while in the latest Intel Skylake series L3 cache will be 8.25 MB cache, while over all cache will be higher	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
330	8.3	193	a. xii. Interface type	FC or iSCSI or FCoE or Ethernet interface for connecting External Storage device.	Please confirm the interface type required for storage connectivity	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
331	8.3	193	a. xiii. Hard Disk Drive	Hot Pluggable HDDs, configured under RAID . At least 4 or more internal Hot Swap Hard Drive Bays. 14TB Usable Storage after RAID 1 or 10 configuration or higher as per station requirement	Please confirm the HDD RPM & capacity	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
332	8.3	193	a. xiv. RAID Controller	SAS/SATA RAID Controller with RAID 0,1,and 10 configurations supported	We recommend to have 1GB Cache in the asked RAID Controller	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
333	8.3	193	b.i. Processor	Intel Xeon Processor	RFP asked for Intel Xeon Processor based on code name Broadwell series, however Intel has launched the latest processor code name Intel Skylake series	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
334	8.3	193	b.v. Cache	20 MB	As per RFP ask cache required is 20 MB, while in the latest Intel Skylake series L3 cache will be 11 MB, while over all cache will be higher	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
335	8.3	193	b. xii. Interface type	FC or iSCSI or FCoE or Ethernet interface for connecting External Storage device.	Please confirm the interface type required for storage connectivity	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
336	8.3	193	b. xiii. Hard Disk Drive	Hot Pluggable HDDs, configured under RAID . At least 4 or more internal Hot Swap Hard Drive Bays. 14TB Usable Storage after RAID 1 or 10 configuration or higher as per station requirement	Please confirm the HDD RPM & capacity	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
337	8.3	194	b. xiv. RAID Controller	SAS/SATA RAID Controller with RAID 0,1,and 10 configurations supported	We recommend to have 1GB Cache in the asked RAID Controller	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
338	8.3	194	c.i. Processor	Intel Xeon Processor	RFP asked for Intel Xeon Processor based on code name Broadwell series, however Intel has launched the latest processor code name Intel Skylake series	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
339	8.3	194	c.v. Cache	15 MB	As per RFP ask cache required is 15 MB, while in the latest Intel Skylake series L3 cache will be 8.25 MB cache, while over all cache will be higher	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
340	8.3	193	c. xii. Interface type	FC or iSCSI or FCoE or Ethernet interface for connecting External Storage device.	Please confirm the interface type required for storage connectivity	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
341	8.3	193	c. xiii. Hard Disk Drive	Hot Pluggable HDDs, configured under RAID . At least 4 or more internal Hot Swap Hard Drive Bays. 14TB Usable Storage after RAID 1 or 10 configuration or higher as per station requirement	Please confirm the HDD RPM & capacity	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
342	8.3	194	c. xiv. RAID Controller	SAS/SATA RAID Controller with RAID 0,1,and 10 configurations supported	We recommend to have 1GB Cache in the asked RAID Controller	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
343	9.4	20	iv. Contrast Ratio	RFP ask for 1100:1	request you to change the contrast ratio 1000:1	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
344	9.4	20	vii. Digital Input :	HDMI & DVI	kindly remove DVI ,we offer HDMI (2), Mdp, DP,VGA	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.

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345			x. External Control :	RS-232, RJ45	Please clarify why do we need RJ45, we request for removal as all display prefer to have RS232 in latest specification	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
346	Chapter 2 Package I, II, III, IV	8	3	3. Supply of PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS, and all other required accessories 34. Supply of PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS, and all other required accessories at Regional HQ, Railway Board or other authorized lo-cation to access the application hosted at respective stations and all accessories required for installation	Specifications of 500VA UPS Systems has not been specified in the RFP. Request to kindly share the technical Specifications of the same. Also, it is requested to kindly clarify 500 VA UPS required is Offline or Online type & battery backup required for 500 VA UPS with 'VAH' Capacity. Also, kindly clarify the meaning of "spike buster" 500 VA UPS. Does it imply that 500 VA UPS is required with inbuilt surge protection device (SPD) ? Warranty on batteries for UPS may be considered for 1 year/ 2 years being a consumable item.	Please refer reply at SN-1.
347	Chapter 2 Package I, II, III, IV	8	3	3. Supply of PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS, and all other required accessories	Quantity of PC Workstation is higher than number of stations in each package...? Kindly clarify the use of so many PC Workstation and their usage in both the architecture.	Some of Station/RPF/GRP Chowki/Posts shall be equipped with more than one number of Workstation.
348	Chapter 2 Package I, II, III, IV	13	38	38. Supply of Edge devices as per specification defined in clause 8.21 of chapter 8	Request you to kindly clarify - Purpose of Edge Device & How many numbers of Edge Devices will be used at each station and how many cameras will be conneted.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Bidder to quote as per SOR.
349	Chapter 2 Package I, II, III, IV	13	38	38. Supply of Edge devices as per specification defined in clause 8.21 of chapter 8	We assume that some no of cameras are connected to edge device and trasmits video recording to the RPF location video recording server. Kindly confirm our understanding.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
350	Chapter 2	42	IV	Since, RailTel is also implementing Wi-Fi work at railway stations, therefore, the existing available infrastructure may be utilized by the purchaser for implementation of VSS system and such items used may not be considered as a part of Supply orders.	It is very difficult for the vendor to surey all stations. Kindly provide the details of the exact infrastructure that the bidder will be allowed to use. Alternatively confirm if BOQ quantities can be varied at the time of supply in accordance to infrastrucrturs available.	Bidder to quote as per SOR.
351	Chapter 3	49	3.A.1.4.1	Planning, Design, Supply, Installation, Testing, Commissioning, Opera-tion and Maintenance of the Edge Infrastructure of video surveillance system at various Railway Stations of A1, A and B category of Indian Railways under Northern, Western, Eastern and Southern Region of RailTel (as identified in SOR and Annexure 1 of Chapter 7 in this RFP). The system shall comply with RDSO Specification RDSO/SPN/TC/65/2016 Rev. 4 with latest Amendment.	Amendment No. 1.0 to RDSO specification of IP Based Video Surveillance System, RDSO/SPN/TC/65/2016, Revision 4.0 suggest two types of Architecture as below: Architecture I) Stations where Viewing, Recording, Video analytics and Face Recognition Software shall be deployed at Station on Servers / NVRs. Selected Cameras can also be monitored at Divisional Surveillance Control Room or at any other places on LAN/WAN. Architecture II) Cloud based Architecture for computing and storage for Video Surveillance System where Storage, Video Analytics and Face Recognition Software are deployed at the Cloud. Viewing and monitoring shall be done at any place connected to Cloud including Stations, Divisional Surveillance Control Room, GRP/RPF Posts etc. Request you to kindly clarify which architecture bidder need to propose for this tender.	Bidder to quote as per SOR and Solution Architecture defined in the tender document.
352	Chapter 2	43	XIII	The bidder is required to supply the NMS tool including all hardware and software in a centralized set-up in the Region. The monitoring services at all stations/RPF Chowki/Thana under the region will be provided from the centralized set-up through the clients installed at all the Stations/RPF Chowki/Thana.	We understood Each Region has 1 Set of NMS and deployed at centralized location and NMS clients shall be provided at all Stations/RPF/Thana Kindly confirm	Clause is self explanatory.
353	Chapter 3	65	3.B.6	Installation of Panic Button on platforms and Associated VMS Requirements	Please consider IP based Panic buttons with both Video / Audio capabilities providing better engagement experience to passengers in distress. The same SOS button should have seamless integration with the Video management system to have an unified view of the Panic call and Cameras.	As per Tender.
354	Chapter-3	67	C	Management system servers will be installed at each RPF Thana/Chowkis collocated with the Zonal HQ for Network Switches and UPS etc.	As there are 16 Zonal HQs(CHAPTER-7) Please clarify Management System server (i.e. NMS servers) are deployed at each Zonal HQ or centralize location at each Region (4 Nos) as per XII Page No 43 NMS clause.	Bidder to quote as per SOR. Detail shall be share with the successful bidder.
355	Chapter 3	70	3.D.3.	Testing Procedure for VSS equipment for which requisite testing facility is not available in India Necessary type tests as well as acceptance tests on the equipments offered shall be conducted to ascertain conformance of the equipment to the requisite RDSO specification. These tests shall be got conducted by the OEM/Vendor at 3rd party test hous-es of international reputre such as UL, TUV etc.	Existing test reports of TUV/UL/international testing Labs for switches must be considered for FAT rather than repesting same test again. So, would request you to clarify the same.	As per Tender.

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356	Chapter 4	80	4.A.4	Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/LoI	Considering the project volume. Kindly confirm if the delivery timeline for 12-14 weeks from the date of design and documents approval is acceptable or partly delivery for east west north south regions is acceptable. Kindly extend the project completion period as practically it would be not possible.	As per Tender.
357	Chapter 4	87	4.A.8.6.1	This camera location downtime shall include the service disruptions caused due to reasons including but not limited to camera failures, server failures, edge device failures, software breakdowns, networking device failures, UPS failures, electricity circuit breakdown (excluding AC Mains outage) or data network break down.	Servers, Networking components & Software (which will be deployed at Datacenter) are not in scope of bidder so kindly exclude downtime breakage due to those components	As per Tender.
358	Chapter 4	93 & 107	4.A.14.1(2) & 4.A.36.5(9)	Satisfactory Working of Model Offered: Each offered model of equipment for camera, server, storage, switches, edge device, firewall, UPS and VMS software should have been working for at least six months in India or abroad	Since the technology keeps changing it is requested to accept certificates of similar model/ alternate or upgraded model to be working in India/abroad for 6 months	Please refer to point no. 7 of Corrigendum-VI.
359	Chapter 4	98	4.A.14.1.3 (4)	The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	Considering prestigious project, it is very much recommended that products must be reliable and proven to work for Video Surveillance application in similar Metro/Railways/Airport environment. So, we request you to consider same PQ should for switches as well. "The OEM(s) for proposed IP switches should have supplied for at least one project in a metro railways or airport in India in last 3 financial years for Video Surveillance application (i.e. current year and three previous financial years) from the date of opening of tender"	As per Tender.
360	Chapter 4	98	4.A.14.1.3 (4)	The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	This is restrictive clause and will avoid global competition. (a) Kindly allow OEM's among the IMS top 5 in the VMS category as accepted one of the accepted OEM criteria for VMS. (b) Please consider Global experience PO in the safe city / smart city areas as an accepted PQ. (c) Kindly increase the period from three years to five years.	As per Tender.
361	New Clause	204	8.3	Video Surveillance System Software including Video Management Software, Video Recording Software and GUI Client Software	It is important to consider Multicast as a primary source of functionality for bandwidth optimization in a size of this project with multi-layer monitoring. The application should have the ability to live streaming and recording Multicast streams generated directly from the camera.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
362	New Clause	204	8.3	Video Surveillance System Software including Video Management Software, Video Recording Software and GUI Client Software	The application should have native capability to switch Unicast to Multicast or Multicast to Unicast (In case of Wireless backhaul is adopted or Non-Multicast networks).	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
363	New Clause	204	8.3	Video Surveillance System Software including Video Management Software, Video Recording Software and GUI Client Software	The application must support Open standards of Multicast including IGMP, PIM – SM, PIM – DM for both IPv4 and IPv6.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
364	New Clause	204	8.3	Video Surveillance System Software including Video Management Software, Video Recording Software and GUI Client Software	Since the architecture is a hierarchy based system, it is very important that the application must have a federation functionality, where each of those VMS / NVR 's deployed at the station level must work independently but should be able to Federate to the Divisional HQ and further to the Central Command & Control on need basis providing a global view of all those independent sites virtually as one single site for better decision making and ease of operations.	As per Tender.

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365	New Clause	204	8.3	Video Surveillance System Software including Video Management Software, Video Recording Software and GUI Client Software	Cyber security is an very important aspect to be covered across all the components of the project and the Video management platform should have the below min Cyber security standards: <ul style="list-style-type: none"> • Offline or on site Cyber security response centre be provisioned, which investigates all reports of security vulnerabilities affecting systems. • All communication between the Servers, Clients and external systems shall be based on standard TCP/IP protocol and shall use TLS encryption with digital certificates to secure the communication channel. • The system shall limit the IP ports in use and shall provide the Administrator with the ability to configure these ports. • The system shall support only secured media stream requests, unless explicitly configured otherwise. Secured media stream requests shall be secured with strong certificate based authentication leveraging RTSPS (aka RTSP over TLS). Client authentication for media stream requests is claims-based and may use a limited lifetime security token. • The system shall offer the ability to encrypt the media stream, including video, audio, and metadata with authenticated encryption. Media stream encryption shall be done at rest and in transit and be a certificate based AES 128-bit encryption. • The system shall be capable to provide up to 20 different certificates for different groups of users who have been granted access to decrypted streams. • Use Secure RTP (SRTP) to encrypt the payload of a media stream in transit and allow multicast and unicast of the encrypted stream. • Use a random encryption key and change periodically. • The application should have in built capability to encrypt the recorded video and set a password while exported to other storage media like USB sticks / DVD drives etc. 	As per Tender.
366	New Clause	204	8.3	Video Surveillance System Software including Video Management Software, Video Recording Software and GUI Client Software	The Hosted Cloud provider must be an approved Vendor / Organization by Govt of India (GI) cloud initiative "Megahraj". This specification assures the needed security and needed framework is well validated for those public cloud providers.	As per Tender.
367	Chapter 8	205 & 206	8.7 (14, 26)	14. Should have AC Power Supply 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug. 26. Operating Temperature of the Switch should be min -0 to 50 °C.	The Type-I switches will be installed at platform in outdoor environment, with direct exposure to sunlight with which temprature inside enclosure/rack will go beyond 60C in peak summers . In such environment, the switch with 50C operating temperaure range may fail to work or mis-behave. Infact, operating a 50C switch under higher temperature of 55-60C will also impact product warranty as prodcut warranty is applicable for usage in defined product specifications only. So, we highly recommend to consider industrail grade switch with min 65C operating temperature range. As industrail grade switches operates with DC power supply, so would request you to accept switch either AC/DC powered.	As per Tender.
368	New Clause	206	New Clause	Request for addition for Type-I Switch Shock EN60068-2-27 EN60068-2-31	Considering these switches will be insatllted at platforms, so it is mandatority required that switches must be certified for following standard to ensure smooth operation against vibration, shocks and temperature at platform outdoor	As per Tender.
369	Chapter 8	207	8.9 (24)	24. Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 50 °C II) Storage Temperature - min -10 to 70 °C	The Type-II switches will be installed at platform in outdoor environment, with direct exposure to sunlight with which temprature inside enclosure/rack will go beyond 60C in peak summers . In such environment, the switch with 50C operating temperaure range may fail to work or mis-behave. Infact, operating a 50C switch under higher temperature of 55-60C will also impact product warranty as prodcut warranty is applicable for usage in defined product specifications only. So, we highly recommend to consider industrail grade switch with min 65C operating temperature range. As industrail grade switches operates with DC power supply, so would request you to accept switch either AC/DC powered.	As per Tender.
370	Chapter 8	210	8.11 (4)	4. Should have AC/DC power supply arrangement as given below without any external adaptors with redundant hot swappable power supply:	We request you to modify this clause as Should have AC/DC power supply arrangement as given below without any external adaptors with dual power supply:	As per Tender.
371	Chapter 8	210	8.11 (6)	6. Switch shall have 6 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports complying to IEEE 802.3, IEEE 802.3u and 802.3ab standard , supporting half duplex mode ,full duplex mode and auto negotiation on each port of 1G to optimize bandwidth.	We request you to modify this clause as "Switch shall have 8 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports complying to IEEE 802.3, IEEE 802.3u and 802.3ab standard , supporting half duplex mode ,full duplex mode and auto negotiation on each port of 1G to optimize bandwidth".	As per Tender.
372	Chapter 8	212	8.9 (17(i))	17. i. The model of the Switches series shall have MEF-(9 & 14)/CE2.0 or higher certification from authorized agencies.	We request you to modify this clause as "The model of the Switches series shall have MEF-(9 & 14) and CE2.0 or higher certification from authorized agencies." as CE2.0 is latest standard for career ethernet enabled devices and ensures that device comes with feature rich software for future MPLS needs.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.

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373	Chapter 8	212	8.9 (18)	18. OEM should have figured in latest Gartner Report in field of Ethernet Switches	Request you to amend this eligibility requirement in line with the eligibility requirements as asked for Type I & II Switches.	May pls. refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
374	Chapter 8	217	8.18 (22) & 8.18 (23)	Battery Type - SMF Battery backup - 1 Hrs. on full load (Single bank)	It is requested to kindly specify Minimum VAH capacity. This will provide common platform to all prospective bidders.	Clause is self explanatory.
375	Chapter 8	218	8.19 (21) & 8.19 (22)	Battery Type - SMF Battery backup - 1 Hrs. on full load (Single bank)	It is requested to kindly specify Minimum VAH capacity. This will provide common platform to all prospective bidders.	Clause is self explanatory.
376	Chapter 8	224	8.22 (4)	Installation: The NMS should support High Availability solution via internal or 3rd part software components if required in future.	We understand that in current NMS BOQ (Server Hardware & Software Licenses) considered by bidders, it is not required to provision High Availability components since it's in future scope. Please confirm.	As per Tender.
377	New Clause		New Clause	Additional Comment related to adding a Digital Audio Video Attractor in SOR for Improving performance of Face Recognition System	In order to ensure that the investment in Face Recognition Software yields useful and optimum results, it is recommended to add a digital audio video attractor which will be mounted adjacent to all 4K cameras (as shown in the figure below) which are used for Face Recognition System. This attractor can be in the form of Outdoor Display which runs some audio video clippings to seek attention of the passersby. It is a scientifically proven fact also acknowledged in NIST Face in Video Evaluation report that: "Effect of using an attractor: As face recognition algorithms have well documented sensitivity to head pose elevation, identification error rates increase with both the angle of the head relative to the optical axis of the camera, and with the difference of that angle to whatever it is in the enrolment photograph. It is common to install some device that attracts subjects' attention, and thereby improve pose. The audio-video attractor reduced identification misses substantially." (Refer Page 11 NIST FIVE Report published in March 2017) Request you to consider this in the current SOR, since this additional investment will surely improve the performance of all Face Recognition Systems substantially.	Bidder to quote as per SOR and Solution Architecture defined in the tender document.
378	4	59	4.A.2.2	If it becomes necessary for the contractor to replace or renew any defective portion/portions of the supplies under this clause, the provisions of the clause shall apply to the portion/portions of the equipment so replaced or renewed or until the end of the above-mentioned period or twelve months, whichever may be later. If any defect is not remedied within a reasonable time of 30 days, the Purchaser may proceed to do the work at the contractor's cost, but without prejudice to any other rights which the Purchaser may have against the contractor in respect of such defects.	Contractor's cost under such circumstance shall be limited to value of defective product as agreed amongst parties under this Agreement.	Clause is self explanatory.
379	4	60	4.A.2.5.1	After the proposed system is commissioned and placed in service and after provisional acceptance certificate is issued, the contractor shall be responsible for proper maintenance supervision of the system free of cost for a period of twelve months from the date of provisional acceptance. The Maintenance Supervision period would begin RPF Thana/Chowki wise after the PAC has been issued against that RPF Thana/Chowki. For this purpose, he shall prepare a maintenance plan and make available the services of qualified maintenance engineer stationed at the location approved by Purchaser's Engineer who will guide and supervise the RailTel maintenance staff.	It is not clear if maintenance period is starting after or before warranty period.	Clause is self explanatory.

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380	4	68	4.A.8.2	Penalties shall not be levied on the successful bidder in the following cases:- a) Noncompliance of SLAs has been solely due to reasons (acceptable to RailTel) beyond the control of the successful bidder and b) There's a Force Majeure event affecting the SLA which is beyond the control of the successful bidder	Insert new clause(c) Now compliance is resulting from arts of RailTel or 3 rd Party.	As per Tender.
381	4	72	4.A.10.3	plus 20% of premium shall be recovered from the contractor.	Kindly delete this clause.	As per Tender.
382	4	72	4.A.11	10%	Kindly reduce from "10%" to "5%"	As per Tender.
383	4	84	4.A.29	Place of arbitration shall be New Delhi. Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited	Kindly note this should be Jointly agreeable by both the Parties.	Please refer to point no. 12 of Corrigendum-VI.
384	4	84	4.A.30.1	All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.	Kindly delete this clause	As per Tender.

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385	4	85	4.A.32	2 nd line	To Add after "Purchaser" in line 2: <i>shall give a reason able time to rectify the defect. In case Contractor fails to rectify the default, the Purchaser.</i>	As per Tender.
386	New Clause		New Clause	Exclusion of consequential losses	notwithstanding anything to the contrary in this tender or any other part of the agreement the parties agree that neither party shall be liable for (a) any losses which are consequential, special, indirect, remote, exemplary, punitive or speculative or (b) any losses or damages for loss of profits or business even if such party has been advised of the possibility of such costs or damages;	As per Tender.
387	New Clause		New Clause	Retention days	As per Police/IB guilines 90 days storage is require for any CCTV system. Kindly confirm 7 days retention is enough of there is future provision to archive storage for 90 days in cloud.	Please refer to point no. 2 & 4 of Corrigendum-VI.
388				Edge Device	As per RDSO 4.0 amendment sub sequent edge device are connected to each other. Is there an redundandacy is require in between edge device. Kindly confirm	Bidder to quote as per SOR and Solution Architecure defined in the tender document.
389	3	3.B.2	57	In addition to robust, secure and scalable network architecture on railway stations, fully secure network architecture will be required on Cloud. This network will work as a platform for implementation of Video Management, Video Recording, Video Analytics and Facial Recognition System etc. on cloud as well	As per this ideo Recording, Video Analytics and Facial Recognition System will be deployed on cloud. Current scope is limited to Local station recoding. When cloud infrasttute is ready then integration with Local VMS(Cloud ready) to cloud componet would be in whose scope.? Kildy confirm.	Bidder to quote as per SOR and Solution Architecure defined in the tender document.

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390		Storage Solution	65	The bidder must ensure that the capacity of storage system supplied at the Station should be supplied with an additional 50% capacity over and above the capacity required for 7 days recording computed on the basis of cameras given for respective station from day one	As per this 50% addition storage is require from day 1. Kindly confirm Addition storage from calculation is based on A1 Camera(43), A Camera(30) and B(18) camera at each sation with addition 50% storage. Please confirm	Please refer to point no. 2 & 4 of Corrigendum-VI.
391			12	supply, Installation, Testing and commissioning of Video Management System software (Video Management Software & Video Recording Software) (per camera basis) for the server hardware as supplied against item no. A.33 as defined in clause 8.3 of chapter 8.	Kindly confirm the location of management server. As all station will be connected to each other Bidder can plan common management sever which can handle up to 4000 to 5000 cameras.. Please confirm.	Bidder to quote as per SOR and Solution Architecure defined in the tender document.
392	CHAPTER 3	57	3.8.1	Architecture Overview	The tender mentions about Cloud Ready IP based Video Surveillance System, but a detailed architecture and workflow of movement of video from stations to cloud is not clear. This can be achieved in two ways: 1. VMS at the stations being capable of archiving video data to a cloud storage. 2. A VMS instance installed on Cloud which integration with the local VMS instances for aggregated viewing and recording. In each of the above cases, the capabilities required in VMS installed at stations might differ, hence its recommended that the technical architecture is elaborated in greater detail since its ambiguous right now. The RDSO technical specs also do not touch up on this since its a functional requirement.	Bidder to quote as per SOR and Solution Architecure defined in the tender document.
393	CHAPTER 4	99	4.A.14.1.3 Eligibility Criteria Requirements for OEM's:	Note v) In the event of Foreign Original Equipment Manufacturer (OEM), Indian Sub-sidiary or it's 100% subsidiary fully authorized for bidding on behalf of OEM is allowed to participate with the experience and financial credential of parent company with specific authorization for doing so from the OEM. The specific authorization addressed to RailTel should be submitted by the bidder.	Please help to clarify, that this clause belongs to the OEM or to the System Integrator at the time of bidding.	Clause is self explanatory.
394	CHAPTER 8	204	TECHNICAL REQUIREMENTS & SPECIFICATIONS	8.4. Storage	Please help to clarify that the technical specificaifcations of this storage is referred to as External Storage Device as per RDSO or it has any different technical specifications	This is External Storage Device as per specification mentioned in clause 8.4 of Chapter-8 of Tender Document.
395	4.A.14.1.3	98	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEM supplying camera, switch and INRS000 crores for OEMs supplying IT hardware (server and stor-age) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	1. Camera and Switch OEM's turnover for the last FY is 10 crores. (Higher turnover will kill the competition and low turnover will give a chance to small OEM to become the part of this prestigious project)	As per Tender.
396	8.8	206	31	Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL or equivalent (Safety product testing has been tested by UL and many more labs)	As per Tender.
397	8.9	207	13	Should have AC power supply arrangement as given below in chassis without any external adaptors with internal redundant power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz.	Should have AC power supply arrangement as given below in chassis without any external adaptors with internal power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz. (With the asked specifications, redundant power supply will increase the cost of the switch)	As per Tender.
398	8.9	208	28	Switch should have SAFETY CERTIFICATE of UL	Switch should have SAFETY CERTIFICATE of UL or equivalent (Safety product testing has been tested by UL and many more labs)	As per Tender.
399	8.10	209	14	Should have AC power supply arrangement as given below in chassis without any external adaptors with internal redundant power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz.	Should have AC power supply arrangement as given below in chassis without any external adaptors with internal power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz. (With the asked specifications, redundant power supply will increase the cost of the switch)	As per Tender.
400	8.10	200	29	Switch should have SAFETY CERTIFICATE of UL. Switches should be EAL2/NDPP cerified from common criteria.	Switch should have SAFETY CERTIFICATE of UL or equivalent (Safety product testing has been tested by UL and many more labs)	Please refer to point no. 15 of Corrigendum-VI.
401	8.12	212	6	Should support DDMI/DOM feature. Option should be available for SFP+/XFP	Should support DDMI/DOM feature. Option should be available for SFP (As asked SFP module of of 1G so SFP is the right word in place of SFP+/XFP)	As per Tender.
402	8.18	217	12	PF - >=0.99	Shall be deleted as the same is reflecting at point no: 5	As per Tender.
403	8.18	217	20	-	"Programable output points" shall be added. It is good for back up optimization. "Rectifier shall be capable to charge Lithium- Ion batteries" shall be added.	As per Tender.
404	8.18	217	25A,B,C	Machnical Parameters - EMI Safety - EN Performance - IEC/EN	shall be modified to: Machnical Parameters , Safety, Performance - IEC 62040	As per Tender.
405	8.19	218	11	PF - >=0.99	Shall be deleted as the same is reflecting at point no: 5	As per Tender.

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406	8.19	218	19	-	"Programable output points" shall be added. It is good for back up optimization. "Rectifier shall be capable to charge Lithium-Ion batteries" shall be added.	As per Tender.
407	8.19	218	24A,B,C	Machnical Parameters - EMI Safety - EN Performance - IEC/EN	shall be modified to: Parameters , Safety, Performance - IEC 62040	As per Tender.
408	8.26	224	B For UPS	UPS monitoring to be done through the monitoring software provided by the manufacturer.	Please confirm whether you need centralize monitoring of all UPS Systems at one location including local monitoring at perticular station.	Bidder to quote as per SOR and Solution Architecure defined in the tender document.
409	4.A.4	80	Delivery/Implementation timelines	Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/Lol	Please change the clause as Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 180 days from the date of issue of LoA/Lol	As per Tender.
410	4.A.14.1	93-94	3	Financial Capability The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender. For Package-I: Northern Re- gion: Rs. 134.53 Crores For Package-II: Western Re- gion: Rs. 98.55 Crores For Package-III: Eastern Re- gion: Rs. 115.02 Crores For Package-IV: Southern Re- gion: Rs. 153.88 Crores Note:- In case of Consortium/JV, each member's relevant turnover shall be considered against the above mentioned financial capability criteria.	Please change the clause as Financial Capability The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender. For Package-I: Northern Re- gion: Rs. 134.53 Crores For Package-II: Western Re- gion: Rs. 98.55 Crores For Package-III: Eastern Re- gion: Rs. 115.02 Crores For Package-IV: Southern Re- gion: Rs. 153.88 Crores Note:- In case of Consortia/JV, relevant turnover of only the Lead Bidder shall be considered for evaluation purpose.	As per Tender.
411	4.A.14.1	94-95	5	Experience in Video surveillance (Technical capability) The bidder should have com- pleted I. Package I : Northern At least one similar work# worth of INR 31.39 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 22.99 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 26.84 crores in last three financial years plus current year upto the date of opening of tender. V. Package IV : Southern At least one similar work# worth of INR 35.91 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consortium/JV, only Lead bidder expe- rience shall be considered against the above mentioned criteria of similar work experience	Please change the clause as Experience in Video surveillance (Technical capability) The bidder should have com- pleted I. Package I : Northern At least one similar work# worth of INR 31.39 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 22.99 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 26.84 crores in last three financial years plus current year upto the date of opening of tender. V. Package IV : Southern At least one similar work# worth of INR 35.91 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consortium/JV, any member or OEM experience shall be considered against the above mentioned criteria of similar work experience	As per Tender.
412	4.A.22	101	4.A.22.1	The bidder shall furnish a sum as given in Bid Data Sheet (BDS) Chapter 5 as Earnest Money in the form of Demand Draft from any scheduled bank in India in favour of "RailTel Corporation of India Limited" payable at New Delhi which should remain valid for 45 days beyond the bid opening date	Request to also accept EMD in the form of BG	As per Tender.
413	Annexure – III CONSORTIUM BIDS	193	1.2	The Lead bidder should have experience of execution of turnkey similar pro- jects/Works (Definition of similar work is as per the clause 4.A.14 of Chapter 4)	Request to accept experience of execution of turnkey similar projects /Works from any Consortium member or OEM Experience	As per Tender.
414	Annexure – III CONSORTIUM BIDS	194	1.9	An individual bidder or a member of Consortium cannot be a member of another Consortium or a JV partner and participate in this tender.	Request to change the clause as Any firm which is not a Lead Bidder to this RFP can be a partner in any number of bids submitted against this RFP In order to get the more participant and competitive proposal please add the above clause	As per Tender.
415	3.A.1.11 FINAL COMMISSIONING	53	3.A.1.11 FINAL COMMISSIONING	The VSS shall be considered to be commissioned only after successful completion of the SAT, Trial Run, successful completion of 12 months of Maintenance Super-vision after issue of PAC and after issue of Final Acceptance Certificate (FAC).	The VSS shall be considered to be commissioned only after successful completion of the SAT, Trial Run, successful completion of 3 months of Maintenance Supervision after issue of PAC and after issue of Final Acceptance Certificate (FAC) after three months of issuance of PAC and Maintenance Supervision.	As per Tender.
416	4.A.5. Payment Terms	83	4.A.5.1.3	15% payment of the value of items of Schedule – A shall be made by RailTelon installation & commissioning of stations/sites including at the concerned RPF Thana/Chowki of the cluster, 5% payment on issue of Provisional Acceptance Cer-tificate (PAC) and the last 5% payment shall be made by RailTel/REIL on issue of Final Acceptance Certificate (FAC) which will be issued by respective Executive Director of the concerned region. In case of foreign currency, payment will be paid through TT/Wire Transfer (SWIFT) from Corporate Office.	It is requested that the balance 5% payment to be released within three months of PAC.	As per Tender.
417	4.A.5. Payment Terms	83	4.A.5.1.3	(15% + 5%) payment of value % of items of Schedule – A which could not be installed for want of site readiness or as per the decision of Executive Direc-tor/Regional General Manager of the region, will be made on issue of PAC of the last RPF Thana/Chowki and remaining 5% on issue of FAC .	% of items of Schedule – A which could not be installed for want of site readiness or as per the decision of Executive Direc-tor/Regional General Manager of the region for which payment is made on issue of PAC of the last RPF Thana/Chowki, the remaining 5% payment to be released after three months even though if the FAC could not be done due to the same issues related to that sites.	As per Tender.
418	4.A.5. Payment Terms	84	4.A.5.1.3	For spares 15% + 5% will be made after issue of PAC of the first RPF Thana/Chowki of the Region and remaining 5% on issue of FAC of the same.	It is requested that the balance 5% payment to be released within three months of PAC.	As per Tender.
419	4.A.5.2 Payment of Services Items (Schedule – B)	84	4.A.5.2.1	90% payment of Schedule – B items (except those mentioned in paras below) shall be made by respective Executive Director of the Region on successful In-stallation, Testing and Commissioning of the stations/sites including at the con-cerned RPF Thana/Chowki of the cluster , 5% on issue of PAC and final 5% on issue of Final Acceptance Certificate.	It is requested that the balance 5% payment to be released within three months of PAC. FAC to be issued within three months of PAC and final 5% payment to be released.	As per Tender.

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420	4.A.8 Service Level Agreement (SLA) and Penalties	87	4.A.8.6 4.A.8.7 4.A.8.8	General clauses of downtime for 12 hours per day	90 days period to be provided after the PAC to finetune the system for achieving the desired level of performance. This period could also be used for determining the realistic level of SLA performance parameters. consultant.	As per Tender.
421	4.A.8 Service Level Agreement (SLA) and Penalties	87	4.A.8.10	No payment for the month would be made for the station where the station down time observed would be more than 20%	The maximum penalty for the month to be kept at maximum 10% of the monthly payment.	As per Tender.
422	4.A.14.1.1 Bidding for more than one packages	96	1. Case-I Single Work Experience of Rs. 40 Crore is submitted 2. Case-II Single Work Experience of Rs. 60 Crore is submitted 3. Case-III Two Work Experiences of Rs. 60 Crore and Rs. 30 Crores are submitted	All the three tables of examples of showing technical capability qualification status of various packages against separate and cumulative experience:	Please clarify whether a single work experience of Rs. 200 Crores will be accepted as technical capability qualification status for all the packages.	Clause is self explanatory.
423	4.A.29 Settlement of Disputes	105	4.A.29 Settlement of Disputes	Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.	Arbitrator shall be appointed jointly by Chairman & Managing Director, RailTel Corporation of India Limited and the bidder.	Please refer to point no. 12 of Corrigendum-VI.
424	CHAPTER- 5 BID DATA SHEET (BDS)	121	Clause 4.A.36	Last Date of Submission of Offer (Online) Date: 15-12-2017 Time: 15:00 hours Venue: same as above	We request to revise last date of submission of officer (Online) with extension of three weeks from the current date of submission. We request to extend bid submission date up to January 07, 2018.	As per Tender.
425	5 Responsibilities of the OEM	153	5 Responsibilities of the OEM	2 OEM agrees to support successful bidder throughout the entire duration of this project, starting with bid preparation process up until project implementation and maintenance of the same. The project duration comprises of 90 days of implementation, 12 months of maintenance supervision period, 2 years for warranty and 5 years for AMC starting from date of issuance of LoA.	We request to revise project implementation timeline up to 210 days for all four regions.	As per Tender.
426	5 Responsibilities of the OEM	153	5 Responsibilities of the OEM	5 In case the contract agreement between successful bidder and the OEM is terminated (for whatsoever reason), the OEM shall identify and suggest a suitable replacement in agreement with RailTel. However the OEM shall continue to support RailTel for this project and the compliances provided will remain valid for the entire duration of the project.	In case of contract agreement between successful bidder and the OEM is terminated (for whatsoever reason), bidder should also allowed to identify and suggest a suitable replacement of OEM in agreement with RailTel. Bidder shall continue to support RailTel for this Project and compliance provided will remain valid for the entire duration of the Project.	As per Tender.
427	4.A.	77	4.A.2.1	The warranty would be valid for a period as indicated in Bid Data Sheet (BDS) Chapter 5. The supplier shall warrant that stores to be supplied shall be new and free from all defects and faults in material, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards of materials of the type ordered and shall perform in full conformity with the specifications and drawings. The supplier shall be responsible for any defects that may develop under the conditions provided by the contract and under proper use, arising from faulty materials, design or workmanship such as corrosion, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in design and/ or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the stores are faulty.	The clause uses the term "stores" instead of "goods".	As per Tender.
428	4.A.	77	4.A.2.3	Replacement under warranty clause shall be made by the contractor free of all charges at site including freight, insurance and other incidental charges.	The clause appears to be wide. The replacement to be made by the Contractor should be made only if the defect in the goods are attributable to the Contractor.	As per Tender.
429	4.A.	100	4.A.16.1	The bidder shall give unqualified and unconditional guarantee that when the equipment / material supplied by him is installed and commissioned at site, it shall achieve the desired objective and that in the event of performance of the system when installed not complying with the end objective or with the specifications, he shall provide further inputs to enable the RailTel to realize the end objectives with full compliance of the specifications contained in these documents. No additional payment will be made to the contractor for supply of any additional goods and service required in this regard.	The Contractor should be entitled to additional payments in the event goods supplied and the services provided exceeds the requirements mentioned in the tender document.	As per Tender.
430	4.A.	101	4.A.19	The purchaser shall be at liberty to enhance or reduce the quantity mentioned in the LOA as indicated in Bid Data Sheet (BDS) Chapter 5 without assigning any reasons. The bidder shall comply with such modifications unconditionally provided these are made before completion of the deliveries under the purchase order/LOA. Any such change in quantity shall have no impact on the rates mentioned in the purchase order/LOA for any such item.	In the event the quantity is enhanced by the Purchaser and the same exceeds the requirement mentioned in the Bid Data Sheet, the Bidder shall be entitled to charge for such additional quantities.	As per Tender.
431	4.A.	105	4.A.29	In case of any dispute concerning this order both the bidder and RailTel/REL shall try to settle the same amicably through mutual discussion/negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.	The arbitration shall be settled in terms of the Arbitration and Conciliation Act, 1996 by a sole arbitrator appointed mutually by the parties.	Please refer to point no. 12 of Corrigendum-VI.

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432	4.A.	105	4.A.30.1	Indemnity by Contractors – The Contract shall indemnify and save harmless the RailTel from and against all actions, suit proceedings, losses, costs, damages, charges, claims, and demands of every nature and description brought or recovered against the RailTel by reason of any act or omission of the Contractor, his agents or employees, in the execution of the works or in his guarding of the same. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.	In any event, the total damages/any other liability of the Contractor shall not exceed 10% of the total consideration paid to the Contractor under this Contract.	As per Tender.
433	4.A.	105	4.A.32	If the contractor fails to deliver the equipment or honour the contractual commitment within the period fixed for such delivery in the contract, the Purchaser may terminate the LOA/ contract in whole or in part, the Purchaser may proceed to purchase, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered at no risk and cost to contractor. However, the security deposit of bidder shall be forfeited/ Performance Bank Guarantee shall be encashed. The failed bidder shall not be permitted to take part in the tender for balance work. The Maximum Liability of bidder to any Loss/Damages to RailTel including Li-quidity Damages and Performance Guarantee shall be limited to 100% of Value of contract.	The Purchaser shall not take any action as stipulated under this clause in the event the delay and/or breach is caused due to reasons attributable to the purchaser.	As per Tender.
434	CHAPTER-1	7	1	I/We offer to supply various equipment at the rates quoted in the attached schedules and hereby bind my-self/ourselves to complete the work within 90 days from the date of issue of Purchase Order/LOA.	As the tender involves supply of various items including delivery to multiple remote locations also the bidder has to do Prefactory acceptance test, Pre-Commissioning and Site Acceptance test before commissioning, this is practically impossible to deliver all the activities within 90 days. Therefore we request you to allow following delivery schedule to complete the entire activity which shall encourage participation of bidders without any overloading of bid: Proposed Delivery Schedule for each package: 1. Survey , Preliminary Design and Approvals: T+ 90 days 2. Delivery of all items to designated warehouse : T + 240 days 3. Installation and Configuration : T + 360 days 4. Provisional acceptance Test , Pre-Commissioning and Site Acceptance Test: T + 420 days 5. Trail Run and Go- Live: T+ 480 days " T is the date of signing of Contract Agreement "	As per Tender.
435	CHAPTER- 2	42	v	Bidder should submit the soft copy (Word/Excel/PDFs format) of offer in DVDs/USB's. Bill of Material (BOM) must be in PDF as well as Excel format.	Since RailTel invites E-tenders, we request for the soft copy offer (scan copy offer) shall be submitted ONLINE. Also we request for Bill of material (BOM) shall be in PDF only and submitted ONLINE. Kindly Confirm. No hard copy is required to be submitted apart from mentioned in 4.B.8 Offline Submission.	As per Tender.
436	CHAPTER- 2	42	IV	Since, RailTel is also implementing Wi-Fi work at railway stations, therefore, the existing available infrastructure may be utilized by the purchaser for implementation of VSS system and such items used may not be considered as a part of Supply orders.	Please provide the details of existing infrastructure viz. 1. Availability of Power Supply from existing UPS/DCPS 2. Junction box, cabling along with protection 3. PoE switch port availability 4. Make,model, interface available with existing system 5. Nos. of sites where existing system are available and can be used	Details shall be shared with the successful bidder post award of the work.
437	CHAPTER-4	80	4.A.4	Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/LoI. Bidders need to share their detailed project plan mentioning the days/month wise progress to meet the timelines of the work. Spares against SOR item no. 24 shall be supplied after completion of the scope of the work.	As the tender involves supply of various items including delivery to multiple remote locations also the bidder has to do Prefactory acceptance test, Pre-Commissioning and Site Acceptance test before commissioning, this is practically impossible to deliver all the activities within 90 days. Therefore we request you to allow following delivery schedule to complete the entire activity which shall encourage participation of bidders without any overloading of bid: Proposed Delivery Schedule for each package:1. Survey , Preliminary Design and Approvals: T+ 90 days 2. Delivery of all items to designated warehouse : T + 240 days 3. Installation and Configuration : T + 360 days 4. Provisional acceptance Test , Pre-Commissioning and Site Acceptance Test: T + 420 days 5. Trail Run and Go- Live: T+ 480 days " T is the date of signing of Contract Agreement "	As per Tender.

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438	CHAPTER- 2	42	V	Bidder is allowed to quote only for a single Make/Model of the quoted items along with the offer. Offers without particulars of Make/Model or multiple OEMs of same item shall be liable to summarily rejected.	Since as System Integrator, We are responsible to meet the technical specification and SLA levels for the entire technical Solution, we request you not to insist for single make /model in the contract. Alternatively, you may kindly approve at least three makes and models for each of the equipment to be provided for this project. This will help the SI to offer a very competitive price to the customer by taking aggressive risks on their costs, which will totally benefit the customer. If only one make is insisted the vendor does not support the SI in times and therefore the cost go up considerably. For your Kind information, in almost all of the government contracts there is a list of Compendium of Suppliers approved for each of the item required for the Project. This list is made part of the contract. During execution of the contract, the SI/Contractor shall have to supply materials of makes/OEMs who are mentioned in that list only. This is followed in MPMKVCL/ GoMPRD/ PGCIL/ NTPC/ NPCIL/ DoIT-GoMP/ MPTD. None of the government project were vigilance/RTI is applicable have single make to be provided during bid submission Hence we request you to kindly accept the same.	As per Tender.
439	CHAPTER-3	51	3.A.1.7.1	Railways shall provide AC power supply at station/cabin/panel room/midsection buildings for carrying out the awarded work. The successful bidder will have to pay the nominal charges for the power supply as per the existing Railways Norms.	We understand that Railways will provide construction power supply for execution on chargeable basis. However, Recurring charges of electricity during 8 years (1 Year Supervised Maintenance + 2 Years warranty + 5 Years AMC) support shall be borne by Railways. Kindly confirm.	Clause is self explanatory.
440	CHAPTER-3	51	3.A.1.7.2	Railways shall provide for the space and power supply for the systems installed in the RPF Thana/Chowkis, Control Rooms and other locations at stations.	We understand that Railways will provide site office and warehouse space at Railway Stations for execution on free of cost basis.	Clause is self explanatory.
441	CHAPTER-3	52	3.A.1.7.9	Any land required by the bidder will be made available by Railways, if available, at the lease cost as per the latest norms of Railways.	1. Please confirm that all permission / licenses / local approval and ROW shall be made available to the Contractor by Client. 2. All the charges including lease cost shall be paid over and above the contract price by Railways to bidder including statutory payment to be made to authorities. Bidder shall only be responsible for co-ordination with concerned authorities. Please Confirm. 3. Delay on account of getting such permission shall be considered for time extension. Please confirm. 4. Also, the payment to the bidders shall be made over and above contractor price if there is delay on account of client for unforeseen reasons and bidders has to consider for extended stay.	Clause is self explanatory.
442	CHAPTER 4	80	4.A.3.3	Separate agreement for AMC after warranty period shall be entered with OEM or Bidder specifically authorized by OEM by RailTel. A fresh Bank Guarantee for a value of 10% of the value of the AMC contract's 5 years value valid for a period of 64 months (4 months beyond the AMC period of 5 years) from the date of issue of LOA shall be required to be submitted by Bidder/OEM for due fulfillment of long term maintenance support obligation	We request to allow bidders to provide a fresh Bank Guarantee for a value of 10% of the value of the AMC contract's 5 years value valid for a period of 64 Months (4 months beyond the AMC period of 5 years) and the same shall be reduced yearly after payment has been made for that year till 5th Year. Please confirm.	As per Tender.

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443	CHAPTER 4	83,84	4.A.5.1.1	<p>4.A.5. Payment Terms</p> <p>4.A.5.1 Payment Terms for items supplied under Schedule - A</p> <p>4.A.5.1.1 Payments will made on the basis of stations covered under a RPF Thana/Chowki for the material supplied against Schedule – A in stages for various items supplied.75% payment of the items would be made on receipt of material by the consignee duly inspected and on submission</p> <p>.....</p> <p>4.A.5.1.2 In case payment is to be made in foreign currency, 75% of the CIF val-ue of imported equipment/materials would be paid through irrevocable Letter of Credit (LC) on submission</p> <p>4.A.5.1.3 15% payment of the value of items of Schedule – A shall be made by RailTelon installation & commissioning of stations/sites including at the concerned RPF Thana/Chowki of the cluster, 5% payment on issue of Provisional Acceptance Cer-tificate (PAC) and the last 5% payment shall be made by RailTel/REL on issue of Final Acceptance Certificate (FAC) which will be issued by respective Executive Director of the concerned region. In case of foreign currency, payment will be paid through TT/Wire Transfer (SWIFT) from Corporate Office.</p> <p>(15% + 5%) payment of value % of items of Schedule – A which could not be installed for want of site readiness or as per the decision of Executive Direc-tor/Regional General Manager of the region, will be made on issue of PAC of the last RPF Thana/Chowki and remaining 5% on issue of FAC .</p> <p>For spares 15% + 5% will be made after issue of PAC of the first RPF Thana/Chowki of the Region and remaining 5% on issue of FAC of the same.</p>	<p>We request for the following Payment terms for items supplied as below:</p> <p>10% of payment as mobilization advance against equivalent Bank Guarantee. (This BG will be valid for 18 Months).</p> <p>75% payment of the items would be made on receipt of material</p> <p>5% payment of on installation & commissioning of station/site</p> <p>5% payment on issue of Provisional Acceptance Certificate (PAC)</p> <p>5% payment on issue of Final Acceptance Certificate (FAC) or against submission of Bank Guarantee of equivalent value valid till 30 days beyond FAC</p>	As per Tender.
444	CHAPTER-4	99	4.A.15.1	Foreign exchange and/or import license if required, will be released/ provided to the contractor in connection with this contract. Part of Schedule (for imported items) can be quoted in any of the major foreign currencies viz USD, British Pound, EURO or Japanese YEN etc. In such a case, bidder should clearly specify the components of Foreign exchange and Indian currency for each item.	Please confirm whether payment shall be made on quoted currency (USD, British Pound, EURO or Japanese YEN etc.) or in INR for Indian Bidder.	No payment to Indian Bidder in Foreign currency.
445	CHAPTER-2 & 4	99	4.A.15.1	Foreign exchange and/or import license if required, will be released/ provided to the contractor in connection with this contract. Part of Schedule (for imported items) can be quoted in any of the major foreign currencies viz USD, British Pound, EURO or Japanese YEN etc. In such a case, bidder	1. As per clause 4.A.15.1, we can quote prices in USD, British Pound, EURO or Japanese YEN but Price Schedule Format (CHAPTER-2) is given in INR (Rs.) only.	No Indian company is permitted to submit their bid in Foreign currency. Please refer clause 4.A.15.3.
446	CHAPTER-4	113	4.B.9	Eligibility criteria related documents as applicable shall also be scanned and	Since RailTel invites E-tenders, we request for Eligibility criteria related documents as applicable shall only be scanned and submitted ONLINE. Hard copy will not be submitted. Kindly confirm. No hard copy is required to be submitted apart from mentioned in 4.B.8 Offline Submission.	As per Tender.
447	CHAPTER 5	120	4.A.19	Purchaser's Right to Vary Quantities - up to a maximum extent of +/- 30% of contract quantity.	<p>1. Please confirm that the variation of scope of work under this clause shall be limited to ± 10% only, beyond which the quoted price shall be subject to variation.</p> <p>2. Also please confirm that such variation shall be communicated within 30 days from the date of award of contract.</p>	As per Tender.
448	General			BILL of QUANTITY	As supply to be done for respective States, Billing schedule shall be issued State-wise for better clarity on taxes. Please confirm.	As per Tender.
449	CHAPTER 4	85	4.A.7	Bidder shall issue valid tax invoice to RailTel for availing proper credit of CGST/SGST/IGST/UTGST incase of award of Contract. GST will not be reimbursed in the absence of valid tax invoice.	In case GST credit is not available to Railtel on account of delay in payment beyond 180 days from the date of invoice as per Section 16 of CGST Act /similar provisions of State Act or for any other reason attributable to client, GST paid shall have to be reimbursed to the contractor. Please Confirm.	As per Tender.
450	CHAPTER 4	85	4.A.7.1	Tenderer shall quote all inclusive rates, but there shall be break up of basic price and all type of applicable taxes such as SGST/CGST/IGST/UT GST along with respective HSN/SAC Code under GST Law (Including tax under reverse charges payable by the recipient).	It is mentioned in the tender that HSN / SAC is to be indicated in the bid. However it shall be noted that same may change during execution of the project. Kindly confirm.	As per Tender.
451	CHAPTER- 2	8-41		SCHEDULE OF REQUIREMENT	In schedule of requirement for certain items bifurcation of supply and installation is available whereas for certain activities the value is to be mentioned for SITC. Kindly modify to provide separate value for supply and installation.	Bidder to quote as per SOR.

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452	CHAPTER 4	77	4.A.2.1	The supplier shall be responsible for any defects that may develop under the conditions provided by the contract and under proper use, arising from faulty materials, design or workmanship such as corrosion, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in design and/ or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the stores are faulty.	We proposed modification as follow:	As per Tender.
453					The supplier shall be solely be responsible for any defects that may develop due to supplier's fault under the conditions provided by the contract and under proper use, arising from faulty materials, design or workmanship such as corrosion, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in design and/ or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the stores are faulty.	
454	CHAPTER 4	92	4.A.11.	The timely delivery is the essence of this tender. Liquidated damages will be applicable at the rate of half percent per week or part thereof for undelivered portion of SOR subject to a maximum of 10% of the cost of Purchase order/LOA for any rea-son whatsoever attributed to failure of bidder. RailTel will have the right to cancel the order, place order on alternative source besides levying the liquidated damages as above.	We proposed modification as follow: The timely delivery is the essence of this tender. Liquidated damages will be apply-cable at the rate of half percent per week or part thereof for undelivered portion of SOR subject to a maximum of 10% of the cost of Purchase order/LOA for any material breach solely attributable to the failure of bidder. RailTel will have the right to cancel the order, place order on alternative source besides levying the liquidated damages as above.	As per Tender.
455	CHAPTER 4	105	4.A.32	If the contractor fails to deliver the equipment or honor the contractual commitment within the period fixed for such delivery in the contract, the Purchaser may terminate the LOA/ contract in whole or in part, the Purchaser may proceed to purchase, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered at no risk and cost to contractor. However, the security deposit of bidder shall be forfeited/ Performance Bank Guarantee shall be encashed. The failed bidder shall not be permitted to take part in the tender for balance work. The Maximum Liability of bidder to any Loss/Damages to RailTel including Liquidity Damages and Performance Guarantee shall be limited to 100% of Value of contract.	We proposed modification as follow: If the contractor fails to deliver the equipment or commits material breach of contractual commitment solely due to the gross or wilful negligence within the period fixed for such delivery in the contract, the Purchaser may terminate the LOA/ contract in whole or in part, the Purchaser may proceed to purchase, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered at no risk and cost to contractor. However, the security deposit of bidder shall be forfeited/ Performance Bank Guarantee shall be encashed giving 5 working days prior written intimation. The failed bidder shall not be permitted to take part in the tender for balance work. The Maximum Liability of bidder to any Loss/Damages to RailTel including Liquidity Damages and Performance Guarantee shall be limited to 100% of Value of contract contract value received by the bidder.	As per Tender.
456	General Conditions:	1,91,192	7.16 b)	The Engineer or Engineer's Representative shall be entitled to take possession of any materials, tools, implements, machinery or buildings on	We proposed modification as follow:	As per Tender.
457	General Conditions:	192	7.17	The arbitral tribunal shall consist of the sole Arbitrator if the value of claim is upto Rs. 10 lakhs. The arbitrator will be appointed by the Managing Director of RailTel Corporation of India Ltd. If the value of claim or amount under dispute is more than Rs. 10 lakhs, the matter shall be referred to the adjudication of arbitral council. Man-aging Director/RailTel shall furnish a panel of three names to the contractor, out of which the contractor will recommend one name to be his nominee and then Managing Director/RailTel shall appoint out the panel, one name as RailTel's nominee and these two arbitrators with mutual consent appoint a third arbitrator who shall act as deciding. The award of sole arbitrator or Arbitral council, as the case may be, shall be final and binding on both the parties, i.e. contractor and RailTel Corporation of India Ltd.	We proposed modification as follow: The arbitral tribunal shall consist of the sole Arbitrator if the value of claim is up to Rs. 10 lakhs. The arbitrator will be mutually appointed by the Managing Director of RailTel Corporation of India Ltd and the bidder. If the value of claim or amount under dispute is more than Rs. 10 lakhs, the matter shall be referred to arbitral tribunal consisting of three arbitrators with each Party nominating its arbitrator and both the arbitrators appointing the third and presiding arbitrator.	Please refer to point no. 12 of Corrigendum-VI.

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458	CHAPTER 8	204	Note 3	All the IP cameras as quoted by the bidder against Item no A.1.(a) to A.1.(d) of Chapter-2 must be sourced from the same OEM	Request you to kindly amend the clause as "All the IP cameras as quoted by the bidder against Item no A.1.(a) to A.1.(d) of Chapter-2 would be sourced from multiple OEM's" considering the challenging implementation schedule and competitiveness of the bid .	As per Tender.
459	CHAPTER 4	104	4.A.28.1.	If during the Agreement, the performance in whole or in part, by either party, of any obligation under this is prevented or delayed, by reason beyond the control of the parties including war, hostility, acts of the public enemy, civic commotion, sabotage, Act of State or direction from Statutory Authority, explosion, epidemic, quarantine restriction, strikes and lockouts (as are not limited to the establishments and facilities of the parties), fire, floods, earthquakes, natural calamities or any act of GOD (hereinafter referred to as EVENTS), provided notice of happenings of any such EVENT is given by the affected party to the other, within twenty one (21) days from date of occurrence thereof, neither party shall have any such claims for dam-ages against the other, in respect of such non-performance or delay in performance. Provided service under this Agreement shall be resumed as soon as practicable, after such EVENT comes to an end or ceases to exist	The Contract does not provide for extension of time or any claim to be raised for consequences faced during Force majeure event. This is also applicable during Annual Maintenance period as under the AMC. Request to please include the same.	As per Tender.
460	CHAPTER 4	105	4.A.29	In case of any dispute concerning this order both the bidder and RailTel/REL shall try to settle the same amicably through mutual discussion/negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.	Kindly amend this clause as below: "The appointment of arbitrator is done by Chairman & MD of RailTel- such unilateral appointment of arbitrator is not permissible under the Arbitration & Conciliation Act as well as this act is also unjust. Request to please suggest appointment of arbitrator as under the Act- having 3 arbitrators, each appointing one OR both parties reaching a consensus and appointing a sole arbitrator.	Please refer to point no. 12 of Corrigendum-VI.
461	CHAPTER 6	122	4	PROFORMA FOR PERFORMANCE BANK GUARANTEE BOND 4." it shall continue to be enforceable till all the dues of the RailTel under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this Guarantee. "	The Performance BG in effect may prove to be open-ended. Therefore, we kindly request to restrict the discharge of the PBG to within 4 months beyond the date of expiry of warranty period as under Cl. 4.A.6. Please Confirm.	As per Tender.
462	Form	150	Form No.20:	Parent Company Guarantee	We understand that the Parent Company guarantee is only applicable if bidding entity is foreign entities. Please confirm.	As per Tender.
463	CHAPTER 7	189	7.13.2	The Contractor shall comply with the provisions of the payment of Wages Act, 1936 and the rules made there under in respect of all employees directly or through petty contractors or sub-contractors employed by him in the works. If in compliance with the terms of the contract, the contractor directly or through petty contractors or sub-contractors shall supply any labour to be used wholly or partly under the direct orders and control of the Engineer whether in connection with the works to be executed hereunder or otherwise for the purpose of the Engineer such labour shall nevertheless be deemed to comprise persons employed by the contractor, and any moneys which may be ordered to be paid by the Engineers shall be deemed to be moneys payable by the Engineer on moneys due to the contractor in terms of the contractor (whether un-der this contract or any other contract all moneys paid or payable by the RailTel by way of compensation of aforesaid or for costs of expenses in connection with any claim thereto and the decision of the Engineer upon any question arising out of the effect or force of this clause shall be final and binding upon the contractor.	The compliance of labor laws under the AMC- "claims arising out of this contract or any other contract"- is kept very open. Please restrict it to this contract only.	As per Tender.
464	General				Tender does not provide for Employer's default and pursuant compensation / Extension of time for the same. Kindly clarify	As per Tender.
465	CHAPTER 2	11	SN.26	Spares @ 8% of supply against item 1(a) to 1(d) and 5 to 9 above	Kindly confirm the spare percentage for rest of the items as well.	As per Tender.

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466	General			Additional proposed clause to payment terms : Assignment Clause	Request you to put additional Clause which shall enable the bidders early realization of payment: The employer hereby consents / permits the Contractor to assign the certified receivables to banks/Financial Institution/NBFC's etc. for discounting or factoring as the case may be for early realization of its payment. The details of arrangement of discounting and factoring will be a bilateral one between the Contractor and the discounting/factoring agency."	As per Tender.
467	Chapter 3	49	3.A.1.3	The project envisages to provide high level security vigilance and improve the ensuing action in case of an alert by adding state of art functions like motion detection, quick review and intrusion de-tection.	Please elaborate on the intrusion detection, motion detection and quick review functionalities. Also clarify, if the bidder has to consider these functionalities under the device (camera) edge analytics or under the central video analytics software.	Video Analytic and Face Recognition system are not covered under scope of this tender.
468	Chapter 3	50	3.A.1.4.2	The bidder should prepare a site plan showing exact location of different type of cameras, switches etc. at various locations like parking areas, entrance/exit points, platforms, yards, waiting halls, ticket counters, offices, foot over bridges, circulating areas etc. as per site requirement in consultation with RailTel after the proper site survey. The proposed site plan should have an optimum number of cameras so as to cover Railway Station from security point of view	As per industrial practice, Site plan will be provided by the successful bidder after award of contract , hence we request you to allow us to give the plan after award of contract , since the time is short doing site survey at all stations will be difficult.	Clause is self explanatory.
469	Chapter 3	62	3.B.4.4	Each station will have setup for video management & recording of cameras provisioned on the station. The video feed from the cameras shall be stored for 7 days at Station/RPF/GRP Thana/Chowki.	Please confirm whether the location RPF/ GRP Thane/ Chowki shall be within the station area which shall be used to store the video feed. Also please provide typical distance of these location from station platform.	Please refer to point no. 2 & 4 of Corrigendum-VI.
470	Chapter 2	8	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS, and all other required accessories	Please specify the backup time for UPS, so as to consider sufficient battery capacity.	Pleae refer reply at SN-1.
471	Chapter 2	17	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS, and all other required accessories	Please specify the backup time for UPS, so as to consider sufficient battery capacity.	Pleae refer reply at SN-1.
472	Chapter 2	25	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS, and all other required accessories	Please specify the backup time for UPS, so as to consider sufficient battery capacity.	Pleae refer reply at SN-1.
473	Chapter 2	34	3	Supply of PC Workstation as de-fined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" 4K UHD LED monitor, all required licensed software, spike buster 500VA UPS, and all other required accessories	Please specify the backup time for UPS, so as to consider sufficient battery capacity.	Pleae refer reply at SN-1.
474	Chapter 8	220	8.23.B.iv.	Specifications of Patch Cords: The length and type of connector of each Patch Cord: As per SOR.	Patch cords length w.r.t connector types are not mentioned in the SOR. Please specify.	Bidder to quote as per SOR and Solution requirement.
475	Chapter 2	10	20	Supply of 12 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.23 of chapter 8 and all accessories (patch panel, patch chord, pigtails etc.) required for installation	Please specify the length of the Patch Cords.	Bidder to quote as per SOR and Solution requirement.
476	Chapter 3	10	21	Supply of 24 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.23 of chapter 8 and all accessories (patch panel, patch chord, pigtails etc.) required for installation	Please specify the length of the Patch Cords.	Bidder to quote as per SOR and Solution requirement.
477	Chapter 8	221	8.24.	Cable manager: 1 no. horizontal and 1 no. vertical cable manager with cable loops to be provided with each rack.	Vertical Cable Manager is not applicable for wall mounted racks. Please confirm this requirement.	As per Tender.
478	Chapter 8	209	8.10. Type-III	Operating Temperature of the Switch should be min -0 to 50 °C.	As edge servers will be connected to these switches and will be co located. Servers does not support temp upto 50 deg. This is a restrictive clause and will stop bidders to quote cost effective solution.Therefore the clause should be changed to as below: "Operating Temperature of the Switch should be min -0 to 45 °C."	As per Tender.
479	Chapter 8	204	8.3.	Edge Server Hardware at stations : a. For A-1 Category Stations: Cache - 15 MB	Referring to the Latest Series of Intel x-86 Skylake processors, 1.7 Ghz , 6 Core Processor supports Cache up to 8.25 MB. Therefore request to amend this requirement as below: " Edge Server Hardware at stations : a. For A-1 Category Stations: Cache - 8.25MB"	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.

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480	Chapter 8	204	8.3.	Edge Server Hardware at stations : a. For A Category Stations: Cache - 20 MB	Referring to the Latest Series of Intel x-86 Skylake processors, 1.7 Ghz , 8 Core Processor supports Cache up to 11 MB. herefor e request to amend this requirement as below: " Edge Server Hardware at stations : a. For A Category Stations: Cache - 11 MB"	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
481	Chapter 8	204	8.3.	Edge Server Hardware at stations : a. For B & C Category Stations: Cache - 15 MB	Referring to the Latest Series of Intel x-86 Skylake processors, 1.7 Ghz , 6 Core Processor supports Cache up to 8.25 MB. herefor e request to amend this requirement as below: " Edge Server Hardware at stations : a. For B & C Category Stations: Cache - 8.25 MB "	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
482		193	8.3 - Edge Server Hardware at Stations	15MB	Requesting to change 8.25MB	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
483		193	8.3 - Edge Server Hardware at Stations	2	UPI (Ultra Path Interconnect)	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
484		194	8.3 - Edge Server Hardware at Stations	6.4 GT/Sec or higher	Requesting to change 9.6 GT/Sec	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
485		194	8.3 - Edge Server Hardware at Stations	Hot Pluggable HDDs, configured under RAID . At least 4 or more internal Hot Swap Hard Drive Bays. 14TB Usable Storage after RAID 1 or 10 configuration or higher as per station requirement	Please mention whether SAS or SATA/NL SAS & Speed (10K,15K,7.2K)	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
486		194	8.3 - Edge Server Hardware at Stations	19" Rack mountable with sliding rails and fittings to install into a Rack	Please mention whether it is 1U or 2U	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
487		194	8.3 - Edge Server Hardware at Stations	20MB	Requesting to change 11MB	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
488		194	8.3 - Edge Server Hardware at Stations	1	Requesting to change UPI (Ultra Path Interconnect) & it should be 2	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
489		194	8.3 - Edge Server Hardware at Stations	6.4 GT/Sec or higher	Requesting to change 9.6 GT/Sec	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
490		194	8.3 - Edge Server Hardware at Stations	Hot Pluggable HDDs, configured under RAID . At least 4 or more internal Hot Swap Hard Drive Bays. 10 TB Usable Storage after RAID 1 or 10 configuration or higher as per station requirement	Please mention whether SAS or SATA/NL SAS & Speed (10K,15K,7.2K)	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
491		195	8.3 - Edge Server Hardware at Stations	19" Rack mountable with sliding rails and fittings to install into a Rack.	Please mention whether it is 1U or 2U	May pls. refere revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
492		24	iv.	2.4 GHz or higher	Please change to 3.7 GHz or higher	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
493		24	v.	10 MB	Requesting to change 11MB Cache	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
494		25	x.	SAS HDD, 2x450 GB, 10000 RPM or higher	Requesting to change SAS HDD 2*600 GB 10000 RPM	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
495		25	ix.	One no. of dual Port 4 GB NVIDIA Graphic Card or better.	Requesting to add AMD also	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.
496	4.A.14.1 Eligibility Criteria Requirements for Bidders:	93	2	Each offered model of equipment for camera, server, storage, switches, edge device, firewall, UPS and VMS soft-ware should have been working for at least six months in India or abroad	This clause is restricting the OEM to quote latest technology & upgraded Model. Hence we request the committee to kindly delete the clause.	Please refer to point no. 7 of Corrigendum-VI.
497	4.A.14.1.3 Eligibility Criteria Requirements for OEM'	98	1	OEM(s) should have either direct presence in India or through their authorized registered partner in India for last 3 years. They should have Indian Technical Support Centre, Repair and RMA centre in India either directly or through their au-thorized registered partner for last 3 years.	Considering the magnitude of the project we strongly request that OEM's should be directly present In India with its registered office in India for more than 3 years(Not as Joint venture, Partnership firms or any other association). OEM should have self owned repair centre and its own RMA setup in India for the last 3 years. This ensures support capability for the large projects at such extent.	As per Tender.

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498	4.A.14.1.3 Eligibility Criteria Requirements for OEM'	98	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEM supplying camera, switch and INR5000 crores for OEMs supplying IT hardware (server and stor-age) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	We request that the cumulative turnover shall be changed to the average turnover of INR 1000 in last 3 years. This ensures that the participating OEM is efficient to meet the big supply deadlines and can ensure the presence and availability of support and spares for the said 8 Years.	As per Tender.
499	4.A.14.1.3 Eligibility Criteria Requirements for OEM'	98	4	The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. cur-rent year and three previous financial years) from the date of opening of tender	Minimum quantity of cameras should be specified as 500 as it depicts the substantial involvement of OEM in the project. Requesting the committee to kindly incorporate this.	As per Tender.
500	Chapter 6 : Form No.9 Proforma for Manufacturer's Authorization Form	133/134	4 &5	In the Format of MAF the OEM should extend the "Guarantee" for the solution, product & services and maintenance support and spares	The Term guarantee should be removed from the document since 'guarantee' is a contract to perform the promise, or discharge the liability, of a third person in case of his default. Most of the OEM would not be able to extend any Guarantee but can surely honor the warranty and support. We request the committee to remove this term or replace it with either "warranty" or " Ensure"	As per Tender.
501	3.B.1 Architecture Overview	57	3.B.1	This network will work as a platform for implementation of Video Management, Video Recording, Video Analytics and Facial Recognition System etc. on cloud as well.	Request you to kindly confirm on each station how many cameras will require analytics capabilities and FRs along with their bifurcation	Video Analytic and Face Recognition system are not covered under scope of this tender.
502	3.B.1 Architecture Overview	57	3.B.1	This network will work as a platform for implementation of Video Management, Video Recording, Video Analytics and Facial Recognition System etc. on cloud as well.	Video analytics and Facial Recongnition software should be part of this solution and RFP only so that it is compatible with the VMS today itself. Tomorrow the licenses can be moved to cloud as well. It will ensure that the VMS is meeting the requirement today. Also all the features are necessary for efficient monitoring and recognition.	Video Analytic and Face Recognition system are not covered under scope of this tender.
503	CHAPTER-7 Annexure-1	160	NA	As per earlier requirement for 983 stations a total of 36000 CCTV cameras were required which has been revised to 13440 qty of CCTV cameras for 552 stations i.e one-third of the original requirement.	We request the committee to share the calculation or design, basis of which the camera quantities have been decided. Secondly, as per the objective of this tender, each station shall have the robust and secure video surveillance solution to cover all platform and other areas. We believe it may be difficult initially to design a solution to cover maximum monitoring through current reduced number of cameras at time of installation. Hence, we request committee to share and evaluate the CCTV design with us and kindly increase the CCTV cameras accordingly if required.	Bidder to quote as per SOR and Solution Archtecture defined in the tender document.
504	General Query - RDSO	RDSO- Page:11,12,14,15,17 & 20	Regulatory Approvals/Certifications	UL or EN or CE or IEC or IS certification for Safety, CE or FCC Certifications for EMC & Immunity	We strongly request that All Cameras quoted and supplied against this tender requirement must be UL Certified. Since the UL certification ensures that the safety guidelines are followed and it meets the global standard for safety and security. Majority of CCTV OEM follows UL standards for their products. Request to kindly add this clause as a must have certification.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
505	10.1 Server Hardware	21	S.No.XII- Interface Type		S.No.XII- Interface Type : Kindly Clarify – Do you need dedicated port for interface type for connecting external storage device and LAN/Ethernet respectively.	Separate dedicated port.
506	10.1 Server Hardware		S.No. IV) Frequency		S.No. IV) Frequency- Kindly clarify whether whether frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency .	Base Frequency.
507	10.1 Server Hardware		S.No. XIV- RAID Controller		S.No. XIV- RAID Controller : Since RAID Controller is explicitly asked in tender kindly clarify whether Hardware RAID Controller is only acceptable or S/W defined RAID can also be offered.	Hardware Raid Controller is defined in RDSO specs.
508	10.1 Server Hardware				Additional Point – Since Remote Management with KVM over LAN functionality is a basic requirement of Server Systems to allow users have remote access kindly add dedicated IPMI port with KVM over LAN functionality which is missing in tender specifications.	Please refer to point no. 11 of Corrigendum-VI.
509	11.0 PC Workstation	24			S.No. X :- Hard Disk Drive : Since Tender asks for SAS Hard Drives but no information is provided regarding drive bays type kindly clarify whether HOT SWAP drive bays are required.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
510	11.0 PC Workstation	24			S.No. X :- Hard Disk Drive : Kindly clarify how many minimum hard drive bays are required considering any possibility to add additional hard drive in future for augmentation purpose.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
511	11.0 PC Workstation	24			S.No.XI- RAID Controller: Since RAID Controller is explicitly asked in tender kindly clarify whether Hardware RAID Controller is only acceptable or S/W defined RAID can also be offered.	Hardware Raid Controller is defined in RDSO specs.
512	11.0 PC Workstation				S.No. IV- Frequency- Kindly clarify whether whether frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency .	Base Frequency.
513	11.0 PC Workstation				S.No.IX – Graphics Card : Kindly Clarify whether Professional Series Graphics Card only is acceptable or consumer grade graphics card can also be supplied. At one place only Tesla/Quadro series or better graphics cards are mentioned in tender thus we would like to clarify whether this is explicitly applicable to workstations product category as well.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.

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514	11.0 PC Workstation				S.No. X :- Hard Disk Drive : Since 450GB Capacity based SAS 10K RPM Hard Drives are either end of life or with very limited future roadmap which may lead to support related issues at a later stage , thus in order to have unambiguous specifications kindly consider 600GB SAS 10K RPM Hard drives or higher.
515	4.2.10 Edge Device				S.No. III) Frequency- Kindly clarify whether frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency . Can Turbo Frequency be considered to meet the specifications.
516	4.2.10 Edge Device				S.No. IX) Hard Disk Drive – Since the Edge Device is only meant for streaming the data with storage planned only for temporary storage we suggest please consider 2TB as the Hard Drive Capacity instead of 4TB which can be an over kill and lead to unnecessary expense for Govt and will remain unused at all the time.
517	4.2.10 Edge Device				Mounting of the Device- Since edge device asked in tender is a small form factor based portable device thus it is important to specify in tender that it must be mounted on rear side of the display monitor so as to avoid any theft or unwanted use of the device.
518	4.2.10 Edge Device				Form Factor : Since form factor permitted by RAILTEL is not specified , for edge devices or mini PC ideally the form factor is decided by the Volume of the chassis . Kindly Clarify maximum volume of the chassis is 0.7 Litre or 0.75 Litre?
519	D	68	3.D.1	Test Categories	please stipulate the tests required to be performed. Is it basic power on or additional stress tests?
520		98	4.A.14.1.3	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEMs supplying camera, switch & accessories and INR5000 crores for OEMs supplying IT hardware (server) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	Dell EMC is privately owned, we are unable to share any financial statements
521		101	4.A.19	The purchaser shall be at liberty to enhance or reduce the quantity mentioned in the LOA as indicated in Bid Data Sheet (BDS) Chapter 5 without assigning any rea-sons. The bidder shall comply with such modifications unconditionally provided these are made before completion of the deliveries under the purchase order/LOA. Any such change in quantity shall have no impact on the rates mentioned in the purchase order/LOA for any such item.	This would be unfair
522	8.8. Type-I Switch:	205	20	Switch should support IEEE 802.3af & IEEE 802.3at on Ethernet ports & Min 120W PoE Power Budget.	Is POE required to be enabled on all 8 ports.
523	8.8. Type-I Switch:	205	21	Switch should support Surge Protection to ± 2 kV (line-earth) and ± 1 kW (line-line) on power input and Surge Protection to ± 2 kV on Ethernet ports or as per EN61000-4-5 standard.	these are special STP enabled switches, most OEM support UTP based switch configuration, and hence request to make this feature optional.
524	8.8. Type-I Switch:	205	26	Operating Temperature of the Switch should be min -0 to 50 °C.	Most reputed OEM in Gartner have standard product supporting following Temperature performance parameters : Operating Temperature - min -0 to 40 °C Hence request to consider the same, to allow more bidders to participate Operation Temperature - min -0 to 40 °C
525	8.8. Type-I Switch:	205	27	Storage Temperature of the Switch should be min -10 to 70 °C.	Most reputed OEM in Gartner have standard product supporting following Temperature performance parameters : Storage Temperature - min -10 to 60 °C..... hence request to consider the same, to allow more bidders to participate
526	8.9. Type-II Switch	207	13	Should have AC power supply arrangement as given below in chassis without any external adaptors with internal redundant power supply:	Are the switches to be offered with internal hotswappable dual Redundant AC PSU
527	8.9. Type-II Switch	207	20	Switch should support EN61000-4-5 standard or as below: i) Surge protection of ± 2 kV (line-earth) and ± 1 kW (line-line) on power in-put And ii) Surge protection of ± 2 kV on Ethernet ports. i) Surge protection of ± 2 kV (line-earth) and ± 1 kW (line-line) on power in-put And ii) Surge protection of ± 2 kV on Ethernet ports.	
528	8.9. Type-II Switch	207	24	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 50 °C II) Storage Temperature - min -10 to 70 °C I) Operating Temperature - min -0 to 50 °C II) Storage Temperature - min -10 to 70 °C	Most reputed OEM in Gartner have standard product supporting following Temperature performance parameters : I) Operating Temperature - min -0 to 40 °C II) Storage Temperature - min -10 to 60 °C..... hence request to consider the same, to allow more bidders to participate I) Operating Temperature - min -0 to 40 °C II) Storage Temperature - min -10 to 60 °C..... hence request to consider the same, to allow more bidders to participate
529	8.12. SFP-BX (10 KM) Single Fiber	212		8.10. SFP-BX (10 KM) Single Fiber	which switches would need the support of these optics.
530	8.6	205	8.6	As per RDSO Specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016 Revision 4.0 or latest with all amendments	RDSO specifications mention graphics card on server. Will a graphics card be needed on the workstation.
531	3.B.6	65	3.B.6.2	The Panic Switches shall be installed at each Platform. The potential free contact of the Panic Switch shall be connected to the Alarm Input of the IP Fixed or PTZ Cam-era installed nearby wherein Panic Switch is in the Field of View of the Camera.	Sir, we strongly believe that Panic Button is an SOS functionality and shall communicate directly with Command centre and relavent enforcement agencies. Hence independent IP connectivity to the Panic button is a must. This will fecilitate to connect to any help centres, enforcement agencies, police etc directly. This is what being asked in all Smart City RFPs. Hence we request you to kindly enhance the features of Panic button for the better protection of people on the Platforms.

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532	Annexure – III/ CONSORTIUM BIDS	193	1.16	All partners of the consortium shall be jointly and severally liable to RailTel for the execution of the entire contract in accordance with its terms.	The Lead bidder shall be jointly and severally responsible for complete scope, whereas consortium partners shall be severally responsible only for its respective scope.	As per Tender.
533	CHAPTER-1/ OFFER LETTER	7	1	I/We offer to supply various equipment at the rates quoted in the attached schedules and hereby bind my-self/ourselves to complete the work within 90 days from the date of issue of Purchase Order/LOA.	I/We offer to supply various equipment at the rates quoted in the attached schedules and hereby bind my-self/ourselves to complete the work within 180 days from the date of issue of Purchase Order/LOA.	As per Tender.
534		43	VII	The Bill of Material will be prepared for Schedule of Requirement against each item of SOR.	Please clarify the format	Clause is self explanatory.
535	Payment Terms	83	4.A.5.1.3	(15% + 5%) payment of value % of items of Schedule – A which could not be installed for want of site readiness or as per the decision of Executive Director/Regional General Manager of the region, will be made on issue of PAC of the last RPF Thana/Chowki and remaining 5% on issue of FAC.	We request for following amendment in the clause: (15% + 5%) payment of value % of items of Schedule – A which could not be installed for want of site readiness or as per the decision of Executive Director/Regional General Manager of the region, will be made on issue of PAC of the last RPF Thana/Chowki and remaining 5% against submission of BG of equivalent amount account for FAC.	As per Tender.
536	MANUFACTURING, SUPPLY AND STORAGE OF EQUIPMENT	51	3.A.1.6 (c)	The bidder shall be responsible for transportation and storage of Equipment and all other items required for Installation and Commissioning of the net-work to RailTel's stores/sites as advised.	We request the Railtel to facilitate/ Railways to provide the desired storage space on FoC basis.	As per Tender.
537	Architecture Overview	57	3.B.1	If there is a requirement to connect more access switches for platform extension, any other locations or any other services aggregation switch will have sufficient ports available. Also there will be sufficient fiber core available to make this connectivity possible from scalability point of view.	We understand that all the locations/ more specific to "Any other Location" shall be within the Railways premises/ land and all the necessary approvals for Right of Way (RoW) shall be provided by Railtel/ Railways. Please confirm our understanding is correct.	Clause is self explanatory.
538	Settlement of Disputes	105	4.A.29	In case of any dispute concerning this order both the bidder and RailTel/REL shall try to settle the same amicably through mutual discussion/negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.	We understand that the 1996 Arbitration and Conciliation clause is exhaustive in nature to address the 'Settlement of Disputes'. So, request to amend the clause as below: In case of any dispute concerning this order both the bidder and RailTel/REL shall try to settle the same amicably through mutual discussion/negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi.	Please refer to point no. 12 of Corrigendum-VI.
539	Agreements	201 & 203	Form B & Form C		We request the agreements should be signed by Authorised Signatory, in whose favour the POA has been issued by the organization.	Authorized signatory with duly defined chain of Power of Attorney as per tender document shall be permitted.
540					S.No. X -> Hard Disk Drive : Since Tender asks for SAS Hard Drives but no information is provided regarding drive bays type kindly clarify whether HOT SWAP drive bays are required	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
541					S.No. X -> Hard Disk Drive : Kindly clarify how many minimum hard drive bays are required considering any possibility to add additional hard drive in future for augmentation purpose.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
542					S.No. X -> Hard Disk Drive : Since 450GB Capacity based SAS 10K RPM Hard Drives are either end of life or with very limited future roadmap which may lead to support related issues at a later stage, thus in order to have unambiguous specifications kindly consider 600GB SAS 10K RPM Hard drives or higher.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
543					S.No.XI- RAID Controller: Since RAID Controller is explicitly asked in tender kindly clarify whether Hardware RAID Controller is only acceptable or S/W defined RAID can also be offered.	Hardware Raid Controller is defined in RDSO specs.
544					S.No. IV) Frequency- Kindly clarify whether frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency.	Base Frequency.
545					S.No.IX – Graphics Card : Kindly Clarify whether Professional Series Graphics Card only is acceptable or consumer grade graphics card can also be supplied. At one place only Tesla/Quadro series or better graphics cards are mentioned in tender thus we would like to clarify whether this is explicitly applicable to workstations product category as well.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.
546					S.No. III) Frequency- Kindly clarify whether frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency. Can Turbo Frequency be considered to meet the specifications.	Base Frequency.
547					S.No. IX) Hard Disk Drive – Since the Edge Device is only meant for streaming the data with storage planned only for temporary storage we suggest please consider 2TB as the Hard Drive Capacity instead of 4TB which can be an over kill and lead to unnecessary expense for Govt and will remain unused at all the time.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.

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548					Mounting of the Device: Since edge device asked in tender is a small form factor based portable device thus it is important to specify in tender that it must be mounted on rear side of the display monitor so as to avoid any theft or unwanted use of the device.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
549					Form Factor : Since form factor permitted by RAILTEL is not specified , for edge devices or mini PC ideally the form factor is decided by the Volume of the chassis . Kindly Clarify maximum volume of the chassis required is 0.7 Litre or 0.75 Litre .	Please refer to point no. 20 of Corrigendum-VI.
550	4.A.14.1		1	The bidder should be Original Equipment Manufacturer (OEM) of Camera (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be manufactured for supply. The OEM should have proven facilities for Engineer-ing, manufacture, assembly, integration and testing of VSS system and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to manufacture for supply for this work. or The bidder should be a Company registered in India under the Companies Act (India) with their registered office in India should have been operating in the System Integration services for the last three years.	The bidder should be Original Equipment Manufacturer (OEM) of Camera (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be manufactured for supply. The OEM should have proven facilities for Engineer-ing, manufacture, assembly, integration and testing of VSS system and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to manufacture for supply for this work. or The bidder should be a Company registered in India under the Companies Act (India) with their registered office in India should have been operating in the System Integration services for the last three years. Note:-In case of Consortium/JV, the Lead bidder should be registered in India for last three years.Other bidders should be registered under the Companies Act(India) before the NIT tender notice date.	As per Tender.
551	4.A.14.1		3	Note:- In case of Consortium/JV, each member's relevant turnover shall be considered against the above mentioned financial capability criteria.	Note:- In case of Consortium/JV, the lead bidder's relevant turnover shall be considered against the above mentioned financial capability criteria.	As per Tender.
552	4.A.14.1		5		Experience in Video surveillance (Technical capability) The bidder should have completed I. Package I : Northern	As per Tender.
553	4.A.14.1		7	The bidder should be a certified ISO 9000/9001 certified company.	The bidder should be a certified ISO 9000/9001 certified company. Note:-if the bidding company or any bidder in case of Consortium/JV is 100% subsidiary of an international or Indian company then parent company's relevant experience for ISO certification can be considered as the bidder's experience.	As per Tender.
554	7	Offer letter	1	Offer Letter: complete the work within 90 daysfrom the date of issue of Purchase Order/LOA.	Please appreciate that the tender requires majority of equipments to be imported , Followed by RDSO / Railtel Inspection , Logistics to stations and subsequent installation . In the light of above we suggest to amend this to Complete supply with in 90 days and implementation with in 180 days from PO / Contract signing	As per Tender.
555	8	3	2	Package I : Schedule A: spike buster 500VA UPS,	Please provide the specifications for spike buster 500VA UPSs	Please refer reply at SN-1.
556	42	Note-1.c	2	It shall be the responsibility of Bidder to transport the equipment to site for the Installation & Commissioning. Charges for the same should be included in SOR Item no. A 1 to A 30. Materials not installed / not to be installed need to be shipped to location as decided by RGM/Executive Director of the Region. SOR items against which Installation is not separately mentioned, installation shall be considered within the scope of supply itself.	We understand that RGM /Executive Director would provide acceptance to Material to be shipped site wise , as estimating re- shifting Cost would be practically not possible at this stage . However any shifting requirement should be paid extra as per mutual agreement	As per Tender.
557	42	Note-IV	2	Since, RailTel is also implementing Wi-Fi work at railway stations, therefore, the existing available infrastructure may be utilized by the purchaser for implementation of VSS system and such items used may not be considered as a part of Supply orders.	We understand that Station wise available infrastructure would be communicated to successful bidder in advance , so that suitable amendments is done at supply stage only . Any support requirement in existing infrastructure for integration of VSS Components would be responsibility of RailTel Support/ O&M of already installed infrastructure and coresponding Down time would not be responsibility of Bidder	Details shall be shared with the successful bidder post award of the work. Bidder to quote as per SOR.
558	42	Note-V	2	Bidder should submit the soft copy (Word/Excel/PDFs format) of offer in DVDs/USB's. Bill of Material (BOM) must be in PDF as well as Excel format (except price bid). Bidder is allowed to quote only for a single Make/Model of the quoted items along with the offer. Offers without particulars of Make/Model or multiple OEMs of same item shall be liable to summarily rejected. The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, edge devices, workstation, storage, large video displays units, VMS Software, switches (Type-I, II, III and IV separately), Firewall and NMS.	We Understand that requirement for single make/ OEM for all categories should not be enforced on Switch . As Switch Type-4 is complied by only few vendors , but Type-1 and 2 are complied by multiple vendor . As this would be restrictive and will avoid competitive advantage to the Tendor .	Please refer to point no. 3 of Corrigendum-VI.
559	45	Annexure A	2	Price Schedule for Indigenous Items	Column 14 includes (4+6+10+13). Column 7 & 8 are missing. Please provide	There is a Typographical error in numbering of columns. The same is indicative of Tax breakup to be submitted by the bidder. The bidder is requested to correct the same.
560	46	Annexure B	2	Price Schedule for Imported Items	Column 14 includes (4+6+10+13). Column 7 & 8 are missing. Please provide	As above.

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561	50	3.A.1.4.2	3	SCOPE OF WORK: The bidder should prepare a site plan showing exact location of different type of cameras, switches etc. at various locations like parking area, entrance/exit points, platforms, yards, waiting halls, ticket counters, offices, foot over bridges, circulating areas etc. as per site requirement in consultation with RailTel after the proper site survey. The proposed site plan should have an optimum number of cameras so as to cover Railway Station from security point of view.	For all such surveys RailTel/Railways shall deput their representative to guide bidder for camera location, camera type etc shall sign the survey report. Bidder shall do the equipment delivery at station in reference to signed report to avoid iterations at a later stage.	Clause is self explanatory.
562	50	3.A.1.4.8	3	SCOPE OF WORK: For Remote operation and monitoring of a cluster of stations from RPF Thana/Chowkis through the RailTel/Railways TCP/IP network, bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF Chowki.	Tenderer shall be responsible for ROW required (if any) for execution of last mile connectivity and delays in providing the SOW shall be excluded while calculation of project execution time and bidder shall not be penalized for the same. Also Trenching / Laying of Duct need to be included in SoR	Clause is self explanatory.
563	50	3.A.1.4.9	3	SCOPE OF WORK: RailTel shall provide the interconnection facility at their POP to integrate the station network. However, the bidder is expected to mention the bandwidth requirement at each station in their technical bid proposal	At bidding stage it won't be possible for bidder to work out BW requirement for each station as Camera count would be decided post survey . At this stage bidder shall provide the BW requirement for each type of stations based on camera projection / type of station given in RFP .	Clause is self explanatory.
564	52	3.A.1.10	3	TRAINING OF PURCHASER'S PERSONNEL AND CHANGE MANAGE-MENT For successful implementation and monitoring of the video surveillance solution, the successful bidder will need to identify training needs for Indian Railways/ RailTel. To provide professional training and development services at each stage of the project viz. installation, testing, operation and maintenance The successful bidder shall provide hands on training with detailed course material on the installed equipment and software covering at least the following: - Configuration and their operation of Networking Equipment, Cameras and other equipment etc. supplied under the project. - Introduction to computers, servers, and their configuration and operations - Trouble shooting and preventive maintenance - Training on operation of CCTV system. These personnel shall work with the Bidder technical team staff to gain confidence and to get expertise right from the execution stage of the project. The training content to be designed and delivered by successful bidder at successful bidder's own cost. All equipment used for training shall be identical to those quoted and supplied for site installation in hardware and software versions. Timelines for Training and Development are as follows:	Bidder's responsibility is limited to supply of training manual and trainer required for the training. Railtel/Railways shall be responsible for logistics of their staff	Boarding/Lodging of the trainees is not under bidder scope.
565	54	3.A.1.12	3	GENERAL SYSTEM GUIDELINES a) Bidder shall be responsible for the successful completion of the project. b If during the course of execution of the work any discrepancy or inconsistency, error or omission in any of the provisions of the contract is discovered, the same shall be referred to the Purchaser/Engineer who shall give his decision in the matter and issue instructions directing the manner in which the work is to be carried out. The decision of the Purchaser/Engineer shall be final and conclusive and the bidder shall carry out the work in accordance thereof.	We request purchaser/Engineer should issue such instructions to bidder in written form signed and sealed on purchaser's letter head to avoid issues at a later stage	Clause is self explanatory.
566	55	3.A.1.16	3	Supply of Software All OEMs of Edge Servers, Edge Devices, Cameras, Network equipment, Work-stations and etc. should give an undertaking that all licenses supplied by them would be registered in favor of M/s REL or its nominated agency.	Pls confirm if such registration has to be done at the time of supply or after acceptance of equipment. Purchaser should inform the name of party, whose name these licenses to be registered at the time award of contract as Majority of License are non-transferable	Details shall be shared with the successful bidder post award of the work.
567	57	3.B.1	3	Architecture Overview To implement video surveillance solution, each station should have robust, secure and scalable network architecture implemented which will cover all platforms and other areas such as waiting halls, ticket counters, entry, exit, refreshment area, and foot over bridge, parking area etc. of a railway station. In addition to robust, secure and scalable network architecture on railway stations, fully secure network architecture will be required on Mini Data Centre POPs. This network will work as a platform for implementation of Video Management, Video Recording, Video Analytics and Facial Recognition System etc. As this is a highly visible project for Indian Government, Ministry of Railways and RailTel, related to safety and security of women under "Nirbhaya Fund". Therefore, the proposed architecture must be secure end to end so that misuse of recorded video or video clips can be prevented.	Station wise implementation shall be done based on the final survey report signed by Railway/Railtel representative.	Clause is self explanatory.
568	57	3.B.1 Architecture Overview	3	This network will work as a platform for implementation of Video Management, Video Recording, Video Analytics and Facial Recognition System etc. on cloud as well.	Request you to kindly confirm on each station how many cameras will require analytics capabilities and FRS along with their bifurcation	Video Analytic and Face Recognition system are not covered under scope of this tender.
569	62	3.B.4.2	3	B Type Railway Station may have dedicated monitoring set-up and control room for monitoring and controlling all respective cameras.	Please clarify how many of the B-Type stations shall require monitoring setup and control room.	As per Tender.
570	62	3.B.4.4	3	A robust security layer will be there on these locations in form of next generation firewall and IPS combination. All RPF users will have restricted access to these systems for monitoring and playback stream through firewall and IPS.	RailTel to share the security policy which is to be applied to the VM&R Systems	As per the Solution Architecture defined in the Tender document.
571	64	3.B.4.5	3	Bidder offered solution may be based on either separate server hardware for Video Management & Video Recording OR same server hardware for both video management & video recording. However, the offered solution should meet the scalability requirement without impacting the performance of server hardware.	Please confirm if Storage may be external or coupled with VM&R servers	External storage as per specifications defined in clause 8.4 of Chapter-8.

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572	65	3.B.4.5	3	The offered solution for video management system (video management software & recording software) server hardware should be duly vetted and supported with certifications issued by OEM.	We understand that the VM&R solution vendor shall certify the server hardware and shall issue a certificate that the supplied hardware is fully compliant with the VM&R software	Clause is self explanatory.
573	65	3.B.4.5	3	Open Architecture: The CCTV system shall be of open architecture capable of easily integrating with third party systems and devices. Proprietary based systems are not acceptable.	We understand that 3rd party systems and devices shall be integrated only on open interfaces.	Clause is self explanatory.
574	65	3.B.4.5 a)	3	The bidder must ensure that the capacity of storage system supplied at the Station should be supplied with an additional 50% capacity over and above the capacity re-quired for 7 days recording computed on the basis of cameras given for respective sta-tion from day one.	As stated above in the RFP that the camera count may vary from station to station in all A1/A & B category type of stations so at bidding stage it is advisable to keep the storage capacity fixed to a minimum value for each type of stations to avoid ambiguous bids.	Please refer to point no. 2 & 4 of Corrigendum-VI.
575	65	3.B.4.5 a)	3	Bidder is advised to quote the unit rate against each category of stations considering the above total capacity requirements.	It is worth mentioning here that the bidder shall provide the unit price but the same shall be applicable / in multiple of the minimum additional ordered quantities otherwise the pricing shall not be viable.	Clause is self explanatory.
576	65	3.B.4.5 b)	3	RPF/GRP/Appropriate authority for investigation purpose and also to cater the requirements of provision of any new cameras on the station. Bidder is advised to quote the unit rate against each category of stations considering the above total capac-ity requirements. (b) In case more storage capacity in addition to the above mentioned is required in the storage system then the cost towards the additional capacity in terms of Tera Byte (TB) would be calculated on pro-rata basis on the lowest per TB cost among the of-fered storage systems against the A1/A/B category of stations.	We understand that such per TB prices shall be applicable to the minimum ordered quantities of storage specify by the bidder. All the storage expansion orders shall be released in multiples of such minimum ordered quantities.	Clause is self explanatory.
577	69	3.D.1. vi)	3	If the malfunction and/or failures of a unit/module/sub-system/equipment repeat during the test, the test shall be terminated and bidder shall replace the necessary equipment or module to correct the deficiency. Thereafter, the tests shall commence all over again from the start.	We understand that the after replacement or repair of the faulty equipment the Acceptance test shall be repeated but there will be no extension of Maintenance Supervision period.	Clause is self explanatory.
578	69	3.D.1. B vi)	3	vi) Failure of Equipment: If the malfunction and/or failures of a unit/module/sub-system/equipment repeat during the test, the test shall be terminated and bidder shall replace the necessary equipment or module to correct the deficiency. Thereafter, the tests shall commence all over again from the start.	We understand that the after replacement or repair of the faulty equipment the Acceptance test shall be repeated but there will be no extension of Maintenance Supervision period.	Clause is self explanatory.
579	72	3.D.6. c)	3	c) Self diagnostics test on individual equipment	Self diagnostic capability may or may not be available with the supplied equipment. So we understand that such self diagnostic test is limited to equipment which support this function.	Clause is self explanatory.
580	72	3.D.7.	3	RailTel's respective Executive Directors or their authorized representatives of con-cerned region shall issue a Provisional Acceptance certificate (PAC) RPF Thana/Chowkiwise for successful commissioning and testing covering all cameras and other IT infrastructure at a station clustered within the RPF Thana/Chowki and Fiber/Network connectivity, monitoring facilities extended so that trial run/field trials can be started. PAC will not be held back for want of minor deficiencies not affecting the functioning of the overall system. Deficiencies, if any, pointed at the time of issuance of PAC, will be rectified by the contractor within one month. The Provisional Acceptance Certificate shall be signed by both the parties. PAC will al-so not be held back for the station/s pending for Installation, Testing and Commis-sioning for the want of site readiness/approval or as per the decision of Executive Director of the region.	We understand that the Station/RPF Chowki/Thana/Regional office wise PAC shall be released and same shall not be linked to any other station/RPF Chowki/Thana/Division	Clause is self explanatory.
581	72	3.D.8.1	3	8% mandatory spares (for operation and maintenance) shall be provided against SOR item no.A1 (a) to A1(d) and A(5) to A(9) (with round off at the higher side. Spares shall be provided from the same manufacturing facilities/location from where the respective equipment, subsystems are offered.	Please confirm if such spare calculation is to be done on per station basis or RPF basis. Spare shall be supplied as 8% of the quantities as mentioned in the SOR. However as bidder shall be responsible for SLA so stationwise spare distribution need to be agreed jointly between bidder and purchaser.	As per Tender.
582	73	3.D.8.3.	3	The list of maintenance spares, required for providing maintenance support with Uptime being asked for, shall be worked out by the SI in consultation with the OEM and submitted for RailTel's approval. These spares shall be stocked at various locations proportionately and checked by RailTel at the time of acceptance of the network (to be defined by RailTel later).	Please confirm at which level these spares are to be maintained i.e station level, RPF Chowki/Thana/Division Level	Clause is self explanatory.
583	73	3.D.8.4.	3	RailTel shall hold successful bidder responsible for all SLAs mentioned in the RFP and subsequently in the contract document, however, for ensuring the same, Certificates from all OEMs and/or authorized vendors/representatives (as per Forms of Chapter 6) will be produced to confirm that the life time maintenance support (three years warranty & five years AMC) by provisioning of spares.	Bidder shall be responsible for SLAs pertaining to equipment/system supplied by him.	Clause is self explanatory.

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584	78	4.A.2.4.3	4	During the free warranty maintenance period, contractor should stabilize the work-ing of the system. Purchaser has the right to extend the period of supervision of the maintenance free of cost till the system stabilizes and works satisfactorily for a reasonable period of time. If during the time any equipment etc. is to be added or deficiencies are to be rectified to make the system work trouble free ,the same also will have to be done by the contractor at no cost to RailTel/REL as to make good all the deficiencies.	1. Maintenance Supervision period extention (FoC) can not be extended indefinitely. Request you to limit this extension maximum to one month. 2. Any addition of the equipment post survey and approval of design by RailTel should be paid extra.	As per Tender.
585	78	4.A.2.4.3	4	During the free warranty maintenance period, contractor should stabilize the work-ing of the system. Purchaser has the right to extend the period of supervision of the maintenance free of cost till the system stabilizes and works satisfactorily for a reasonable period of time. If during the time any equipment etc. is to be added or deficiencies are to be rectified to make the system work trouble free ,the same also will have to be done by the contractor at no cost to RailTel/REL as to make good all the deficiencies.	Please limit the time period extension to 1 month at the most	As per Tender.
586	79	4.A.3.1	4	Bidder/OEM shall provide maintenance support after successful completion of the warranty obligations for a minimum period of 5 years (SOR item no. C (1). The long term maintenance support shall be comprehensive and include all hardware and software of equipment, VMS, NMS etc. supplied against this contract. RailTel should be extended the benefits of software update/up-grades made by Bidder/OEM on the system from time to time to improve performance. During this period the scope of work as mentioned in Clause 4.A.2 above & its sub clauses will be applicable.	We understand that Software updates scope shall be limited to performance improvement and new feature shall not be added.	As per Tender.
587	79	4.A.3.2	4	Bidder/OEM (through its Indian subsidiary), shall be paid @ 3.5% of contract cost Schedule (A) per annum towards Long Term Maintenance Support after comple-tion of warranty period, to undertake repairs/replacements of all type of equip-ment/module/ card/assembly/ subassembly and update/upgrade of software released during this period and /or which may fail in the system after the warranty. Only in-cremental cost in % over and above this, if perceived by the OEM and bidder, may be indicated in Schedule of Requirement and shall be added towards evaluation of ten-der. If however the bidder feels that his AMC Cost is less than 3.5% per annum, he should give suitable discount in equipment pricing. For AMC he will be paid @ 3.5% per annum only. If the bidder quotes a higher base rate for AMC, he will be paid at his quoted rate per annum and five year differential cost shall be added to offered cost for evaluation. AMC would have to be valid for minimum period of 5 years after the warranty. In case a bidder quotes AMC rates lower than 3.5%, no advantage will be given to him/her for evaluation purposes. In case the bidder wins the contract his cost against supply items will be reduced by differential (w.r.t. 3.5%) of AMC rates & he will be paid accordingly against the cost of supply. AMC charges to him, however, be paid only @ 3.5% per annum.	We understand that Software updates scope shall be limited to performance improvement and new feature shall not be added.	As per Tender.
588	80	4.A.4	4	Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/Lol. Bidders need to share their detailed project plan mentioning the days/month wise progress to meet the timelines of the work. Spares against SOR item no. 26 shall be supplied after comple-tion of the scope of the work. Bidder in all cases is required to adhere to the project timelines and the project plan shared. In case of delay in implementation and/or on the basis on inability to adhere to the functional and operational requirements of the System as stated in this RFP, Rail-Tel will be within its right to take measures as detailed in Terms and Conditions of the Contract.	Please appreciate that the tender requires majority of equipments to be imported , Followed by RDSO / Railtel Inspection , Logistics to stations and subsequent installation . In the light of above we suggest to amend this to Complete supply with in 90 days and implementation with in 180 days from PO / Contract signing	As per Tender.
589	81	4.A.4.5.4	4	The proposed Project Team shall not change any member of the Project Team during the implementation phase of the project ; any exceptions need to be approved by RailTel.	We suggest to allow such changes which may be required to deploy expert manpower to speed up the project.	As per Tender.
590	82	4.A.4.7.4	4	RailTel/Railways reserves the right to seek customization to meet its re-quirements.	Please elaborate/specify the maximum scope of customization at this stage only. As Bidder shall supply the equipment as per the specs. Mentioned in the Tender and commercial bid shall be submitted accordingly so such customization might not be technically and commercially feasible.	As per Tender.
591	82	4.A.5.1.1	4	Payments will made on the basis of stations covered under a RPF Thana/Chowki for the material supplied against Schedule – A in stages for various items supplied.75% payment of the items would be made on receipt of material by the consignee duly inspected and on submission of the following documents subject to any deductions or recovery which RailTel/REL may be entitled to make under the contract:	We understand that the deductions referred here pertains to the taxation.	Clause is self explanatory.
592	84	4.A.5.2.1	4	90% payment of Schedule – B items (except those mentioned in paras below) shall be made by respective Executive Director of the Region on successful In-stallation, Testing and Commissioning of the stations/sites including at the con-cerned RPF Thana/Chowki of the cluster , 5% on issue of PAC and final 5% on issue of Final Acceptance Certificate.	Please mention the pre-requisite document required for claiming 90% payment of schedule B.	As per Tender.

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593	85	4.A.6.1	4	The bidder is required to submit a Performance Bank Guarantee (PBG) within 15 days of the issue of LOA as per BDS (chapter-5) for the satisfactory performance of materials covered in SOR given in Chapter 2 valid for a period of 4 months beyond warranty period. The earnest money shall be released on submission of PBG. The Proforma for PBG is given in Chapter 6 Form No. 1. If the delivery period gets extended, the PBG should also be extended appropriately. Extension of time for submission of PBG beyond 15(thirty) days and up to 30 days from the date of issue of LOA may be given with the approval of contract signing authority. However, a penal interest of 15% per annum shall be charged for the delay beyond 15(thirty) days, i.e. 16th day after the date of issue of LOA. In case the contractor fails to submit the requisite PBG even after 30 days from the date of issue of LOA, the contract shall be terminated duly forfeiting EMD and other dues, if any payable against that contract. The failed contractor shall be debarred from participating in re-tender of the work.	There is a clerical error in words and figures. Pls clarify	Please refer to point no. 6 of Corrigendum-VI.
594	86	4.A.7.7	4	In regards to works contract, the tenderer should have registration no. of GST in respective state where work is to be executed and shall furnish GST registration certificate on award of LoA.	Bidder might not have GST registration in all the states. Please allow IGST billing where bidder is not registered under GST.	Bidders are required to comply with the GST Law which is in public domain.
595	87	4.A.8.6.1	4	This camera location downtime shall include the service disruptions caused due to reasons including but not limited to camera failures, server failures, edge device failures, software breakdowns, networking device failures, UPS failures, electric-ity circuit breakdown (excluding AC Mains outage) or data network break down.	Downtime inclusions are very wide. E.g - It includes data downtime also, which may not be in SSTL's control Please exclude any outage due to failure of infrastructure provided by Railways/RailTel/Factors beyond control of bidder like tempering by Mob, delay in access approvals etc.	As per Tender.
596	91	4.A.9.1.10	4	i) The selection of the Engineer will be done by Contractor jointly with RailTel. RailTel will nominate their officer/s for interviewing the candidates. ii) The Engineer must be equipped with all necessary facilities/equipments such as Laptop, mobile telephone, data card, Internet connection; conveyance accommodation etc. iii) In case of requirements from contractor to log in to the system remotely, RailTel would provide adequate data communications facilities, remote access, telephone and modem connections, all in accordance with RailTel's Security policies and procedures, as may be necessary for the proper performance of contractor's obligations. iv) In case of unsatisfactory service, the Engineer will be withdrawn and replaced by a suitable one with a clear notice of 15 days.	Looking at pace at which the project has to be delivered and commercial cost involved. We suggest that RailTel may define standards for position wise qualification criteria including education qualification and experience. Bidder shall comply to the same while hiring the manpower.	As per Tender.
597	92	4.A.14.1 Clause: 2	4	Each offered model of equipment for camera, server, storage, switches, edge device, firewall, UPS and VMS software should have been working for at least six months in India or abroad	This clause is restricting the OEM to quote latest technology upgraded Model. Hence we request the committee to kindly delete the clause.	Please refer to point no. 7 of Corrigendum-VI.
598	93	4.A.14.1 Clause: 3	4	3. Financial Capability - The bidder should have received a minimum cumulative contract amount from the Security/IT/Telecom business in the last three financial years plus current year upto the date of opening of tender	We Understand that Cumulative Turnover of last three years from Security / IT / Telecom would be considered for fulfillment of this Criteria . And Further Telecom business includes Revenue from telecom services	Clause is self explanatory.
599	93	4.A.14.1 Clause: 4	4	4. Financial Capability - The bidder should have a positive net worth(Net Worth of the company would be computed as on 31st March 2017 as the summation of share capital, reserves and surpluses less accumulated losses held by the company) Note:- In case of Consortia/JV, Net worth of only the Lead Bidder shall be considered for evaluation purpose.	We understand and request that For fulfillment of this criteria , Financials of Parent / Group company may also be taken in to consideration	As per Tender.
600	94	4.A.14.1 Clause: 5	4	5. Experience in Video surveillance (Technical capability): The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 30.31 crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 29.96 crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 44.59 crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 44.52 crores in last three financial years plus current year upto the date of opening of tender. Note:- In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience. # Similar Work: Works entailing completion of Supply, Installation, Testing and Commissioning of a project comprising of Integrated IP based video surveillance work for central government or any state government or semi/quasi-government entities or Public Sector Units or private enterprises having turnover of at least 500 crores	1. We understand that for Fulfillment of this Clause , Experience and Turnover of parent / Group Company of lead bidder globally is also considered / Included , Please clarify 2. We understand that statement - "Works entailing completion of Supply, Installation, Testing and Commissioning of a project comprising of Integrated IP based video surveillance work for central government or any state government or semi/quasi-government entities or Public Sector Units or private enterprises having turnover of at least 500 crores" is applicable for any Global implementation and not limited to India	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.

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601	95	4.A.14.1	8	The bidder should give an un-dertaking for setting up a technical support centre within 3 months in every zone of respective Railways of the tender concern (Annexure-I of Chapter 7)	Service centers would be set up respective OEM and hence should be covered under OEMs eligibility criteria and Tripartite agreement	As per Tender.
602	95	4.A.14.1 Clause: 7	4	7. Process Standardization : The bidder should be a certified ISO 9000/9001 certified company	We understand that this is a Information security related project and as per RFP Clause no.4.A.46. Information security is paramount looking at National security aspect , hence 1. in place of ISO 9000 / 9001 , If a Company is having ISO 27001 certification should also be treated eligible Or 2. ISO Requirement may be waived off as there are already Stringent experience is sought under Eligibility condition Or 3. ISO 9000 certification available with Group company should also be considered for fulfillment of this criteria. Or 4. ISO 9000 certification at organization level to be provided on or before signing of contract.	As per Tender.
603	95	4.A.14.1 Clause: 8	4	8. O&M Capabilities: The bidder should give an un-dertaking for setting up a technical support centre within 3 months in every zone of respective Railways of the tender concern (Annexure-I of Chapter 7)	We understand that Technical support center is obliged to provide RS&R and TAC Support . Tender also requires 8% of mandatory spares to be supplied along with SOR quantities . Hence this clause may be modified to atleast one Technical support Center in India and SLAs for services may be defined along with reward and penalty mechanism	As per Tender.
604	100	4.A.15.4	4	Bidder while quoting the prices shall include all expenses like custom duty, anti dumping duty etc. leviable (will indicate the current prevalent rates), custom handling charges, storage, transportation, insurance, etc. in the quoted prices. In case of bids submitted in foreign currency for imported items, Custom duty shall be paid by RailTel directly to custom authorities. Bidder shall, however, have to undertake custom clearance on behalf of RailTel.	Seems contradictory to point at S.No 4.A.7.9 and will this impact the evaluation also	The two clauses are self explanatory.
605	101	4.A.19	4	The purchaser shall be at liberty to enhance or reduce the quantity mentioned in the LOA as indicated in Bid Data Sheet (BDS) Chapter 5 without assigning any reasons. The bidder shall comply with such modifications unconditionally provided these are made before completion of the deliveries under the purchase order/LOA. Any such change in quantity shall have no impact on the rates mentioned in the purchase order/LOA for any such item.	We understand all such modification shall be done before the release of PO and capped at maximum 10%. You would appreciate that the pricing (discounting) offered by various OEMs are against volume commitment and reduction in quantity may result in upward revision in pricing. Also Downward revision to quantity after Placing PO to successful bidder should not be allowed , as Bidder interest / Financial would get jeopardised .	As per Tender.
606	102	4.A.24	4	RailTel would also enter into Rate Contract with the firm to whom the contract is awarded for catering to additional requirement of Cameras, Switches, Servers, Storages, Rack, UPS, FMS, VMS software & Other associated equipments of Schedule of requirements (SOR) as and when arise in future. Rate Contract on the successful tenderer would be placed separately and would be operative from the date of PAC of the first Station/RPF/GRP Chowki/Thana/Post and would be valid for a period of 12 months. The validity of rate contract may be extended for further 12 months with mutual agreement. This Rate Contract would be at the same rates as finalized in main contract. During the validity of Rate Contract, RailTel will place Sub Purchase Orders for Cameras, Switches, Servers, Storages, Rack, UPS, FMS, VMS application & Other associated equipments detailed in SOR, as per requirement. The total value of all the Sub Purchase Orders under Rate Contract shall be restricted to 50% of the contract value for these SOR items, however, there is no guaranteed off take against this Rate Contract. A standing Performance Bank Guarantee of Rs. 10 lakh for due fulfillment of the rate contract with validity of four months beyond contract period will be submitted by the tenderer within 30 days of issue of LOA for Rate Contract. The supplier shall have to supply the equipments, VMS software etc. against these Sub Purchase Orders within 60 days from the date of issue of such Sub Purchase Orders and should submit a Performance Bank Guarantee (PBG) within 30 days of the issue of such Sub Purchase orders @ 10% of the value (rounded off to nearest Thousand of Rupees) of the Sub PO as per proforma given in Chapter 6, Form No.1. The PBG submitted against Sub P.O. is for the satisfactory performance of materials/software and should be valid for a period of 4 months beyond warranty period. Terms & conditions of this tender document will be applicable for the Sub POs issued against rate Contract, if any. If the delivery period gets extended, the PBG should also be extended appropriately. Terms and condition for submission of PBG shall be as per clause 4.A.6	Rate change due to any change in regulatory/commercial/taxation would be passed on to Purchaser however we confirm at basic unit prices shall remain constant till the validity period asked in Tender document. One PBG of INR 10 Lac and one of 10% of Sub Purchase order require. Sub order AMC will continue till the end of main order.	As per Tender.

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607	104	4.A.27.2 to 4	4	<p>Pre-shipment / pre-dispatch inspection shall be carried out at manufacturer's / bidder's works by RailTel's authorized representative. At least part of the material should be offered for inspection within 30 days of issue of confirmed Purchase Order/LOA. Traveling, lodging & boarding expenses of RailTel's representative and charges for 3rd party inspection if within India shall be borne by RailTel but necessary facilities to carry out tests/witness inspection shall be provided by the manufacturer/ bidder, free of cost.</p> <p>Along with inspection call, the bidder/manufacturer shall submit details of test procedures, test programme, test parameters together with permitted values, etc., and their Quality Assurance Plan.</p> <p>In case material fails during inspection, the fresh lot of material shall be of-fered without any extra cost, by the manufacturer/bidder. In such a case, total cost of re-inspection including travel, lodging & boarding of the inspecting officials shall be to manufacturer's/ bidder's account.</p>	If RailTel intends to do pre-shipment/pre-dispatch inspection at manufacturer's work which is outside India. Please confirm confirm on travel boarding and lodging cost of purchaser's representatives	Travel boarding and lodging cost is not covered under bidder scope.
608	206	8.8. Type-I Switch: 26	8	Operating Temperature of the Switch should be min -0 to 50 °C.	<p>Modification Requested: Please modify the clause as "Operating Temperature of the Switch should be min -0 to 45 °C".</p> <p>Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement.</p> <p>Kindly modify the clause to allow leading OEM to participate with best proposition</p>	As per Tender.
609	206	8.8. Type-I Switch:/24	8	IPv6 feature should be ready from day 1.	<p>Modification Request: IPv6 feature should be certified/ logo ready from day 1</p> <p>Justification: We request you to modify this clause as IPv6 Certificate or logo ensures that proposed device comes with IPv6 features tested and ensure future IPv6 requirements. Same is asked in NGFW as well. IPv6 features must be certified on complete networking and security devices to implement end to end solutions for requirement.</p>	As per Tender.
610	206	8.8. Type-I Switch:/28	8	"OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	<p>Modification Request: "OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)</p> <p>Justification: We request you to modify this clause as this will ensure quality product and established OEMs for this mission critical project.</p>	As per Tender.
611	206	8.8. Type-I Switch:/31	8	Switch should have SAFETY CERTIFICATE of UL	<p>Modification Request: Switch should have SAFETY CERTIFICATE of UL. Switch should be EAL2/NDPP certified from common criteria.</p> <p>Justification: We request you to consider and modify this clause as this will ensure evaluation of product hardware and software for security related vulnerabilities. Same is asked in NGFW as well. This evaluation must be on complete networking and security devices to ensure that there is no weak point in end to end solution</p>	As per Tender.
612	207	8.9. Type-II Switch 19	8	Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	<p>Modification Requested: Please modify the clause as "Should support ITU-T G.8032 or Equivalent Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies"</p> <p>Justification: Every OEM has different Terminology for the technology .Request you to kindly modify this clause as HPE Switches supports equivalent protocol to provide convergence times (sub 50 ms) in ring topologies .</p>	As per Tender.
613	207	8.9. Type-II Switch 24	8	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 50°C	<p>Modification Requested: Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 45°C</p> <p>Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement.</p> <p>Kindly modify the clause to allow leading OEM to participate with best proposition</p>	As per Tender.
614	207	8.9. Type-II Switch/23	8	Switch shall be IPv6 Certified/Ready.	<p>Modification Request: IPv6 feature should be certified/ logo ready from day 1</p> <p>Justification: We request you to modify this clause as IPv6 Certificate or logo ensures that proposed device comes with IPv6 features tested and ensure future IPv6 requirements. Same is asked in NGFW as well. IPv6 features must be certified on complete networking and security devices to implement end to end solutions for requirement.</p>	As per Tender.
615	207	8.9. Type-II Switch/25	8	should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted)	<p>Modification Request: "OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)</p> <p>Justification: We request you to modify this clause as this will ensure quality product and established OEMs for this mission critical project.</p>	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.

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SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	RailTel Response
616	208	8.9. Type-II Switch/28	8	Switch should have SAFETY CERTIFICATE of UL	Modification Request: Switch should have SAFETY CERTIFICATE of UL. Switch should be EAL2/NDPP certified from common criteria. Justification: We request you to consider and modify this clause as this will ensure evaluation of product hardware and software for security related vulnerabilities. Same is asked in NGFW as well. This evaluation must be on complete networking and security devices to ensure that there is no weak point in end to end solution	As per Tender.
617	209	8.10. Switches Type-III 24	8	Operating Temperature of the Switch should be min -0 to 50 °C.	Modification Requested: Please modify the clause as "Operating Temperature of the Switch should be min -0 to 45 °C". Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement. Kindly modify the clause to allow leading OEM to participate with best proposition	As per Tender.
618	209	8.10. Type-III Switch/22	8	Switch shall be IPv6 Certified/Ready.	Modification Request: IPv6 feature should be certified/ logo ready from day 1 Justification: We request you to modify this clause as IPv6 Certificate or logo ensures that proposed device comes with IPv6 features tested and ensure future IPv6 requirements. Same is asked in NGFW as well. IPv6 features must be certified on complete networking and security devices to implement end to end solutions for requirement.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
619	209	8.10. Type-III Switch/24	8	Operating Temperature of the Switch should be min -0 to 50 °C.	Modification Request: Operating Temperature of the Switch should be min -0 to 45°C. Justification: We request you to modify this clause as edge servers will be connected to these switches and will be co located. Servers does not support temp upto 50 deg. This is a restrictive clause and will stop bidders to quote cost effective solution.	As per Tender.
620	209	8.10. Type-III Switch/26	8	should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted)	Modification Request: "OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid) Justification: We request you to modify this clause as this will ensure quality product and established OEMs for this mission critical project.	As per Tender.
621	210	8.11. Switches Type-IV 10	8	Switch should comply to following Temperature performance parameters : III) Operating Temperature - min -0 to 50 °C	Modification Requested: Please modify the clause "Switch should comply to following Temperature performance parameters : III) Operating Temperature - min -0 to 45 °C". Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement. Kindly modify the clause to allow leading OEM to participate with best proposition	As per Tender.
622	210	8.11. Switches Type-IV 14- (x.)	8	It shall also support SYNC Ethernet and SNMPv3.	Modification Requested: Pls remove this specs. Justification: Request you to kindly remove the SYNC Ethernet. Since this is Metro Ethernet feature.	As per Tender.
623	210	8.11. Switches Type-IV 15-(xxi.)	8	ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies	Modification Requested: Request you to kindly modify this clause as "Should support ITU-T G.8032 or Equivalent Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies." Justification: Please modify the clause because HPE equivalent protocol provides convergence times (sub 50 ms) in ring topologies to allow leading OEM to participate.	As per Tender.
624	210	8.11. Switches Type-IV 15-(xxii)	8	Should support multiple Ring up to 8 ring (Main and Sub Ring) protection failover within 50 ms (up to 10 Switches in ring) or ITU-T G.8032 v2 (Confirmed roadmap within a year time is also acceptable for ITU-T G.8032 v2 with no additional cost to RailTel).	Modification Requested: Request you to modify the clause as "should support multiple Ring up to 8 ring (Main and Sub Ring) protection failover within 50 ms (up to 10 Switches in ring) or ITU-T G.8032 v2 or equivalent". Justification: Please modify this clause because HPE equivalent protocol provides convergence times (sub 50 ms) in ring topologies. ITU-T G.8032 is for single ring protection protocol where as ITU-T G.8032v2 is multiple ring protection protocol standard.	As per Tender.
625	210	8.11. Switches Type-IV 15-(xxv.)	8	Traffic prioritization: Flow-based QoS with internal and external (a.k.a., remarking) prioritization	Modification Requested: Request you to kindly change this clause as "Traffic prioritization: Flow-based QoS with internal and external prioritization" Justification: Since technology differs from OEM to OEM, request you to kindly modify so that max OEM can participate.	As per Tender.
626	210	8.11. Switches Type-IV/4.	8	Should have AC/DC power supply arrangement as given below without any external adaptors with redundant hot swappable power supply:	Modification Request: Should have AC/DC power supply arrangement as given below without any external adaptors with dual power supply: Justification: We request you to modify this clause as same routers are asked with requested clause in earlier RC/RFPs. This is a restrictive clause and will stop bidders to quote cost effective solution.	Please refer to point no. 16 of Corrigendum-VI.

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SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	RailTel Response
627	210	8.11. Switches Type-IV/6.	8	Switch shall have 6 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports complying to IEEE 802.3, IEEE 802.3u and 802.3ab standard , supporting half duplex mode ,full duplex mode and auto negotiation on each port of 1G to optimize bandwidth.	Modification Request: Switch shall have 8 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports complying to IEEE 802.3, IEEE 802.3u and 802.3ab standard , supporting half duplex mode ,full duplex mode and auto negotiation on each port of 1G to optimize bandwidth. Justification: We request you to modify this clause as same routers are asked with requested clause in earlier RC/RFPs. This will enable bidders to quote scalable solution for future needs.	As per Tender.
628	211	8.11. Switches Type-IV 15-(xxvii)-2	8	Transparent LAN Services with Service VLAN (SVLAN) and Customer VLAN (CVLAN) concept.	Modification Requested: Request you to kindly modify this clause as " Transparent LAN Services with Service VLAN (SVLAN) and Customer VLAN (CVLAN) concept or Q-in-Q" Justification: Since technology differs from OEM to OEM, Since CVLAN concept is a Q in Q feature request you to kindly modify so that max OEM can participate.	As per Tender.
629	211	8.11. Switches Type-IV 15-(xxvii)-3	8	CVLAN to SVLAN translation and mapping	Modification Requested: Request you to kindly modify this clause as " CVLAN to SVLAN translation and mapping or Q-in-Q" Justification: Since This is a Q in Q feature Set request you to please ask for Q in Q features . This is a Q in Q feature Set please ask for Q in Q features .	As per Tender.
630	211	8.11. Switches Type-IV 15-(xxvii)-4	8	IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs).	Modification Requested: Request you to kindly modify this clause as " IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 16 MEPs)." Justification: Since technology differs from OEM to OEM. It is important that the switch should support MEPs. The figure value can be differs from OEM to OEM. Request you to kindly change so that max. OEM can participate.	As per Tender.
631	212	8.11. Switches Type-IV 15-(xxvii)-6	8	ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Modification Requested: Request you to kindly modify this clause as "ITU-T G.8032 Ethernet Ring Protection designed for loop protection or equivalent and fast convergence times (sub 50 ms) in ring topologies or equivalent" Justification: Please modify this clause because HPE equivalent protocol provides convergence times (sub 50 ms) in ring topologies. ITU-T G.8032 is for single ring protection protocol where as ITU-T G.8032v2 is multiple ring protection protocol standard.	As per Tender.
632	212	8.11. Switches Type-IV 15-(xxvii)-9	8	L2 Protocol Tunneling.	Modification Requested: Request you to kindly modify this clause as " L2 Protocol Tunneling or equivalent" Justification: Since technology differs from OEM to OEM. Request you to kindly modify so that max OEM can participate	As per Tender.
633	212	8.11. Switches Type-IV 16-(xiii.)	8	ITU-T G.8032/Y.1344 2010: Ethernet Ring	Modification Requested: Request you to kindly modify this clause as "ITU-T G.8032/Y.1344 2010: Ethernet Ring or equivalent" Justification: Since technology differs from OEM to OEMs. We can do the same functionality by different technology	As per Tender.
634	212	8.11. Switches Type-IV 17- (i.)	8	The model of the Switches series shall have MEF-(9 & 14)/CE2.0 or higher certification from authorized agencies.	Modification Requested: Request you to kindly remove this clause. Justification: Carrier Ethernet Feature is not required in Enterprise grade switches	As per Tender.
635	212	8.11. Switches Type-IV 17- (ii.)	8	Switches should be NEBS certified.	Modification Requested: Request you to kindly remove this clause. Justification: Request you to kindly remove this clause as NEBS is meant for Carrier Grade Switches or telecommunication Devices	As per Tender.
636	212	8.12. SFP-BX (10 KM) Single Fiber:	8	8.12. SFP-BX (10 KM) Single Fiber:	Modification Requested: Please modify as "8.12. SFP-BX/SFP (10 KM) " Justification: SFP-BX is not a common Industry standard for transceiver hence we request modify the statement to allow leading OEM to participate and propose the standard SFP transceiver as per solution requirement	As per Tender.
637	212	8.12. SFP-BX (10 KM) Single Fiber: 1	8	SFP modules should comply with multi-source agreement (MSA), enabling compatibility with other vendors equipment.	Modification Requested: Please modify the clause as "SFP modules should communicate with other vendors SFP module" Justification: As per Industry standard , it is not recommended to use third party transceiver in any Enterprise grade Switches .This will impact the product performance and may affect on the warranty policy which is same for every leading OEMs. Kindly modify the clause to allow leading OEM to participate.	As per Tender.
638	212	8.11. Switches Type-IV/17 (i).	8	The model of the Switches series shall have MEF-(9 & 14)/CE2.0 or higher certification from authorized agencies.	Modification Request: The model of the Switches series shall have MEF-(9 & 14) and CE2.0 or higher certification from authorized agencies. Justification: We request you to modify this clause as CE2.0 is latest standard for carrier ethernet enabled devices and ensures that device comes with feature rich software for future MPLS needs.	As per Tender.
639	212	8.11. Switches Type-IV/17 (vi).	8	IPv6 feature should be ready from day 1	Modification Request: IPv6 feature should be certified/ logo ready from day 1 Justification: We request you to modify this clause as IPv6 Certificate or logo ensures that proposed device comes with IPv6 features tested and ensure future IPv6 requirements. Same is asked in NGFW as well. IPv6 features must be certified on complete networking and security devices to implement end to end solutions for requirement.	As per Tender.
640	212	8.11. Switches Type-IV/18	8	OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner. (Documentary support to be submitted)	Modification Request: "OEM should be in leaders or challengers or visionaries Quadrant in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid) Justification: We request you to modify this clause as this will ensure quality product and established OEMs for this mission critical project.	Please refer to point no. 17 of Corrigendum-VI.

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641	213	8.13. SFP+ (10 Km 1	8	SFP modules should comply with multi-source agreement (MSA), enabling compatibility with other vendors equipment.	Modification Requested: Please modify the clause as "SFP modules should communicate with other vendors SFP module" Justification: As per Industry standard , it is not recommended to use third party transceiver in any Enterprise grade Switches .This will impact the product performance and may affect on the warranty policy which is same for every leading OEMs. Kindly modify the clause to allow leading OEM to participate.	As per Tender.
642	213	8.13 SFP+ (80 Km): 1	8	SFP modules should comply with multi-source agreement (MSA), enabling compatibility with other vendors equipment.	Modification Requested: Please modify the clause as "SFP modules should communicate with other vendors SFP module" Justification: As per Industry standard , it is not recommended to use third party transceiver in any Enterprise grade Switches .This will impact the product performance and may affect on the warranty policy which is same for every leading OEMs. Kindly modify the clause to allow leading OEM to participate.	As per Tender.
643	217	8.18 UPS 1KVA Clause 24 c)	8	Tel Line surge protection is required inbuilt	Tel Line surge protection is required inbuilt or external SPD may also be allowed	As per Tender.
644	218	8.19 UPS 2KVA Clause 23 d)	8	Tel Line surge protection is required inbuilt	Tel Line surge protection is required inbuilt or external SPD may also be allowed	As per Tender.
645	77-78	4.A.2.4.1	4	Material for repair during Warranty Period shall be handed over /taken over to contractors engineer at respective site or mutually agreed RailTel/REL PoP location. Bidder shall keep L1 Support engineer in Field (one engineer/200 cameras) and one L2 Support engineer (Network, server & storage) 24x7 in the Regional Headquarter. The Field engineer will visit the total installation once in every month or earlier if the situation so warrants with the provision that monthly/quarterly reports of the failures and health of the equipment is generated from the NMS and submitted to the Purchaser. Additional manpower, if considered necessary shall be provided by contractor to stabilize the network. The bidder shall arrange the suitable replacement in case the assigned support engineer goes on leave or is unavailable due to any other reason to ensure uninterrupted support services. The cost for Technical Engineering support etc. may be quoted as provided for in SOR. The Contractor's Engineer shall be responsible to identify the fault and advise corrective measures. During the warranty period, the contractor shall remain responsible to arrange replacement within 7 days and for setting right at his own cost any equipment installed by him which is of defective manufacture or design or becomes unworkable due to any cause whatsoever. The decision of the RailTel/REL's representative in this regard to direct the contractor to attend to any damage or defect in work shall be final and binding on the Contractor. In case contractor fails to replace any faulty part within 7 days period, penalties will be imposed as per clause 5.0 of Annexure-II.	Railtel decision is deemed to be final in case of damage or defect? Replacement of faulty imported part needs time. RS&R time for different OEMs are different so request to increase this time as 1 month.	Clause is self explanatory.
646	RDSO- Page:11,12,14,15,17 & 20	Regulatory Approvals/ Certifications	RDSO- Page:11,12,14,15,17 & 20	UL or EN or CE or IEC or IS certification for Safety, CE or FCC Certifications for EMC & Immunity	We strongly request that All Cameras quoted and supplied against this tender requirement must be UL Certified. Since the UL certification ensures that the safety guidelines are followed and it meets the global standard for safety and security. Majority of CCTV OEM follows UL standards for their products. Request to kindly add this clause as a must have certification.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
647	160	Annexure-1	7	Station category wise planned no. of camera: 13440 CCTV cameras has been proposed for 552 stations.	We understand that this is strategic call of Railways/RailTel. Bidder will carry out the survey in coordination with designated officials and install camera at per approved survey reports. Further to this bidder can not warrant fully coverage of station/platform/RPF etc because camera count are not proposed by bidder but already defined in Tender document.	Bidder to quote as per SOR and Solution Architecture defined in the tender document.
648	221	8.24 Telecom Rack (9U, 19", Wall mounted): Clause 5	8	Rear side: MS CRCA door plain having ventilation holes bottom side with dust filters.	Since it is wall mount rack, it is not advisable to ventilation holes. Kindly remove from the specs.	As per Tender.
649	221	8.24 Telecom Rack (9U, 19", Wall mounted): Clause 9	8	Cable Manager: 1 no. horizontal and 1 no. vertical cable manager with cable loops to be provided with each rack.	Since it is wall mount rack, it is not advisable to have vertical cable manager. Kindly remove from the specs.	As per Tender.
650	222	8.25 19" 42U Rack: Clause 9	8	PDU: Adequate and Redundant power distribution units with electronically controlled circuits for surge and spike protection, isolated input to ground and output to ground.	Please provide missing details like number of sockets and details of MCB (rating) required.	Clause is self explanatory.
651	222	8.25 19" 42U Rack: Clause 10	8	Material used: CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm	Please specify like: Main pillars 1.6mm, 19" angle 2mm, panels and doors - 1mm (industry standard)	As per Tender.
652	222	8.25 19" 42U Rack: Clause 11	8	The rack should be fitted with one modem tray 19"	Please ask clearly like: Cantilever Tray	As per Tender.

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653	222	8.26 Network Management System (NMS): Clause 1	8	The Network Management System should be licensed for asked managed switches for a regional HQ and should have flexibility to be shared among the elements of the same OEM. Management system should have scalability to manage minimum 5000 managed switches.	As per tender specs switches (TYPE I, II, III, IV) can be different OEM but in clause 2 under 8.26, it has been asked that NMS should be same OEM. NMS would be separate solution/ platform, which would be capable to manage all switches in the network. RAILTEL has already asked/ specified the features, which you are looking for in NMS. kindly remove same OEM clause as switch for NMS.	Please refer to point no. 19 of Corrigendum-VI.
654	217/218	8.18. 8.19.	8	Capacity: 1KVA/800 W, better as per actual requirement Capacity: 2KVA/800 W, better as per actual requirement	We understand that: 1. 60 mins backup to be calculated on 800W for 1KVA and 1600W for 2KVA 2. Batteries required will be rack mountable or external batteries are allow allowed with external cabinet. 3. If batteries required rack mounted than 6U space shall be required and 1U/Unit space shall be required for cooling. 4. Wait of the Rack mount UPS and Batteries shall be close to 40Kgs-60Kgs and hence wall mounted rack load bearing capacity shall be a challenge. It is expected walls where the racks are installed may fail. 5. If external batteries are planned please confirm how it will be place and the guidelines for connecting rack mounted UPS and the external battery back.	(1) AS per Tender. (2 & 3) Bidder to propose external cabinet to House batteries. (4 & 5) Deployment shall be done as per the site survey. Bidder to quote as per SOR.
655	8.8	205	26	Operating Temperature of the Switch should be min -0 to 50 °C.	We have worked in to variuos city surveillance projects wherein Outdoor industrial grade switches have been considered as a standard prcatice. Based on our experience, an enterprise grade switch may fail to work due to harsh outdoor environemnet. As you have mentioned support for 8 years, its essential to consider an min industrial grade switches having operatig temperature of 70C for outdoor platform environment.	As per Tender.
656	8.8	206	21	Switch should support Surge Protection to ± 2 kV (line-earth) and ± 1 kW (line-line) on power input and Surge Protection to ± 2 kV on Ethernet ports or as per EN61000-4-5 standard.	We have checked complance with various OEM's, most of the OEM's don't comply to defined surge protection levels. Only specific Taiwan Based OEM support this functionality. Request you to relax this requirement to ensure healthy competition	As per Tender.
657	8.9	207	24	Switch should comply to following Temperature performance parameters : i) Operating Temperature - min -0 to 50 °C ii) Storage Temperature - min -10 to 70 °C	We have worked in to variuos city surveillance projects wherein Outdoor industrial grade switches have been considered as a standard prcatice. Based on our experience, an enterprise grade switch may fail to work due to harsh outdoor environemnet. As you have mentioned support for 8 years, its essential to consider an min industrial grade switches having operatig temperature of 70C for outdoor platform environment.	As per Tender.
658	8.9	207	20	Switch should support EN61000-4-5 standard or as below: i) Surge protection of ± 2 kV (line-earth) and ± 1 kW (line-line) on power in-put And ii) Surge protection of ± 2 kV on Ethernet ports.	We have checked complance with various OEM's, most of the OEM's don't comply to defined surge protection levels. Only specific Taiwan Based OEM support this functionality. Request you to relax this requirement to ensure healthy competition	As per Tender.
659	8.8	205	14	Should have AC Power Supply 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.	Consider AC/DC power supply for Type-1 switches as well like being considered for Type-4 switch	As per Tender.
660	Note IV	42	IV	Since, RailTel is also implementing Wi-Fi work at railway stations, therefore, the existing available infrastructure may be utilized by the purchaser for implementation of VSS system and such items used may not be considered as a part of Supply orders.	It is very difficult for the vendor to surey all stations. Kindly provide the details of the exact infrastructure that the bidder will be allowed to use. Alternatively confirm if BOQ quantities can be varied at the time of supply in accordance to infrastructurs available.	Bidder to quote as per SOR.

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661	4		Eligibility Criteria Requirements for OEM's	The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	This is restrictive and will avoid global competition (a) you are requested to kindly allow acceptance to installations done in metro, Railways Toll Plazas, Highways, Airports, Defence, Oil Industry and Smart City Projects.(b) Kindly increase the period from three years to five years. (c) Request you to allow global work experience. Suggested Clause:"The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways, airport, Toll plazas, Highways, Defence, Oil Industry or smart city projects in India or Globally in last 5 financial years (i.e. current year and three previous financial years) from the date of opening of tender"	As per Tender.
662				In the event of Foreign Original Equipment Manufacturer (OEM), Indian Sub- sidiary or it's 100% subsidiary fully authorized for bidding on behalf of OEM is allowed to participate with the experience and financial credential of parent company with specific authorization for doing so from the OEM. The specific authorization addressed to RailTel should be submitted by the bidder.	This is completely Contradictory to point 4. (a) You allow the use of International Financial credentials to be used, but restrict Pre-Qualification of OEM to domestic supply of product to Metro Railways and Airports only. Request you to relax the same.	As per Tender.
663	Pt.5	42		Bidder should submit the soft copy (Word/Excel/PDFs format) of offer in DVDs/USB's. Bill of Material (BOM) must be in PDF as well as Excel format (except price bid). Bidder is allowed to quote only for a single Make/Model of the quoted items along with the offer. Offers without particulars of Make/Model or multiple OEMs of same item shall be liable to summarily rejected. The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, edge devices, workstation, storage, large video displays units, VMS Software, switches (Type-I, II, III and IV separately), Firewall and NMS.	Kindly confirm if all the switches need to be from the same OEM.	Please refer to point no. 7 of Corrigendum-VI.
664	Point 8.8	205		In line with defend Architecture mentioned at section 3.B.1 at page 57, the type-1 switches will be deployed at Platform for termination of IP Cameras. At platform, the outside temperature will in rage of 48C which may raisess to +10C to 12C (58- 60C)inside enclosure wherein switch will be installed. The switch which has been specified in tender is an enterprise grade switch of operating temperature 50C, which may fail to work and operate as their semiconductor has been designed to operate under maximum temperature of 50C only. If Switch malfunctions due to temeprature, it will lead to unavailibilty of camera. In such scenario, the objective of 24 hrs surveillance will never be achieved and will seriously impact the objective of overall investment. We hope, considering all these concerns only, in earleir tender of VSS for four regions (RailTel/Tender/OT/CO/OP/2016-17/VSS-NR/359) Industrial Garde Type-1 & Type-2 switches were considered. We highly recommend to consider the same Type-1 & Type-2 switches for smooth operation of network.	Suggested Clause: "The switches for Type 1 &2 may be changed to earlier specifications laid down by Railtel, for Industrial grade switches for sturdy and consistant performance over next 8-9years."	As per Tender.
665				Qquantify the numbers of cameras in asked credentials against supply to metro railways, railways or airport or smart city projects in India in last 3 financial years.		As per Tender.
666	8.8. Type-I Switch:	205	26	Operating Temperature of the Switch should be min -0 to 50 °C.	Please modify the clause as "Operating Temperature of the Switch should be min -0 to 45 °C". Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement. Kindly modify the clause to allow leading OEM to participate with best proposition	As per Tender.
667	8.9. Type-II Switch	207	19	Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Please modify the clause as "Should support ITU-T G.8032 or Equivelant Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies". Justification: Every OEM has different Terminology for the technolgy .Request you to kindly modify this clause as HPE Switches supports equivelent protocol to provide convergence times (sub 50 ms) in ring topologies .	As per Tender.

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668	8.9. Type-II Switch	207	24	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 50°C	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 45°C. Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement. Kindly modify the clause to allow leading OEM to participate with best proposition	As per Tender.
669	8.10. Switches Type-III	209	24	Operating Temperature of the Switch should be min -0 to 50 °C.	Please modify the clause as "Operating Temperature of the Switch should be min -0 to 45 °C". Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement. Kindly modify the clause to allow leading OEM to participate with best proposition	As per Tender.
670	8.11. Switches Type-IV	210	10	Switch should comply to following Temperature performance parameters : III) Operating Temperature - min -0 to 50 °C	Please modify the clause "Switch should comply to following Temperature performance parameters : III) Operating Temperature - min -0 to 45 °C". Justification: The operating temperature 0 -45 C is the Industry standard temperature range for Enterprise grade product in all the leading OEM. Also as per solution , these switches will be deployed in control indoor environment and hence the suggested temperature range is sufficient to meet the solution requirement. Kindly modify the clause to allow leading OEM to participate with best proposition	As per Tender.
671	8.11. Switches Type-IV	210	14- (x.)	It shall also support SYNC Ethernet and SNMPv3.	Pls remove this specs. Justification: Request you to kindly remove the SYNC Ethernet. Since this is Metro Ethernet feature.	As per Tender.
672	8.11. Switches Type-IV	210	15-(xii.)	ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies	Request you to kindly modify this clause as "Should support ITU-T G.8032 or Equivalent Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies." Justification: Please modify the clause because HPE equivalent protocol provides convergence times (sub 50 ms) in ring topologies to allow leading OEM to participate.	As per Tender.
673	8.11. Switches Type-IV	210	15-(xiii)	Should support multiple Ring up to 8 ring (Main and Sub Ring) protection failover within 50 ms (up to 10 Switches in ring) or ITU-T G.8032 v2 (Confirmed roadmap within a year time is also acceptable for ITU-T G.8032 v2 with no additional cost to RailTel).	Request you to modify the clause as "should support multiple Ring up to 8 ring (Main and Sub Ring) protection failover within 50 ms (up to 10 Switches in ring) or ITU-T G.8032 v2 or equivalent". Justification: Please modify this clause because HPE equivalent protocol provides convergence times (sub 50 ms) in ring topologies. ITU-T G.8032 is for single ring protection protocol where as ITU-T G.8032v2 is multiple ring protection protocol standard. Justification:Please modify this clause because HPE equivalent protocol provides convergence times (sub 50 ms) in ring topologies. ITU-T G.8032 is for single ring protection protocol where as ITU-T G.8032v2 is multiple ring protection protocol standard.	As per Tender.
674	8.11. Switches Type-IV	210	15-(xiv.)	Traffic prioritization: Flow-based QoS with internal and external (a.k.a., remarking) prioritization	Request you to kindly change this clause as "Traffic prioritization: Flow-based QoS with internal and external prioritization". Justification: Since technology differs from OEM to OEM, request you to kindly modify so that max OEM can participate.	As per Tender.
675	8.11. Switches Type-IV	211	15-(xviii)-2	Transparent LAN Services with Service VLAN (SVLAN) and Customer VLAN (CVLAN) concept.	Request you to kindly modify this clause as " Transparent LAN Services with Service VLAN (SVLAN) and Customer VLAN (CVLAN) concept or Q-in-Q". Justification: Since technology differs from OEM to OEM, Since CVLAN concept is a Q in Q feature request you to kindly modify so that max OEM can participate.	As per Tender.
676	8.11. Switches Type-IV	211	15-(xviii)-3	CVLAN to SVLAN translation and mapping	Request you to kindly modify this clause as " CVLAN to SVLAN translation and mapping or Q-in-Q". Justification: Since This is a Q in Q feature Set request you to please ask for Q in Q features . This is a Q in Q feature Set please ask for Q in Q features .	As per Tender.

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677	8.11. Switches Type-IV	211	15-(xxviii)-4	IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs).	Request you to kindly modify this clause as "IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 16 MEPs)." Justification: Since technology differs from OEM to OEM. It is important that the switch should support MEPs. The figure value can be differs from OEM to OEM. Request you to kindly change so that max. OEM can participate.	As per Tender.
678	8.11. Switches Type-IV	212	15-(xxviii)-6	ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Request you to kindly modify this clause as "ITU-T G.8032 Ethernet Ring Protection designed for loop protection or equivalent and fast convergence times (sub 50 ms) in ring topologies or equivalent" . Justification: Please modify this clause because HPE equivalent protocol provides convergence times (sub 50 ms) in ring topologies. ITU-T G.8032 is for single ring protection protocol where as ITU-T G.8032v2 is multiple ring protection protocol standard.	As per Tender.
679	8.11. Switches Type-IV	212	15-(xxviii)-9	L2 Protocol Tunneling.	Request you to kindly modify this clause as " L2 Protocol Tunneling or equivalent" . Justification: Since technology differs from OEM to OEM. Request you to kindly modify so that max OEM can participate	As per Tender.
680	8.11. Switches Type-IV	212	16-(xiii.)	ITU-T G.8032/Y.1344 2010: Ethernet Ring	Request you to kindly modify this clause as "ITU-T G.8032/Y.1344 2010: Ethernet Ring or equivalent" . Justification: Since technology differs from OEM to OEMs. We can do the same functionality by different technology	As per Tender.
681	8.11. Switches Type-IV	212	17- (i.)	The model of the Switches series shall have MEF-(9 & 14)/CE2.0 or higher certification from authorized agencies.	Request you to kindly remove this clause. Justification: Carrier Ethernet Feature is not required in Enterprise grade switches	As per Tender.
682	8.11. Switches Type-IV	212	17- (ii.)	Switches should be NEBS certified.	Request you to kindly remove this clause. Justification: Carrier Ethernet Feature is not required in Enterprise grade switches	As per Tender.
683	8.12. SFP-BX (10 KM) Single Fiber:	212		8.12. SFP-BX (10 KM) Single Fiber:	Please modify as "8.12. SFP-BX/SFP (10 KM) Single Fiber". Justification: SFP-BX is not a common Industry standard for transceiver hence we request modify the statement to allow leading OEM to participate and propose the standard SFP transceiver as per solution requirement.	As per Tender.
684	8.12. SFP-BX (10 KM) Single Fiber:	212	1	SFP modules should comply with multi-source agreement (MSA), enabling compatibility with other vendors equipment.	Please modify the clause as "SFP modules should communicate with other vendors SFP module". Justification: As per Industry standard , it is not recommended to use third party transceiver in any Enterprise grade Switches .This will impact the product performance and may affect on the warranty policy which is same for every leading OEMs. Kindly modify the clause to allow leading OEM to participate.	As per Tender.
685	8.13. SFP+ (10 Km	213	1	SFP modules should comply with multi-source agreement (MSA), enabling compatibility with other vendors equipment.	Please modify the clause as "SFP modules should communicate with other vendors SFP module". Justification: As per Industry standard , it is not recommended to use third party transceiver in any Enterprise grade Switches .This will impact the product performance and may affect on the warranty policy which is same for every leading OEMs. Kindly modify the clause to allow leading OEM to participate.	As per Tender.
686	8.13 SFP+ (80 Km):	213	1	SFP modules should comply with multi-source agreement (MSA), enabling compatibility with other vendors equipment.	Please modify the clause as "SFP modules should communicate with other vendors SFP module". Justification: As per Industry standard , it is not recommended to use third party transceiver in any Enterprise grade Switches .This will impact the product performance and may affect on the warranty policy which is same for every leading OEMs. Kindly modify the clause to allow leading OEM to participate.	As per Tender.
687	4.A.14.1.3	78	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEMs supplying camera, switch & accessories and INR5000 crores for OEMs supplying IT hardware (server) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR1000 crores for OEMs supplying camera, switch & accessories and INR 5000 crores from Server Business in India for OEMs supplying IT hardware (server) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender or Revenue of 1000 Crore each from Server Business in the last the 3 Financial Years. Justification: This will enable that leading OEMs who have significant presence in India for at least the last 3 Years are bidding for this Project.	As per Tender.
688	CHAPTER- 2	9	PACKAGE I:	SCHEDULE OF REQUIREMENT Supply of Type-III switches as de-fined in clause 8.10 of chapter 8 and all accessories required for their installation	Suggestion- The quantity mentioned is 151. As part of the Architecture Type-III switch will work as aggregation switch. Incase of failure the setup will stop working. Kindly make it redundant.	As per Tender.
689	Note I : Chapter 2 Schedule of Requirement	42	42	(c) It shall be the responsibility of Bidder to transport the equipment to site for the Installation & Commissioning. Charges for the same should be included in SOR Item no. A 1 to A 38. Materials not installed / not to be installed need to be shipped to location as decided by RGM/Executive Director of the Region. SOR items against which Installation is not separately mentioned, installation shall be considered within the scope of supply itself.	Materials not installed / not to be installed need to be shipped to location as decided by RGM/Executive Director of the Region at the cost of respective RGM/Executive Director of the Region	As per Tender.
690	Note III : Chapter 2 Schedule of Requirement	42	42	The bidder is supposed to quote for the manpower requirement of 2-years period of warranty period post Maintenance Su-pervision period, as during this period the contractor shall be responsible for proper maintenance supervision of the system free of cost for a period of twelve months from the date of provisional acceptance (for more details please refer to section 4.A.2.5)	It is requested to make the maintenance supervision period of twelve months chargeable to the Client; Since it has significant cost impact on complete deal structure	As per Tender.

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691	Note IV : Chapter 2 Schedule of Requirement	42	42	Since, RailTel is also implementing Wi-Fi work at railway stations, therefore, the existing available infrastructure may be utilized by the purchaser for implementation of VSS system and such items used may not be considered as a part of Supply orders.	Any approval in this regard will be arranged by respective RGM/Executive Director of the Region	As per Tender.
692	Note VI : Chapter 2 Schedule of Requirement	42	42	Bidder would be responsible for ensuring the complete system is operational and meeting the requirements as mentioned in the RFP. However if at any stage before the issuance of FAC for the system installed, it is found that the system performance is not compliant with the functional requirements and specifications given in the RFP document, the bidder shall be liable/obliged to supply additional hardware/systems at no additional cost to the purchaser, required to meet the functional requirements and specifications mentioned in the RFP document at no additional cost to the purchaser. Purchaser's engineer decision in this context will be final.	Bidder shall only be responsible for the requirements planned by Bidder only; Wherein BoQ has been fixed in the RFP and Bidder has not suppose to change the same and if in future additional hardware/systems is required to be supplied, the change request in this respect shall be provided by the client to the successful bidder	As per Tender.
693	Part B - System of requirement			L1 support engineer in Field (@ defined per annum rate of Rs. 5,00,000/-) and L2 support engineer in Regional HQ (@ defined per annum rate of Rs. 8,00,000/-)	It is understood, bidder has to plan the no. of engineer if it is required more engineer than defined in the RFP. A clarity is required w.r.t. Defined per annum rate; Please suggest whether defined per annum rate is all inclusive rate (Bidder's Margin and other cost) or it is minimum gross CTC to be paid to the engineers and all other factors i.e. employee related expense, Bidder's Margin and other cost is over and above	Clause is self explanatory.
694	Note V : Chapter 2 Schedule of Requirement	42	42	Bidder is allowed to quote only for a single Make/Model of the quoted items along with the offer. Offers without particulars of Make/Model or multiple OEMs of same item shall be liable to summarily rejected. The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, edge devices, workstation, storage, large video displays units, VMS Software, switches (Type-I, II, III and IV separately), Firewall and NMS	Please elaborate on this point	Please refer to point no. 3 of Corrigendum-VI.
695	Support from Indian Railways / RailTel	51	51	3.A.1.7.1 Railways shall provide AC power supply at station/cabin/panel room/mid-section buildings for carrying out the awarded work. The successful bidder will have to pay the nominal charges for the power supply as per the exist-ing Railways Norms.	It is requested to be provided free of cost to the bidder and if not, please provide applicable schedule of charges in this respect	Railways Power used by the bidder to carry out the awarded work will be charged as per the ongoing rates and standard norms of Indian Railways. However the bidder may make its own arrangements for the power supply for the execution of the work.
696	CHAPTER-3	51	3.A.1.7	SITE PREPARATION- 3.A.1.7.1 Railways shall provide AC power supply at station/cabin/panel room/mid-section buildings for carrying out the awarded work. The successful bidder will have to pay the nominal charges for the power supply as per the exist-ing Railways Norms.	Kindly quantify the amount or % of charges bidder has to pay against power supply	Railways Power used by the bidder to carry out the awarded work will be charged as per the ongoing rates and standard norms of Indian Railways. However the bidder may make its own arrangements for the power supply for the execution of the work.
697	Support from Indian Railways / RailTel	52	52	3.A.1.7.6 RailTel's decision in this regard in consultation with Indian Railways shall be binding on the successful bidder.	A decision shall reach after discussion with Bidders representative	As per Tender.
698	Support from Indian Railways / RailTel	52	52	3.A.1.7.5 If RailTel is however, satisfied that work will not be likely to get completed within given timelines except by resorting to night work, by special or-der, the successful bidder would be allowed to carry out the work even in night.	for working in night, if required; Suitable arrangement on part of RGM/Executive Director of the Region to be made by respective RGM/Executive Director of the region including arrangement of any order/approval in this respect	As per Tender.
699	CHAPTER-3	53	3.A.1.10	TRAINING OF PURCHASER'S PERSONNEL AND CHANGE MANAGE-MENT- The successful bidder shall provide hands on training with detailed course material on the installed equipment and software covering at least the following: -Configuration and their operation of Networking Equipment, Cameras and other equipment etc. supplied under the project. - Introduction to computers, servers, and their configuration and operations - Trouble shooting and preventive maintenance - Training on operation of CCTV system.	Please provide the number of person that bidder need to consider for the training	As per Tender.
700	CHAPTER-3	57	3.B.1	3.B.1 Architecture Overview In addition to robust, secure and scalable network architecture on railway stations, fully secure network architecture will be required on Cloud. This network will work as a platform for implementation of Video Management, Video Recording, Video Analytics and Facial Recognition System etc. on cloud as well.	Kindly provide more information on the Video Analytics as per the requirement.	Video Analytic is not covered under scope of this tender.
701	CHAPTER-3	57	3.B.1	3.B.4.3 IP surveillance solution for A1/A Type Railway Station A1/A Type Railway Station will have a local recording facility for at least 7 days. Moreover, system design should also support random monitoring through client applications from Recording facility available at Cloud.	Kindly clarify the cloud requirement for the video Storage	Cloud system is not covered in this Tender.
702	4.A.4	80	1	Delivery/Implementation timelines Successful bidder is required to complete the complete work as defined under SOR and Scope of work within 90 days from the date of issue of LoA/Lol.	Looking to the complexity of project, it is very difficult to execute the project within 90 Days, requested to extended the timeline upto 180 Days	As per Tender.

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703	4.A.3. Long Term Maintenance Support (AMC)	80	80	4.A.3.4 Bidder shall keep sufficient numbers of L1 Support engineer in Field for proper operation and support of the system and to maintain the SLA defined in the tender document. Bidder may also require to engage additional manpower on case to case basis for proper operation & support of the system. The bidder shall arrange the suitable replacement in case the assigned support engineer goes on leave or is unavailable due to any other reason to ensure uninterrupted support services. Bidder shall also keep one number L2 Support engineer 24x7 in each Regional HQ or as defined by RailTel/REL.	Is Bidder supposed to plan for L1 and L2 engineer at Long Term Maintenance Support Phase?? Please give clarity of 24X7 availability of L2 engineer; Does 24X7 means physical presence at normal business hours and thereafter remotely available OR it means 27X7 physically present Further, IS this requirement of 24X7 is applicable for L1 engineer also??	Clause is self explanatory.
704	SLA and Penalties	86	86	4.A.8 Service Level Agreement (SLA) and Penalties	It is requested to fix the maximum cap on the Penalties to the level of 10% of value of respective deliverable	As per Tender.
705	SLA and Penalties	87	87	4.A.8.10 No payment for the month would be made for the station where the station down time observed would be more than 20%.	Any reason to the satisfaction of the respective respective RGM/Executive Director of the region of such downtime; payment accordingly be made to the Bidder	As per Tender.
706	Insurance	91	91	4.A.10. Insurance	Bidder understand that, Bidder has to maintain the All risks insurance on the supplies up to the date of PAC; Thereafter, any kind of insurance has not to be availed or maintained by Bidders during following contract period	As per Tender.
707	4.A.11. Liquidated Damages	92	92	The timely delivery is the essence of this tender. Liquidated damages will be apply-cable at the rate of half percent per week or part thereof for undelivered portion of SOR subject to a maximum of 10% of the cost of Purchase order/LOA for any read-son whatsoever attributed to failure of bidder. RailTel will have the right to cancel the order, place order on alternative source besides levying the liquidated damages as above.	It is requested to restrict the amount of liquidated damages to maximum of 10% of the value of respective deliverable pending to be delivered	As per Tender.
708	CHAPTER 4, 4.A.14.1 Eligibility Criteria Requirements for Bidders,	94	5	Eligibility Criteria Requirements for Bidders:- Kindly amend the clause as: The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 31.39 Crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 22.99 Crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 26.84 Crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 35.91 Crores in last three financial years plus current year upto the date of opening of tender. <i>Note:-In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.</i> # Similar Work: Works entailing completion of Supply, Installation, Testing and Commissioning of a video surveillance project comprising of Integrated IP based cameras including remote monitoring and centralized monitoring of multiple locations, for central government or any state government or semi/quasi-government entities or Public Sector Units or private enterprises having turnover of at least 500 Crores.	Kindly amend the clause as: Eligibility Criteria Requirements for Bidders:- Kindly amend the clause as: The bidder should have completed I. Package I : Northern At least one similar work# worth of INR 31.39 Crores in last three financial years plus current year upto the date of opening of tender. II. Package II : Western At least one similar work# worth of INR 22.99 Crores in last three financial years plus current year upto the date of opening of tender. III. Package III: Eastern At least one similar work# worth of INR 26.84 Crores in last three financial years plus current year upto the date of opening of tender. IV. Package IV : Southern At least one similar work# worth of INR 35.91 Crores in last three financial years plus current year upto the date of opening of tender. <i>Note:-In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.</i> # Similar Work: Works entailing completion of Supply, Installation, Testing and Commissioning of Multi Locations System Integration Projects for central government or any state government or semi/quasi-government entities or Public Sector Units or private enterprises having turnover of at least 500 Crores.	As per Tender.
709	4.A.22. Earnest Money Deposit (EMD)/ Bid Security	101	101		It is requested to accepted the EMD in the form of Bank Guarantee both from Nationalised/ Scheduled Bank	As per Tender.
710	Settlement of Disputes	105	105	In case of any dispute concerning this order both the bidder and RailTel/REL shall try to settle the same amicably through mutual discussion/negotiations. Any unset-tled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.	It is suggested the replace the clause with following clause: In case of any dispute concerning this order both the bidder and RailTel/REL shall try to settle the same amicably through mutual discussion/negotiations. Any unset-tled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.	Please refer to point no. 12 of Corrigendum-VI.
711	4.A.32 Risk & Cost	105	105	If the contractor fails to deliver the equipment or honour the contractual commit-ment within the period fixed for such delivery in the contract, the Purchaser may terminate the LOA/ contract in whole or in part, the Purchaser may proceed to pur-chase, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered at no risk and cost to contractor. However, the security deposit of bidder shall be forfeited/ Performance Bank Guarantee shall be encashed. The failed bidder shall not be permitted to take part in the tender for balance work	In case of Risk and cost been purchased by the Contractor; In such case, EMD/PBG shall not forfeited/encashed. However, in case of risk purchase the contractor is allowed to negotiate on cost with incoming OEMs/Contractor	As per Tender.
712	Part A - System of requirement				Is bidder to suppose to change BoQ fixed in the RFP (wherever it is fixed) or it is not supposed to be changed at Bidder's end	Bidder to quote as per SOR.

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713	General Queries				1. Please suggest whether L1 and L2 engineers is required at Maintenance supervision period also?? 2. It is requested to accept the EMD/Bid Security/ Performance BG/ Fresh BG in the form of Bank Guarantee from Nationalised/ Scheduled Bank	As per Tender.
714	4.A.14.1.3	98		The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. cur- rent year and three previous financial years) from the date of opening of tender	Since system integrator is responsible for project execution, then why does OEM have to submit completion certificate? Proof of Supply, Inspection Certificates by designated authorities of Airports Authority, Railways (RDSO/RITES) should be acceptable in addition to existing points for fare participation. If resposibility of OEM is to be fixed for the entire project then the following clause may be added to ensure responsibility of OEM for entire project. "The OEM/ JV of OEM shall Guarantee the working of the entire system and incase the bidder fails to perform, the OEM will get the work executed on the bidders behalf"	As per Tender.
715	4.A.14.1.3	98		Eligibility Criteria Requirements for OEM's: The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. cur- rent year and three previous financial years) from the date of opening of tender	As IP Cameras OEM's make products globally for all countries, Railtel should consider projects in Railways or Airports of other countries as well. This condition restricts competition and favours the existing OEM who have captured the Indian market with their inferior products. It is surprising for Railtel to restrict competion by not allowing the global leading brands to participate. In addition, as switches will be depolyed at platform along with IP cameras, so we request you to consider same pre-qualification for IP Switches also. As switches are part of complete solution. The same parameters should be adopted for the Switches as proposed under : "The OEM(s) for proposed IP switches should have supplied for at least one pro-ject in a metro railways or airport in last 3 financial years for Video Surveillance application (i.e. current year and three previous financial years) from the date of opening of tender"	As per Tender.
716	4.A.14.1.3		(V)	In the event of Foreign Original Equipment Manufacturer (OEM), Indian Sub- sidiary or it's 100% subsidiary fully authorized for bidding on behalf of OEM is allowed to participate with the experience and financial credential of parent company with specific authorization for doing so from the OEM. The specific authorization addressed to RailTel should be submitted by the bidder.	RDSO revised specifications after over 5 years after extensive survey to ensure that latest global standards were implemented while ensuring maximum competition. The specification was upgraded only one year back. So any global brand which complies to the specifications set by RDSO should be encouraged to participate in the tender. Then why is Railtel attempting to limit the competition by requiring OEM to have 3 year performance in India? If the financial performance of OEM (greater than 1000 crores) is acceptable globally, then why are their technical performance globally for the same not acceptable to Railtel?	As per Tender.
717	8.8	205		8.8. Type-I Switch	In line with the defined Architecture mentioned at section 3.B.1 at page 57, the type-1 switches will be deployed at Platform for termination of IP Cameras. At platform, the outside temperature will in rage of 48C which may raisess to +10C to 12C (58- 60C)inside enclosure wherein switch will be installed. The switch which has been specified in tender is an enterprise grade switch of operating temperature 50C, which may fail to work and operate as their semiconductor has been designed to operate under maximum temperature of 50C only. If Switch malfunctions due to temepature, it will lead to unavailibilty of camera. In such scenario, the obojective of 24 hrs surveillance will never be achieved and will seriously impact the objective of overall investment. We hope, considering all these concerns only, in earlieir tender of VSS for four regions (RailTel/Tender/OT/CO/OP/2016-17/VSS-NR/359) Industrial Garde Type-1 & Type-2 switches were considered. We highly recommend to consider the same Type-1 & Type-2 switches for smooth operation of network.	As per Tender.

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718	8.7	195	14	Should have AC Power Supply 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.	Would request you to consider switch with AC/DC power supply.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
719	8.7	195	28	"OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR "OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	We believe that OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner for Type-IV switch have been considered to ensure quality product, proven & latest technology . We would like to highlight that Type-1, 2, & 3 are equally important as Type-4 as all are a part of same IP CCTV network. So, we request you to consider Type-1,2,& 3 from OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner as mandatory requirement.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
720	8.8	196	13	Should have AC power supply arrangement as given below in chassis without any external adaptors with internal redundant power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz.	Would request you to consider switch with AC/DC power supply.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
721	8.8	197	24	Switch should comply to following Temperature performance parameters : I) Operating Temperature - min -0 to 50 °C II) Storage Temperature - min -10 to 70 °C	In line with defend Architecture mentioned at section 3.B.1 at page 57, the type-2 switches will be deployed at Platform for aggregation of Type-1 switches. At platform, the outside temperature will in range of 48C which may raise to +10C to 12C (58- 60C) inside enclosure wherein switch will be installed. The switch which has been specified in tender is an enterprise grade switch of operating temperature 50C, which may fail to work and operate as their semiconductor has been designed to operate under maximum temperature of 50C only. If Switch malfunctions due to temperature, it will lead to unavailability of all the cameras attached the aggregated Type- switches. In such scenario, the objective of 24 hrs surveillance will never be achieved and will seriously impact the objective of overall investment. We hope, considering all these concerns only, in earlier tender of VSS for four regions (RailTel/Tender/OT/CO/OP/2016-17/VSS-NR/359) Industrial Grade Type-1 & Type-2 switches were considered. We highly recommend to consider the same Type-1 & Type-2 switches for smooth operation of network.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
722	8.9	207	28	"OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR "OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)	We believe that OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner for Type-IV switch have been considered to ensure quality product, proven & latest technology . We would like to highlight that Type-1, 2, & 3 are equally important as Type-4 as all are a part of same IP CCTV network. So, we request you to consider Type-1,2,& 3 from OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner as mandatory requirement.	Please refer revised Tender document uploaded vide Corrigendum-V dt. 24.11.17.
723	8.10	209	29	Switch should have SAFETY CERTIFICATE of UL. Switches should be EAL2/NDPP certified from common criteria.	If EAL2/NDPP has been considered for security, we request you to consider for all the components used in VSS network- IP camera, all switches, servers. Keeping it on just Type-3 & 4 will not bring any relevance. So, would request you to either consider EAL/NDPP on all components or relax on specifically mentioned Type-3 & 4 switches.	Please refer to point no. 15 of Corrigendum-VI.

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SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	RailTel Response
724	8.10	209	26	<p>"OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid"</p> <p>OR</p> <p>"OEM should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid)</p>	<p>We believe that OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner for Type-IV switch have been considered to ensure quality product, proven & latest technology.</p> <p>We would like to highlight that Type-1, 2, & 3 are equally important as Type-4 as all are a part of same IP CCTV network. So, we request you to consider Type-1,2,& 3 from OEM's which have been figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner as a mandatory requirement.</p>	As per Tender.
725	8.8,8.9,8.10	205		<p>Request for addition:</p> <p>SDN openflow v1.3 is an open standard for centralised management and ease of network operations. We highly recommend to consider SDN openflow v1.3 on all the switches (type-1,2,3,4). Please refer to mentioned link which shows that all leading OEM's are members of Openflow development.</p>	Would request you to consider Type-1,2,3,4 with open standard Open flow v1.3 support from day-1	As per Tender.
726	8.8	205		<p>"In line with defend Architecture mentioned at section 3.B.1 at page 57, the type-1 switches will be deployed at Platform for termination of IP Cameras. At platform, the outside temperature will be in range of 48C which may raise to +10C to 12C (58- 60C) inside enclosure wherein switch will be installed.</p> <p>The switch which has been specified in tender is an enterprise grade switch of operating temperature 50C, which may fail to work and operate as their semiconductor has been designed to operate under maximum temperature of 50C only.</p> <p>If Switch malfunctions due to temperature, it will lead to unavailability of camera. In such scenario, the objective of 24 hrs surveillance will never be achieved and will seriously impact the objective of overall investment.</p> <p>We hope, considering all these concerns only, in earlier tender of VSS for four regions (RailTel/Tender/OT/CO/OP/2016-17/VSS-NR/359) Industrial Grade Type-1 & Type-2 switches were considered. We highly recommend to consider the same Type-1 & Type-2 switches for smooth operation of network."</p>	The switches for Type 1 & 2 may be changed to earlier specifications laid down by Railtel, for Industrial grade switches for sturdy and consistent performance over next 8-9 years. The current switches are entry level switches and will affect the performance of the system and have a direct impact on the uptime.	As per Tender.
727	Additional Points			<p>The FRS and the Video Analytics need to be incorporated with this tender. Railtel has taken out four tenders for four zones, which may be divided in the ratio of 60-40. Thus Railtel may get 8 different solutions. As Railtel plans to float a separate tender for the cloud, the VMS which the bid winner would install may not integrate with 8 different brands. Thus a consolidated approach is required for the same. If the responsibility of VMS and FRS is clearly defined in the VSS tender, then the system integrators bidding would ensure not to bid with proprietary VMS which may be restricted to few OEM</p>		Video Analytic and Face Recognition system are not covered under scope of this tender.
728	Additional Points			<p>Technical center/ repair should be setup in India within a month of receiving the order. Several leading global OEM have not supplied to India due to severe competition by low end Chinese products (and Indian companies importing the same from China and Asia and assembling the same and selling as Made in India). These firms have significant market share due to lack of awareness by the customer and lack of well defined specifications to be complied with before purchase. Now even after a well defined specification has been drafted by RDSO, Railtel is preventing/restricting competition in the tender to promote existing brands mainly from China.</p>		As per Tender.
729					<p>If there is an immediate response management system required – what is the solution architecture? Will it include alerts on mobile to police, personnel, etc.,? Will it need to have hierarchy built into it for with division/ district/ railway station</p>	Not in the scope of this Tender.

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SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	RailTel Response
730					IntegraBon with Video management 4K/ UHD are all high resoluBon, how much hardware is required to install locally to manage such core hungry soluBons? (Recommendation from MicrosoC : We can work on an ROI / TCO to show this will be cheaper and scalable on the cloud for any short burst that is required – for example when the trains arrive and depart)	Not relevant to this Tender.
731					Do the PTZ type cameras enabled to listen as well see? If they can listen as well – RailTel may look at bundling – noise levels, including bullet noise etc., as an alert. (Recommendation from MicrosoC : Shouldn't this be a priority considering VT station massacre?)	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
732					When the RFP specify Tilt and ZOOM – for large areas – is there an expectation for a 360 degree view – is there a requirement for “sBtching”?	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
733		62			Control room monitoring cameras – in page 62 – Is the expectation is to control the camera movement manually 24/7 or this is supposed to be automatic? Makes a difference in the software solution that needs to be built	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
734		62	3.B.4.4		Page 62: banner: 3.B.4.4: Can the Service Providers connect this to the cloud for compress and archival?	Cloud system is not covered in this Tender.
735	4.A.14.1.3 Eligibility Criteria Requirements for OEM's:	98	2	The OEM(s) whose products have been offered in the bid should have a minimum cumulative turnover of INR1000 crores for OEM supplying camera, switch and INR5000 crores for OEMs supplying IT hardware (server and storage) in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender • Audited Financial Statements for the financial year 2014-15-, 2015-16, and 2016-17. Provisional balance sheet/Turnover Certificate duly certified by CA may be provided for year 2017-18 in case audited balance sheet is not available. • In case of multinational OEMs, their turnover in last three financial years shall be considered as per practice of financial year ending followed by them.	Please modify this clause. For this point it should be considered global turnover for VMS? And also turnover for VMS should be separate then Camera + VMS Turnover.	As per Tender.
736	4.A.14.1.3 Eligibility Criteria Requirements for OEM's:	98	3	The OEM(s) should be a profit making company and should have a positive net worth (Net Worth of the company would be computed as on 31st March 2017 as the summation of share capital, reserves and surpluses less accumulated losses held by the company).	Financial statement for India or HQ? Please confirm.	OEM's Networth is required.
737	CHAPTER- 4	98	4	The OEM(s) for proposed IP cameras and VMS Software should have supplied for at least one project in a metro railways, railways or airport or smart city projects in India in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender	As per tender each region is covering around 3900 cameras and since it is a big project so we suggest to add that OEM of VMS should have at least 10% (of asked cameras per region) i.e. approx. 400 IP Camera / VMS License installation experience successfully along with Railtel criteria. (else any player supplying only 1 camera or 1 VMS License also qualifies)	As per Tender.
738	CHAPTER- 2	12	PACKAGE I: NORTHERN, point 32	Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstations as quoted in Item no. A.3 along with as defined in clause 8.3 of chapter 8.	The number of client PC in northern region is 242 but number of stations under Northern region is 151 (page 159 of RFP). Kindly confirm whether the Client quantity is correct as client software is required in RPF Thana/ Chowki	Bidder to quote as per SOR.
739	CHAPTER- 2	20	PACKAGE II: WESTERN, point 32	Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstations as quoted in Item no. A.3 along with as defined in clause 8.3 of chapter 8.	The number of client PC in Western region is 174 but number of stations under Northern region is 103 (page 159 of RFP). Kindly confirm whether the Client quantity is correct as client software is required in RPF Thana/ Chowki	Bidder to quote as per SOR.
740	CHAPTER- 2	29	PACKAGE III: EASTERN, point 32	Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstations as quoted in Item no. A.3 along with as defined in clause 8.3 of chapter 8.	The number of client PC in Eastern region is 191 but number of stations under Northern region is 125 (page 159 of RFP). Kindly confirm whether the Client quantity is correct as client software is required in RPF Thana/ Chowki	Bidder to quote as per SOR.
741	CHAPTER- 2	37	PACKAGE IV: SOUTHERN, point 32	Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstations as quoted in Item no. A.3 along with as defined in clause 8.3 of chapter 8.	The number of client PC in Southern region is 265 but number of stations under Northern region is 173 (page 159 of RFP). Kindly confirm whether the Client quantity is correct as client software is required in RPF Thana/ Chowki	Bidder to quote as per SOR.
742	CHAPTER-3	50	3.A.1.4.8	Remote operation and monitoring of a cluster of stations from RPF Thana/Chowkis through the RailTel/Railways TCP/IP network. Bidder is required to plan sufficient number of VMS/NMS licenses, IT equipments to facilitate the same. Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF Chowki.	As per the clause no. 3.A.1.4.8 only viewing and monitoring is required at RPF Thana/Chowkis and all VMS and recording servers are placed at local stations. but as per RDSO there has to be recording , management and monitoring in RPF Thana/ Chowki. So kindly clarify if its required in both the places.	Bidder to quote as per SOR.
743	CHAPTER-2	12	35	Supply of Storage System for recording at station/RPF/GRP Chowki/ Thana/Post with all accessories required for installation purposes as defined in clause 8.4 of chapter 8.	As per tender BOQ Item no. 35 a) b) and c) Pg 12, station wise storage mentioned is ONE. So i will the same Storage be used for Edge device and recording server(VMS)each at station. Please confirm (same enquiry for Eastern, Western and southern regions)	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
744	CHAPTER-8	219	8.21	Edge device : As per RDSO Specification of IP Based Video Surveillance System Specification no. RDSO/ SPN/ TC /65/2016 Revision 4.0 or latest with all amendments.	Here also VMS license has to be considered for buffering or achieving the said requirement. Kindly confirm.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
745	CHAPTER- 2	12	PACKAGE I: NORTHERN, point 31	Supply, Installation, Testing and commissioning of Video Management System software (Video Management Software & Video Recording Software) (per camera basis) for the server hardware as supplied against item no. A.33 as defined in clause 8.3 of chapter 8.	Kindly confirm whether these VMS licenses are for local stations or for RPF Thana/Chowkis. (same enquiry for Eastern, Western and southern regions)	Bidder to quote as per SOR.

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746	CHAPTER- 3	32	3.B.4.4	Each station will have setup for video management & recording of cameras provisioned on the station. The video feed from the cameras shall be stored for 7 days at Station/RPF/GRP Thana/Chowkis.	As per our understanding RPF Thana/ Chowkis is a cluster of stations means stations and RPF Thana/Chowkis are separate entities for different roles. Kindly confirm whether 7 days separate recording required at stations and 7 days separate recording required at RPF Thana/Chowkis. Please clarify.	Please refer to point no. 2 & 4 of Corrigendum-VI.
747	CHAPTER- 3	62	-	A robust security layer will be there on these locations in form of next generation firewall and IPS combination. All RPF users will have restricted access to these systems for monitoring and playback stream through firewall and IPS. All 3 rd party users who may access these systems via internet on some specific occasions on incidents will make a secure VPN connectivity to access these systems and will have time bound and restricted access to these systems.	As Cyber security threat is common these days and it have been observed in past that many IP based security network have been hacked. With Cloud or centralized architecture it is more essential for the Video management software application to be more secured. We suggest to consider that software should comply that all client to server and server to server communications compressed and encrypted and connection specific key should be 256 bit AES and data encryption should be 256 bit AES	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
748	Chapter 8-(8.6 PC Worksta;on) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 and 25 of RDSO Document	S. No. X:-	Power Supply	Since Tender IT & Network equipments covered in Tender are asked to be supplied with redundant power supplies , but worksta;on as a product does not cover any specifica;on about redundancy required for Power Supplies. Since the worksta;on product is meant to run 24 x 7 with no shu*ng down provision and with no auxilliary unit available in solu;on designed thus it is absolute necessary to have redundant power supply provision else the opera;onal hassles may lead to frequent down ;me. Kindly Clarify.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
749	Chapter 8- (8.2 Server)- Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	204 of Railtel Tender and Page 21 of RDSO Document		S.No.XII- Interface Type :	We request you to please Clarify – have you asked for dedicated port for interface type for connecting external storage device and LAN/Ethernet respectively.	Separate dedicated port.
750	Chapter 8- (8.2 Server)- Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	204 of Railtel Tender and Page 21 of RDSO Document		S.No. IV) Frequency	We request you to please Clarify - Does frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency .	Base Frequency.
751	Chapter 8- (8.2 Server)- Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	204 of Railtel Tender and Page 22 of RDSO Document		S.No. XIV- RAID Controller :	Since RAID Controller is explicitly asked in tender kindly clarify whether Hardware RAID Controller is only acceptable or S/W defined RAID can also be offered.	Hardware Raid Controller is defined in RDSO specs.
752	Chapter 8- (8.2 Server)- Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	204 of Railtel Tender and Page 21 of RDSO Document		LAN/Ethernet	Since Remote Management with KVM over LAN functionality is a basic requirement of Server Systems to allow users have remote access kindly add dedicated IPMI port with KVM over LAN functionality which is missing in tender specifications.	Please refer to point no. 11 of Corrigendum-VI.
753	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document		S.No. X :- Hard Disk Drive	Since Tender asks for SAS Hard Drives but no information is provided regarding drive bays type kindly clarify whether HOT SWAP drive bays are required.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
754	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document		S.No. X :- Hard Disk Drive	We request you to please Clarify how many minimum hard drive bays are required considering any possibility to add additional hard drive in future for augmentation purpose.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
755	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document		S.No.XI- RAID Controller	Since RAID Controller is explicitly asked in tender kindly clarify whether Hardware RAID Controller is only acceptable or S/W defined RAID can also be offered	Hardware Raid Controller is defined in RDSO specs.
756	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 24 of RDSO Document		S.No. IV) Frequency-	We request you to please Clarify whether frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency	Base Frequency.

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757	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 Revision 4.0	205 of Railtel Tender and Page 25 of RDSO Document		S.No.IX – Graphics Card	We request you to please Clarify whether Professional Series Graphics Card only is acceptable or consumer grade graphics card can also be supplied. At one place only Tesla/Quadro series or better graphics cards are mentioned in tender thus we would like to clarify whether this is explicitly applicable to workstations product category as well.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments. Since, the Graphic Card shall be installed in the PC workstation being used for monitoring of Video feeds from the camera 24x7, therefore, bidder should ensure that the offered item is meeting the 24x7 operation requirement duly vetted by respective OEM.
758	Chapter 8-(8.6 PC Workstation) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment NoSpecification no. RDSO/SPN/TC/65/2016 REVISION 4.0	205 of Railtel Tender and Page 25 of RDSO Document		S.No. X -: Hard Disk Drive	Since 450GB Capacity based SAS 10K RPM Hard Drives are either end of life or with very limited future roadmap which may lead to support related issues at a later stage , thus in order to have unambiguous specifications kindly consider 600GB SAS 10K RPM Hard drives or higher.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
759	Chapter 8-(8.21 Edge Device) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment RDSO/SPN/TC/65/2016 Revision 4.0. Ammendment No. 1	205 of Railtel Tender and Page 5/9 of RDSO Document- Ammendment no. 1		S.No. III) Frequency	We request you to please Clarify whether frequency parameter asked in tender refers to BASE FREQUENCY of processor or Turbo frequency . Can Turbo Frequency be considered to meet the specifications.	Base Frequency.
760	Chapter 8-(8.21 Edge Device) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment RDSO/SPN/TC/65/2016 Revision 4.0. Ammendment No. 1	205 of Railtel Tender and Page 5/9 of RDSO Document- Ammendment no. 1		S.No. IX) Hard Disk Drive	Since the Edge Device is only meant for streaming the data with storage planned only for temporary storage we suggest please consider 2TB as the Hard Drive Capacity instead of 4TB which can be an over kill and lead to unnecessary expense for Govt and will remain unused at all the time.	As per RDSO specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 or latest with all Amendments.
761	Chapter 8-(8.21 Edge Device) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment RDSO/SPN/TC/65/2016 Revision 4.0. Ammendment No. 1	205 of Railtel Tender and Page 5/9 of RDSO Document- Ammendment no. 1		S.No. vi) Hardware Platform	Since edge device asked in tender is a small form factor based portable device thus it is important to specify in tender that it must be mounted on rear side of the display monitor so as to avoid any theft or unwanted use of the device.	Ultra Compact Form Factor (UCCF) in the range of 4"x4" or similar. Refer to 20 Corrigendum-VI.
762	Chapter 8-(8.21 Edge Device) Corrigendum V-Tender No. - RailTel/Tender/OT/CO/P/2017-18/VSS/403, Clause 8.2 - Reference RDSO Amendment RDSO/SPN/TC/65/2016 Revision 4.0. Ammendment No. 1	205 of Railtel Tender and Page 5/9 of RDSO Document- Ammendment no. 1		S.No. vi) Hard ware Platform	Since form factor permitted by RAILTEL is not specified , for edge devices or mini PC ideally the form factor is decided by the Volume of the chassis . Kindly Clarify maximum volume of the chassis is 0.7 Litre or 0.75 Litre?	Ultra Compact Form Factor (UCCF) in the range of 4"x4" or similar. Refer to 20 Corrigendum-VI.
763	8.18 & 8.19	217 & 218 (1kva & 2kva UPS)	1	Input Voltage range shall be mentioned as this is missing in the RFP	It shall be 80 to 280Vac for 50 to 100% load Remarks: This feature will help to maximise the battery life as the UPS will work without utilising batteries upto 80Vac for 50% load	As per Tender.
764	8.18	217 & 218 (1kva & 2kva UPS)	4	Display - LED/LCD	It shall be made LCD mandatorily. Remarks:LCD gives better local monitoring & in turn help in better uptime. It is available with all reputed UPS OEM	As per Tender.
765	8.18	217 & 218 (1kva & 2kva UPS)	14(1kva) /16(2kva)	AC-ACEfficiency - 85%	It shall be 90% or more Remarks: This is standard feature in all reputed make of UPS System.	As per Tender.
766	8.18	217 & 218 (1kva & 2kva UPS)	17(1kva) & 16(2kva)	EPO	This is standard feature of all Higher Kva UPS Systems Remarks: It shall be deleted as non-standard feature & all OEM doesnot have this feature upto 3kva UPSs	As per Tender.
767	8.18	217 & 218 (1kva & 2kva UPS)	24-C(1kva) & 23-D(2kva)	Tel Line Surge Protection	This is a feature earlier used with OFFLINE UPS to protect Fax Machines or Landline Phonelines Remarks: It shall be deleted as non-standard feature & all OEM doesnot have this feature upto 3kva UPSs	As per Tender.
768	8.18	217 & 218 (1kva & 2kva UPS)	25-B & 24-B	Safety	EN Remarks: EN doesnot signifies anything. CE certificate for the UPS shall be included	As per Tender.