

RailTel response to Pre-bid queries: VSS Tender (no. RailTel/Tender/OT/CO/P/2017-18/VSS/432)

SN	Section No.	Page No.	Point No.	Content of RFP Requiring Clarification	Points of clarification required	Query raised by	RailTel Response
1	2	8	SOR HEAD I	SCHEDULE 'A'	9U Rack Qty. is not mentioned in the SOR.Please clarify.	SSTL	Please refer SOR Head-I item no. 6(e) and 6 (f) of packages.
2	2	39	IV	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 type of material i.e Active/passive can be utilized from the Wi-Fi infrastructure and the tentative items that can be utilized from Wi-Fi infrastructure.	SSTL	Clause is self explanatory. Bidder is required to quote quantity as per SOR.
3	2	41	XVII	Rack Space at Datacenters and associated charges: RailTel will provide Racks at Gurugram and Hyderabad datacenter for hosting VSS Cloud infrastructure as defined in the tender. Bidders are requested to optimize the number of racks requirement in the datac	Please clarify the in which head the data centre rack cost will be taken and the number of years the cost will be added ass per clause the Rack cost will taken as /Annum/Rack.	SSTL	Please see the corrigendum. All clarifications are given there.
4	3.A.1.	48	3.A.1.6	The bidder shall be responsible for transportation and storage of Equipment and all other items required for Installation and Commissioning of the network to RailTel's stores/sites as advised.	Please Clarify whether Railtel/Railway will provide store room at each station for storage of Material during I&C period.	SSTL	Bidder is required to arrange their own store for the same.
5	3.A.1.	50	3.A.1.10	To provide professional training and development services at each stage of the project viz. installation, testing, operation and maintenance	Please clarify the training location is centralized or need to provide at different locations in a region.	SSTL	Centralized as well as distributed locations such as Stations, Region HQ, RPF Chowkis etc. as per requirement.
6	3.A.1.	51	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 Supervision after issue of PAC and after issue of Final Acceptance Certificate (FAC).	Can bidder apply for Station wise PAC or need to apply for all stations in one go.	SSTL	Please refer tender clause 3.D.7 (Provisional Acceptance Certificate).
7	3.B.2	54		A 12 core fiber cable will start from this termination point of 2 cores of 12 core cable at aggregation location and connect each access switch location on that platform in ring topology physically and star topology logically.	Please clarify that Fiber cable & UTP cable can be layed through same PVC Pipe or seprate PVC pipe will be used for fiber & utp cables.	SSTL	Same may be used.
8	3.B.2	54		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 connectivi	Please clarify that how many ports will be left in each access switch for further expansion of the system as there is no guideline for expansion.	SSTL	Bidder to quote quantity of switches as per SOR.
9	3.B.3	55	3.B.3.1	Network Design for A1 Type stations	Please clarify the connectivity type i.e. ethernet or fiber for common Areas, ticket Counter etc and also please specify the payment method of the same.	SSTL	Please refer clause 3.A.1.4.2 of Chapter-3.
10	3.B.2	54-55		4 sq.mm 3 core power cables will also be drawn from this UPS systems to each access switch location.	In Diagram 2.5 Sqmm Cable mention.Please clarify.	SSTL	Dimension of cable in typical diagram are indicative in nature, bidder to quote as per SOR.
11	3.B.2	54-55		A 12 core fiber cable will start from 24 port FDMS/LIU towards each platform and will ter-minate to same 24 port FDMS/LIU on same location after completing a physical ring of ca-ble. First 2 cores of this 12 core fiber cable will be terminated at aggregat	In Diagram 24 Core Fibre Cable mention. Please clarify	SSTL	Dimension of cable in typical diagram are indicative in nature, bidder to quote as per SOR.

12	3.B.2 & 3.B.3.1	54-55		<p>3.B.2 Further, IP Cameras will connect on CAT-6 STP cables to these access switches to provide video service</p> <p>3.B.3.1 Further IP Surveillance Cameras, Wi-Fi Access Points and Information Display Units will connect on Cat5e/Cat6 UTP cables</p>	Please clarify Type of Cable required for Switch To IP Camera Connectivity. As CAT-6 STP & Cat5e/Cat6 UTP cables are mentioned.	SSTL	STP CAT-6 will be used for Switch to Camera Connectivity. Please also refer SOR Head-I Item no.7 of packages where STP CAT-6 has been asked.
13	3.B.8	64-65	3.B.8.2	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 Camera installed nearby wherein Panic Switch is in the Field of View of the Camera.	Specific Location/Minimum-Maximum Distance / for Installation of Panic Switch.	SSTL	This shall as per approved site plan. Please refer tender clause 3.A.1.4.2 of Chapter-3.
14	3.D.3	70	3.D.3.3	On arrival of such cleared equipment in India, sample tests covering only visual and functional parameters shall be undertaken by RDSO.	Please clarify that all equipment will undergo Visual & Functional Parameter test by RDSO.	SSTL	Please refer Annexure-V of Chapter-7 for inspection procedure.
15	3.D.5.	71	3.D.5.	A list of Pre-Commissioning tests (same as approved by the Purchaser/Engineer for site acceptance testing) and activities shall be prepared by bidder and the test shall be carried out by the bidder on his own. After the tests have been conducted to the bi	Please clarify the Site Acceptance Testing will be offered to Zonal Level or at Station Level or Regional level.	SSTL	Please refer tender clause 3.D.6 (Site Acceptance Test).
16	4.A.4	80-81	4.A.4.1	The first phase of deliverable also includes a Pilot and only after approval from the Indian Railways/RailTel, bidder shall be allowed to implement the solution further.	Please clarify the approval Timeline on further phase target depend upon Phase 1 Approval.	SSTL	Nominal time shall be taken for approval. However, if there is a delay on account of approval, same shall be looked into by Competent Authority.
17	4.A.4.6	83	4.A.4.6.1	Submission of Design Document for proposed video surveillance system indication all the components of the Edge infrastructure of VSS system including cameras, servers, Video Recording & Processing Units, switches, etc. for RailTel's approval	Time line for approval as delay may impact on next phase target date.completion Target.	SSTL	Nominal time shall be taken for approval. However, if there is a delay on account of approval, same shall be looked into by Competent Authority.
18	4.A.14	94-95	4.A.14.1 , Sl. No.1	<p>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 manufacture for supply for this work.</p> <p>or</p> <p>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.</p>	<p>There is clause in tender defining Similar Work as " Works entailing completion of Supply, Installation, Testing and Commissioning of a project in the field of Security/IT/Telecom hence</p> <p>We request that Clause "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" may be mended as</p> <p>"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/ Telecom Business for the last three years"</p>	SSTL	Clause as per tender/corrigendum prevails.
19	4.A.14	95	4.A.14.1 , Sl. No.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 up to the date of opening of tender.	<p>We request that clause may be mended to</p> <p>"The bidder should have received a minimum cumulative contract amount/ Annual Turnover from the Security/IT/Telecom business in the last three financial years plus current year up to the date of opening of tender.</p>	SSTL	Clause as per tender/corrigendum prevails.

20	4.A.14	96	4.A.14.1 , Sl. No.4	<p>The bidder should have a positive net worth (Net Worth of the company would be computed as on 31st March 2018 as the summation of share capital, reserves and surpluses less accumulated losses held by the company)Note:- In case of Consortia/JV, Net worth</p>	<p>1. Majority of Telecom Companies are non- profit making due to stiff Competition , which impacts their Positive Networth .</p> <p>2. The large companies applying Ind -AS accounting standard is classifying the promotor preference capital as financial liability and therefore making net worth as negative in certain cases</p> <p>3. The criteria of paid up capital is more appropriate along with liquidity condition to access the financial ability of company to perform contract</p> <p>It may please be appreciated that Companies has made huge investment and execute large scale project , Hence Companies capability should not be doubted upon and following Points in regards to network may please be considered .</p> <p>a. The criteria of paid up capital of 500 Crore should be considered</p> <p>or</p> <p>b. Credentials of Parent Company should be considered while computing Net worth .</p>	SSTL	Clause as per tender/corrigendum prevails.
21	4.A.15	96	4.A.14.1 , Sl. No.5	<p>The bidder should have completed</p> <p>II. Package II : Western</p> <p>a.) At least one similar work# worth of INR 47.63 crores in last three financial years plus current year up to the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 27.22 Crores</p>	<p>We may request in Pre- Bid that Telecom Business experience has been allowed in Similar work experience hence Deployments made by Telecom Service Provider for their captive use may be considered for Fulfillment and Balance sheet of past 3 years depicting Plant and machinery under tangible assets may be treated as supporting document</p> <p>Credentials of Group company should be considered for qualifying fulfillment of this criteria</p>	SSTL	Clause as per tender/corrigendum prevails.
22	8.18.	231	2	<p>Video Recording & Processing Unit shall be installed at each Platform/Station and shall have Software for Video Management, Video Recording and Analytics as defined in Tender Clause 8.3. In case of MPLS/IP Network Connectivity failure, Video Stream and Alarms would be stored locally at the Video Recording & Pro-cessing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the sys-tem operations.</p>	<p>Please clarify that the Software for Video Management, Video Recording and Analytics is required at each Platform or Station or RPF Thana Chowki.</p>	SSTL	Please refer to tender/ corrigendum which will prevail and is clear.
23	8.3	211	8.3.2.3.1.3	<p>The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF/Div. HQ (Control Room)/others.</p>	<p>Please specify whether only 4k UHD cameras to be used for FRS or feed from other lower resolution cameras will be used for FRS as well</p>	IDEMIA	Clause is self explanatory.
24	8.3	211	8.3.2.3.1.3	<p>The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF/Div. HQ (Control Room)/others.</p>	<p>Please specify bandwidth, format and resolution of feed from camera at each station to cluster.</p>	IDEMIA	Please refer tender clause 8.3.2.3 along with corrigendum.
25	8.3	211	8.3.2.3.1.3	<p>The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF/Div. HQ (Control Room)/others.</p>	<p>Please specify bandwidth, format and resolution of feed from video recorder to FRS Server.</p>	IDEMIA	Clause is self explanatory.

26	8.3	211	8.3.2.3.1.3	The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF/Div. HQ (Control Room)/others.	Please specify bandwidth available from FRS Server to FRS workstation	IDEMIA	FRS matching server and Workstation both are Co-located at RPF/GRP Thana/Post in the same local network.
27	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify how many watch list needs to be supported at central and cluster level. It will help in designing the solution and server sizing.	IDEMIA	Please refer clause 8.3.1.1.3 of Chapter-8 & RDSO specs.
28	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify maximum size of watch lists.	IDEMIA	As per RDSO Specification.
29	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify whether cluster watchlist will be same as central watchlist or central watchlist will accumulate watchlists created at cluster level.	IDEMIA	Please refer clause 8.3.1.1.3 of Chapter-8 & RDSO specs..
30	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify will the watchlist be created at central level and then pushed to each cluster OR it can be created/amended at cluster level too and then synchronized with central and from central to other clusters	IDEMIA	Clause as per tender/corrigendum prevails.
31	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify will it be allowed to delete images from watch list at cluster level. Because this will be synchronized with Central watchlist and thereafter with all cluster level watch lists. This could create a security issue if someone tampers with watch lists at cluster level. If some or all images of watchlist at cluster level are deleted, after synchronization, the images will be deleted from central and other clusters watchlists as well. It is recommended to allow deletion of images from central watch list only	IDEMIA	Clause as per tender/corrigendum prevails.
32	8.3	209	8.3.1.1.3	Bidder to propose Database server for Facial Recognition system in High Availability (HA) mode in RailTel Datacenter.	Please specify if FRS will be installed in both DC or DR to manage watchlists and alerts.	IDEMIA	Database server for FR shall be hosted in RailTel Datacenter in HA mode (Gurugram/Secunderabad) for each Region.
33	8.3	209	8.3.1.1.3	Bidder to propose Database server for Facial Recognition system in High Availability (HA) mode in RailTel Datacenter.	Please specify what will be the redundancy ratio for FRS in HA mode in DC	IDEMIA	Clause is self explanatory.
34	8.3	209	8.3.1.1.3	Bidder to propose Database server for Facial Recognition system in High Availability (HA) mode in RailTel Datacenter.	Please specify what will be the redundancy ratio for FRS in HA mode in DR	IDEMIA	Database server for FR shall be hosted in RailTel Datacenter in HA mode (Gurugram/Secunderabad) for each Region.
35	8.3	209	8.3.1.1.3	Bidder to propose Database server for Facial Recognition system in High Availability (HA) mode in RailTel Datacenter.	Please specify if HA configuration of FRS servers is required in both DC and DR OR HA should be considered as primary server in DC and redundant in DR	IDEMIA	Database server for FR shall be hosted in RailTel Datacenter in HA mode (Gurugram/Secunderabad) for each Region.

36	8.3	209	8.3.1.1.3	Bidder to propose Database server for Facial Recognition system in High Availability (HA) mode in RailTel Datacenter.	Please specify what will be the alerts and watchlist synchronization schedule between DC and DR servers	IDEMIA	Database server for FR shall be hosted in RailTel Datacenter in HA mode (Gurugram/Secunderabad) for each Region.
37	8.3	208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design parameters	Please share FRS will be installed on how many clusters.	IDEMIA	All 552 clusters. Please refer tender clause 8.3 of Chapter-8.
38	8.3	208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design parameters	Please share the distance between stations and RPF/GRP Thana/Post cluster location for each cluster where FRS will be installed	IDEMIA	The list of stations is being uploaded with corrigendum. May please take distances as per stations which varies from one to other station.
39	8.3	208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design parameters	Please share the list of cluster wise stations with category to calculate number of cameras per cluster.	IDEMIA	The list of stations is being uploaded with corrigendum.

40	8.3	208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design param-eters	Please specify the number of users to be supported by FRS server at each cluster and at central level	IDEMIA	As per RDSO Specifications and solution requirement of offered solution.
41	8.3	211	8.3.2.3.1.3	The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF/Div. HQ (Control Room)/others.	Please specify if it is required to integrate and send alarms from FRS to VMS	IDEMIA	Yes.
42	8.3	211	8.3.2.3.1.3	The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF/Div. HQ (Control Room)/others.	Please specify what are the other designated clients	IDEMIA	Other could be clients at Command and control center, stations etc. Bidder is required to ensure sufficient numbers of client licenses as per solution requirement.
43			Clause No. 19.25 (b): RDSO Specs FRS	Face recognition shall have false negative identification Rate (FNIR) with Rank-1, shall be less than or equal to 10% in passenger gate dataset type (Semi Non- cooperative) with N=480 and less than or equal to 70% with high near field of view criteria in sports Arena dataset type (Non-cooperative) with N= 480 of latest NIST report (Face in video Evaluation).	Above-mentioned point is specifically favoring specific FRS OEM . There are other vendors also who have participated in “Face in Video Evaluation (FIVE) Face Recognition of Non-Cooperative Subjects” and the report was published in March 2017.The report is publically available.But by specifically putting this one test out of so many tests in complete NIST report, is just favouring vendor and is not allowing other vendors to participate. Ideally, Overall NIST Report results should be considered.Such a requirement to have one specific algorithms match the criteria is favoring just 1 vendor and is not vendor neutral.	IDEMIA	As per RDSO Specification.
44	8.14.1	221	5.1	Solution must be capable of passively gathering information about network	NGFW sits at perimeter hence it is difficult to keep a watch on endpoints –hence request to amend this specific point to not include end points	SONICWALL	NFGW is not proposed at Thana/post in corrigendum-2 but only at DC & DR.
45	8.14	222	5.16	Solution should support the capability to configure the access policy on the basis of IP Address, User ID/Group, VLAN, Network, Objects, Device type, Location, Ports, Protocols, etc.	Various ways to write access control policy – e.g IP address, userID/Group, VLAN , network objects , Port /Protocol are enough to have stringent access control, device can be an optional component. Request to make device type as optional for access control Policy.	SONICWALL	NFGW is not proposed at Thana/post in corrigendum but only at DC & DR.

46	Chapter-2 - Schedule of requirement : PACKAGE-I: NORTHERN REGION - Schedule A	9	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, 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. 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."	Tritronics	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.
47	Chapter-2 - Schedule of requirement : PACKAGE-II: WESTERN Schedule A	17	2 (b)			Tritronics	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.
48	Chapter-2 - Schedule of requirement : PACKAGE-III: EASTERN Schedule A	24	2 (b)			Tritronics	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.
49	Chapter-2 - Schedule of requirement : PACKAGE-IV: SOUTHERN - Schedule A	32	2 (b)			Tritronics	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.
50	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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	Tritronics	Clause as per tender/corrigendum prevails.
51	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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.	Tritronics	Corrigendum uploaded.

52	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 1KVA- S. No.-7	Output Power factor - 0.8 or better	It is requested to kindly amend the clause to read as " Output Factor - 0.7 Lag ", which is as per industry standards	Tritronics	Clause as per tender/corrigendum prevails.
53	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 1KVA- S. No.-9	Frequency (output) - 50Hz/60Hz frequency	Kindly amend Output Frequency to 50Hz (± 0.5%) as 60 Hz is not relevant for Indian Power Conditions.	Tritronics	Corrigendum uploaded.
54	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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.	Tritronics	Corrigendum uploaded.
55	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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.	Tritronics	Corrigendum uploaded.
56	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 1KVA - S. No.-21	Port - USB	USB/ RS 232 may kindly be allowed.	Tritronics	Clause as per tender/corrigendum prevails.

57	Chapter-8 - Technical, Functional Requirements & Specifications	227 & 228	8.16.1. 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.	Tritronics	Clause as per tender/corrigendum prevails.
58	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.1. 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 s	Tritronics	Corrigendum uploaded.
59	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.1. 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 UP	Tritronics	Clause as per tender/corrigendum prevails.
60	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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	Tritronics	Clause as per tender/corrigendum prevails.

61	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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.	Tritronics	Corrigendum uploaded.
62	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 UPS 2KVA: S. No.-7	Output Power factor - 0.8 or better	It is requested to kindly amend the clause to read as " Output Factor - 0.7 Lag ", which is as per industry standards	Tritronics	Clause as per tender/corrigendum prevails.
63	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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.	Tritronics	Corrigendum uploaded.
64	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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.	Tritronics	Corrigendum uploaded.

65	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 UPS 2KVA: S. No.-20	Port - USB	USB/ RS 232 may kindly be allowed.	Tritronics	Clause as per tender/corrigendum prevails.
66	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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.	Tritronics	Clause as per tender/corrigendum prevails.
67	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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.	Tritronics	Clause as per tender/corrigendum prevails.
68	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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.	Tritronics	Corrigendum uploaded.

69	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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 .	Tritronics	Clause as per tender/corrigendum prevails.
70	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis:	2 x 10 KVA connected in parallel redundant mode in separate chasis	Two UPS in Hot standby (1+1) configuration is most suitable & result in considerable cost saving with redundancy & may be considered if appropriate.	Tritronics	As per tender.
71	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-1	Capacity - 10000VA/9000 W	It is requested to kindly amend the clause to read as 10 KVA/ 7000W i.e. Output Factor - 0.7 Lag, which is as per industry standards	Tritronics	As per tender.
72	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-5	Voltage Range - 305-470 VAC (3-phase) @ 100% load	It is requested to kindly amend the clause to read as: "Input Voltage Range - 330V AC-460V AC" which is as per industry standards & covers the voltage variation issues prevalent in Indian Sub Continent.	Tritronics	Corrigendum uploaded.

73	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-16 & 17	Output Frequency @ Line mode - 46 ~ 54 Hz @50Hz system Output Frequency@ Battery mode - 46 ~ 54 Hz @50Hz system	Output frequency from 47-53 Hz as per Indian industrial standards in sync. Mode. On battery mode it should be 50 Hz \pm 0.5 Hz. Hence, it is requested to kindly amend the same accordingly.	Tritronics	Corrigendum uploaded.
74	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-18	Frequency Converter Mode (CVCF) - 50/60Hz	It should be an optional feature. All Online double conversion UPS works as 50 Hz frequency independent mode.	Tritronics	Corrigendum uploaded.
75	Chapter-8 - Technical, Functional Requirements & Specifications	230	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-28	Battery backup - 2 Hrs. on full load with each UPS System	It is requested to kindly specify Minimum VAH capacity. This will provide common platform to all prospective bidders. "Suggested Minimum VAH: 24000 VAH " with each UPS. Also, warranty on batteries may be specified for 2 years being a consumable item.	Tritronics	Clause as per tender/corrigendum prevails.
76	Chapter-8 - Technical, Functional Requirements & Specifications	230	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-39,40,41	ESD - IEC/EN61000-4-2 Level 4 or equivalent BIS/IS standard Safety - IEC/EN62040-1-1 or equivalent BIS/IS standard Leakage Current - IEC/EN62040-1-1 or equivalent BIS/IS standard	It is requested that this should be considered as either IEC/ BIS/ CE certification of UPS because all certifications is related to safety of the system.	Tritronics	Clause as per tender/corrigendum prevails.

77	4.A.14.1.3 Eligibility Criteria Requirements for OEM's:	Page 101-102	Point 4	<p>The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport etc. in India or abroad in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for at least six (6) months.</p> <p>PO copies along with satisfactory completion certificates from the User Organizations is required to be submitted</p>	<p>Since the end clients like Railways,Airport etc. generally not give any declaration directly to OEMs as they interact with System Integrators as there main contractor is System Integrators and not OEMs.</p> <p>Kindly accept satisfactory letters from SI with supply inspection certificate/Factory acceptance test from RDSO/AAI etc.</p>	Mirasys	Clause as per tender/corrigendum prevails.
78	8.3.2. Functional and Technical Requirement 3.B.7 Architecture of VSS system for stations	Page 210 Page 64	<p>8.3.2.1 General Below is the tentative VSS architecture for system to be deployed at Stations: 3.B.7 Architecture of VSS system for stations</p>	<p>☑ Proposed solution has to provide seamless recording/ Playback of all cameras for last 30 days at any given point of time at the RPF/GRP Thana/Post. The recording and playback availability should not be affected in case of failure of any server at RPF/GRP Thana/Post. The Recordings of last 30 days should be available through redundant server(s) in case of a server failure.</p> <p>Below is the tentative VSS architecture for system to be deployed at Stations(Page 64)</p>	<p>Both the statements are contradictory. There is no failover mentioned at RPF chowki/thana architecture(page 54) and on page 210 there is recording of last 30 days availability through redundant server(s) in case of a server failure asked.</p> <p>Kindly clarify whether we need to consider the failover at RPF/GRP Thana/Posts. if yes then what should be the failover configuration N:1 or N:N or 10:1.</p>	Mirasys	There is no contradiction in statement. Architecture shown at Page no. 64 is tentative. Bidder is required to quote as per SOR and solution requirement as defined under clause 8.3 of chapter-8 of tender document.
79	PACKAGE IV: SOUTHERN	Page 35	SOR HEAD I: IP BASED VIDEO SURVEILLANCE WORK AT STATIONS	iii. For Category F stations	Kindly Clarify What is the role of Category F station as it is not discussed in tender anywhere.	Mirasys	Category F stations are not covered under scope of this tender. Please refer amendment.

80	PACKAG E II: WESTER N PACKAG E III: EASTERN PACKAG E IV: SOUTHE RN	Page 19 Page 27 Page 35	SOR HEAD I: IP BASED VIDEO SURVEILLA NCE WORK AT STATIONS	i. For Category C (Sub-urban) plat-forms ii. For Category C (others), D and E stations	In tender BOQ Category C (Sub-urban) and Category C (others) mentioned but not discussed anywhere in the tender. Kindly Clarify What is difference between Category C (suburban) and C (others).	Mirasys	There is no difference in terms of camera count, network topolgy and VSS architecture.
81	CHAPTER 8	Page 209 Page 169	8.3.1. 2 Server and Storage System sizing	Approximate number of cameras considered across 6124 Railway Stations are 89844 units. Refer Chapter-7 Annexure-I for station category,Region wise camera breakup.	In this clause total cameras are 89844 however as per BOQ and total station and number of cameras per station calculations (page 169) it is coming different. i. As per this clause it is 89844 ii. As per BOQ it is 89845 iii. As per calculation with number of cameras per station and total stations it is 90114 Kindly clarify.	Mirasys	Bidder to quote quantity of cameras as per SOR.
82	CHAPTER 2 SCHEDUL E OF REQUIRE MENT PACKAG E I : NORTHE RN REGION	Page 11	PACKAGE I : NORTHERN REGION	5. Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstation as quoted in Item no. A.2(b) along with as defined in clause 8.3 of chapter 8.	Are the Divisional HQ Clients are included in this BOQ item of NR? Same query for WR,ER and SR.	Mirasys	Bidder to quote as per SOR.

83	CHAPTER 8	Page 209	8.3.1.1 General Parameters	8.3.1.1.2 Bidder to propose server(s) as Video Management servers with 1:1 redundancy (HA mode) in RailTel Datacenter.	One of the roles of management server is to manage the failover functionality by receiving the signal from recorder server of failure and giving the signals to failover servers to get active. As per design all the recording servers and Failover servers will be placed at RPF/GRP Thana/Posts and their management server will be at RailTel Data center. If any recording server gets fail and at that particular time if the MPLS connectivity is also down from that RPF/GRP Thana/Post to RailTel Datacenter then How can we achieve the failover as the Management will not get the alert for this failure?	Mirasys	Clause as per tender/corrigendum prevails.
84	CHAPTER 8	Page 211	8.3.2.3 Recording Parameters	(A) On Station collocated with RPF/GRP Thana/Post: (B) On other stations:	You are considering dual recording for station category C,D &E at RPF/GRP Thana/Post(with Failover) and stations itself on VRU(video recording and Processing Unit) however single recording for station category A1,A & B at RPF/GRP Thana/Post(with Failover). Kindly Clarify.	Mirasys	Clause is self explanatory.
85	CHAPTER 3	Page 60	3.B.3.6 Surveillanc e VPN on RailTel Backbone	IP Video Surveillance is traffic hungry and delay sensitive service. To ensure proper functioning of this project, network architecture must have features like Multicast VLAN Registration, IP SLA, Auto-QoS, Auto Ports configuration to detect end device type connected to port and configuring QoS automatically on basis of device. Network should have IPv4 and IPv6 port and time based access list with time ranges.	The VMS Software Should support ThruCast and MAX smooth Feature for bandwidth management. Kindly consider: IP Video Surveillance is traffic hungry and delay sensitive service. To ensure proper functioning of this project, network architecture must have features like Multicast VLAN Registration, ThruCast , MAX smooth feature , IP SLA, Auto-QoS, Auto Ports configuration to detect end device type connected to port and configuring QoS automatically on basis of device. Network should have IPv4 and IPv6 port and time based access list with time ranges.	Mirasys	Clause as per tender/corrigendum prevails.

86	CHAPTER-8	Page 208	8.3. Video Surveillance System (VSS) for Stations	This includes Video Management Software, Video Recording Software, Video Analytic Software, GUI Client Software, Facial Recognition System (FRS) etc. for IP based Video Surveillance at stations.	Kindly consider: This includes Video Management Software, Video Recording Software, Video Analytic Software, GUI Client Software, Facial Recognition System (FRS) etc. for IP based Video Surveillance at stations. Also the software platforms should be a certified partner of OS provider like Microsoft for tight integration and stability of the overall system.	Mirasys	Clause as per tender/corrigendum prevails.
87	CHAPTER-3	Page 59		3.B.3.6 Surveillance VPN on RailTel Backbone	Kindly consider: As Cyber security threat is common these days. We suggest to add the data encryption from server to server and server to client. The VMS software should have data encryption of 256 bit AES and video should export in SEF(Secured Export Format) with password protection of up to 20 alphanumeric characters.	Mirasys	Clause as per tender/corrigendum prevails.
88	8.16.1/2	227-228		Size-not more than 2U rack mountable	Please provide bidder size deviation of +/- 0.5U ,As Rack mount UPS OEMs sizes may vary	Eaton	Clause as per tender/corrigendum prevails.
89		227-228		1 Hrs. on full load (Single bank)	As per tender Battery Backup is demanded 1 Hour on full load, please confirm what kind of battery is required 1. Rack Mountable or Floor Mounted or 2. Installed in separate wall mounted cabinet. 3. how we are going to manage the security and safety of Batteries.if batteries are external please confirm rack type Open rack or closed cabinet Please specify VAH and Battery Makes	Eaton	Please refer to the tender/corrigendum
90		227-228		Communication-SNMP V1/V2	Please confirm SNMP to be part of offering or optional .Also suggest functionality required	Eaton	Tender clause is clear. It is not mentioned as optional. SNMP will be required for monitoring, management etc. from EMS.
91		NA		As per tender environmental operating conditions are not specified for the batteries	Please specify	Eaton	Bidder to propose batteries suitable for Railway stations environmental conditions and compatible with UPS.
92	8.16.3	229		As per tender 10 kVA UPS system requested for 3-Phase Input and 1-Phase Output, as output remains 1 Phase	can bidder supply 1-phase input and 1-Phase output system	Eaton	Clause as per tender/corrigendum prevails.
93		230		As per tender efficiency is demanded 90% for 3 phase input and 1 phase output,	if bidder provides 1-phase input and 1-phase output it is possible to achieve 95% efficiency. Can we modify tender specification.	Eaton	Clause as per tender/corrigendum prevails.

94	CHAPT ER- 3	77	Clause 3.A.1.4.1.1 2/13/14	<p>3.A.1.4.12 Maintenance supervision period of 12 months from the date of award of PAC of the RPF/GRP Thana/Post.</p> <p>3.A.1.4.13 Warranty period of 24 months from the date of expiry of maintenance supervision period of installed system at no cost to Railways/RailTel.</p> <p>3.A.1.4.14 AMC (including repair / replacement of all consumables) for 5 years after the completion of 24 months of warranty period.</p>	since warranty is required for 36 month which is further divided into 12 month supervision and 24 month warranty. Delay in PAC will add to the warranty cost. Any delay due to SNR will be borne by RAILTEL.	Netapp	Clause as per tender/corrigendum prevails.
95	CHAPT ER- 3	77	Clause 3.A.1.4.1.1 2/13/14	<p>3.A.1.4.12 Maintenance supervision period of 12 months from the date of award of PAC of the RPF/GRP Thana/Post.</p> <p>3.A.1.4.13 Warranty period of 24 months from the date of expiry of maintenance supervision period of installed system at no cost to Railways/RailTel.</p> <p>3.A.1.4.14 AMC (including repair / replacement of all consumables) for 5 years after the completion of 24 months of warranty period.</p>	since warranty is required for 36 month which is further divided into 12 month supervision and 24 month warranty. Delay in PAC will add to the warranty cost. Any delay due to SNR will be borne by RAILTEL.	Netapp	Clause as per tender/corrigendum prevails.
96	CHAPTE R- 4	106	4.A.24	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, Stor-ages, 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.	Please clarify whether Exchange Rate Variation (ERV) Clause would be applicable to this.	Netapp	This will be governed as per terms & conditions of RC tender.
97	CHAPTE R- 5	211	8.3.2.3.1.1	<p>(B) On other stations:</p> <p>i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265 and</p> <p>ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit.</p> <p>iii) One HD stream (@720P and @25FPS) from Full HD Camera on H.265 and</p> <p>iv) One FHD stream (@1080P and @15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.</p>	We may request you to kindly maintain the recording parameter similar to RPF Thana/Chowki to ensure that quality of image doesn't impact on the investigation once any breach is found after 7 days.	Netapp	Corrigendum uploaded.

98	CHAPTE R- 5	211	8.3.2.3.1.1	(B) On other stations: i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit. iii) One HD stream (@720P and @25FPS) from Full HD Camera on H.265 and iv) One FHD stream (@1080P and @15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.	Please clarify what percentage of compression need to be used?	Netapp	Clause is self explanatory.
99	Chapter- 4	113	4.A.45.	Preference to Domestic Manufacturers	Please whether this is as per DIPP/Miety Approved Products	Netapp	Tender clause is clear.
100	CHAPTE R- 2	11	SOR	Storage System for recording of alerts, alarms of cameras of analyt-ics and other applications require-ment as defined in clause 8.3 and 8.4 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Please clarify whether this storage would be used for EMS generated logs also, if yes then how long the logs to be maintained.	Netapp	Please refer to tender document/ corrigendum clause No. 8.3.1.1.5 which is clear in itself.
101	CHAPTE R- 2	11	SOR	Storage System for recording of alerts, alarms of cameras of analyt-ics and other applications require-ment as defined in clause 8.3 and 8.4 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Please clarify whether any redundancy need to be maintain to other datacentre by replicating this data.	Netapp	Clause as per tender/corrigendum prevails.
102	CHAPTE R- 2	11	SOR	Storage System for recording of alerts, alarms of cameras of analyt-ics and other applications require-ment as defined in clause 8.3 and 8.4 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Please clarify whether any redundancy need to be maintain to other datacentre by replicating this data.	Netapp	Clause as per tender/corrigendum prevails.
103	CHAPTE R- 2	11	SOR	Category A1, A & B Station	We understand these staions will not have full fledge DC hence any frequent components failure because of corrosion due to gaseous contamination need to looked by your goodoffice. As it leads to failure of Devices/Components.	Netapp	Design by bidder should be as per site environment. Maintenance as per tender clauses.
104	CHAPTE R- 2	11	SOR	Category C,D&E Station Distribution	Please provide the details of C,D&E station would fall under each category of A1, A, B for effective solution sizing.	Netapp	Tentative list of stations is being uploaded with the corrigendum.
105	CHAPTE R- 2	11	SOR		Please clarify whether information need to be provided if any additional compoent required to complete the solution which is not specified in the SOR	Netapp	Clause as per tender/corrigendum prevails. Please also refer to clause No. 3.A.1.11 also.

106	Section I	8	2 (a)	VSS Server Hardware and all accessories required for installation purposes for Video recording, Video Analytic and Facial Recognition system as defined in clause 8.2 and 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	i) Video Recording, Video analytics and Facial recognition are three different software and have different quantity requirements i.e. Not every camera have VA and/FR. So we suggest to split this line item in three sub parts.	Qognify	As per tender.
107	Section I	10	3 (a)	VSS Server Hardware for Video Management and Facial Recognition database system as defined in clause 8.2, 8.3 of chapter 8 and all accessories required for installation purposes. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	So we understand that each region will have independent management system, and this line item is for servers required in regional headquarter. please confirm.	Qognify	Each Region will have their own Video Management System and Facial Recognition Database system installed at RailTel Datacenter.
108	Section I	11	4	Supply, Installation, Testing and commissioning of software (per camera basis) for Video management, Video recording, Video Analytic and Facial Recognition system for the server hardware quoted in Item no. A.2(a) as defined in clause 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	i) Video management, Video analytics and Facial recognition are three different software and have different quantity requirements i.e. Not every camera have VA and/FR. So we suggest to split this line item in three sub parts. ii) Discription says the license has to be per camera basis, however quantity mentioned is of number of clusters? We suggest to consider it on per camera basis as the breakup of licenses to various clusters can be done even before implementation.	Qognify	As per tender.
109		41	XIX	Central Command control center has been provisioned in Northern Region package. Therefore, all successful bidder of other packages are required to share API of their quoted VMS to ensure integration with central command and control center to achieve desired functionality as mentioned in the tender document.	i) Can you please confirm which line items in Northern region package belong to said provisioned Commanad and Control Center? ii) Please provide the detailed functional specification of Command and Control Center software.	Qognify	Please refer SOR Head-II item no.3 of Northern Package and tender clause 8.26 of Chapter-8.
110		41	XX	Bidder may also propose a software based Digital Key-Board (joystick) against SOR Head-I, 2 (c) of packages without any loss in the functionality and performance of the system.	What does this mean? Every VMS provide onscreen control for PTZ, however hardware keyboard provides completely different experience and can not be compaired. We suggest to delete this clause or delete Joystick line item for BOQ to keep the clarity.	Qognify	Please refer tender document/ corrigendum which will prevail.

111		41	XVII	<p>Rack Space at Datacenters and associated charges:</p> <p>RailTel will provide Racks at Gurugram and Hyderabad datacenter for hosting VSS Cloud infrastructure as defined in the tender. Bidders are requested to optimize the number of racks requirement in the datacenters.</p> <p>Rack requirements shall be associated with cost and bidder will be charged INR 8 Lacks/annum/rack for their rack requirements. The Bidder must provide rack space requirements in their technical offer keeping load available on each rack ($\leq 5\text{KVA}$) for the complete solution (for DC & DR) for all components like Server, Switching, Routers, Storage etc.</p>	<p>We understand that this point relates to hosting of servers/storage mentioned in BOQ line no. 3 of all regions. However please clarify whether every component in DC need to be replicated in DR? If so, where it is captured in BOQ? Line item 3 looks to be considering BOQ for DC only?</p>	Qognify	Only EMS will be replicated in DC and DR.
112		63	3.B.7	<p>Proposed solution has to provide seamless recording/ Playback of all cameras for last 30 days at any given point of time at the RPF/GRP thana/Post. The recording and playback availability should not be affected in case of failure of any server at RPF/GRP Thana/Post. The Recordings of last 30 days should be available through redundant server(s) in case of a server failure.</p>	<p>Redundant recording will also double the storage requirement. As we understand videos are already being recorded at every station Video recording and processing unit (for 7 days), it act as a redundant recording already. Generally If there is any critical incident, it will come to the notice within 7 days. So please reconsider the redundant recording requirement ar RPF/GRP thana/post which will double the overall server as well as storage cost.</p>	Qognify	Clause as per tender/corrigendum prevails.
113		167, 168,1 69	Chapter 7	<p>Total camera quantity mismatch</p>	<p>If we calculate the total number of Fixed bullet cameras from BOQ of four region it comes to 72182, however we calculate the same from various tables given on page 167, 168 and 169 it comes to 72451 causing a difference of 269 cameras. Can you please cross check are correct accordingly.</p>	Qognify	Bidder to quote quantity of cameras as per SOR.

114		208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network.	i) Please provide the list of 552 cluster locations along with other details i.e. Station name, Railway, Division, category of station etc.. Also provide the information about how many stations of which category will be connected each of these 552 cluster locations. This information is very important as we have to estimate the server, storage, Video processing unit quantities accordingly. ii) As per our understanding there wont be any video recording and processor unit on these 552 locations, and videos of these station will record only on local RFP/GRP thana servers-storage. please confirm.	Qognify	The tentative list of all stations is also being uploaded with the corrigendum
115	Section I	209	8.3.1.1.5	Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/marked video data by RPF/GRP personnel for longer retention, FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days, Audit trail logs, application data etc. as per solution requirement and sizing as per SOR.	i) Datacenter need to keep only the metadata of flagged/marked video, FRS & VA alerts across all the stations or the actual videos associated with it as well? Please note moving videos for all such events to central datacenter will be huge process. Also, it will be a big task to decide which video need to be deleted and who will decide to delete it finally, else central storage will be full very soon. ii)What is mean by RailTel region?	Qognify	1. Clause is self explanatory. 2. RailTel has invited tender in four packages i.e. Northern Region, Western Region, Eastern Region and Southern Region.
116	Section I	209	8.3.1.2	Video feed from cameras of group of stations (cluster) shall be stored in external storage for 30 days on H.265 at RPF/GRP Thana/Post.	H.265 being a heavily compressed video, it saves a bit on storage requirements. However on the other side it pose lot of challenges on decoding on client stations as the client machines can decode much less H.265 streams compaired to H.264. Most of the analytics solutions are also not yet proven on H.265 compressed videos as it lose lot of details within the image during compression. In order to run analytics on H.265 streams even servers will need to have too costly Graphics cards (CUDA). So we request to keep it H.264 which is proven solution for last few years and is in line with RDSO specifications.	Qognify	Please refer to the corrigendum Both H.264/H.265 may be used in line with RDSO Specification.

117	Section I	209	8.3.1.2	At each such cluster i.e. RPF/GRP Thana/Post location, bidder to size storage, server requirement and propose a single server considering recording of 200 FHD cameras, analytics on 40 cameras, FRS with local matching capability with the watchlist database on up to 8 cameras stream at each RPF/GRP Thana/Post locations without any impact on the performance of the system and overall solution requirement.	It will not be practical to record 200 cameras, analytics as well as FRS on a single server, please consider revising the clause.	Qognify	Clause as per tender if read full is clear and prevails.
118	Section I	209	8.3.1.2	Bidder to also propose a redundant server per RPF/GRP Thana/Post location to ensure uninterrupted services as mentioned in above para in case of failure of main server.	i) Does this mean we need to have Redundant (1:1) recorder servers or N:1 ? ii) Redundant servers shall have storage for 30 days or 7 days is acceptable?	Qognify	Cluase is self explanatory. Bidder to propose Redundant server(s) to ensure uninterrupted services i.e. Recording, Analytics and FRS) at RPF/GRP Thana/Post in case of faiture of main server(s) in N:1.
119	Section I	211	8.3.2.3.1.1 (A) & (B)	(A) On Station collocated with RPF/GRP Thana/Post: i) One Full HD stream (@1080P and@25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and@ 15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.	H.265 being a heavily compressed video, it saves a bit on storage requirements. However on the other side it pose lot of challenges on decoding on client stations as the client machines can decode much less H.265 streams compaired to H.264. Most of the analytics solutions are also not yet proven on H.265 compressed videos as it lose lot of details within the image during compression. In order to run analytics on H.265 streams even servers will need to have too costly Graphics cards (CUDA). So we request to keep it H.264 which is proven solution for last few years.	Qognify	Please refer to corrigendum
120	Section I	211	8.3.2.3.1.1 B	On other stations: i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit.	As per this requirement One stream will be configured with HD1080P & HD720P and 4K & HD1080P for Full HD and 4K camera respectively. However video analytics and Face recognition software generally require 4CIF stream for processing. So we request to modify this requirement as HD1080P & 4CIF and 4K & 4CIF for Full HD and 4K camera respectively.	Qognify	Clause as per tender and corrigendum prevails.

121	Section I	211	8.3.2.3.1.1 B	<p>On other stations: i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265</p> <p>and ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit.</p> <p>iii) One HD stream (@720P and @25FPS) from Full HD Camera on H.265 and iv) One FHD stream (@1080P and @15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.</p>	<p>i) As we understand from 8.1.3.2 RPF thana server and storage shall be sized for 200 cameras, similarly is there any sizing requirement for Video recording and processing unit. ii) As per this clause only HD720 & HD1080P stream shall be recorded from other stations to RFP/GRP thana server/storage for Full HD and 4K cameras respectively, however as per RDSO all the recordings shall be Full HD and 4K resolution, please confirm what should be considered? iii) If we have to go with HD720P and HD1080P recording for other stations cameras on RPF/GRP thana, do we need to calculate storage ourself or need to follow RDSO clause no. 2.8 ?</p>	Qognify	<p>Clause is self explanatory. Numbers of cameras to be deployed at C, D and E category stations have been defined in the tender document. Please refer Chapter-7 and corrigendum.</p>
122	Section I	231	8.18.2	<p>Video Recording & Processing Unit shall be installed at each platform/station and shall have Software for Video Management, Video Recording and Analytics as defined in Tender Clause 8.3. In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.</p>	<p>i) As per the architecture explained above management servers will be at Regional HQ, whereas Thana/RPF will have recording and analytics infrastructure. So, alarms can be transferred to central management on realtime basis as there is no local management servers which can hold this data. Alarm management is an activity carried by management servers. So, request to reconsider the requirement of sending alarm data to HQ post network reconnection. ii)</p>	Qognify	<p>Please refer to the tender/ corrigendum condition which are self explanatory.</p>
123	Section I	231	8.18.5	<p>Bidder to propose single unit hardware on each platform/station of Railway Station to achieve the functionalities as defined above.</p>	<p>It will not be advisable to load analytics application on platform/station units considering the processing power limitations of such edge devices. Non availability of analytics for a brief period of network failure will not have much impact on overall utility of the surveillance system, however if this load affects the performance of edge devices, it will impact the system functioning irrespective of failures.</p>	Qognify	<p>As per tender.</p>

124		60	3.B.3.6	IP Video Surveillance is traffic hungry and delay sensitive service. To ensure proper functioning of this project, network architecture must have features like Multicast VLAN Registration, IP SLA, Auto-QoS, Auto Ports configuration to detect end device type connected to port and configuring QoS automatically on basis of device.	Please confirm that backbone network provided by Railtel will support Multicast communications across the stations/DHQ/National HQ etc. and configuration of the same will be in RAILTEL scope.	Qognify	Configuration requirement of RailTel Backbone network will be under RailTel scope only.
125	RDSO Specification		2.8 (Amendment No. 1.0)	In case implementation is done as per Diagram-2, Video data and Alarms shall be stored for at least 30 days (7 days where Cloud is connected) at RPF/GRP Thana/Posts.	As per this clause of RDSO we need to do recording for only 7 days in RPF/GRP Thana if cloud is connected. However as per our understanding of the tender requirement, we need to record for 7 days at every remote station (No local RPF/GRP) on edge device and for 30 days on servers on stations with RPF/GRP thana. Please confirm this is correct and will supersede RDSO.	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications).
126	RDSO Specification		2.8 (Amendment No. 1.0)	The approximate storage capacities per Camera with H.264 Video Compression shall be as under	i) Should this be considered as minimum benchmark for storage sizing requirement? ii) As per RDSO clause 4.2.2 amendment 1, bandwidth for 4K shall be less than 3 times (8Mbps) than Full HD (3Mbps) camera. However the storage requirement for 4K is shown 4 times than Full HD. So, can you please confirm 4TB shall be considered or should be calculated as per 8Mbps bandwidth (Less than 3TB)?	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications).
127	RDSO Specification and RAILTEL Tender		3.6 (Amendment No. 1.0), 18.1.2 and 8.18.1 of RAILTEL Tender	Vendors shall have option to quote either Server based solution or NVR based solution in accordance with Clause no. 10.0 and Clause no. 12.0 for Video Management and Video Recording or a combination of both the solutions for both the implementation schemes as per Diagram-1 & Diagram-2. Software capabilities and Storage capacities shall be same for both the solutions. AND "The network video management software shall be licensed and shall operate on open architecture and shall require no proprietary IT hardware". And "Bidder to propose an Open (Non-proprietary) hardware-based unit to be installed at Stations."	As per RAILTEL tender requirement all the hardware is supposed to be Non-proprietary which will supersede the RDSO clause NVR. So we consider that proprietary NVR based solution will not be accepted. Please confirm.	Qognify	As per main tender document & corrigendums. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.

128	RDSO Specification and RAILTEL Tender		3.9 (Amendment No. 1.0) and 8.3.1.2 of RAILTEL tender	<p>A failover Server/NVR shall be provided at Stations under Scheme-1 and at RPF/GRP Thana/Posts under Scheme-2. Failover system shall support defined number of Servers/NVRs in N : 1 configuration (Value of N to be specified by the purchaser). The failover Server/NVR shall take over the operation smoothly without any impact on the operation. For data stored and computed at Cloud, the Cloud shall provide failover system for protection of data and operation.</p> <p>AND</p> <p>Bidder to also propose a redundant server per RPF/GRP Thana/Post location to ensure uninterrupted services as mentioned in above para in case of failure of main server.</p>	<p>i) RDSO clause further demand N:1 failover, RAILTEL tender clause further ask for Redundant server. Please note Redundant and Failover are two different functionalities. Please confirm you need Failover or Redundant? Also note Station cameras are already getting recorded in local video processing unit, then it also get recorded in RPF/GRP thana. Do we really need to provide third layer of recording? ii) We consider the CLOUD here as a RAILTEL datacenter in Gurgaon and Hyderabad and the management application installed in Gurgaon should have Hyderabad as a Failover. Please confirm.</p>	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.
129	RDSO Specification		4.2.3 (Amendment No. 1.0)	<p>The Edge Devices shall be capable of buffering the Video data and Alarms to its internal storage when connection to the MPLS/ IP network is temporarily unavailable. When the network recovers, the data on Edge devices shall automatically be transferred to the Server/NVR installed at respective RPF/GRP Thana/Post without any impact on the system operations.</p>	<p>Backfilling of lost video data to recording server is managed through Camera Edge recording (SD card recording) and does not have any role of Edge Devices. So we consider the same is acceptable as functional requirement is still met.</p>	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.
130	RDSO Specification		4.2.5 Amendment no. 1	<p>Server/NVR for Video management and Video Recording shall be provided at RPF/GRP Thana/Post for viewing, monitoring and recording of cameras aggregated from cluster of stations. The Video and Alarm data of minimum 30 days (7 days where Cloud is connected) shall be stored at RPF/GRP Thana/Post. The Video and Alarms of selected cameras/locations shall also be accessible to Divisional HQ/any other centralized location or other clients through MPLS/ IP network as per requirement of purchaser for monitoring and viewing.</p>	<p>i) In contradiction to this clause, from RAILTEL document clause no. 8.3.2.3.1.1 (A) & (B) we need to record for 30 days on RFP/GRP thana even though cloud is in use. So, we understand that the expected architecture is mixture of Diagram 1 and Diagram 2. Please confirm the understanding is correct. ii) Cloud (Gurgaon/Hyderabad datacenter) will not have any video recording, and will only have management databases and event related exported video clips. Please confirm the understandings are correct.</p>	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.

131	RDSO Specification		4.2.8 Amendment no. 1	Video Analytics and Face Recognition System & Storage 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. All Video data and alarms generated by Video Analytics and Face Recognition Software at the Cloud shall be available at RPF/GRP Thana/Posts and Divisional HQ/ any other centralized location or any other clients through Cloud.	AS per our understanding from BOQ line item. 2 a and 3 a, VA and FRS processing will happen locally at RPF/GRP thana and only metadata will be sent to management servers in datacenter. Please confirm this is correct understanding?	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.
132	RDSO Specification		4.2.10 Amendment no. 1	Edge Device shall have the following minimum specifications or otherwise as specified by the purchaser:-	In many cases RFP/GRP thana will be on A1/A type station, and will host the recording for nearby A, B,C,D & E stations. Type A, B, C and D have 60, 38 & 26 cameras respectively and further 10% spare capacity as per requirement. So, it will be a good solution to provision a single high configuration server on these locations with aircooled cabinets in equipment room rather than multiple devices on platforms. This will simplify installation, maintainance and physical security of the core processing component. Please allow such option.	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.
133	RDSO Specification		10.1.3.(c)	One Server each is required for Video Analytics for 32 nos. of cameras.	With some solutions VA can be managed within Video Recording servers without needing dedicated servers for the same. Also, as per clause no. 18.4.7 analytics can be at firmware level as well, which will avoid the server requirement. We consider that such optimization is acceptable as it is design based solution. Please confirm.	Qognify	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.

134	RDSO Specification		18.4.1 & 18.4.7 & 20.4 & 20.6 XVII	Possible applications of analytics software over the IP based video surveillance system, for specified number of cameras for specific stations, as defined by purchaser shall include the following minimum video analytics software. i) Intrusion Detection ii) Left Object Detection iii) Overcrowding iv) Camera Tampering	Please specify the quantity of analytics for each type of analytics for each type of station, so as we can quote accordingly. Considering the commercial weitage of the analytics licensing we strongly suggest to provide fixed quantity of analytics for each type of station which will ensure fair commercial evaluation.	Qognify	As per tender. Please refer clause 8.3.1.2 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.
135	SECTION I	55 to 60	3.B.3	3.B.3 Network Design for Different Type of Stations	As per SOR, there are 17373 numbers Type-I switch and 7180 numbers Type-II Switch. However, as per network design in the section 3.B.3, the count of Type I switch (40 for A1, 18 for A ,9 for B, 6 for C, 2 for D&E) is coming 20611 and Type-II switch (5 f	Cisco	Bidder to quote quantity of switches as per SOR.
136	SECTION I	171	3	3.0 Technical Support Service:-	Please confirm that the proposed solution should support 24x7x365 TAC Support from OEM and advanced Next business Day Hardware replacement	Cisco	As per tender.
137	SECTION I	208	8.2	8.2. Server 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 and as specified in tender document. Server Processor Cache : 20 MB	Instead of 20 MB Cache, We would recommend to have Latest Intel Processor CPU-4110 for 8 Core, 2.1 GHz Processor. (2.1 GHz 4110/85W 8C/11MB Cache/DDR4 2400MHz)	Cisco	As per tender/corrigendum.
138	SECTION I	212	8.8.2.3	Bidder to propose switch having Operating Temperature and Storage Temper-ature as per environmental requirement	We would recommend to mention the Temperature @ 50 DegreeC for Type-I Switch as per Environmental condition at Station platform	Cisco	As per tender.
139	SECTION I	212	8.8.1	RDSO Specifications 6.2.3 The LAN switch shall support minimum 4000 MAC address	We would recommend minimum 8000 MAC address, to connect the more devices in the LAN	Cisco	As per tender.
140	SECTION I	212	8.8.1	RDSO Specifications 6.2.4 The LAN switch shall have 255 IGMP groups	We would recommend minimum 512 Groups to support, multiple audi, Video and Data streams	Cisco	As per tender.
141	SECTION I	212	8.8.1	RDSO Specifications 7.4 7.4 The operating personnel shall be protected against shock hazards as per IS 8473 (1993) – Guide on the effects of current passing through the human body (equivalent to IEC publications 479 – 1984).	Kindly clarify that "RoHS including Directive 2011/65/EU" compliance is acceptable against this shock hazard requirement described in this clauses	Cisco	As per tender.

142	SECTION I	212	8.8	Type-I Switch IPv6 Feature	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Cisco	As per tender.
143	SECTION I	212	8.8	Type-I Switch	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted)	Cisco	As per tender.
144	SECTION I	212	8.9, Sr. no.. 1	Should have minimum 12 x GE SFP based ports.	To ensure future requirement , specifically in A1, A and B type stations, we would recommend to have at least 16 number of GE Fiber ports in Type-II Switch. Kindly clarify	Cisco	As per tender.
145	SECTION I	213	8.9, Sr. no. 23	Type-II Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Cisco	As per tender.
146	SECTION I	213	8.9, Sr. no. 25	Type-II Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR ii) should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be	"OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND ii) should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submit-ted) Th	Cisco	As per tender.
147	SECTION I	213	8.9, Sr. no. 19	Type-II Switch: Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Kindly clarify that to get standardized Metro Ethernet Features, CE2.0 certificate at the time of supply in Type-II Switch is mandatory requirement	Cisco	Clause as per tender/corrigendum prevails.
148	SECTION I	214	8.10, Sr. no. 4	Should have at least 88 Gbps switching fabric. Switches should have dedicated ports (other than asked uplink ports) for minimum 40 Gbps stacking band-width with necessary cables from day 1.	Kindly clarify Instead of 40 Gbps statcking Bandwidth, it should be 48 Gbps	Cisco	Clause as per tender/corrigendum prevails.
149	SECTION I	215	8.10, Sr. no. 22	Type-III Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Cisco	Clause as per tender/corrigendum prevails.

150	SECTION I	215	8.10, Sr. no. 26	Type-III Switch "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 submitt	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted)	Cisco	Clause as per tender/corrigendum prevails.
151	SECTION I	218	8.11, Sr. no. 17	Type-IV Switch: vi. IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Cisco	Clause as per tender/corrigendum prevails.
152	SECTION I	218	8.11, Sr. no. 18	Type-IVSwitch "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	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted)	Cisco	Clause as per tender/corrigendum prevails.
153	SECTION I	219	8.12, Sr. no. 21	DC Switch: Switch shall be IPv6 Certified/Ready.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Cisco	Clause as per tender/corrigendum prevails.
154	SECTION I	219	8.12, Sr. no. 23	DC Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR should have figured iin latest Gartner Report in field of Ethernet Switches"	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted)	Cisco	Clause as per tender/corrigendum prevails.
155	SECTION I	222	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	Cisco	Clause as per tender/corrigendum prevails.
156	SECTION I	223	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	Cisco	Clause as per tender/corrigendum prevails.

157	SECTION I	224	2.2	The appliance should have at least 8 * 1 GE and 8*10G ports from day one	To ensure that proposed solution meet the future growth by clustering multiple appliances together to increase overall throughput , please confirm whether the proposed appliance should support 6x40GE in future	Cisco	Clause as per tender/corrigendum prevails.
158	SECTION I	224	4.5	Firewall should have integrated redundant power supply without any external adaptors	Since this is a data centre Firewall, Please confirm, whether proposed appliance should support both PSU redundancy and FAN module redundancy along with hot swappable capability of both PSU and FAN from Day-1	Cisco	Clause as per tender/corrigendum prevails.
159	SECTION I	225	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	Cisco	Clause as per tender/corrigendum prevails.
160	SECTION I	225	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	Cisco	Clause as per tender/corrigendum prevails.
161	Chapter 3	49	3.A.1.7.1	Following is indicated in the Para: "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 existing Railways Norms".	Power supply connection has following charges :- 1.Power supply connection and including meter charges. 2. Power consumption charges It should be clarified if both or part is to be paid by the bidder over the entire service period.	TCIL	For doing work (initially), complete electricity charges (if electricity required to do the work), shall be payable by the bidder to Railways. However electric connection charges as well as consumption charges for running of the network is not to be payable by the bidder.
162	Chapter 4	96	4.A.14.1(S N:5)	Similar work experience(Technical capability): Completed work of similar nature of requisite value has been asked for each package.	There are very big projects of similar nature which are undertaking by TCIL. Such works have long duration of completion period. However, part completed work is morethan the requisite value of similar work experience which should be permissible.	TCIL	As per tender.
163	SECTION I	55 to 60	3.B.3	3.B.3 Network Design for Different Type of Stations	As per SOR, there are 17373 numbers Type-I switch and 7180 numbers Type-II Switch. However, as per network design in the section 3.B.3, the count of Type I switch (40 for A1, 18 for A ,9 for B, 6 for C, 2 for D&E) is coming 20611 and Type-II switch (5 f	Intec Infonet	Bidder to quote quantity of switches as per SOR.

164	SECTION I	171	3	3.0 Technical Support Service:-	Please confirm that the proposed solution should support 24x7x365 TAC Support from OEM and advanced Next business Day Hardware replacement	Intec Infonet	As per tender.
165	SECTION I	208	8.2	8.2. Server 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 and as specified in tender document. Server Processor Cache : 20 MB	Instead of 20 MB Cache, We would recommend to have Latest Intel Processor CPU-4110 for 8 Core, 2.1 GHz Processor. (2.1 GHz 4110/85W 8C/11MB Cache/DDR4 2400MHz)	Intec Infonet	As per tender.
166	SECTION I	212	8.8.2.3	Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement	We would recommend to mention the Temperature @ 50 DegreeC for Type-I Switch as per Environmental condition at Station platform	Intec Infonet	As per tender.
167	SECTION I	212	8.8.1	RDSO Specifications 6.2.3 The LAN switch shall support minimum 4000 MAC address	We would recommend minimum 8000 MAC address, to connect the more devices in the LAN	Intec Infonet	As per tender.
168	SECTION I	212	8.8.1	RDSO Specifications 6.2.4 The LAN switch shall have 255 IGMP groups	We would recommend minimum 512 Groups to support, multiple audio, Video and Data streams	Intec Infonet	As per tender.
169	SECTION I	212	8.8.1	RDSO Specifications 7.4 7.4 The operating personnel shall be protected against shock hazards as per IS 8473 (1993) – Guide on the effects of current passing through the human body (equivalent to IEC publications 479 – 1984).	Kindly clarify that "RoHS including Directive 2011/65/EU" compliance is acceptable against this shock hazard requirement described in this clause	Intec Infonet	As per tender.
170	SECTION I	212	8.8	Type-I Switch IPv6 Feature	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Intec Infonet	As per tender.
171	SECTION I	212	8.8	Type-I Switch	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify	Intec Infonet	As per tender.
172	SECTION I	212	8.9, Sr. no.. 1	Should have minimum 12 x GE SFP based ports.	To ensure future requirement, specifically in A1, A and B type stations, we would recommend to have at least 16 number of GE Fiber ports in Type-II Switch. Kindly clarify	Intec Infonet	As per tender.

173	SECTION I	213	8.9, Sr. no. 23	Type-II Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Intec Infonet	As per tender.
174	SECTION I	213	8.9, Sr. no. 25	Type-II Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR ii) 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 have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND ii) should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submit-ted) This will Help to get best class equipment from Industry.	Intec Infonet	As per tender/corrigendum.
175	SECTION I	213	8.9, Sr. no. 19	Type-II Switch: Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Kindly clarify that to get standardized Metro Ethernet Features, CE2.0 certificate at the time of supply in Type-II Switch is mandatory requirement	Intec Infonet	As per tender/corrigendum.
176	SECTION I	214	8.10, Sr. no. 4	Should have at least 88 Gbps switching fabric. Switches should have dedicated ports (other than asked uplink ports) for minimum 40 Gbps stacking band-width with necessary cables from day 1.	Kindly clarify Instead of 40 GBps statcking Bandwidth, it should be 48 Gbps	Intec Infonet	As per tender/corrigendum.
177	SECTION I	215	8.10, Sr. no. 22	Type-III Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Intec Infonet	As per tender.
178	SECTION I	215	8.10, Sr. no. 26	Type-III Switch "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)	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify	Intec Infonet	As per tender.
179	SECTION I	218	8.11, Sr. no. 17	Type-IV Switch: vi. IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Intec Infonet	As per tender.

180	SECTION I	218	8.11, Sr. no. 18	Type-IVSwitch "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)	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify)	Intec Infonet	As per tender.
181	SECTION I	219	8.12, Sr. no. 21	DC Switch: Switch shall be IPv6 Certified/Ready.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Intec Infonet	As per tender.
182	SECTION I	219	8.12, Sr. no. 23	DC Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR should have figured in latest Gartner Report in field of Ethernet Switches"	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify	Intec Infonet	As per tender.
183	SECTION I	222	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	Intec Infonet	As per tender.
184	SECTION I	223	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	Intec Infonet	As per tender.
185	SECTION I	224	2.2	The appliance should have at least 8 * 1 GE and 8*10G ports from day one	To ensure that proposed solution meet the future growth by clustering multiple appliances together to increase overall throughput , please confirm whether the proposed appliance should support 6x40GE in future	Intec Infonet	As per tender.
186	SECTION I	224	4.5	Firewall should have integrated redundant power supply without any external adaptors	Since this is a data centre Firewall, Please confirm, whether proposed appliance should support both PSU redundancy and FAN module redundancy along with hot swappable capability of both PSU and FAN from Day-1	Intec Infonet	As per tender.

187	SECTION I	225	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	Intec Infonet	As per tender.
188	SECTION I	225	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	Intec Infonet	As per tender.
189	Chapter - 3 Clause No : 4.A.48	RFP Page No : 117-118	Make In India	Bidder may note that their acceptance of the "Make in India" Clause described below is a mandatory requirement for considering the bidder eligible. The bidder is free to choose all products from either Indian Manufacturer or from Foreign Manufacturer. The	This Clause is contradictory to clause No : 4.A.45 (Domestic Manufacturur). PMA is required the manufacturing set up at the time of bidding. This can't be declare in future after award of contrat. Please ask to declare % of Make In India at the time of bid	ACER	Clause as per tender/corrigendum prevails.
190	RDSO/SPN/TC/65/2016 / Page No : 21-22 / Clause No : 10.1.1	Operating System	Server	Windows Operating System or Linux, latest with minimum 3 Client licenses	Linux doesn't have the client license however windows has client license. Hence we request you to remove the clent license from Linux.	ACER	Clause as per tender/corrigendum prevails.
191	RDSO/SPN/TC/65/2016 / Page No : 21-22 / Clause No : 10.1.1	Hard Disk Drive	Server	Hot Pluggable SAS HDD, 4x600 GB, 7200 RPM or higher with minimum 06 nos. or higher internal drive bays.	Please clarify whether 10K RPM is acceptable ?	ACER	Clause is self explanatory.
192	RDSO/SPN/TC/65/2016 / Page No : 21-22 / Clause No : 10.1.1	Graphic Card	Server	One no. GPU card of NVIDIA Tesla/Quadro series or AMD Fire pro or similar.	It is mandotry to provide graphic card?	ACER	Clause as per tender/corrigendum prevails.
193	RDSO/SPN/TC/65/2016 / Page No : 21-22 / Clause No : 11.2	Frequency	Workstation	2.4 GHz or higher	Please clarify whether lower clock speed and higher nos of core are allowed ?	ACER	As per tender.

194	RDSO/SPN/TC/65/2016 / Page No : 21-22 / Clause No : 11.2	Cache	Workstation	10 MB	We understand the 10 MB cache can be offered either through one processor or dual processor. Request you to clarify this.	ACER	As per tender
195	RDSO/SPN/TC/65/2016 / Page No : 21-22 / Clause No : 11.2	Operating System	Workstation	Windows Operating System or Linux, latest with minimum 3 Client licenses	Linux doesn't have the client license however windows has client license. Hence we request you to remove the client license from Linux.	ACER	As per tender.
196	RDSO/SPN/TC/65/2016 / Page No : 21-22 / Clause No : 11.2	Graphics Card	Workstation	One no. of dual Port 4 GB NVIDIA Graphic Card or better.	Please clarify whether this is mandatory or optional.	ACER	Clause is self explanatory.
197	RFP Page No : 106-107 / Clause No : 4.A.24.	For Micro and Small Enterprises (MSEs)		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 requirement	Please clarify whether this would be applicable at component level also.	ACER	Clause is self explanatory.
198	Open Tender Notice	3		The EMD will be payable by Bank Draft in favour of RailTel Corporation of India Limited, New Delhi.	a) As the amount of EMD is above INR 50 Lacs for each region, please allow bidders to submit EMD in form of Bank Guarantee also. b) Request you to share requisite format of Bank Guarantee for EMD.	HFCL	Clause is self explanatory. Request cant be considered.
199	Chapter 2	40	V	The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, Video Record-ing & Processing Unit , workstation, storage, large format display monitors, VMS Softwares including VA and FRS, switches (each Type sep	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	HFCL	Clause is self explanatory. Only swiches are exemption.
200	Chapter 3	48	3.A.1.14	AMC (including repair / replacement of all consumables) for 5 years after the completion of 24 months of warranty period.	Please remove the consumable from the bidder's scope as consumable is based on the usage and need to be clearly mentioned for cost calculation.	HFCL	Tender/ corrigendum clause shall prevail.
201	Chapter 3	49	3.A.1.7.1	The Executive Director/Regional General Manager of respective Region of RailTel would be the executing Officer Head of the project. The concerned RGM/ED shall nominate an officer as a SPOC for this project. The successful bidder would be taking all instru	Being vast geographical area, division wise contact details should be provided. Please provide organization matrix division wise.	HFCL	Please refer to chapter-3.A.1. More RailTel is divided into four regions and more details may be obtained from website where organisation chart is too available.

202	Chapter 3	49	3.A.1.7.9	Any land required by the bidder may be made available by Railways, if available, at the lease cost as per the latest norms of Railways.	Detail of necessary lease cost is required for costing purpose. Please explain the rationale behind the charges as this project is being executed by bidder in behalf of Railtel only for the railways. Also request you to please quantify the lease cost?	HFCL	Cost is different for different places and is as per Railway commercial rates. The cost is required to be paid for the requirement of the bidder only and not at required to be paid for ROW.
203	Chapter 3	50	3.A.1.9 b)	The bidder shall be fully responsible for Quality Assurance of equipment & other network elements and supervision of following:- b) Integration with existing network/system	For Design, BoQ finalization and compatibility purpose - Please provide the detail of existing network containing information of type of equipment's & interface details.	HFCL	The existing network of Railtel is standard MPLS network
204	Chapter 3	50	3.A.1.10.4	Continuous training and re-training - As and when required by RailTel	Kindly elaborate the term 'Continuous training'	HFCL	On field training to executives as and when required.
205	Chapter 3	51	3.A.1.4.11	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 Supervision after issue of PAC and after issue of Final Acceptance Certificate	Any delay due to dependance on customer, SI should not be penalised and payment should be released on SAT certificate after consultation with customer. Incase FAT is not possible because of any reason attributable to RailTel or Railway Authority, SAT should be considered for VSS Commissioning.	HFCL	Clause as per tender/ corrigendum shall prevail.
206	Chapter 3	68	3.D.1.	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 specified items, what will be the procedure of inspection to be done by Railtel.	HFCL	The clause is self explanatory. Procedure is same for RDSO as well as non RDSO inspection.
207	Chapter 4	81	4.A.4.1 4.A.4.2	The first phase of deliverable also includes a Pilot and only after approval from the Indian Railways/RailTel, bidder shall be allowed to implement the solution further. In case the Pilot is declared unsuccessful, either on the basis of delay in implementation	a) Pilot here should be described in detail. b) If a bidder is declared L1 in two or more regions, we understand Pilot in only one division of a region is required in such case. Please confirm.	HFCL	Pilot means first set of stations where the work is completed. "Pilot" shall be different for different regions of RailTel.
208	Chapter 4	112	4.A.36.5(b)	Part-II "Price Bid" Shall contain (i) the offer letter (ii) the price bid for "Schedule 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 "Creden	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.	HFCL	The part of the tender documents which are different for different regions such as SOR are required to be uploaded as separate though they shall be opened simultaneously (Part-I & II separately).
209	Chapter 4	122	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 are liable to be rejected	As Technical doc are also part of the 'CREDENTIAL BID', please clarify whether complete 'CREDENTIAL BID / TECHNICAL BID' need to be submitted offline or only few selected Eligibility criteria related documents (please specify) 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.	HFCL	Clause of the tender is clear.

210	Se-II Chapter 4	256	JOINTING AND TERMINATIO N OF FIBRE OPTIC CABLE	TECHNIQUE FOR JOINTING OF OPTICAL FIBRE CABLE	For optimisation of network, we understand that in railway premises, where digging is not possible fiber overhead laying could be considered. Please confirm.	HFCL	The works are required to be carried out as per feasibility which shall be as per the guidance of the "Engineer In-charge".
211	Chapter-4	113	4.A.45.	The provisions of the Public Procurement (Preference to Make in India) Order 2017 dated June 15, 2017 (and subsequent amendments, if any) by Department of Industrial Policy and Promotion, GoI shall apply to this tender to the extent feasible. The local ma	(a) Provisions of the Public Procurement (Preference to Make in India) Order 2017 dated June 15, 2017 apply to this tender. Kindly elaborate on the tender evaluation procedure that will be adopted in the events of bids containing different types and quantities of items seeking preference to make in India. For example in the following cases which bid will be considered fully compliant for preference under Make in India . (i) Bid containing all items under Make in India category as part of the proposal. (ii) Bid containing only 50% items under Make in India category as part of the proposal. (iii) Bid containing only 25% items under Make in India category as part of the proposal. (b) Also, confirmed which all items out of the total supplies sort under this tender will be considered for preference under Make in India . (c) We understand that the provenness and commercial business having been done criteria is exempt for items qualifying under Make in India . Kindly confirm	HFCL	Tender clauses are self explanatory.
212	Chapter-3	47	3.A.1.4.8	Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF/GRP Thana/Post	(a) Please specify how many such scenarios of extending fiber would be there (b) What would be the distance to be considered for this type of connectivity for design considerations	HFCL	Kindly refer to revised SOR. Item to be payable as per actual lengths of items.
213	Chapter-3	47	3.A.1.4.8	Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF/GRP Thana/Post	(a) Please specify how many such scenarios of extending fiber would be there (b) What would be the distance to be considered for this type of connectivity for design considerations	HFCL	Kindly refer to revised SOR. Item to be payable as per actual lengths of items.
214	Chapter-8	208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post	Stations per Cluster is not mentioned in the Tender	HFCL	The average Nos. of station/cluster is 12.
215	Chapter-8	209	8.3.1.2	Approximate number of cameras considered across 6124 Railway Stations are 89844 units. Refer Chapter-7 Annexure-I for station category, Region wise camera breakup	Please provide exact count of Platforms in each station.	HFCL	Please refer to tender clause 3.B.3
216	Chapter-8	230	8.18	Video Recording & Processing Unit for non RPF Stations	Please provide the details of Video Recording and Processing Unit at Station Level (Not mentioned in BOQ region wise.)	HFCL	Please refer to clause 6 (a) of all the packages/regions.

217	Chapter-8	209	8.3.1.2	At each such cluster i.e. RPF/GRP Thana/Post location, bidder to size storage, server requirement and propose a single server considering re-cording of 200 FHD cameras, analytics on 40 cameras, FRS with local matching capability with the watchlist databas	Please provide the details of Cameras count per Station for Sizing & Storage.	HFCL	Tender/ corrigendum clauses are clear and shall prevail.
218	Chapter-4	101	4.A.14.1.3	The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport etc. in India or abroad in last 3 financial years (i.e. cur-rent year and three previ	Please clarify on IP Camera and VMS Software can be from two different OEMs.	HFCL	Please refer to note-V on Page-40 of tender document
219	Chapter-8	211	8.3.2.3.1.1	On Station collocated with RPF/GRP Thana/Post:	Please specify the count of stations collocated with Thana per region.	HFCL	Tender/ corrigendum clauses are clear and shall prevail.
220	Chapter-3	47	3.A.1.4.8	Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF/GRP Thana/Post	(a) Please specify how many such scenrios of extending fiber would be there (b) What would be the distance to be considered for this type of connectivity for design considerations	HFCL	Please refer to the revised SOR where details are provided.
221	4.A.22	105	4.A.22.1	The bidder shall furnish a sum as given in Bid Data Sheet (BDS) Chapter 5 as Ear-nest Money in the form of Demand Draft from any scheduled bank in India in fa-vour of "RailTel Corporation of India Limited" payable at New Delhi which should remain valid fo	Request you to Kindly Consider EMD in the form of DD	Qess Corp	Clause as per tender/corrigendum prevails.
222	4.A.5	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/GRP Thana/Post of the cluster for CCTV at stations	Request you to kindly release the 15% payment of the value of items of Schedule – A on installation & commissioning at stations/sites including at the concerned RPF/GRP Thana/Post of the cluster for CCTV at stations	Qess Corp	Clause as per tender/corrigendum prevails.
223	4.A.5	83	4.A.5.1.3	5% payment on issue of Provision-al Acceptance Certificate (PAC) and the last 5% payment shall be made by Rail-Tel/REL on issue of Final Acceptance Certificate (FAC)	In the event of delay in issue of FAC due to reasons not attributable to the contractor, request you to kindly release the 5% Payment against equivalent BG valid up to the receipt of FAC	Qess Corp	As per tender.
224	4.A.5.1	84	4.A.5.1.3	For spares 15% + 5% will be made after issue of PAC of the first RPF/GRP Thana/Postfor CCTV at stations and remaining 5% on issue of FAC of the same	Request you to kindly release payment for Mandatory spares as below: 100% of Payment shall be made on delivery at site after requisite certifications	Qess Corp	As per tender.

225	3.A.1	51	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 Supervision after issue of PAC and after issue of Final Acceptance Certificate (FAC).	Taking over of stations & 12 months of supervision maintenance shall commence as and when the network infrastructure of station with necessary software applications, Computing & storage requirements are implemented at the respective GRP station. Necessary PAC & FAC for respective station as well as payment against the same shall be released after SAC & Trial run. This shall not be linked with commissioning of all cluster stations linked with GRP & monitoring of the stations from EMS at DC	Quess Corp	Clause as per tender/corrigendum prevails.
226	Chapter 2- Schedule of Requirement, Schedule A	8	1	SITC of IP Cameras at Stations	Since equipments like Surveillance Cameras, Switches are Unit Rate items, in the even of extension of platform length & thereby implementation of additional cameras on existing rates are required by the authority, the associated accessories for implementation will also vary based on the same. Thereby request you to add a line item for all necessary hardware accessories required for implementation per camera, which can be used to govern in the case of qty variation. Further Cost of storage & computing as required as shall be paid at mutually discussed and agreed rate	Quess Corp	Clause as per tender/corrigendums prevails.
227	3.A.1.7	49	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	Overall LT Power consumption shall be metered & paid by Railtel throughout the course of AMC since estimation of actual consumption at prevailing & possible revised tariff is a tedious task	Quess Corp	Clause is related to carrying out of the work during implementation phase only. Payment towards AC Power supply after installation of equipments is not under bidder scope.
228	Chapter=3, Proposed Architecture for VSS	54	3.B.1	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.	Request you to kindly share the tentative Layout, Station elevation covering all platforms & various rooms, parkings, Foot over Bridge etc for all station categories (A1, A, B, C, D, E) as well as tentative distances of nearest POP to the stations. This is a necessity to arrive at all necessary quantity, cost of Fiber and other accessories for implementation	Quess Corp	The tentative list of all stations is also being uploaded with the corrigendum. Bidders can assess the work of the stations.
229	3.A.1.7	49		Site Preparation	Request you to kindly share the detailed List of all Railway stations across various regions demarcating against A1, A, B, C, D,E categories covered under this project to undertake sample site surveys	Quess Corp	The tentative list of all stations is also being uploaded with the corrigendum. Bidders can assess the work of the stations.

230	3.A.1.7	49		Site Preparation	Request you to kindly provide the detailed lists of all GRPs, RPF Offices of all the regions along with cluster of stations of various categories (A1, A, B.C.D,E) coming under a GRP	Qess Corp	The tentative list of stations is also being uploaded with the corrigendum.
231	Chapter=3, Proposed Architecture for VSS	54	3.B.2	Power & Fiber Distribution Design for Railway Stations	We understand that scope of contractor's work in all stations will commence from 24 Ports FDMS/ LIUs and Outgoing of ACDB Panels for Networking & Power Circuit. Please confirm	Qess Corp	Clause as per tender/corrigendum prevails.
232	3.A.1.4	47	3.A.1.4.8	Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF/GRP Thana/Post.	Since the tentative backbone architecture as well as soil characteristics are unclear, request you to kindly exclude the scope of 24 F connectivity between stations & GRP offices shall be excluded from the scope of work	Qess Corp	Clause as per tender/corrigendum prevails.
233	3.A.1.4	47	3.A.1.4.8	Remote operation and monitoring of a cluster of stations from RPF/GRP Thana/Post through the RailTel/Railways TCP/IP network. Bidder is required to plan sufficient number of VMS/EMS licenses, IT equipments to facilitate the same	We understand that the No of EMS Licenses for viewing will be equal to number of GRP/RPF Offices. Please confirm	Qess Corp	Clause as per tender/corrigendum prevails.
234	4.A.8	88	4.A.8.1	SLA & Penalties	Any Downtime resulting due to Railtel or 3rd Party Bandwidth providers shall not be Linked with contractor's SLAs. Kindly confirm	Qess Corp	Clause is self explanatory.
235	3.B	61	3.B.6.1	Railtel Data Centres	We understand that GRP/RPF offices of cluster stations of North & East region as well as South & West regions will be integrated with Railtel's Gurugram & Secunderabad Data Centers respectively. Kindly confirm our understanding.	Qess Corp	Clause is self explanatory.

236	3.A.1.7	49	3.A.1.7.1	Support from Indian Railways	<p>Necessary Rail Clears & approvals for undertrack fiber laying works for interconnection of aggregation switches between platforms shall be provided by Railtel. Further all necessary cost for track rail lifting, welding, metal filling and all other works for dismantling & restoration shall be paid at actuals by Railtel</p> <p>Further, in the event of necessity of chipping of non load bearing walls, floor & any structure resulting in extensive breakage due to ageing shall be restored at mutually agreed rates</p> <p>In the event of malfunctioning of Cameras or any edge devices & network switches due to induction from Traction circuits, the same shall be replaced by the contractor with additional cost implication in the vent of non insurance coverage. Please confirm</p>	Quess Corp	Clause as per tender/corrigendum prevails.
237	Section II- Chapter 5	263		Maintenance Free Earthing	<p>MFCE based Earth Pit consumes high volume of copper rods, bare copper conductors as well as filling Compound since No of pits required is linked to the acceptable soil resistivity value which inturn depends on the soil conditions of various regions. Thereby request you to kindly provide the tentative prevailing & acceptable soil resistivity values of sample stations across various regions.</p> <p>Further request you to kindly add Earth Pit in the SOR as unit rate items to ensure factoring of appropriate costs</p>	Quess Corp	Clause as per tender/corrigendum prevails.
238	4.8.14.1 - Eligibility Criteria Requirements for Bidders	99	4.A.14.1.1	In case the tenderer wants to quote for multiple packages i.e. Northern, Western, Southern and Eastern, the financial and technical criterion given above will have to be met separately for each package and cumulatively for all packages being quoted combin	In order to facilitate enhanced participation of competitive Sis & OEMs, request you to kindly consider evaluation on Cumulative Turn over & Experience basis only and not cumulative & individual TO & experience based evaluation	Quess Corp	Clause as per tender/corrigendum prevails.

239	4.A.14.1	99	4.A.14.1.1	Evaluation methodology: Bidding for more than one packages	<p>Kindly clarify the mode of evaluation if there is a bidder quoting for multiple packages & a bidder quotes for a single package. Pls clarify whether the evaluation will be based on least individual bid values or least of cumulative package values</p> <p>In case of evaluation based on least of cumulative package values, then the bidder quoting for single package will be at a disadvantage since there are all possible chances of Implementation & AMC costs of bidder quoting for multiple package to have been front loaded in a different package.</p> <p>Thereby request you to provide a cap of 5% on AMC Cost per annum</p>	Qess Corp	Clause is self explanatory.
240	3.A.1.7	49	3.A.1.7.1	Support from Indian Railways	We understand that all necessary way leaves, & other statutory approvals from various bodies shall be provided by Railtel	Qess Corp	Clause as per tender/corrigendum prevails.
241	3.A.1.7	49	3.A.1.7.1	Support from Indian Railways	Necessary Site Infra Structure/Ware House areas shall be provided by Railtel & cost towards the same shall be re-imbursed at actuals.	Qess Corp	Clause as per tender/corrigendum prevails.
242	Form No22 to 24	161-164		Tripatriate Agreement & Undertaking to provide for the support to quoted product	We understand that a specific OEM executing a Tripatriate agreement with Railtel & a bidder can execute another Tripatriate agreement with Railtel & another bidder. Kindly confirm	Qess Corp	Clause is self explanatory.
243	Form No22 to 24	161-164		Tripatriate Agreement & Undertaking to provide for the support to quoted product	We understand that a OEM being a lead bidder can execute another Tripatriate agreement with railtel & another lead bidder. Kindly confirm	Qess Corp	Clause is self explanatory.
244	Chapter 3, E	75	3.E.1	Training	One Time Training shall be provided for maximum 15 officials of Railtel. Any further training requirement shall have financial implication. Kindly confirm	Qess Corp	Clause as per tender/corrigendum prevails.
245	Amendment No 1.0	9	29	Schematic Diagram-2, Cloud based architecture for Video Surveillance	It can be seen from the architecture that, data transfer of video feeds to cloud is from the Edge devices. Kindly confirm whether the Data Transfer to cloud shall be from Edge devices or GRPs or Data Centres	Qess Corp	Clause as per tender/corrigendum prevails.
246	RDSO Specification			Technical & Functional Requirement	Request you to kindly provide the technical & functional requirement for Servers	Qess Corp	Clause as per tender/corrigendum prevails.
247	Chapter 4- Clause 4.A.22 - 4.A.23	105-106		Eligible MSEs are exempted from cost of Tender documents and EMD, more details are given in clause 4.A.23, Chapter 4.	In case of Consortium Bid, if the primary bidder is not MSE while the secondary bidder is MSE then will the consortium bidder be exempted from cost of tender documents and EMD.	BECIL	No. (Unless specifically allowed through applicable Govt. Of India guidelines.)

248	Chapter 7 Annexure -III Consortium Bids	188	1.2	1.2 The Lead Bidder should have experience of execution of turnkey similar projects/Works (Definition of similar work is as per the clause 4.A.14 of chapter 4). In their own interest the tenderers who form such a consortia are advised to investigate cap	In case of Consortium Bid, kindly allow the work experience of Secondary Bidder to be considered as a proof of work executed.	BECIL	Clause as per tender/corrigendum prevails.
249	Chapter 7 Annexure -III Consortium Bids	188	1.2		In case of Consortium Bid, kindly allow the work experience of both the parties jointly to be considered as a proof of work executed.	BECIL	Clause as per tender/corrigendum prevails.
250	CHAPTER- 8 TECHNICAL, FUNCTIONAL REQUIREMENTS & SPECIFICATIONS	208	8.3	Broadly, the system functionality, technical requirement and hardware specifications shall be 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 for IP based CCTV at stations. HOWEVER, IN CASE OF THE SOLUTION DESIGN PARAMETERS, SYSTEM FUNCTIONAL REQUIREMENTS AND TECHNICAL SPECIFICATION OF A SYSTEM/ITEM BETWEEN RDSO SPECIFICATION AND THE TENDER CONDITIONS WILL PREVAIL OVER RDSO SPECIFICATIONS.	Clarification required on- If some Specification proposed and accepted for External Storage with the combination of Secondary Storage as LTO Tape Library on Datacenter side for Keeping the Flagged Data for longer duration for 1 Year will be accepted if found better and cost effective compare to the External Disk storage, as its written as "THE TENDER CONDITIONS WILL PREVAIL OVER RDSO SPECIFICATIONS."	BECIL	Clause as per tender/corrigendum prevails.
251	CHAPTER- 8 TECHNICAL, FUNCTIONAL REQUIREMENTS & SPECIFICATIONS	209	8.3.1.1.5	Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/marked video data by RPF/GRP personnel for longer retention , FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days, Audit trail logs, application data etc. as per solution requirement and sizing as per SOR.	We offer the Secondary LTO Tape Storage for keeping the Flagged Data for 1 Year of time. As we all know the Flagged Data can be required to keep for min. 5 to 10 Years or more as per the Criticality of the Data and required to be produce as a Evidence. Evidence Management plays critical role in CCTV Video surveillance, as in case of Evidence required to be keep for more than the disk storage life span. LTO Tape as a secondary storage can provide the much higher life span than Disk Storage. Hence, we request to kindly allow the secondary storage as LTO Tape with automatic & Instant archival from primary external SAN Storage to support evidence management.	BECIL	Clause as per tender/corrigendum prevails.

252	CHAPTER- 8 TECHNICAL, FUNCTIONAL REQUIREMENTS & SPECIFICATIONS			New Line Item - Tape Library for Backup the Data Center Applications, Operating System, and Database along with Backup Software. Min. 4 Nos. of LTO-8 Drives along with 120 Tape Slot License, Redundant Power Supply, Redundant Encryption appliance for Encryption Keys.	We request to include the Tape Library for Backup the Data Center Applications, Operating System, and Database along with Backup Software. Min. 4 Nos. of LTO-8 Drives along with 120 Tape Slot License, Redundant Power Supply, Redundant Encryption appliance for Encryption Keys.	BECIL	As per tender
253	Amendment No. 1.0 to RDSO Spec of VSS	1	2.3	"2.3 In IP based Video Surveillance System, the Cameras shall be provided at different locations so that the output is available as Ethernet and connected to the Servers/NVRs. Servers/NVRs in turn connected to the backbone IP Network. For Cloud based Architecture,	We would request to provide camera details of the stations under each RPF/Thana Post	BECIL	Clause as per tender & corrigendum only.
254	Amendment No. 1.0 to RDSO Spec of VSS	3	3.6	3.6 Vendors shall have option to quote either Server based solution or NVR based solution in accordance with Clause no. 10.0 and Clause no. 12.0 for Video Management and Video Recording or a combination of both the solutions for both the implementation scheme as per Diagram-1 & Diagram-2. software capabilities and storage capacities shall be same for the solutions.	We would request if only Server with external Storage should be allowed , as the VSS System is huge and needs high reliability and performance.	BECIL	Clause as per tender & corrigendum only.
255	Amendment No. 1.0 to RDSO Spec of VSS	6	19.25(a)	Clause No. 19.25 (a): The Face Recognition Algorithm vendor should have participated in the latest NIST (National Institute of Standards and Technology, U.S. Department of Commerce), Face In Video Evaluation (FIVE) report.	We would request if other global certifications could also be acknowledged by RailTel.	BECIL	Clause as per tender & corrigendum only.
256	Tender No. RailTel/Tender/OT/CO/P/2017-18/VSS/432 dated 29-03-18	243	8.26	The proposed system should be able to leverage and integrate with existing & new CCTV cameras supporting ONVIF profile 'S' and video management systems either through camera level or VMS level, to provide an integrated video surveillance at the command ce	Would request the quantities of the existing cameras as we would have to include necessary hardware and license cost for the same.	BECIL	Bidder to quote camera quantities as per SOR.

257					Does the analytics alarm & FRS Alarms needs to be showcased on Command and Control Solutions.	BECIL	As per tender
258					Please suggest the number of Video Analytics license for all the stations ?	BECIL	Please refer Clause 8.3.1.2 of Chapter-8.
259	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	21	10.1 Server Hardware: Server hardware for Video Management, Recording and Video Analytics shall have the minimum following specifications:-	ProcessorIntel Xeon Processor No. of Cores8 No. of Thereads16 Frequency2.1GHz or higher Cache20MB No. of Processors2 QPI (Quick Path Interconnect) Links2	The processor mentioned here is older generation processor and is very low end to handle the workload for this project. Hence request you to change the processor as below: * Please change the number of cores from 8 to 18 * Please change the no. of theread	BECIL	Clause as per tender/corrigendum prevails.
260	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	21	10.1.2 Server specifications for Face Recognition Software will be same as per clause no. 10.1.1 with following additional item:-	ProcessorIntel Xeon Processor No. of Cores8 No. of Thereads16 Frequency2.1GHz or higher Cache20MB No. of Processors2 QPI (Quick Path Interconnect) Links2	The Servers for Facial Recognition Software will require more processing power and clockspeed than the one mentioned in this clause, hence request you to please change the * Number of Cores from 8 to 18 * No. of Threads from 16 to 36 * Frequency from 2.1G	BECIL	Clause as per tender/corrigendum prevails.
261	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	21	10.1.2 Server specifications for Face Recognition Software will be same as per clause no. 10.1.1 with following additional item:-	Memory - 32 GB or higher, DDR3/DDR4 SDRAM or latest.	The Servers for Facial Recognition Software will require more performance hence request you to change the memory from 32GB to 128GB	BECIL	Clause as per tender/corrigendum prevails.
262	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	25	12.0 External Storage Device:	Cache - 16GB Per Controller	A storage with 16GB cache controller might not be able to handle the workload for this project hence request you to change the cache from 16GB per controller to 32GB per controller.	BECIL	Clause as per tender/corrigendum prevails.
263	SECTION I	55 to 60	3.B.3	3.B.3 Network Design for Different Type of Stations	As per SOR, there are 17373 numbers Type-I switch and 7180 numbers Type-II Switch. However, as per network design in the section 3.B.3, the count of Type I switch (40 for A1, 18 for A ,9 for B, 6 for C, 2 for D&E) is coming 20611 and Type-II switch (5 fo	BECIL	Bidder to quote Switches quantities as per SOR.

264	SECTION I	171	3	3.0 Technical Support Service:-	Please confirm that the proposed solution should support 24x7x365 TAC Support from OEM and advanced Next business Day Hardware replacement	BECIL	Clause as per tender/corrigendum prevails.
265	SECTION I	208	8.2	8.2. Server 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 and as specified in tender document. Server Processor Cache : 20 MB	Instead of 20 MB Cache, We would recommend to have Latest Intel Processor CPU-4110 for 8 Core, 2.1 GHz Processor. (2.1 GHz 4110/85W 8C/11MB Cache/DDR4 2400MHz)	BECIL	Clause as per tender/ corrigendum prevails.
266	SECTION I	212	8.8.2.3	Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement	We would recommend to mention the Temperature @ 50 DegreeC for Type-I Switch as per Environmental condition at Station platform	BECIL	As per tender.
267	SECTION I	212	8.8.1	RDSO Specifications 6.2.3 The LAN switch shall support minimum 4000 MAC address	We would recommend minimum 8000 MAC address, to connect the more devices in the LAN	BECIL	As per tender.
268	SECTION I	212	8.8.1	RDSO Specifications 6.2.4 The LAN switch shall have 255 IGMP groups	We would recommend minimum 512 Groups to support, multiple audio, Video and Data streams	BECIL	As per tender.
269	SECTION I	212	8.8.1	RDSO Specifications 7.4 7.4 The operating personnel shall be protected against shock hazards as per IS 8473 (1993) – Guide on the effects of current passing through the human body (equivalent to IEC publications 479 – 1984).	Kindly clarify that "RoHS including Directive 2011/65/EU" compliance is acceptable against this shock hazard requirement described in this clauses	BECIL	As per tender.
270	SECTION I	212	8.8	Type-I Switch IPv6 Feature	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	BECIL	As per tender.
271	SECTION I	212	8.8	Type-I Switch	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical bid). This will help to get best of class equipment from industry. Kindly clarify.	BECIL	As per tender.
272	SECTION I	212	8.9, Sr. no.. 1	Should have minimum 12 x GE SFP based ports.	To ensure future requirement, specifically in A1, A and B type stations, we would recommend to have at least 16 number of GE Fiber ports in Type-II Switch. Kindly clarify	BECIL	As per tender.

273	SECTION I	213	8.9, Sr. no. 23	Type-II Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	BECIL	As per tender.
274	SECTION I	213	8.9, Sr. no. 25	Type-II Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR ii) 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 have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND ii) should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submitted) This will help to get best of class equipment from industry.	BECIL	As per tender.
275	SECTION I	213	8.9, Sr. no. 19	Type-II Switch: Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Kindly clarify that to get standardized Metro Ethernet Features, CE2.0 certificate at the time of supply in Type-II Switch is mandatory requirement	BECIL	As per tender
276	SECTION I	214	8.10, Sr. no. 4	Should have at least 88 Gbps switching fabric. Switches should have dedicated ports (other than asked uplink ports) for minimum 40 Gbps stacking band-width with necessary cables from day 1.	Kindly clarify Instead of 40 GBps statcking Bandwidth, it should be 48 Gbps	BECIL	As per tender
277	SECTION I	215	8.10, Sr. no. 22	Type-III Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	BECIL	As per tender.
278	SECTION I	215	8.10, Sr. no. 26	Type-III Switch "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).	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with technical bid).This will help to get best of class equipment from industry.Kindly clarify.	BECIL	As per tender.
279	SECTION I	218	8.11, Sr. no. 17	Type-IV Switch: vi. IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	BECIL	As per tender.

280	SECTION I	218	8.11, Sr. no. 18	Type-IVSwitch "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).	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with technical bid).This will help to get best of class equipment from industry.Kindly clarify.	BECIL	As per tender.
281	SECTION I	219	8.12, Sr. no. 21	DC Switch: Switch shall be IPv6 Certified/Ready.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	BECIL	As per tender.
282	SECTION I	219	8.12, Sr. no. 23	DC Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR should have figured iin latest Gartner Report in field of Ethernet Switches"	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with technical bid).This will help to get best of class equipment from industry.Kindly clarify.	BECIL	As per tender.
283	SECTION I	222	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	BECIL	As per tender.
284	SECTION I	223	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	BECIL	As per tender.
285	SECTION I	224	2.2	The appliance should have at least 8 * 1 GE and 8*10G ports from day one	To ensure that proposed solution meet the future growth by clustering multiple appliances together to increase overall throughput , please confirm whether the proposed appliance should support 6x40GE in future	BECIL	As per tender.
286	SECTION I	224	4.5	Firewall should have integrated redundant power supply without any external adaptors	Since this is a data centre Firewall, Please confirm, whether proposed appliance appliance should support both PSU redundancy and FAN module redundancy along with hot swappable capability of both PSU and FAN from Day-1	BECIL	As per tender.

287	SECTION I	225	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	BECIL	As per tender.
288	SECTION I	225	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	BECIL	As per tender.
289	4.A.14.1.3	101	2	The OEM (s) whose products have been offered in the bid should have a minimum cumulative turnover of INR 360 Crores for OEMs supplying camera, INR 100 Crores for OEMs of switches and INR 225 Crores for OEMs of IT hardware (server and storage) each in last financial years.	The tender is permitting participation of MSME/MSE OEMs who are producing domestically manufacturing electronic products. According to the notification and circulars issued to Governments departments and PSU's etc. the eligibility conditions including matters like turnover, production capability and financial strength should not result in unreasonable exclusions of local suppliers who would otherwise be eligible. We therefore request you to kindly do not insist upon for OEMs who are local producers or mention it as equivalent to that of OEM for switches at 100 crores cumulative turnover for 3 years.	BECIL	As per tender.
290	4.A.14.1.3	101	4	The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport System e.g. Metro, Railways, Mono Rail, Airport etc. in India or abroad in last 3 financial years (i.e current year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for at least six (6) months.	The criteria proposed for OEMs is respective and in favor of global OEMs. The criteria may kindly be modified to include OEM who have supplied IP cameras for any public institutions, Government departments, Smart City projects tendered by Municipal corporation & institutions, police departments, public sector banks etc. The above modifications will result in wider and healthy competition to be benefit of a Gov. institution like RailTel.	BECIL	As per tender.
291	Chapter 8, Section 8.3	RFP Page No. : 208 RDSO Amendment 1 Clause No. 19.25 Amendment 1 Pg no. 6	RDSO Amendment 1: Clause No. 19.25	19.25 (a). The Face Recognition Algorithm vendor should have participated in the latest NIST (National Institute of Standards and Technology, U.S. Department of Commerce), Face In Video Evaluation (FIVE) report.	Request to modify as "The Face Recognition Algorithm vendor should have participated in the latest NIST (National Institute of Standards and Technology, US, Department of Commerce), Face Recognition Vendor Test (FRVT) report."	BECIL	As per tender.

292	8.8	212	8.8.2.3	8.8.2.3 Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement.	To ensure all bidders quote comparative solution, we request you to define operating temperature. Considering climatic conditions, we request you to consider switch with min operating temperature of 65C. It is necessarily required as it will be installed at platforms.	Godrej	As per tender.
293	8.8	212	8.8		Request for addition: Request you to consider OEM's featured in Gartner Magic Quadrant for wired and wireless access as minimum qualification criteria to ensure quality products	Godrej	As per tender.
294	8.8	212	8.8		Request for addition: The networks are moving on open standard SDN technology. As it will be a huge network, we request you to consider SDN openflow v1.3 open protocol to ensure investment protection	Godrej	As per tender.
295	8.9	213	24	Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement.	To ensure all bidders quote comparative solution, we request you to define operating temperature. Considering climatic conditions, we request you to consider switch with min operating temperature of 65C. It is necessarily required as it will be installed at platforms.	Godrej	As per tender.
296	8.9	213	25	"OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR ii) should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted)	Request you to consider OEM's featured in Gartner Magic Quadrant for wired and wireless access as minimum qualification criteria to ensure quality products	Godrej	As per tender.
297	8.9	213	2	Should have minimum 2 nos. SFP+ based 10 GE ports.	The type-2 switch will be used as aggregation switch, so we request you to consider : 1) Switch with 4x1G/10G SFP ports to ensure 2 ports as spare 2) With internal Redundant power supplies like the way Type-3 has been considered for higher availability	Godrej	As per tender (includes corrigendums also).
298	8.9	213	19	Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Do we consider seamless integration with Type-1 switch for sub 50ms ring protection? Please clarify.	Godrej	Clause is clear

299	8.9	213	21	Should support following security features viz.: i) SSL (HTTPS)/SSH, ii) Broadcast/Multicast/Unicast Storm Control, iii) DoS Attack Prevention/ DAI	DAI, IP source guard, are essential features to mitigate Man-in Middle attacks, we consider these features as mandatory rather than optional with DoS attack.	Godrej	As per tender.
300	8.9	214			Request for addition: The networks are moving on open standard SDN technology. As it will be a huge network, we request you to consider SDN openflow v1.3 open protocol to ensure investment protection	Godrej	As per tender.
301	8.10	214	5		Request for addition: The networks are moving on open standard SDN technology. As it will be a huge network, we request you to consider SDN openflow v1.3 open protocol to ensure investment protection	Godrej	As per tender.
302	8.10	215	26	"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)	Request you to consider OEM's featured in Gartner Magic Quadrant for wired and wireless access as minimum qualification criteria to ensure quality products	Godrej	As per tender.
303	8.11	215		Switches Type-IV	On Stations type-D, E, the Type-2 switches are directly termination on Railtel PoP, then same way on other stations, Type-2 switches can directly terminate on Railtel PoP. Practically, the Type-4 switches can be avoided in architecture and huge cost of thousands of Type-4 switches can be saved. We recommend to consider Type-2 switch at other stations as well in place of Type-4 switch	Godrej	As per tender.
304	8.12	218	23	OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR should have figured in latest Gartner Report in field of Ethernet Switches"	Request you to consider OEM's featured in Gartner Magic Quadrant for wired and wireless access as minimum qualification criteria to ensure quality products	Godrej	As per tender.

305	8.12	218	25	Switch shall be PCI/EAL2/NDPP/FIPS certified from common criteria organization.	Only specific OEM is having these certification for required switch, so we request you to relax these certifications to ensure open competition.	Godrej	As per tender.
306	SECTION I	55 to 60	3.B.3	3.B.3 Network Design for Different Type of Stations	As per SOR, there are 17373 numbers Type-I switch and 7180 numbers Type-II Switch. However, as per network design in the section 3.B.3, the count of Type I switch (40 for A1, 18 for A, 9 for B, 6 for C, 2 for D&E) is coming 20611 and Type-II switch (5 for A1, 3 for A & B, 1 for C, D & E) is coming 7252 numbers Kindly clarify Whether SOR number is the final count for Type-II and Type I Switches	Godrej	Please note that network design are tentative as also mentioned in the tender document. Bidder to quote as per SOR.
307	SECTION I	171	3	3.0 Technical Support Service:-	Please confirm that the proposed solution should support 24x7x365 TAC Support from OEM and advanced Next business Day Hardware replacement	Godrej	Clause as per tender/corrigendum prevails.
308	SECTION I	208	8.2	8.2. Server 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 and as specified in tender document. Server Processor Cache : 20 MB	Instead of 20 MB Cache, We would recommend to have Latest Intel Processor CPU-4110 for 8 Core, 2.1 GHz Processor. (2.1 GHz 4110/85W 8C/11MB Cache/DDR4 2400MHz)	Godrej	Clause as per tender/corrigendum prevails.
309	SECTION I	212	8.8.2.3	Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement	We would recommend to mention the Temperature @ 50 DegreeC for Type-I Switch as per Environmental condition at Station platform	Godrej	As per tender.
310	SECTION I	212	8.8.1	RDSO Specifications 6.2.3 The LAN switch shall support minimum 4000 MAC address	We would recommend minimum 8000 MAC address, to connect the more devices in the LAN	Godrej	As per tender.
311	SECTION I	212	8.8.1	RDSO Specifications 6.2.4 The LAN switch shall have 255 IGMP groups	We would recommend minimum 512 Groups to support, multiple audio, Video and Data streams	Godrej	As per tender.
312	SECTION I	212	8.8.1	RDSO Specifications 7.4 7.4 The operating personnel shall be protected against shock hazards as per IS 8473 (1993) – Guide on the effects of current passing through the human body (equivalent to IEC publications 479 – 1984).	Kindly clarify that "RoHS including Directive 2011/65/EU" compliance is acceptable against this shock hazard requirement described in this clause	Godrej	As per tender.

313	SECTION I	212	8.8	Type-I Switch IPv6 Feature	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Godrej	As per tender.
314	SECTION I	212	8.8	Type-I Switch	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify	Godrej	As per tender.
315	SECTION I	212	8.9, Sr. no.. 1	Should have minimum 12 x GE SFP based ports.	To ensure future requirement , specifically in A1, A and B type stations, we would recommend to have at least 16 number of GE Fiber ports in Type-II Switch. Kindly clarify	Godrej	As per tender.
316	SECTION I	213	8.9, Sr. no. 23	Type-II Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Godrej	As per tender.
317	SECTION I	213	8.9, Sr. no. 25	Type-II Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR ii) should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submit-ted)	"OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND ii) should have figured in the latest Magic Quadrant for Wired and Wire-less LAN Access published by Gartner." (Documentary support to be submit-ted) This will help to get best of class equipment from Industry	Godrej	As per tender.
318	SECTION I	213	8.9, Sr. no. 19	Type-II Switch: Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Kindly clarify that to get standardized Metro Ethernet Features, CE2.0 certificate at the time of supply in Type-II Switch is mandatory requirement	Godrej	As per tender.
319	SECTION I	214	8.10, Sr. no. 4	Should have at least 88 Gbps switching fabric. Switches should have dedicated ports (other than asked uplink ports) for minimum 40 Gbps stacking band-width with necessary cables from day 1.	Kindly clarify Instead of 40 GBps statcking Bandwidth, it should be 48 Gbps	Godrej	As per tender.
320	SECTION I	215	8.10, Sr. no. 22	Type-III Switch: IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Godrej	As per tender.

321	SECTION I	215	8.10, Sr. no. 26	Type-III Switch "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)	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify	Godrej	As per tender.
322	SECTION I	218	8.11, Sr. no. 17	Type-IV Switch: vi. IPv6 feature should be ready from day 1.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Godrej	As per tender.
323	SECTION I	218	8.11, Sr. no. 18	Type-IVSwitch "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)	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify	Godrej	As per tender.
324	SECTION I	219	8.12, Sr. no. 21	DC Switch: Switch shall be IPv6 Certified/Ready.	To implement the IPv6 network, Switch should be IPv6 certified/logo ready from day 1, which gone through Testing by standard Body	Godrej	As per tender.
325	SECTION I	219	8.12, Sr. no. 23	DC Switch "OEM should have a : i) valid ISO 9001 & ISO 14001 certification on the date of opening of bid" OR should have figured in latest Gartner Report in field of Ethernet Switches"	Please include "OEM should be having valid ISO 9001 & ISO 14001 certification on the date of opening of bid" AND "OEM should have figured in the latest Magic Quadrant for Wired and Wireless LAN Access published by Gartner." (Documentary support to be submitted along with Technical Bid). This will help to get best of class equipment from Industry. Kindly clarify	Godrej	As per tender.
326	SECTION I	222	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	Godrej	As per tender.
327	SECTION I	223	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	Godrej	As per tender.

328	SECTION I	224	2.2	The appliance should have at least 8 * 1 GE and 8*10G ports from day one	To ensure that proposed solution meet the future growth by clustering multiple appliances together to increase overall throughput , please confirm whether the proposed appliance should support 6x40GE in future	Godrej	As per tender.
329	SECTION I	224	4.5	Firewall should have integrated redundant power supply without any external adaptors	Since this is a data centre Firewall, Please confirm, whether proposed appliance should support both PSU redundancy and FAN module redundancy along with hot swapable capability of both PSU and FAN from Day-1	Godrej	As per tender.
330	SECTION I	225	5.11	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.).	Please confirm whether the proposed solution should support more than 20000 IPS signatures to cover the breadth of today's attack	Godrej	As per tender.
331	SECTION I	225	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Please confirm whether the proposed solution should be able to aggregate these 3000 applications in more than 40 categories for ease of security operations	Godrej	As per tender.
332	8.3.1.1.5	209		New Clause	In this Requirement Video Management System is very critical. So request you add Pre-qualification for VMS.	Godrej	As per tender.
333	8.3.2.3.1.1	211	B)	Recording Parameters : on non RFP station Recorded for i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 7 days in Video Recording & Processing Unit.	Kindly confirm this recording shall be done on Video Recording & Processing Unit for non RPF Stations As per RDSO Specification Clause 4.2.10	Godrej	As per tender.

334	8.3.2.3.1.1	211	A)	<p>(A) On Station collocated with RPF/GRP Thana/Post:</p> <p>i) One Full HD stream (@1080P and@25FPS) from Full HD Camera on H.265 and</p> <p>ii) One UHD stream at resolution 3840x2160 and@ 15FPS from 4K UHD Camera on H.265</p> <p>should be recorded for 30 days in external storage at RPF/GRP Thana/Post.</p>	<p>This clause will make bidder to quote external storge only.</p> <p>Please give a option to bidder to store Video Data at RPF location on Internal storage of recording server.</p> <p>As there are open architerture Server based solutions which can cater higher throughput on recording within internal stoarge.</p>	Godrej	As per tender.
335	8.3.1. 2			<p>each such cluster i.e. RPF/GRP Thana/Post location, bidder to size storage, server requirement and propose a single server considering recording</p> <p>of 200 FHD cameras, analytics on 40 cameras, FRS with local matching capability with the watchlist database on up to 8 cameras stream at each RPF/GRP Thana/Post locations without any impact on the performance of the system and overall solution requirement.</p>	<p>This point is biased towards single OEM who can offer VMS,VAS and FRS. Since different OEM shall not allow to club in single server. Kidly separate server for above listed products</p>	Godrej	Cluase is self explanatory. Bidder to quote as per tender.
336	CHAP TER- 2	40	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.</p>	<p>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.</p>	L&T	As per tender.

337	CHAPTER- 2	39	IV	<p>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.</p>	<p>Please provide the details of existing infrastructure viz.</p> <ol style="list-style-type: none"> 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 	L&T	<p>Vendor to quote as per SOR. Tentative list of VSS stations is being uploaded. Wi-Fi stations work is completed almost at all A1/A stations and some B, C D& E stations (approx. 600+ stations, Names of stations are available on RailTel website).</p>
338	Chapter 6 & Chapter 3	162 & 80	5-2 & 4.A.4	<p>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. However, if the implementation phase gets extended (for whatsoever reason), OEM shall extend their support on best effort basis for the same period.</p> <p>Delivery/Implementation timelines: Milestones for Design, Supply, Installation and Commissioning from the date of award of the Contract (LOA) are tabulated as under.</p>	<p>Both statements are contradictory to each other. Please clarify the same and suggest which timeline & milestone we have to follow for Design, Supply, Installation and Commissioning. We request you increase the implementation schedule to 15months to complete the entire activity which shall encourage participation of bidders without any overloading of bid.</p>	L&T	<p>Tender/ corrigendum clause shall prevail.</p>

339	CHAP TER- 2	40	V	<p>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.</p>	<p>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.</p> <p>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.</p> <p>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.</p>	L&T	Clause as per tender/corrigendum prevails.
340	CHAP TER-3	49	3.A.1.7.1	<p>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.</p>	<p>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.</p>	L&T	Clause is self explanatory.
341	CHAP TER-3	49	3.A.1.7.2	<p>Railways shall provide for the space and power supply for the systems in-installed in the RPF Thana/Chowkis, Control Rooms and other locations at stations.</p>	<p>We understand that Railways will provide site office and warehouse space at Railway Stations for execution on free of cost basis.</p>	L&T	Clause is self explanatory.

342	CHAP TER-3	49	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.	<p>1. Please confirm that all permission / licenses / local approval and ROW shall be made available to the Contractor by Client.</p> <p>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.</p> <p>3. Delay on account of getting such permission shall be considered for time extension. Please confirm.</p> <p>4. Also, the payment to the bidders shall be made over and above contactor price if there is delay on account of client for unforeseen reasons and bidders has to consider for extended stay.</p>	L&T	Clause is self explanatory.
343	CHAP TER 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.	L&T	Clause as per tender/corrigendum prevails.

344	CHAP TER 4	83,84	4.A.5.1.1	<p>4.A.5. Payment Terms</p> <p>4.A.5.1 Payment Terms for Supply portion of items supplied under Schedule – ‘A’ of SOR-Head-I of packages as per BOM and Price Schedule details (Chapter- 2, SOR, Note-VII and Annexure-A & B) submitted along with price bid.</p> <p>4.A.5.1.1 F</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>	L&T	Clause as per tender/corrigendum prevails.
345	CHAP TER-4	103	4.A.15.1	<p>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.</p>	<p>Please confirm whether payment shall be made on quoted currency (USD, British Pound, EURO or Japanese YEN etc.) or in INR for Indian Bidder.</p>	L&T	Tender clause is clear and prevails
346	CHAP TER-2 & 4	99	4.A.15.1	<p>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.</p>	<p>1. As per clause 4.A.15.1, we can quote prices in USD, British Pound, EURO or Japanese YEN but in Price Schedule Format (CHAPTER-2) it is not properly identified in which currency we have to quote. Please provide revised schedule of requirement in FC (Foreign Currency) and LC (Local Currency).</p> <p>2. Also please confirm that the payments to the bidders shall be released on the quoted currency i.e (USD, British Pound, EURO , Japanese YEN or INR)</p>	L&T	Tender clause is self explanatory

347	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 are liable to be rejected.	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 the ones mentioned in 4.B.8 Offline Submission.	L&T	Clause is self explanatory and prevails.
348	CHAPTER 5	129	4.A.19	Purchaser's Right to Vary Quantities - up to a maximum extent of +/- 30% of contract quantity.	1. Please confirm that the variation of scope of work under this clause shall be limited to $\pm 10\%$ only, beyond which the quoted price shall be subject to variation. 2. Also please confirm that such variation shall be communicated within 30 days from the date of award of contract.	L&T	Clause as per tender/corrigendum prevails.
349	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.	L&T	May be agreed
350	CHAPTER 4	87	4.A.7.2	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.	L&T	Clause as per tender/corrigendum prevails.
351	CHAPTER 4	87	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.	L&T	Any such change on account of GST deptt. may be taken care of at the time of billing.
352	CHAPTER- 2	8-39		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.	L&T	Bidder to quote as per SOR and provide breakup in BOM where ever asked for.

353	CHAP TER 4	77	4.A.2.1	<p>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.</p>	<p>We propose modification as follow: The supplier shall be solely responsible for any defect 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.</p>	L&T	Clause as per tender/corrigendum prevails.
354	CHAP TER 4	93-94	4.A.11.	<p>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.</p>	<p>We proposed modification as follow: 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 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.</p>	L&T	Clause as per tender/corrigendum prevails.

355	CHAP TER 4	110	4.A.32	<p>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.</p> <p>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.</p>	<p>We propose modification as follows: If the contractor fails to deliver the equipment or commits material breach of contractual commitment solely due to the gross or willful 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.</p> <p>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.</p>	L&T	Clause as per tender/corrigendum prevails.
356	General Condi- tions:	186	7.16 b)	<p>The Engineer or Engineer's Representative shall be entitled to take possession of any materials, tools, implements, machinery or buildings on the works or on the property on which these are being or ought to have been executed, and to retain the employ the same in further execution of the works without the contractor being entitled to any compensation for the use and employment thereof or for wear and tear or destruction thereof.</p>	<p>We proposed modification as follow: The Engineer or Engineer's Representative shall be entitled to take possession of any materials, tools, implements, machinery or buildings on the works or on the property on which these are being or ought to have been executed, and to retain the employ the same in further execution of the works with the contractor being entitled to any compensation for the use and employment thereof or for wear and tear or destruction thereof.</p>	L&T	Clause as per tender/corrigendum prevails.

357	General Conditions:	187	7.17	<p>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.</p>	<p>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.</p>	L&T	Clause as per tender/corrigendum prevails.
358	CHAPTER 8	207	Note 3	<p>All the IP cameras as quoted by the bidder against SORChapter-2 must be sourced from the same OEM.</p>	<p>Request you to kindly amend the clause as "All the IP cameras as quoted by the bidder against SORChapter-2 must be sourced from multiple OEM's" considering the challenging implementation schedule and competitiveness of the bid .</p>	L&T	Clause as per tender/corrigendum prevails.
359	CHAPTER 4	108	4.A.28.1.	<p>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,</p>	<p>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.</p>	L&T	Clause as per tender/corrigendum prevails.

360	CHAPTER 6	131	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.	L&T	Clause as per tender/corrigendum prevails.
361	Form	159	Form No.20:	Parent Company Guarantee	We understand that the Parent Company guarantee is only applicable if bidding entity is foreign entity. Please confirm.	L&T	Clause is self explanatory.
362	General				Tender does not provide for Employer's default and pursuant compensation / Extension of time for the same. Kindly clarify	L&T	As per tender document.
363	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."	L&T	Not Agreed.
364	Chapter 3	46	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 detection.	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.	L&T	RDSO Specs and Tender condition is very clear.

365	Chapter 3	47	3.A.1.4.2	<p>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.</p>	<p>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.</p>	L&T	<p>Tender condition is very clear. No change is proposed.</p>
366	Amendment No. 1.0 to RDSO Specification no. RDSO/SPN/TC/65/2016, Revision 4.0 for IP Based Video Surveillance System	1	2.3	<p>"2.3 In IP based Video Surveillance System, the Cameras shall be provided at different locations so that the output is available as Ethernet and connected to the Servers/NVRs. Servers/NVRs in turn connected to the backbone IP Network. For Cloud based Architecture, Camera output on Ethernet shall be connected to the MPLS/ IP network through Edge devices. Cluster of stations through Edge devices shall be aggregated at nearest RPF/GRP Thana/Post through MPLS/ IP network. RPF/GRP Thana/Post in turn connected to the Cloud through MPLS/ IP network."</p>	<p>We would request to provide camera details of the stations under each RPF/Thana Post</p>	L&T	<p>As per tender conditions</p>

367	Tender No. RailTel /Tender/OT/CO/P/2017-18/VSS/432 dated 29-03-18	243	8.26	The proposed system should be able to leverage and integrate with existing & new CCTV cameras supporting ONVIF profile 'S' and video management systems either through camera level or VMS level, to provide an integrated video surveillance at the command center.	Would request the quantities of the existing cameras as we would have to include necessary hardware and license cost for the same.	L&T	Bidder to quote as per SOR.
368	Additional Queries			Does the analytics alarm & FRS Alarms needs to be showcased on Command and Control Solutions.		L&T	Yes.
369	Additional Queries			Please suggest the number of Video Analytics license for all the stations ?		L&T	Please refer clause 8.3.1.2 of Chapter-8 of tender document.
370	SPECIFICATION NO. RDSO/SPN/TTC/65/2016 Revision 4.0	21	10.1 Server Hardware: Server hardware for Video Management, Recording and Video Analytics shall have the minimum following specifications:-	<p>Processor Intel Xeon Processor No. of Cores 8 No. of Threads 16 Frequency 2.1GHz or higher Cache 20MB No. of Processors 2 QPI (Quick Path Interconnect) Links 2</p>	<p>The processor mentioned here is older generation processor and is very low end to handle the workload for this project. Hence request you to change the processor as below: * Please change the number of cores from 8 to 18 * Please change the no. of threads from 16 to 36 * Cache from 20MB to 24MB The latest generation processors from Intel comes with latest generation of UPI links instead of QPI links, hence please remove the clause numbers 7 and 8 related to QPI links. The Servers for Facial Recognition Software will require more performance hence request you to change the memory from 32GB to 128GB</p>	L&T	Specifications mentioned in the tender document are minimum specifications. Bidder can offer a higher specification server as per solution requirement.

371	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	21	10.1.2 Server specifications for Face Recognition Software will be same as per clause no. 10.1.1 with following additional item:-	Processor Intel Xeon Processor No. of Cores 8 No. of Threads 16 Frequency 2.1GHz or higher Cache 20MB No. of Processors 2 QPI (Quick Path Interconnect) Links 2	The Servers for Facial Recognition Software will require more processing power and clockspeed than the one mentioned in this clause, hence request you to please change the * Number of Cores from 8 to 18 * No. of Threads from 16 to 36 * Frequency from 2.1G	L&T	Specifications mentioned in the tender document are minimum specifications. Bidder can offer a higher specification server as per solution requirement.
372	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	25	12.0 External Storage Device:	Cache - 16GB Per Controller	A storage with 16GB cache controller might not be able to handle the workload for this project hence request you to change the cache from 16GB per controller to 32GB per controller or higher	L&T	Specifications mentioned in the tender document are minimum specifications. Bidder can offer a higher specification server as per solution requirement.
373	8.3.2. Functional and Technical Requirement 3.B.7 Architecture of VSS system for stations	210/64	8.3.2.1 General Below is the tentative VSS architecture for system to be deployed at Stations: 3.B.7 Architecture of VSS system for stations	<input type="checkbox"/> Proposed solution has to provide seamless recording/ Playback of all cameras for last 30 days at any given point of time at the RPF/GRP Thana/Post. The recording and playback availability should not be affected in case of failure of any server at RPF/GR	Both the statements are contradictory. There is no failover mentioned at RPF chowki/thana architecture (page 54) and on page 210 there is recording of last 30 days availability through redundant server(s) in case of a server failure asked. Kindly clarify	L&T	Tender condition is very clear. No change is proposed. Please refer to corrigendum also.

374	PACK AGE IV: SOUT HERN	35	SOR HEAD I: IP BASED VIDEO SURVEIL LANCE WORK AT STATIO NS	iii. For Category F stations	Kindly Clarify What is the role of Category F station as it is not discussed in tender anywhere.	L&T	Category F stations are not covered under scope of this tender. Please refer to corrigendum.
375	PACK AGE II: WESTE RN PACK AGE III: EASTE RN PACK AGE IV: SOUT HERN	19 27 35	SOR HEAD I: IP BASED VIDEO SURVEIL LANCE WORK AT STATIO NS	i.For Category C (Sub-urban) plat-forms ii. For Category C (others), D and E stations	In tender BOQ Category C (Sub-urban) and Category C (others) mentioned but not discussed anywhere in the tender. Kindly Clarify What is difference between Category C (suburban) and C (others).	L&T	There is no difference in terms of camera count, network topolgy and VSS architecture.
376	CHAP TER- 8	209 169	8.3.1. 2 Server and Storage System sizing	Approximate number of cameras considered across 6124 Railway Stations are 89844 units. Refer Chapter-7 Annexure-I for station category,Region wise camera breakup.	In this clause total cameras are 89844 however as per BOQ and total station and number of cameras per station calculations (page 169) it is coming different. i. As per this clause it is 89844 ii. As per BOQ it is 89845 iii. As per calculation with number of cameras per station and total stations it is 90114 Kindly clarify.	L&T	Bidder to quote quantity of cameras as per SOR as per corrigendum.

377	CHAP TER- 2 SCHED ULE OF REQUI REME NT PACK AGE I : NORT HERN REGIO N	11	PACKAG E I : NORTHE RN REGION	5. Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstation as quoted in Item no. A.2(b) along with as defined in clause 8.3 of chapter 8.	Are the Divisional HQ Clients included in this BOQ item of NR? Same query goes for WR,ER and SR. Please confirm	L&T	Bidder to quote as per SOR.
378	CHAP TER- 8	209	8.3.1.1 General Paramete rs	8.3.1.1.2 Bidder to propose server(s) as Video Management servers with 1:1 redundancy (HA mode) in RailTel Datacenter.	One of the roles of management server is to manage the failover functionality by receiving the signal from recorder server of failure and giving the signals to failover servers to get active. As per design all the recording servers and Failover servers will be placed at RPF/GRP Thana/Posts and their management server will be at RailTel Data center. If any recording server fails and at that particular time if the MPLS connectivity is also down from that RPF/GRP Thana/Post to RailTel Datacenter then How should we achieve the failover as the Management will not get the alert for this failure, please clarify.	L&T	Clause as per tender/corrigendum prevails.
379	CHAP TER- 8	211	8.3.2.3 Recordin g Paramete rs	(A) On Station collocated with RPF/GRP Thana/Post; (B) On other stations:	We understand that here you are considering dual recording for station category C,D &E at RPF/GRP Thana/Post(with Failover) and stations itself on VRU(video recording and Processing Unit) however single recording for station category A1,A & B at RPF/GRP Thana/Post(with Failover). Kindly Clarify.	L&T	Clause is self explanatory.

380	CHAPTER-3	59		3.B.3.6 Surveillance VPN on RailTel Backbone	Kindly consider: As Cyber security threat is common these days. We suggest to add the data encryption from server to server and server to client. The VMS software should have data encryption of 256 bit AES and video should export in SEF(Secured Export Format) with password protection of up to 20 alphanumeric characters.	L&T	Clause as per tender/corrigendum prevails.
381	Chapter-2 - Schedule of requirement: <u>PACK AGE-I: NORTHERN REGION - Schedule A</u>	9	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other required accessories.		L&T	<ol style="list-style-type: none"> 1. Specs of the UPS to to meet the minimum requirement. 2. UPS should have back up for 30 minutes (appropriate battery size) to meet this requirement. 3. Yes, UPS is required with inbuilt surge protection. 4. Warranty and rest as per tender conditions.
382	Chapter-2 - Schedule of requirement: <u>PACK AGE-II: WESTERN - Schedule A</u>	17	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other required accessories		L&T	<ol style="list-style-type: none"> 1. Specs of the UPS to to meet the minimum requirement. 2. UPS should have back up for 30 minutes (appropriate battery size) to meet this requirement. 3. Yes, UPS is required with inbuilt surge protection. 4. Warranty and rest as per tender conditions.

Also, kindly clarify the meaning of "**spike**"

383	Chapter-2 - Schedule of requirement: <u>PACK AGE-III: EASTERN - Schedule A</u>	24	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other required accessories	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.	L&T	<ol style="list-style-type: none"> 1. Specs of the UPS to to meet the minimum requirement. 2. UPS should have back up for 30 minutes (appropriate battery size) to meet this requirement. 3. Yes, UPS is required with inbuilt surge protection. 4. Warranty and rest as per tender conditions.
384	Chapter-2 - Schedule of requirement: <u>PACK AGE-IV: SOUTHERN - Schedule A</u>	32	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other required accessories		L&T	<ol style="list-style-type: none"> 1. Specs of the UPS to to meet the minimum requirement. 2. UPS should have back up for 30 minutes (appropriate battery size) to meet this requirement. 3. Yes, UPS is required with inbuilt surge protection. 4. Warranty and rest as per tender conditions.
385	8.3.1. 2 Server and Storage System sizing	209	8.3.1. 2 Server and Storage System sizing	Server and Storage System sizing	Please clarify how many analytics are required in total in all cameras.	L&T	Tender clauses are very clear.
386	PACK AGE IV: SOUTHERN	35	PACKAGE IV: SOUTHERN	iii. For Category F stations	Kindly clarify the F stations	L&T	Please refer to corrigendum

387	8.3.1.1 General Parameters	209	8.3.1.1 General Parameters	8.3.1.1.5 Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/ marked video data by RPF/GRP personnel for longer retention, FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days	Kindly clarify How much flagged/ marked data will be considered for storage.	L&T	Tender clause with corrigendum is clear.
388	3.B.6.1	60		At RailTel Datacenters (Gurugram and Secunderabad)	Please suggest if we have to consider only EMS infrastructure at each data center or archiving data needs to be considered. Also, whether recording camera is needed in DC or not. Please clarify.	L&T	Tender clauses are very clear.
389	11.0 PC Workstation	310	4	Frequency - 2.4 GHz or higher	Request you to change it to 3.7 GHz or higher	L&T	Bidder may offer higher specs to meet the end objective. Otherwise tender clause prevails for minimum specs.
390	11.0 PC Workstation	310	10	Hard Disk Drive - SAS HDD, 2x450 GB, 10000 RPM or higher	Request you to change it to 2X512GB SSD or higher	L&T	Clause as per tender/corrigendum prevails.

391	Chapter 7	187	7.17	<p>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."</p> <p>Clause 4.A.29: "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.</p>	<p>There are two clauses on arbitration. Please clarify which clause shall govern. Further, please confirm that the procedure of appointment of arbitrator shall be made as the Arbitration & Conciliation Act, 1996 and amendments thereto. Therefore, the employees of a party cannot be an arbitrator and the Parties shall mutually appoint, in case of sole arbitrator; Each party shall appoint one arbitrator and the two arbitrators shall appoint the third to preside, in case of three arbitrators.</p>	L&T	Both the clauses are same. In case of any ambiguity, clause No. 7.17 of the tender shall prevail.
392	General				<p>Request you to add a termination clause- the Contractor shall terminate the contract in the event of a material breach by Railtel. In such an event of termination, the contractor shall be entitled to accrued rights till the date of termination- please con</p>	L&T	Clause as per tender/corrigendum prevails.
393	General				<p>Please clarify the events which entitle the contractor to seek for an extension of time- in case of delay by Railtel, force majeure etc.</p>	L&T	Clause as per tender/corrigendum prevails.

394	4.A.14.1.3 Eligibility Criteria Requirements for OEM'	101	1	OEM(s) should have either direct presence in India or through their authorized registered partner in India for last 3 years or OEM(s) should have been working for last 3 years in their country of origin. Further, 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 or should give an undertaking for setting up a Technical Support Center and an office in India within 3 months after award of contract.	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.	Tyco	Clause as per tender/corrigendum prevails.
395	4.A.14.1.3 Eligibility Criteria Requirements for OEM'	101	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR 360 crores for OEMs supplying camera, INR 100 crores for OEMs of switches and INR 225 crores for OEMs of IT hardware (server and storage) each in last 3 financial years (i.e. current year and three pre-vius financial years) from the date of opening of tender.	We request that OEM(s) supplying the CCTV Cameras should have the minimum average turnover of INR 1000 Crores in last 3 financial Years. Cumulative turnover shall also be changed to Average turnover. Considering the magnitude and stringent timelines of this project this criteria will help and encourage the large reputed OEM(s) to participate.	Tyco	Clause as per tender/corrigendum prevails.
396	4.A.14.1.3 Eligibility Criteria Requirements for OEM'	101	3	The OEM(s) should be a profit making company and should have a positive net worth (Net Worth of the company would be com-putted as on 31st March 2018 as the summa-tion of share capital, reserves and surpluses less accumulated losses held by the company	We request that The OEM(s) should be a profit making company and should have a positive net worth from last three financial Years. Herein the profitability and net worth is requested for last year only	Tyco	Clause as per tender/corrigendum prevails.
397	4.A.14.1.3 Eligibility Criteria Requirements for OEM'	101	4	The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport etc. in India or abroad in last 3 financial years (ie. cur-rent year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for at least six (6) months.	The Project reference shall be of an Indian Company only and no foreign references shall be acknowledged and the operation, Maintenance and even the procurement process is quite unique and different in Indian Market scenarios. Hence request to kindly accept the Indian References only	Tyco	Clause as per tender/corrigendum prevails.
398	New Clause to be incorporated			OEM of CCTV camera must be ISO 9001:2008 and ISO 14001 certified	Copy of Certificates to be furnishes along with the bid	Tyco	Clause as per tender/corrigendum prevails.

399	New Clause to be incorporated			The CCTV Company should have created enough Job opportunities in India as per the current PMO directive and should have minimum 1500 employees on its payroll in India. Any OEM which is part of a larger group company but meeting the 1500 employee criterion is also eligible. This is to justify that CCTV OEM has made substantial investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM.	Declaration letter from the HR to be submitted along with the bid	Tyco	Clause as per tender/corrigendum prevails.
400	New Clause to be incorporated			The CCTV OEM should have its toll free number in India for any technical support query from the SI or end customer which is very much required for such a big project.	The CCTV OEM should have its toll free number in India for any technical support query from the SI or end customer which is very much required for such a big project.	Tyco	Clause as per tender/corrigendum prevails.
401	8.3.2.3 Recording Parameters	211	(B)	On other stations: i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit.	Video recording unit and Processing unit On other stations: (Type C, D, E) is an extra component which will add the overall cost for Servers and VMS licenses. Hence we request you to remove the recording parameters of 7 days recording in Video recording and processing unit and keep the 30 days recording only at rpf Thana itself.	Tyco	Clause as per tender/corrigendum prevails.
402	RDSO/SPN/TC/65/2016 Revision 4.0	208	Server Specifications	Server Specifications	It is important to share that RDSO specifications are based on previous Generation architecture which is about to become EoL, if we intent to offer latest architecture based Servers there will be several parameters which will not be exactly matched with the specifications currently listed by RDSO despite the fact that performance of new architecture based servers will be higher than the listed specifications. Kindly Clarify	Netweb	The specs are minimum, higher specs may be offered by the bidder.
403	4.A.45-	113		Preference to Domestic Manufacturers- "Bidders seeking Purchase preference (linked with Local content) (PPP-MII) shall be required to meet/exceed the target of Local Content (LC) of _50%_ %.	Reference - MEITY Notification No.- F.No.33(1)/2017-IPHW and DIPP Notification No.P-45021/2/2017-B.E.-II dated 15.06.2017 Above cited notification clearly states Percentage Domestic Value Addition in terms of Bill of Material for SERVER Item to qualify as domestically manufactured is 40% whereas your RFP / Tender document mentions 50% Local Content to be considered as PMA compliant OEM.	Netweb	Tender condition is very clear and shall prevail.
404							

405	RDSO/ SPN/TC /65/201 6 Revisio n 4.0	Page No.21 2		S.No.6 PC Workstation Specifications	It is important to share that RDSO specifications are based on previous Generation architecture which is about to become EoL , if we intent to offer latest architecture based Workstation the there will be several parameters which will not be exactly matched with the specifications currently listed by RDSO despite the fact that performance of new architecture based servers will be higher than the listed specifications. Kindly Clarify	Netweb	The specs are minimum, higher specs may be offered by the bidder.
406	4.A.45-	Page No.11 3		Preference to Domestic Manufacturers- "Bidders seeking Purchase preference (linked with Local content) (PPP-MII) shall be required to meet/exceed the target of Local Content (LC) of _50%_ %.	Reference - MEITY Notification No.- F.No.33(1)/2017-IPHW and DIPP Notification No.P-45021/2/2017-B.E.-II dated 15.06.2017 Above cited notification clearly states Percentage Domestic Value Addition in terms of Bill of Material for WORKSTATION (which is a Server Class Product as based on the same platform) Item to qualify as domestically manufactured is 40% whereas your RFP / Tender document mentions 50% Local Content to be considered as PMA compliant OEM.	Netweb	Tender condition is very clear and shall prevail.
407							
408	4.A.45- 1.3(2)	Page No.11 4		Preference to Domestic Manufacturers- "Eligible (techno-commercially qualified) LC bidder shall be granted a purchase preference to 20% i.e. where the evaluated price is within 20% of the evaluated lowest price of Non Local Content (NLC) bidder, other things being equal. Accordingly, purchase preference shall be granted to the eligible (techno-commercially qualified) LC bidder concerned, at the lowest valid i.e. NLC price bid"	Reference - MEITY Notification No.- F.No.33(1)/2017-IPHW and DIPP Notification No.P-45021/2/2017-B.E.-II dated 15.06.2017 Above cited notification clearly states preference must be reserved for 50% of the total order value of the item to be awarded. Whereas in your RFP just the Purchase Preference Margin has been specified and there has been no mention of that of total quantity of the item - 50% will be reserved for the Local Manufacturers. It is important to bring to committee's notice that with current PMA criteria mentioned in the RFP there will be barely any advantage for the PMA compliant OEMs since OEMs which manufacture large set of items will form a cartel and try to control the bid restricting niche presence based OEMs to compete thus it is important to reserve 50% quantity of the purchase for Local Manufacturers which is also clearly stated in the notice of Govt of India.	Netweb	Tender condition is very clear and shall prevail.
409							

410	Chapter-3 - 3.A.1.7- Site Preparati on	49	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.	Please share the existing Railways Norms before the bidding date. We request for the following inclusion: Also in case of time to time upward changes in Railways Norms wrt this clause, the same shall be compensated to successful bidder in same proportion.	M/s. Sterling and Wilson Pvt. Ltd	Railway rates vary from place to place and are same/slightly higher than the prevailing commercial rates.
411	Chapter-3 - 3.A.1.7- Site Preparati on	49	3.A.1.7.8	Temporary depot for tools and equipment of any kind can only be opened within the Railway's premises after a prior permission has been granted by the authorized Railway personnel.	We request for amendment in clause as below: Temporary depot for tools and equipment of any kind can only be opened within the Railway's premises after a prior permission has been granted by the authorized Railway personnel on FOC Basis.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
412	Chapter-3 - 3.A.1.7- Site Preparati on	49	3.A.1.7.9	Any land required by the bidder may be made available by Railways, if available, at the lease cost as per the latest norms of Railways.	Please share the existing lease cost as per the latest norms of Railways before the bidding date. We request for the following inclusion: Also in case of time to time upward changes in Railways Norms wrt this clause, the same shall be compensated to successful bidder in same proportion.	M/s. Sterling and Wilson Pvt. Ltd	Rates vary from place to place and may be estimated by the bidder from field and subject to availability.
413	Chapter-3 -3.B.2- Power and Fiber Distributi on Design for Railway Stations	54		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 without any extra cost to bidder. Please confirm, if our understanding is correct.	M/s. Sterling and Wilson Pvt. Ltd	Clause is self explanatory.

414	Chapter-3 -3.D.3-Inspection/Factor y Acceptance Test	70	3.D.3.4	<p>On successful visual and functional tests as above, the equipment may be considered to be in conformance with RDSO specification. However, the vendor shall submit special bank guarantee equivalent to 10% of the value of the equipments inspected by third party abroad & valid for a period of one year (in addition to Performance Guarantee) and undertaking to the purchaser that the equipment supplied shall meet all the requisite parameters of the specification and shall work satisfactorily failing which bank guarantee may be encashed. Firm shall also submit suitable undertaking regarding satisfactory repair /service support to the purchaser.</p>	<p>We request for the following amendment in the clause in the interest of the project:</p> <p>On successful visual and functional tests as above, the equipment may be considered to be in conformance with RDSO specification. However, the vendor shall submit special bank guarantee equivalent to 10% of the value of the equipments inspected by third party abroad & valid for a period of one year (in addition to Performance Guarantee) and undertaking from Bidder & OEM to the purchaser that the equipment supplied shall meet all the requisite parameters of the specification and shall work satisfactorily failing which bank guarantee may be encashed. Firm & OEM shall also submit suitable undertaking regarding satisfactory repair /service support to the purchaser.</p>	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
415	Chapter-4 - 4.A.11.- <u>Liquidated Damage</u> §	93	4.A.11	<p>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 reason 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.</p>	<p>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 5% of the cost of Purchase order/LOA for any reason 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.</p>	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

416	Chapter-4 - 4.A.14.1- Eligibility Criteria Requirements for Bidders - Financial Capability	95	4.A.14.1 (3)	<p>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.</p> <p>For Package-I: Northern Re-gion: Rs. 365.31 Crores For Package-II: Western Re-gion: Rs. 235.18 Crores For Package-III: Eastern Re-gion: Rs. 386.97 Crores For Package-IV: Southern Re-gion: Rs. 314.27 Crores</p> <p>Note:- In case of Consortium/JV, each member's relevant turnover combined together shall be considered against the above mentioned financial capability criteria</p>	<p>The bidder should have received a minimum cumulative contract amount from the Security/IT/Signals & Telecom business/ Data Center Design & Build/Electrical & Mechanical Infra works in the last three financial years plus current year upto the date of opening of tender.</p> <p>For Package-I: Northern Re-gion: Rs. 365.31 Crores For Package-II: Western Re-gion: Rs. 235.18 Crores For Package-III: Eastern Re-gion: Rs. 386.97 Crores For Package-IV: Southern Re-gion: Rs. 314.27 Crores</p> <p>Note:- In case of Consortium/JV, each member's relevant turnover combined together shall be considered against the above mentioned financial capability criteria</p>	M/s. Sterling and Wilson Pvt. Ltd	Tender clause including corrigendum shall prevail.
417	Chapter-4 - 4.A.14.1- Eligibility Criteria Requirements for Bidders - Similar Work Experience (Technical capability)	96	4.A.14.1 (5)	<p>1. Completion certificates from the User Organizations is required to be submitted.</p> <p style="text-align: center;">AND</p> <p>2. Past Experience Form as per Form No.19 of Chapter 6. (The set of document(s) submitted should clearly certify eligibility criteria and should be verifiable from the user/customer)</p>	<p>This is wrt to the large size projects, the final completion may delay due to various external reasons. Infect the work executed to near completion and payments received to the tune of more than the RFP order qualifying criterias.</p> <p>In view of the above facts, we request to consider the on going projects with the the value of the projects executed/ payment received worth more than the desired RFP project values and suggest the following amendment:</p> <p>1. Completion certificates from the User Organizations is required to be submitted. (In case of Ongoing projects minimum 80% of the project Value has been completed. Client Certificate to be provided)</p> <p style="text-align: center;">AND</p> <p>2. Past Experience Form as per Form No.19 of Chapter 6. (The set of document(s) submitted should clearly certify eligibility cri-teria and should be verifiable from the user/customer)</p>	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

418	Chapter-4 - 4.A.14.1-Eligibility Criteria Requirements for Bidders -	99	Similar Works	Works entailing completion of Supply, Installation, Testing and Commissioning of a project in the field of Security/IT/Telecom 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.	We understand this being a infrastructure project of Railways. We further request to broaden the scope by allowing more competition in the interest of competitive bidding and submit for the following inclusions: Works entailing to Supply, Installation, Testing and Commissioning of a project in the field of Security/IT/ Signals & Telecom business/ Data Center Design & Build/Electrical & Mechanical Infra works 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.	M/s. Sterling and Wilson Pvt. Ltd	Tender Clause is clear and doesn't need any change.
419	Chapter-4 - 4.A.5. Payment Terms	84	4.A.5.1.3	_____and the last 5% payment shall be made by RailTel/REL on issue of Final Acceptance Certificate (FAC) _____and remaining 5% on issue of FAC . _____and remaining 5% on issue of FAC of the same.	We request to release remaining 5% against the PBG of the equivalent amount in all the cases with issuance of PAC	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
420	Chapter-4 - 4.A.5.2.- Payment Terms for Service protion	85	4.A.5.2.1	_____and final 5% on issue of Final Acceptance Certificate.	We request to release final 5% against the PBG of the equivalent amount with issuance of PAC	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
421	Agreements	195 & 198		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.	M/s. Sterling and Wilson Pvt. Ltd	Authorised signatory duly authorised through notarised POA is permitted to sign such documents

422	Chapter-2 - Schedule of requirement: PACKAG E-I: NORTHERN REGION - Schedule A	9	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other r	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.	M/s. Sterling and Wilson Pvt. Ltd	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.
423	Chapter-2 - Schedule of requirement: PACKAG E-II: WESTERN - Schedule A	17	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other r		M/s. Sterling and Wilson Pvt. Ltd	1. The minimum specs. of commercial UPS may be met. 2. UPS should have back up for 30 minutes power failure without interruption. 2. Yes, UPS is required with inbuilt surge protection. 3. Warranty as per Tender.
424	Chapter-2 - Schedule of requirement: PACKAG E-III: EASTERN - Schedule A	24	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other r		M/s. Sterling and Wilson Pvt. Ltd	1. The minimum specs. of commercial UPS may be met. 2. UPS should have back up for 30 minutes power failure without interruption. 2. Yes, UPS is required with inbuilt surge protection. 3. Warranty as per Tender.

425	Chapter-2 - Schedule of requirement: PACKAG E-IV: SOUTHERN - Schedule A	32	2 (b)	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500VA UPS with backup for 30 minutes power failure without interruption, and all other r		M/s. Sterling and Wilson Pvt. Ltd	<ol style="list-style-type: none"> 1. The minimum specs. of commercial UPS may be met. 2. UPS should have back up for 30 minutes power failure without interruption. 2. Yes, UPS is required with inbuilt surge protection. 3. Warranty as per Tender.
426	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
427	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
428	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 1KVA- S. No.-7	Output Power factor - 0.8 or better	It is requested to kindly amend the clause to read as " Output Factor - 0.7 Lag ", which is as per industry standards	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

429	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 1KVA- S. No.-9	frequency (output) - 50Hz/60Hz frequency	Kindly amend Output Frequency to 50Hz (± 0.5%) as 60 Hz is not relevant for Indian Power Conditions.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
430	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
431	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
432	Chapter-8 - Technical, Functional Requirements & Specifications	227	8.16.1. 1KVA - S. No.-21	Port - USB	USB/ RS 232 may kindly be allowed.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

433	Chapter-8 - Technical, Functional Requirements & Specifications	227 & 228	8.16.1. 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
434	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.1. 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
435	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.1. 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
436	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

437	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
438	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 UPS 2KVA: S. No.-7	Output Power factor - 0.8 or better	It is requested to kindly amend the clause to read as " Output Factor - 0.7 Lag ", which is as per industry standards	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
439	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
440	Chapter-8 - Technical, Functional Requirements & Specifications	228	8.16.2 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

441	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 UPS 2KVA: S. No.-20	Port - USB	USB/ RS 232 may kindly be allowed.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
442	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
443	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
444	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

445	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.2 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 .	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
446	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis:	2 x 10 KVA connected in parallel redundant mode in separate chasis	Two UPS in Hot standby (1+1) configuration is most suitable & result in considerable cost saving with redundancy & may be considered if appropriate.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
447	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-1	Capacity - 10000VA/9000 W	It is requested to kindly amend the clause to read as 10 KVA/ 7000W i.e. Output Factor - 0.7 Lag, which is as per industry standards	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
448	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-5	Voltage Range - 305-470 VAC (3-phase) @ 100% load	It is requested to kindly amend the clause to read as: "Input Voltage Range - 330V AC-460V AC" which is as per industry standards & covers the voltage variation issues prevalent in Indian Sub Continent.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.

449	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-16 & 17	Output Frequency @ Line mode - 46 ~ 54 Hz @50Hz system Output Frequency@ Battery mode - 46 ~ 54 Hz @50Hz system	Output frequency from 47-53 Hz as per Indian industrial standards in sync. Mode. On battery mode it should be 50 Hz \pm 0.5 Hz. Hence, it is requested to kindly amend the same accordingly.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
450	Chapter-8 - Technical, Functional Requirements & Specifications	229	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-18	Frequency Converter Mode (CVCF) - 50/60Hz	It should be an optional feature. All Online double conversion UPS works as 50 Hz frequency independent mode.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
451	Chapter-8 - Technical, Functional Requirements & Specifications	230	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-28	Battery backup - 2 Hrs. on full load with each UPS System	It is requested to kindly specify Minimum VAH capacity. This will provide common platform to all prospective bidders. "Suggested Minimum VAH: 24000 VAH " with each UPS. Also, warranty on batteries may be specified for 2 years being a consumable item.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
452	Chapter-8 - Technical, Functional Requirements & Specifications	230	8.16.3 2X 10KVA connected in parallel redundant mode in separate chassis: S. No.-39,40,41	ESD - IEC/EN61000-4-2 Level 4 or equivalent BIS/IS standard Safety - IEC/EN62040-1-1 or equivalent BIS/IS standard Leakage Current - IEC/EN62040-1-1 or equivalent BIS/IS standard	It is requested that this should be considered as either IEC/ BIS/ CE certification of UPS because all certifications is related to safety of the system.	M/s. Sterling and Wilson Pvt. Ltd	Clause as per tender/corrigendum prevails.
453	8.9. Type II Switch	213	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:	Requested to be changed to " <i>Should have AC power supply arrangement as given below in chassis for redundant power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz.</i> "	D-Link	As per tender.

454	8.10. Switches Type-III	214	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.	Requested to be changed to " <i>Should have AC power supply arrangement as given below in chassis for redundant power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz.</i> "	D-Link	As per tender.
455	RailTel/Tender/OT/CO/P/2017-18/VSS/432	40	Note	The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, Video Record-ing & Processing Unit , workstation, storage, large format display monitors, VMS Softwares including VA and FRS, switches (each Type sep	We understand from the clause that Single OEM for one individual type of equipment/ switch is permitted to be quoted. <u>For example - One OEM addressing Type-I switch is to be quoted in all packages. Kindly confirm.</u>	Tejas Networks Ltd.	Clause is self explanatory.
456	RailTel/Tender/OT/CO/P/2017-18/VSS/432	113	4.A.45. Preference to Domestic Manufacturers	The provisions of the Public Procurement (Preference to Make in India) Order 2017 dated June 15, 2017 (and subsequent amendments, if any) by Department of Industrial Policy and Promotion, GoI shall apply to this tender to the extent feasible.	DIPP refers to the notification issued by Nodal ministry for calculating the percentage of value addition, percentage of applicable PMA and Purchase preference. For the tendered items such as switches, routers etc there are guidelines issued by DOT which is a nodal ministry for Telecom products. <u>Kindly confirm that latest guidelines issued by DOT are duly applicable to arrive at PMA for this tender.</u>	Tejas Networks Ltd.	Tender clause is clear and prevails.
457	RailTel/Tender/OT/CO/P/2017-18/VSS/432	114	4.A.45. Preference to Domestic Manufacturers	Bidders seeking Purchase preference (linked with Local content) (PPP-MII) shall be required to meet/exceed the target of Local Content (LC) of _50%_ %.	DIPP refers to the notification issued by Nodal ministry for calculating the percentage of value addition, percentage of applicable PMA and Purchase preference. For the tendered items such as switches, routers etc there are guidelines issued by DOT which is a nodal ministry for Telecom products. For each product there is different value addition defined by the ministry and not fixed at 50%. <u>Kindly confirm that latest guidelines issued by DOT are duly applicable to arrive at PMA for this tender.</u>	Tejas Networks Ltd.	Tender clause is clear and prevails.

458	RailTel/Tender/OT/CO/P/2017-18/VSS/432	115	7. Determination of LC	<p>LC of bid offer shall be the ratio of the whole cost of domestic component in the combination of goods and services to the whole combined cost of goods and services.</p> <p>As per PMA policy, the purchase preference is applicable in individual goods and services offered. The services such as I&C or O&M may not be considered to calculate the LC. There is a formula to calculate the VA in India based on components, IPR, Assembly, Taxes duties and other expense.</p> <p>As per Annexure VII the product cost is only one of the parts for local content by which local content criteria can be achieved even without using the domestically manufactured equipment which is a violation of DIPP policy and respective PMA policy issued by nodal ministry.</p> <p>In order to ensure clarity on local content, DIPP refers to the notification issued by Nodal ministry for calculating the percentage of value addition for all the tendered items such as switches, routers etc. There are guidelines issued by DOT which is a nodal ministry for Telecom products. <u>Kindly confirm that latest guidelines issued by DOT are duly applicable to arrive at PMA for this tender as below:</u></p> <p><u>a. Department of Electronics and Information Technology (DeitY) Notification No. 8(78)/2010-IPHW dated 10 Feb 2012.</u></p> <p><u>b. Department of Telecommunications (DoT) Notification No.18-07/2010-IP dated 05 Oct 2012.</u></p> <p><u>c. Guidelines issued by DeitY vide No. 33(3)/2013-IPHW dated 23 Dec 2013.</u></p> <p><u>d. Guidelines issued by DeitY vide No. 33(7)/2015-IPHW dated 16 Nov 2015.</u></p>	Tejas Networks Ltd.	Tender clause is clear and prevails.
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459	RailTel/Tender/OT/CO/P/2017-18/VSS/432	115, 116	7.3.2.2 Determining of Local Content:	<p>The determination of local content of the working equipments/facility shall be based on the following provision: Working equipment produced in the country is valued as 100% (one hundred per-cent) local content working equipment produced abroad is valued a</p> <p>As per PMA policy, the purchase preference is applicable in individual goods and services offered. The services such as I&C or O&M may not be considered to calculate the LC. There is a formula to calculate the VA in India based on components, IPR, Assembly, Taxes duties and other expense.</p> <p>As per Annexure VII the product cost is only one of the parts for local content by which local content criteria can be achieved even without using the domestically manufactured equipment which is which is a violation of DIPP policy and respective PMA policy issued by nodal ministry.</p> <p>In order to ensure clarity on local content, DIPP refers to the notification issued by Nodal ministry for calculating the percentage of value addition. for all the tendered items such as switches, routers etc. There are guidelines issued by DOT which is a nodal ministry for Telecom products. <u>Kindly confirm that latest guidelines issued by DOT are duly applicable to arrive at PMA for this tender as below:</u></p> <p><u>a. Department of Electronics and Information Technology (DeitY) Notification No. 8(78)/2010-IPHW dated 10 Feb 2012.</u></p> <p><u>b. Department of Telecommunications (DoT) Notification No.18- 07/2010-IP dated 05 Oct 2012.</u></p> <p><u>c. Guidelines issued by DeitY vide No. 33(3)/2013-IPHW dated 23 Dec 2013.</u></p> <p><u>d. Guidelines issued by DeitY vide No. 33(7)/2015-IPHW</u></p>	Tejas Networks Ltd.	Tender clause is clear and prevails.
460	RailTel/Tender/OT/CO/P/2017-18/VSS/432	118	4.A.48. Make in India:	<p>The foreign manufacturer/OEM (Original Equipment Manufacturer)/OSSP (Original Software Service Provider), of the successful bidder, in case of each offered item, is required to set up the manufacturing/development facility in India within 2 years from the</p> <p>1. As per the PMA or DIPP guidelines the equipment to be used in the implementation of the project has to be domestically manufactured and as this project need to completed in fixed timeframe, only OEM meeting VA on the date of bidding will be considered as domestic manufacturers.</p> <p>2. Forcing foreign vendor to start manufacturing in India is good initiative, there is a mention of Penalty for bidder/OEM not able to meet the desired criteria. Kindly confirm how much and what methodology will be adopted to calculate the Penalty.</p>	Tejas Networks Ltd.	Tender clause is clear and prevails.
461	RailTel/Tender/OT/CO/P/2017-18/VSS/432	118	4.A.48. Make in India:	<p>The provisions of the Public Procurement (Preference to Make in India) Order 2017 dated June 15, 2017 (and subsequent amendments, if any) by Department of Industrial Policy and Promotion, GoI shall apply to this tender to the extent feasible</p> <p>DIPP refers to the notification issued by Nodal ministry for calculating the percentage of value addition, percentage of applicable PMA and Purchase preference. For the tendered items such as switches, routers etc there are guidelines issued by DOT which is a nodal ministry for Telecom products. <u>Kindly confirm that latest guidelines issued by DOT are duly applicable to arrive at PMA for this tender.</u></p>	Tejas Networks Ltd.	Tender clause is clear and prevails.

462	RailTel/Tender/OT/CO/P/2017-18/VSS/432	206	Annexure - VII CALCULATION OF LOCAL CONTENT	% LC Combination = Total domestic components cost of goods (A.I.3.a) + Total domestic components cost of services (A.II.5.a) X 100 Total Cost (A.III.c)	As per PMA policy, the purchase preference is applicable in individual goods and services offered. The services such as I&C or O&M may not be considered to calculate the LC. There is a formula to calculate the VA in India based on components, IPR, Assembly, Taxes duties and other expense. Accordingly, the local content in each goods and services needs to be calculated and considered more than 50% ensuring contribution from Domestic Industry. <u>Kindly confirm, this evaluation will be done per cost component in the annexure separately which should be more than 50%.</u>	Tejas Networks Ltd.	Tender clause is clear and prevails.
463	RailTel/Tender/OT/CO/P/2017-18/VSS/432	212	8.8. Type-I Switch:	8.8.2.3 Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement.	We understand the switches shall be deployed in the open field environment. In order to ensure a seamless network deployment and SLA maintenance which is mandate as a part of the tender, we request to kindly consider Industrial Grade switches for the requirement. The temperature and storage range should be specified ensuring uniformity of solution across bidders and OEMs. <u>Kindly confirm to amend the clause as "Bidder to propose switch having Operating Temperature -40 C to +75 C and Storage Temperature as -40C to +85 C to survive the harsh environmental requirement."</u>	Tejas Networks Ltd.	As per tender.
464	RailTel/Tender/OT/CO/P/2017-18/VSS/432	213	8.9. Type-II Switch	24 I) Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement.	We understand it is critical to ensure SLAs are met as per the tender requirement. However the clause for temperature is open and doesn't ensure temperature related risks are mitigated. In order to ensure seamless network deployment and uniformity across offered products, we request to specify the temperature range of the product. <u>Kindly confirm to amend the clause as "Bidder to propose switch having Operating Temperature 0 C to 50 C and Storage Temperature as 0 C to 75 C to meet the environmental requirement."</u>	Tejas Networks Ltd.	As per tender.
465	RailTel/Tender/OT/CO/P/2017-18/VSS/432	213	8.9. Type-II Switch	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.	We understand there are both types of inputs available at stations i.e. AC and DC. In order to ensure better SLAs, we recommend the consider both type of power sources to power the switches which will withstand supply issues in any types of source either AC or DC. <u>We request to amend the clause as "Should have AC and DC 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. and DC -48V DC " Kindly confirm</u>	Tejas Networks Ltd.	As per tender.
466	RailTel/Tender/OT/CO/P/2017-18/VSS/432	213	8.9. Type-II Switch	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.	In case AC and DC recommendation is not accepted, we request to kindly consider field replaceable supplies. In line to same <u>we request to amend the clause as "Should have AC power supply arrangement as given below in chassis without any external adaptors with internal field replaceable redundant power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz. Kindly Confirm</u>	Tejas Networks Ltd.	As per tender.

467	RailTel/Tender/OT/CO/P/2017-18/VSS/432	213	8.9. Type-II Switch	28 Switch should have SAFETY CERTIFICATE OF UL	We would like to bring in your kind notice that UL is a specific laboratory. The certifications for safety standards are EN 60950-1, IEC 60950-1. <u>In line to same, we request you to amend the clause as "Switch should meet Safety Standards specified in EN 60950-1, IEC 60950-1". Kindly confirm.</u>	Tejas Networks Ltd.	As per tender.
468	RailTel/Tender/OT/CO/P/2017-18/VSS/432	214	8.10. Switches Type-III	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.	We understand it is critical to have field replaceable power supplies so that in case on failure they can be replaced without affecting the network services. <u>Kindly consider to amend the clause as "Should have AC power supply arrangement as given below in chassis without any external adaptors with internal field replaceable redundant power supply: AC power supply 100 to 240 V AC with 50 to 60 Hz. Kindly Confirm"</u>	Tejas Networks Ltd.	As per tender.
469	RailTel/Tender/OT/CO/P/2017-18/VSS/432	215	8.10. Switches Type-III	24 Bidder to propose switch having Operating Temperature as per environmental requirement at Indian Railway Stations.	We understand it is critical to ensure SLAs are met as per the tender requirement. However the clause for temperature is open and doesn't ensure temperature related risks are mitigated. In order to ensure seamless network deployment and uniformity across offered products, we request to specify the temperature range of the product. <u>Kindly confirm to amend the clause as "Bidder to propose switch having Operating Temperature as 0 C to 50 C per environmental requirement at Indian Railway Stations"</u>	Tejas Networks Ltd.	As per tender.
470	RailTel/Tender/OT/CO/P/2017-18/VSS/432	215	8.10. Switches Type-III	25 Bidder to propose switch having Storage Temperature as per environmental requirement.	We understand it is critical to ensure SLAs are met as per the tender requirement. However the clause for temperature is open and doesn't ensure temperature related risks are mitigated. In order to ensure seamless network deployment and uniformity across offered products, we request to specify the temperature range of the product. <u>Kindly confirm to amend the clause as "Bidder to propose switch having Storage Temperature as 0 C to 75 C as per environmental requirement."</u>	Tejas Networks Ltd.	As per tender.
471	RailTel/Tender/OT/CO/P/2017-18/VSS/432	215	8.10. Switches Type-III	9 Switch should have SAFETY CERTIFICATE of UL.	We would like to bring in your kind notice that UL is a specific laboratory. The certifications for safety standards are EN 60950-1, IEC 60950-1. <u>In line to same, we request you to amend the clause as "Switch should meet Safety Standards specified in EN 60950-1, IEC 60950-1". Kindly confirm.</u>	Tejas Networks Ltd.	As per tender.
472	RailTel/Tender/OT/CO/P/2017-18/VSS/432	215	8.11. Switches Type-IV	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	We understand it is critical to have field replaceable power supplies so that in case on failure they can be replaced without affecting the network services. <u>Kindly consider to amend the clause as "Should have AC/DC power supply arrangement as given below without any external adaptors with internal field replaceable redundant power supply: i) AC power supply 100 to 240 V AC with 50 to 60 Hz ii) -48 V DC supply. Kindly Confirm"</u>	Tejas Networks Ltd.	As per tender.

473	RailTel/Tender/OT/CO/P/2017-18/VSS/432	216	8.11. Switches Type-IV	10 Bidder to propose switch having Operating and Storage Temperature as per environmental requirement	We understand it is critical to ensure SLAs are met as per the tender requirement. However the clause for temperature is open and doesn't ensure temperature related risks are mitigated. In order to ensure seamless network deployment and uniformity across offered products, we request to specify the temperature range of the product. <u>Kindly confirm to amend the clause as "Bidder to propose switch having Operating Temperature 0 C to 50 C and Storage Temperature as 0 C to 75 C to meet the environmental requirement."</u>	Tejas Networks Ltd.	As per tender including corrigendum.
474	RailTel/Tender/OT/CO/P/2017-18/VSS/432	218	8.12. Core Switch for Datacenter	1 Should have 24x SFP+ based ports with 240 Gbps of stacking bandwidth with dedicated stacking ports.	We would like to bring in your kind notice that this is a product specific requirement. To cater to the requirement of data center, minimal capacity of 240Gbps of stacking shall be available. In data center switches, higher no. of uplink ports can be provided realising the need to stacking bandwidth and they are equivalent to dedicated stacking ports. <u>Kindly confirm our understanding and Kindly confirm to amend the clause as "Should have minimum 24x SFP+ based ports offering 240 Gbps of stacking bandwidth in addition to the offered ports capacity."</u>	Tejas Networks Ltd.	As per tender.
475	RailTel/Tender/OT/CO/P/2017-18/VSS/432	219	8.12. Core Switch for Datacenter	22 Bidder to propose switch having Operating and Storage Temperature as per environmental requirement at Indian Railway Stations.	We understand it is critical to ensure SLAs are met as per the tender requirement. However the clause for temperature is open and doesn't ensure temperature related risks are mitigated. In order to ensure seamless network deployment and uniformity across offered products, we request to specify the temperature range of the product. <u>Kindly confirm to amend the clause as "Bidder to propose switch having Operating Temperature 0 C to 50 C and Storage Temperature as 0 C to 75 C to meet the environmental requirement at Indian Railway Stations."</u>	Tejas Networks Ltd.	As per tender (including corrigendum).
476	RailTel/Tender/OT/CO/P/2017-18/VSS/432	219	8.12. Core Switch for Datacenter	25 Switch shall be PCI/EAL2/NDPP/FIPS certified from common criteria organization.	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 Foreign Product specifications for the domestic manufacturers. <u>In view of the same, please confirm that self certification against the requirements of PCI/EAL2/NDPP/FIPS is acceptable for domestic manufacturers as this is otherwise a restrictive condition for the participation of domestic manufacturers. It is important to mention that even RDSO specs for switches does not ask for certifications and only asks for compliances against the mentioned standards. Please confirm.</u>	Tejas Networks Ltd.	As per tender.

477	RailTel/Tender/OT/CO/P/2017-18/VSS/432	220	8.13.1. SFP-BX (10 KM) Single Fiber:	9 Operating Temperature of the SFP Should be mini 0 to 65 °C (23 to 149 °F)	We understand that these SFPs will be used for Type-I switches primarily and they are envisaged to be industrial grade with temperature withstanding capability of 65 C. In order to have such functionality it is deemed that industrial grade switches with temperature sensitivity of up to 65C is mandatorily required to be quoted for Type-I switches under 8.8 clause. Kindly confirm.	Tejas Networks Ltd.	As per tender.
478	4.A.14.1.3	101	4	The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport etc. in India or abroad in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for at least six (6) months.	Kindly amend the clause to allow more competition "The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport , Outdoor surveillance , City surveillance , Community surveillance etc. in India or abroad in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for at least six (6) months. "	C P Plus	As per tender including corrigendum.
479	4.A.14.1.3	102	5	The OEM should not have been blacklisted currently by Central Govt./State Govt./CPSU in India.	The OEM should not have been blacklisted currently by any govt department Globally	C P Plus	As per tender.
480	4.A.48	113		The foreign manufacturer/OEM (Original Equipment Manufacturer)/OSSP (Original Software Service Provider), of the successful bidder, in case of each offered item, is required to set up the manufacturing / development facility in India within 2 years	The foreign manufacturer/OEM (Original Equipment Manufacturer)/OSSP (Original Software Service Provider), of the successful bidder, in case of each offered item, is required to set up the manufacturing / development facility in India within 3-6 months -- To ensure Foreign OEM's seriousness to maintain the strict timelines of this project	C P Plus	As per tender.
481	8.3.1. 2 Server and Storage System sizing	209	8.3.1. 2 Server and Storage System sizing	Server and Storage System sizing	It is not clear from tender how many analytics are required in total everystation. Is it required in all cameras?	C P Plus	Clause is self explanatory.

482	8.3.1.1 General Parameters	208	8.3.1.1 General Parameters	8.3.1.1.1 For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design parameters.	Corresponding RPF/GRP Thana/Post for a group of C, D and E stations is not clear. This is required for server and storage size calculations. We require how many stations(C,D,E) are grouped under which RPF?	C P Plus	Tender document including corrigendum is clear.
483	8.18. Video Recording & Processing Unit for non RPF Stations	231	8.18. Video Recording & Processing Unit for non RPF Stations	2. Video Recording & Processing Unit shall be installed at each platform/station and shall have Software for Video Management, Video Recording and Analytics as defined in Tender Clause 8.3. In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.	Do we have to do analytics of C,D,E stations in processing unit at the station or the related RPF	C P Plus	Please refer to tender document including corrigendum
484	8.3.2.3 Recording Parameters	211	8.3.2.3 Recording Parameters	8.3.2.3.1.2 In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.	According to tender, local recording of C,D,E stations will be done at processing unit at High Quality(1080p) and corresponding RPF server at low Quality(720p). But in case of network disconnect-connect again between RPF and stations, recording data will be copied from processing unit to RPF server. So how should we calculate recording size at RPF. Based on 1080p or 720p?	C P Plus	Please refer to tender document including corrigendum
485	PACKAGE IV: SOUTHERN	35	PACKAGE IV: SOUTHERN	iii. For Category F stations	Kindly clarify the F stations	C P Plus	Please refer to tender document including corrigendum

486	8.3.1.1 General Parameters	209	8.3.1.1 General Parameters	8.3.1.1.5 Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/marked video data by RPF/GRP personnel for longer retention, FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days, Audit trail logs, application data etc. as per solution requirement and sizing as per SOR.	How much flagged/marked data will be considered for storage?	C P Plus	Bidder to quote Storage for Datacenter as defined in SOR.
487	8.3.1. 2 Server and Storage System sizing	209	8.3.1. 2 Server and Storage System sizing	Server and Storage System sizing	It is not clear from tender how many analytics are required in total at every station. Is it required in all cameras?	i2V Systems Pvt. Ltd	Please refer to tender document including corrigendum
488	8.3.1.1 General Parameters	208	8.3.1.1 General Parameters	8.3.1.1.1 For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design parameters.	Corresponding RPF/GRP Thana/Post for a group of C, D and E stations is not clear. This is required for server and storage size calculations. We require how many stations(C,D,E) are grouped under which RPF? Even if we consider maximum 200 cameras in single server at every RPF, we do not know how many are coming from C,D,E stations?	i2V Systems Pvt. Ltd	Tentative list of stations is uploaded with corrigendum.
489	8.18. Video Recording & Processing Unit for non RPF Stations	231	8.18. Video Recording & Processing Unit for non RPF Stations	2. Video Recording & Processing Unit shall be installed at each platform/station and shall have Software for Video Management, Video Recording and Analytics as defined in Tender Clause 8.3. In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.	Do we have to do analytics of C,D,E stations in processing unit at the station or the related RPF	i2V Systems Pvt. Ltd	Please refer to tender document including corrigendum

490	8.3.2.3 Recording Parameters	211	8.3.2.3 Recording Parameters	8.3.2.3.1.2 In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network rec	According to tender, local recording of C,D,E stations will be done at processing unit at High Quality(1080p) and corresponding RPF server at low Quality(720p). But in case of network disconnect-connect again between RPF and stations, recording data will be copied from processing unit to RPF server. So how should we calculate recording size at RPF. Based on 1080p or 720p?	i2V Systems Pvt. Ltd	Please refer to tender document including corrigendum
491	PACKAGE IV: SOUTHERN	35	PACKAGE IV: SOUTHERN	iii. For Category F stations	Kindly clarify the F stations	i2V Systems Pvt. Ltd	Please refer to tender document including corrigendum
492	8.3.1.1 General Parameters	209	8.3.1.1 General Parameters	8.3.1.1.5 Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/marked video data by RPF/GRP personnel for longer retention, FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days	How much flagged/marked data should be considered for storage?	i2V Systems Pvt. Ltd	Bidder to quote Storage for Datacenter as defined in SOR.
493	CHAPTER 8- Clause 8.21	233	4	Front door:	Being situated at the height on the platform that too exposed to open weather condition which will cause the door to be jammed at a sooner stage itself. So we request you to have Mini-comfort handle with security lock in front door	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
494				Rack should have front door tough and transparent		Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
495				glass fitted on MS/CRCA sheet on sides with Lock		Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
496	CHAPTER 8- Clause 8.21	233	6	Fan module	should we consider fan and rack from same OEM for better construction and SLA or it is allowed to use different OEM for fan and rack.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
497				Compact fan module of 90 CFM working on 230V AC 2 nos. with each rack properly fitted at top of		Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
498	CHAPTER 8- Clause 8.21	233	10	Material used	Being situated at the height on the platform that too exposed to open weather condition which will cause the insects to enter in the equipments. As there are no details of prevention from insect, it is recommended to use PU Foam seal on door with single sheet construction.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
499				CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm	you are requested to amend the clause as under:	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

500					CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm and shall have PU Foam seal on door with single sheet construction.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
501	CHAPTER-8- Clause 8.21	233	10	Material used	It's not CRC/MS, instead it is CRCA/MS as mentioned in point no' 5 above in RFP which are contradictory and it's not 1.6 mm but being the std. size across different requirement it should be 1.5 mm.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
502				CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm		Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
503	CHAPTER-8- Clause 8.21	233	12	Painting	Being situated at the height on the platform that too exposed to open weather condition & as there is going to be harsh environment at sites so we request to use Nano ceramic Coated, electro-phoretic (EC) dip coat primed to 20 microns and then powder coated to RAL 7035 textured pure polyester (PP) to average 80 to 120 microns you are requested to amend the clause as under:	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
504				The good quality powder coating light grey in colour shall be used for painting of the rack.	The good quality powder coating light grey in colour shall be used for painting of the rack with Nano ceramic Coated, electro-phoretic (EC) dip coat primed to 20 microns and then powder coated to RAL 7035 textured pure polyester (PP) to average 80 to 120 microns.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
505	CHAPTER-8- Clause 8.21	233	14	Certification	The IT Enclosure / Racks are also of the equal importance as of the Active Components hosted inside it, because if the enclosure itself gets damaged or unable to effectively protect the equipment hosted inside, the whole performance of the project will be compromised.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
506				OEM should have a valid ISO 9001 certification on the date of opening of bid	As per specs shared by RAILTEL along with RDSO Specs there is no details for Rack certifications.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
507					Therefore you are requested to please ask all the relevant & requisite important certificates and amend the clause the clause as under:	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
508					OEM should have a valid ISO 9001, 14001, 18001, comply with EIA 310 ,DIN 41494 , IEC 297 standards and UL 2416 certification on the date of opening of bid.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
509	CHAPTER-8- Clause	234	3	Front Door	Being situated at the height on the platform that too exposed to open weather condition which will cause the door to be jammed at a sooner stage itself. So	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

510	8- Clause 8.22	234	5	Rack should have front door tough and transparent glass fitted on MS/CRCA sheet on sides with Lock	the door to be jammed at a sooner stage itself. So we request you to have Ergoform S Hanle-comfort handle with security lock in front door.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
511	CHAPTER 8- Clause 8.22	234	6	Fan Modules	should we consider fan and rack from same OEM for better construction and SLA or it is allowed to use different OEM for fan and rack.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
512	CHAPTER 8- Clause 8.22	234	10	Material used	Being situated at the height on the platform that too exposed to open weather condition which will cause the insects to enter in the equipments. As there are no details of prevention from insect, it is recommended to use PU Foam seal on door with single sheet construction.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
513				CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm	you are requested to amend the clause as under:	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
514					CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm and shall have PU Foam seal on door with single sheet construction.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
515	CHAPTER 8- Clause 8.22	234	10	Material used	It's not CRC/MS, instead it is CRCA/MS as mentioned in point no' 5 above in RFP which are contradictory and it's not 1.6 mm but being the std. size across different requirement it should be 1.5 mm.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
516				CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm		Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
517	CHAPTER 8- Clause 8.22	234	13	Painting	Being situated at the height on the platform that too exposed to open weather condition & as there is going to be harsh environment at sites so we request to use Nano ceramic Coated, electro-phoretic (EC) dip coat primed to 20 microns and then powder coated to RAL 7035 textured pure polyester (PP) to average 80 to 120 microns.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
518				The good quality powder coating light grey in colour shall be used for painting of the rack.	you are requested to amend the clause as under:	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
519					The good quality powder coating light grey in colour shall be used for painting of the rack with Nano ceramic Coated, electro-phoretic (EC) dip coat primed to 20 microns and then powder coated to RAL 7035 textured pure polyester (PP) to average 80 to 120 microns.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

520	CHAPTER-8- Clause 8.22	234	16	Certification	The IT Enclosure / Racks are also of the equal importance as of the Active Components hosted inside it, because if the enclosure itself gets damaged or unable to effectively protect the equipment hosted inside, the whole performance of the project will be compromised.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
521				OEM should have a valid ISO 9001 certification on the date of opening of bid	As per specs shared by RAILTEL along with RDSO Specs there is no details for Rack certifications.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
522					Therefore you are requested to please ask all the relevant & requisite important certificates and amend the clause the clause as under:	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
523					OEM should have a valid ISO 9001, 14001, 18001, comply with EIA 310 ,DIN 41494 , IEC 297 standards and UL 2416 certification on the date of opening of bid.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
524	CHAPTER-8- Clause 8.22	234	16	Load Bearing Capacity	No Details have been mentioned in the specification for the very important parameter of load bearing capacity.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
525					Therefore, you are requested to please include followings:	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
526					Load Bearing Capacity : 1400 KG as per industry standard	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
527			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 235 Cr to 365 Cr for respective packages. Then experience in video surveillance has also been mentioned 27 Cr to 78 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.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

528	8.14.1	221	1.1	Firewall solution offered from OEM must be there in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	<p>In the Magic Quadrant Report Network Firewalls there are four parts: Leaders, Challengers, Visionaries, Niche Players. While looking at the prestige of this project the target firewall shall belong to Leaders section of the Magic Quadrant. Further to ensure the success of the project and to evaluate the asked firewall on a proven platform, In the Firewall solution offered from OEM must be there in the leader's Quadrant of the Magic Quadrant for Enterprise Network Firewall published by Gartner for consecutive 5 years (2013, 2014, 2015, 2016 & 2017).</p> <p>So clause shall be amended as under: Firewall solution offered from OEM must be there in the Leaders section of the Magic Quadrant for past 5 years (2013 to 2017) for Enterprise Network Firewall published by Gartner.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
529	8.14.1	221	3.2	NG Firewall should support at least 4,00,000 concurrent sessions	<p>Looking at the voluminous operational requirements of the Project with no. of stations to the tune 6000(+) , NG Firewall should support at least 2,000,000 concurrent sessions.</p> <p>So clause shall be amended as under: NG Firewall should support at least 2,000,000 concurrent sessions.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
530	8.14.1	221	3.3	NG Firewall should support at least 15,000 connections per second	<p>Looking at the voluminous operational requirements of the Project with no. of stations to the tune 6000(+), NG Firewall should support at least 100,000 connections per second.</p> <p>So clause shall be amended as under: NG Firewall should support at least 100,000 connections per second.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
531	8.14.1	222	4.2	Firewall should support 802.3ad ether channel functionality for the failover control & data interfaces for provide additional level of redundancy	<p>Ether Channel is a OEM specific word and the Ethernet standard is IEEE 802.3ad/LACP. Pls remove the word 'ether channel'.</p> <p>So clause shall be amended as under: Firewall should support 802.3ad functionality for the failover control & data interfaces for p</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.

532	8.14.1	222	4.4	Firewall should support 802.3ad Ether channel functionality to increase the bandwidth for a segment.	<p>Ether Channel is a OEM specific word and the Ethernet standard is IEEE 802.3ad/LACP. Pls remove the word 'ether channel'.</p> <p>So clause shall be amended as under:</p> <p>Firewall should support 802.3ad functionality to increase the bandwidth for a segment.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
533	8.14.1	223	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	<p>In this era of application, managing and suporting 3000 applications is very less, instead Railtel should ask for supporing more than 7K applications through the proposed security gateway.</p> <p>So clause shall be amended as under:</p> <p>Should support more than 7000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
534	8.14.1	223	5.23	Should support the capability (by purchasing license) of providing networkbased 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 builtappliance.	<p>The Anti-APT / Advanced Sandboxing feature should be there from day 1 in the NGFW soluion, which would ensure prevention from unknown threats in real time.</p> <p>So clause shall be amended as under:</p> <p>Should have the capability (by purchasing license) of providing networkbased 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 and must prevent in real time unkown malware patient-0 in email and web.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.

535	8.14.1	223	9.1	The management platform must be accessible via a web-based interface and ideally with no need for additional client software	<p>Client based software management & control will provide additional level of security. Therefore asking only for web-based interface will not just deprive the system from added advantages of client based software and it will introduce restrictiveness for solutions being offered.</p> <p>So clause shall be amended as under: The management platform must be accessible via a web-based interface or client software.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
536	8.14.2	224	1.1	Firewall solution offered from OEM must be there in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	<p>In the Magic Quadrant Report Network Firewalls there are four parts: Leaders, Challengers, Visionaries, Niche Players. While looking at the prestige of this project the target firewall shall belong to Leaders section of the Magic Quadrant. Further to ensure the success of the project and to evaluate the asked firewall on a proven platform, In the Firewall solution offered from OEM must be there in the leader's Quadrant of the Magic Quadrant for Enterprise Network Firewall published by Gartner for consecutive 5 years (2013, 2014, 2015, 2016 & 2017).</p> <p>So clause shall be amended as under: Firewall solution offered from OEM must be there in the Leaders section of the Magic Quadrant for past 5 years (2013 to 2017) for Enterprise Network Firewall published by Gartner.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
537	8.14.2	224	3.1	Should support at least 10 Gbps of NGFW Real world performance (includes FW, Application Visibility & IPS) from day one.	<p>Since the NGFW will be connected to the Core DC switch on multiple 10 Gig interfaces and will be the central monitoring and management control station, so its imperative to implement a firewall of higher capacity to take care of the load of traffic which will be running through the firewall. So request Railtel to increase NGFW performance as stated.</p> <p>So clause shall be amended as under: Should support at least 20 Gbps of NGFW Real world performance (includes FW, Application Visibility & IPS) from day one.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

538	8.14.2	224	3.2	NG Firewall should support at least 4,00,000 concurrent sessions	Since the NGFW will be connected to the Core DC switch on multiple 10 Gig interfaces and will be the central monitoring and management control station, and there will be multiple sessions opened in a single location. The current numbers on concurrent sessions and connections are very less to handle this kind of load. So, request Railtel to increase the concurrent sessions and connections per second numbers for better performance. So clause shall be amended as under: NG Firewall should support at least 8,00,000 concurrent sessions	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
539	8.14.2	224	3.3	NG Firewall should support at least 50,000 connections per second	Since the NGFW will be connected to the Core DC switch on multiple 10 Gig interfaces and will be the central monitoring and management control station, and there will be multiple sessions opened in a single location. The current numbers on concurrent sessions and connections are very less to handle this kind of load. So, request Railtel to increase the concurrent sessions and connections per second numbers for better performance. So clause shall be amended as under: NG Firewall should support at least 200,000 connections per second.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
540	8.14.2	224	4.2	Firewall should support 802.3ad ether channel functionality for the failover control & data interfaces for provide additional level of redundancy	Ether Channel is a OEM specific word and the Ethernet standard is IEEE 802.3ad/LACP. Pls remove the word 'ether channel'. So clause shall be amended as under: Firewall should support 802.3ad functionality for the failover control & data interfaces for provide additional level of redundancy.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
541	8.14.2	224	4.4	Firewall should support 802.3ad Ether channel functionality to increase the bandwidth for a segment.	Ether Channel is a OEM specific word and the Ethernet standard is IEEE 802.3ad/LACP. Pls remove the word 'ether channel'. So clause shall be amended as under: Firewall should support 802.3ad functionality to increase the bandwidth for a segment.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.

542	8.14.2	225	5.22	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	<p>In this era of application, managing and supporting 3000 applications is very less, instead Railtel should ask for supporting more than 7K applications through the proposed security gateway.</p> <p>So clause shall be amended as under:</p> <p>Should support more than 7000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
543	8.14.2	225	5.23	Should support the capability (by purchasing license) of providing networkbased 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.	<p>The Anti-APT / Advanced Sandboxing feature should be there from day 1 in the NGFW solution, which would ensure prevention from unknown threats in real time.</p> <p>So clause shall be amended as under:</p> <p>Should have the capability (by purchasing license) of providing networkbased 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 and must prevent in real time unknown malware patient-0 in email and web.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender including corrigendum prevails.
544	8.14.2	226	9.1	The management platform must be accessible via a web-based interface and ideally with no need for additional client software	<p>In the Magic Quadrant Report Network Firewalls there are four parts: Leaders, Challengers, Visionaries, Niche Players. While looking at the prestige of this project the target firewall shall belong to Leaders section of the Magic Quadrant. Further to ensure the success of the project and to evaluate the asked firewall on a proven platform, In the Firewall solution offered from OEM must be there in the leader's Quadrant of the Magic Quadrant for Enterprise Network Firewall published by Gartner for consecutive 5 years (2013, 2014, 2015, 2016 & 2017) So clause shall be amended as under: Firewall solution offered from OEM must be there in the Leaders section of the Magic Quadrant for past 5 years (2013 to 2017) for Enterprise Network Firewall published by Gartner.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

545			1	Additional Clause to be added in NGFW Firewall	<p>The following new clause gives a real time sanitized version of the file, while at the back end the file is checked for any threat intent. This is the real time threat prevention which customer should look into their network. Request Railtel to include this point. You are requested to add the following new clause:</p> <p>The NGFW appliance should be able to eliminate threats and remove exploitable content, including active content and embedded objects and should be able to reconstruct files with known safe elements. The solution should reconstruct downloaded files, delivering sanitized risk-free files to users in real-time.</p>	Marushika Technology Advisors Pvt. Ltd	Not agreed.
546			2	Additional Clause to be added in NGFW Firewall	<p>N+1 clustering is important to provide additional scalability for security gateways along with load balancing across multiple security gateways. Request Railtel to include this point.</p> <p>You are requested to add the following new clause:</p> <p>The NGFW appliance should support N+1 clustering, supporting high-availability/clustering for more than 2 devices.</p>	Marushika Technology Advisors Pvt. Ltd	Not agreed.
547			3	Additional Clause to be added in NGFW Firewall	<p>Feature of holding multiple versions of OS is an important functionality wrt to configuration of security gateways. Request Railtel to include this point.</p> <p>You are requested to add the following new clause:</p> <p>The NGFW appliance shall have a feature of holding multiple versions of OS to support resilience and easy rollbacks during the version upgrades.</p>	Marushika Technology Advisors Pvt. Ltd	Not agreed.

548			4	Additional Clause to be added in NGFW Firewall	<p>In a single pane of glass, Railtel can view their security status on regulatory standards and security best practices. It can also fine tune, monitor and optimize security best practices. Request Railtel to include this point.</p> <p>You are requested to add the following new clause: The NGFW appliance must have an option to Provide actionable recommendations to improve regulatory compliance (PCI-DSS,HiPPA,SOX etc) in the same hardware.</p>	Marushika Technology Advisors Pvt. Ltd	Not agreed.
549			5	Additional Clause to be added in NGFW Firewall	<p>Railtel will have a single pane of glass management for all security gateways & APTs thereby increasing simplicity and reducing complex management system. Request Railtel to include this point.</p> <p>You are requested to add the following new clause: Management should be a separate dedicated Appliance/Hardware for security management and monitoring with tired architecture for security movement and security gateway. The management server should be able to manage and monitor NGFWs, Network APT and Endpoint APT from a single console.</p>	Marushika Technology Advisors Pvt. Ltd	Not agreed.
550		208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network.	<p>i) Please provide the list of 552 cluster locations along with other details i.e. Station name, Railway, Division, category of station etc.. Also provide the information about how many stations of which category will be connected each of these 552 cluster locations.This information is very important as we have to estimate the server, storage, Video processing unit quantities accordingly. ii) As per our understanding there wont be any video recording and processor unit on these 552 locations, and videos of these station will record only on local RFP/GRP thana servers-storage. please confirm.</p>	Marushika Technology Advisors Pvt. Ltd	Tentative list of stations is uploaded with corrigendum.

551	Section I	209	8.3.1.1.5	Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/marked video data by RPF/GRP personnel for longer retention, FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days, Audit trail logs, application data etc. as per solution requirement and sizing as per SOR.	i) Datacenter need to keep only the metadata of flagged/marked video, FRS & VA alerts across all the stations or the actual videos associated with it as well? Please note moving videos for all such events to central datacenter will be huge process. Also, it will be a big task to decide which video need to be deleted and who will decide to delete it finally, else central storage will be full very soon. ii)What is mean by RailTel region?	Marushika Technology Advisors Pvt. Ltd	1. Clause is self explanatory. 2. RailTel has invited tender in four packages i.e. Northern Region, Western Region, Eastern Region and Southern Region.
552	Section I	11	4	Supply, Installation, Testing and commissioning of software (per camera basis) for Video management, Video recording, Video Analytic and Facial Recognition system for the server hardware quoted in Item no. A.2(a) as defined in clause 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	i) Video management, Video analytics and Facial recognition are three different software and have different quantity requirements i.e. Not every camera have VA and/FR. So we suggest to split this line item in three sub parts. ii) Discription says the license has to be per camera basis, however quantity mentioned is of number of clusters? We suggest to consider it on per camera basis as the breakup of licenses to various clusters can be done even before implementation.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
553		41	XIX	Central Command control center has been provisioned in Northern Region package. Therefore, all successful bidder of other packages are required to share API of their quoted VMS to ensure integration with central command and control center to achieve desired functionality as mentioned in the tender document.	i) Can you please confirm which line items in Northern region package belong to said provisioned Commanad and Control Center? ii) Please provide the detailed functional specification of Command and Control Center software.	Marushika Technology Advisors Pvt. Ltd	Please refer SOR Head-II item no.3 of Northern Package and tender clause 8.26 of Chapter-8.
554	Section I	8	2 (a)	VSS Server Hardware and all accessories required for installation purposes for Video recording, Video Analytic and Facial Recognition system as defined in clause 8.2 and 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	i) Video Recording, Video analytics and Facial recognition are three different software and have different quantity requirements i.e. Not every camera have VA and/FR. So we suggest to split this line item in three sub parts.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
555	Section I	10	3 (a)	VSS Server Hardware for Video Management and Facial Recognition database system as defined in clause 8.2, 8.3 of chapter 8 and all accessories required for installation purposes. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	So we understand that each region will have independent management system, and this line item is for servers required in regional headquarter. please confirm.	Marushika Technology Advisors Pvt. Ltd	Each Region will have their own Video Management System and Facial Recognition Database system installed at RailTel Datacenter.

556		41	XX	Bidder may also propose a software based Digital Key-Board (joystick) against SOR Head-I, 2 (c) of packages without any loss in the functionality and performance of the system.	What does this mean? Every VMS provide onscreen control for PTZ, however hardware keyboard provides completely different experience and can not be compaired. We suggest to delete this clause or delete Joystick line item for BOQ to keep the clarity.	Marushika Technology Advisors Pvt. Ltd	Tender/ corrigendum clause shall prevail.
557		41	XVII	Rack Space at Datacenters and associated charges: RailTel will provide Racks at Gurugram and Hyderabad datacenter for hosting VSS Cloud infrastructure as defined in the tender. Bidders are requested to optimize the number of racks requirement in the datacenter. Rack requirements shall be associated with cost and bidder will be charged INR 8 Lacks/annum/rack for their rack requirements. The Bidder must provide rack space requirements in their technical offer keeping load available on each rack (<=5KVA) for the complete solution (for DC & DR) for all components like Server, Switching, Routers, Storage etc	We understand that this point relates to hosting of servers/storage mentioned in BOQ line no. 3 of all regions. However please clarify whether every component in DC need to be replicated in DR? If so, where it is captured in BOQ? Line item 3 looks to be replicated in DR? If so, where it is captured in BOQ? Line item 3 looks to be considering BOQ for DC only?	Marushika Technology Advisors Pvt. Ltd	Only EMS will be replicated in DC and DR.
558		63	3.B.7	Proposed solution has to provide seamless recording/ Playback of all cameras for last 30 days at any given point of time at the RPF/GRP thana/Post. The recording and playback availability should not be affected in case of failure of any server at RPF/GRP Thana/Post. The Recordings of last 30 days should be available through redundant server(s) in case of a server failure.	Redundant recording will also double the storage requirement. As we understand videos are already being recorded at every station Video recording and processing unit (for 7 days), it act as a redundant recording already. Generally If there is any critical incident, it will come to the notice within 7 days. So please reconsider the redundant recording requirement ar RPF/GRP thana/post which will double the overall server as well as storage cost	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
559		167, 168, 169	Chapter 7	Total camera quantity mismatch	If we calculate the total number of Fixed bullet cameras from BOQ of four region it comes to 72182, however we calculate the same from various tables given on page 167, 168 and 169 it comes to 72451 causing a difference of 269 cameras.Can you please cross check are correct accordingly.	Marushika Technology Advisors Pvt. Ltd	Bidder to quote quantities of cameras as per SOR.

560	Section I	209	8.3.1.2	Video feed from cameras of group of stations (cluster) shall be stored in external storage for 30 days on H.265 at RPF/GRP Thana/Post.	H.265 being a heavily compressed video, it saves a bit on storage requirements. However on the other side it pose lot of challenges on decoding on client stations as the client machines can decode much less H.265 streams compaired to H.264. Most of the analytics solutions are also not yet proven on H.265 compressed videos as it lose lot of details within the image during compression. In order to run analytics on H.265 streams even servers will need to have too costly Graphics cards (CUDA). So we request to keep it H.264 which is proven solution for last few years and is in line with RDSO specifications.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/ corrigendum prevails.
561	Section I	209	8.3.1.2	At each such cluster i.e. RPF/GRP Thana/Post location, bidder to size storage, server requirement and propose a single server considering recording of 200 FHD cameras, analytics on 40 cameras, FRS with local matching capability with the watchlist database on up to 8 cameras stream at each RPF/GRP Thana/Post locations without any impact on the performance of the system and overall solution requirement.	It will not be practical to record 200 cameras, analytics as well as FRS on a single server, please consider revising the clause.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/ corrigendum prevails.
562	Section I	209	8.3.1.2	Bidder to also propose a redundant server per RPF/GRP Thana/Post location to ensure uninterrupted services as mentioned in above para in case of failure of main server.	i) Does this mean we need to have Redundant (1:1) recorder servers or N:1 ? li) Redundant servers shall have storage for 30 days or 7 days is acceptable?	Marushika Technology Advisors Pvt. Ltd	Cluase is self explanatory. Bidder to propose Redundant server(s) to ensure uninterrupted services
563	Section I	211	8.3.2.3.1.1 (A) & (B)	(A) On Station collocated with RPF/GRP Thana/Post: i) One Full HD stream (@1080P and@25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and@ 15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.	H.265 being a heavily compressed video, it saves a bit on storage requirements. However on the other side it pose lot of challenges on decoding on client stations as the client machines can decode much less H.265 streams compaired to H.264. . Most of the analytics solutions are also not yet proven on H.265 compressed videos as it lose lot of details within the image during compression. In order to run analytics on H.265 streams even servers will need to have too costly Graphics cards (CUDA). So we request to keep it H.264 which is proven solution for last few years.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/ corrigendum prevails.

564	Section I	211	8.3.2.3.1.1 B	On other stations: i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit.	As per this requirement One stream will be configured with HD1080P & HD720P and 4K & HD1080P for Full HD and 4K camera respectively. However video analytics and Face recognition software generally require 4CIF stream for processing. So we request to modify this requirement as HD1080P & 4CIF and 4K & 4CIF for Full HD and 4K camera respectively.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/ corrigendum prevails.
565	RDSO Specification		2.8 (Amendment No. 1.0)	The approximate storage capacities per Camera with H.264 Video Compression shall be as under	i) Should this be considered as minimum benchmark for storage sizing requirement? ii) As per RDSO clause 4.2.2 amendment 1, bandwidth for 4K shall be less than 3 times (8Mbps) than Full HD (3Mbps) camera. However the storage requirement for 4K is shown 4 times than Full HD. So, can you please confirm 4TB shall be considered or should be calculated as per 8Mbps bandwidth (Less than 3TB)?	Marushika Technology Advisors Pvt. Ltd	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications).
566	RDSO Specification and RAILTEL Tender		3.6 (Amendment No. 1.0), 18.1.2 and 8.18.1 of RAILTEL Tender	Vendors shall have option to quote either Server based solution or NVR based solution in accordance with Clause no. 10.0 and Clause no. 12.0 for Video Management and Video Recording or a combination of both the solutions for both the implementation scheme as per Diagram-1 & Diagram-2. Software capabilities and Storage capacities shall be same for both the solutions. AND "The network video management software shall be licensed and shall operate on open architecture and shall require no proprietary IT hardware". And "Bidder to propose an Open (Non-proprietary) hardware-based unit to be installed at Stations."	As per RAILTEL tender requirement all the hardware is supposed to be Non-proprietary which will superseed the RDSO clause NVR. So we consider that propriotery NVR based solution will not be accepted. Please confirm.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/ corrigendum prevails

567	Section I	211	8.3.2.3.1.1 B	On other stations: i) One Full HD stream (@1080P and @25FPS) from Full HD Camera on H.265 and ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit. iii) One HD stream (@720P and @25FPS) from Full HD Camera on H.265 and iv) One FHD stream (@1080P and @15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.	i) As we understand from 8.1.3.2 RPF thana server and storage shall be sized for 200 cameras, similarly is there any sizing requirement for Video recording and processing unit. ii) As per this clause only HD720 & HD1080P stream shall be recorded from other stations to RPF/GRP thana server/storage for Full HD and 4K cameras respectively, however as per RDSO all the recordings shall be Full HD and 4K resolution, please confirm what should be considered? iii) If we have to go with HD720P and HD1080P recording for other stations cameras on RPF/GRP thana, do we need to calculate storage ourself or need to follow RDSO clause no. 2.8 ?	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
568	Section I	231	8.18.2	Video Recording & Processing Unit shall be installed at each platform/station and shall have Software for Video Management, Video Recording and Analytics as defined in Tender Clause 8.3. In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.	i) As per the architecture explained above management servers will be at Regional HQ, whereas Thana/RPF will have recording and analytics infrastructure. So, alarms can be transferred to central management on realtime basis as there is no local management servers which can hold this data. Alarm management is an activity carried by management servers. So, request to reconsider the requirement of sending alarm data to HQ post network reconnection.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
569	Section I	231	8.18.5	Bidder to propose single unit hardware on each platform/station of Railway Station to achieve the functionalities as defined above.	It will not be advisable to load analytics application on platform/station units considering the processing power limitations of such edge devices. Non availability of analytics for a brief period of network failure will not have much impact on overall utility of the surveillance system, however if this load affects the performance of edge devices, it will impact the system functioning irrespective of failures.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
570		60	3.B.3.6	IP Video Surveillance is traffic hungry and delay sensitive service. To ensure proper functioning of this project, network architecture must have features like Multicast VLAN Registration, IP SLA, Auto-QoS, Auto Ports configuration to detect end device type connected to port and configuring QoS automatically on basis of device.	Please confirm that backbone network provided by Railtel will support Multicast communications across the stations/DHQ/National HQ etc. and configuration of the same will be in RAILTEL scope.	Marushika Technology Advisors Pvt. Ltd	Configuration requirement of RailTel Backbone network will be under RailTel scope only and meet all basic requirements.

571	RDSO Specification		2.8 (Amendment No. 1.0)	In case implementation is done as per Diagram-2, Video data and Alarms shall be stored for at least 30 days (7 days where Cloud is connected) at RPF/GRP Thana/Posts.	As per this clause of RDSO we need to do recording for only 7 days in RPF/GRP Thana if cloud is connected. However as per our understanding of the tender requirement, we need to record for 7 days at every remote station (No local RPF/GRP) on edge device and for 30 days on servers on stations with RPF/GRP thana. Please confirm this is correct and will supersede RDSO.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
572	RDSO Specification and RAILTEL Tender		3.9 (Amendment No. 1.0) and 8.3.1.2 of RAILTEL tender	A failover Server/NVR shall be provided at Stations under Scheme-1 and at RPF/GRP Thana/Posts under Scheme-2. Failover system shall support defined number of Servers/NVRs in N : 1 configuration (Value of N to be specified by the purchaser). The failover Server/NVR shall take over the operation smoothly without any impact on the operation. For data stored and computed at Cloud, the Cloud shall provide failover system for protection of data and operation. AND Bidder to also propose a redundant server per RPF/GRP Thana/Post location to ensure uninterrupted services as mentioned in above para in case of failure of main server.	i) RDSO clause further demand N:1 failover, RAILTEL tender clause further ask for Redundant server. Please note Redundant and Failover are two different functionalities. Please confirm you need Failover or Redundant? Also note Station cameras are already getting recorded in local video processing unit, then it also get recorded in RPF/GRP thana. Do we really need to provide third layer of recording? ii) We consider the CLOUD here as a RAILTEL datacenter in Gurgaon and Hyderabad and the management application installed in Gurgaon should have Hyderabad as a Failover. Please confirm.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
573	RDSO Specification		4.2.3 (Amendment No. 1.0)	The Edge Devices shall be capable of buffering the Video data and Alarms to its internal storage when connection to the MPLS/ IP network is temporarily unavailable. When the network recovers, the data on Edge devices shall automatically be transferred to the Server/NVR installed at respective RPF/GRP Thana/Post without any impact on the system operations.	Backfilling of lost video data to recording server is managed through Camera Edge recording (SD card recording) and does not have any role of Edge Devices. So we consider the same is acceptable as functional requirement is still met.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
574	RDSO Specification		10.1.3.(c)	One Server each is required for Video Analytics for 32 nos. of cameras.	With some solutions VA can be managed within Video Recording servers without needing dedicated servers for the same. Also, as per clause no. 18.4.7 analytics can be at firmware level as well, which will avoid the server requirement. We consider that such optimization is acceptable as it is design based solution. Please confirm.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

575	RDSO Specifica tion		18.4.1 & 18.4.7 & 20.4 & 20.6 XVII	<p>Possible applications of analytics software over the IP based video surveillance system, for specified number of cameras for specific stations, as defined by purchaser shall include the following minimum video analytics software.</p> <p>i) Intrusion Detection ii) Left Object Detection iii) Overcrowding iv) Camera Tampering</p>	<p>Please specify the quantity of analytics for each type of analytics for each type of station, so as we can quote accordingly. Considering the commercial weitage of the analytics licensing we strongly suggest to provide fixed quantity of analytics for each type of station which will ensure fair commercial evaluation.</p>	Marushika Technology Advisors Pvt. Ltd	As per tender. Please refer Note-1 of chapter-8 (Technical, Functional requirements & specifications). Bidder to quote as per SOR.
576	RDSO Specifica tion		4.2.5 Ammendm ent no. 1	<p>Server/NVR for Video management and Video Recording shall be provided at RPF/GRP Thana/Post for viewing, monitoring and recording of cameras aggregated from cluster of stations. The Video and Alarm data of minimum 30 days (7 days where Cloud is connected) shall be stored at RPF/GRP Thana/Post. The Video and Alarms of selected cameras/locations shall also be accessible to Divisional HQ/any other centralized location or other clients through MPLS/ IP network as per requirement of purchaser for monitoring and viewing.</p>	<p>i) In contradiction to this clause, from RAILTEL document clause no. 8.3.2.3.1.1 (A) & (B) we need to record for 30 days on RFP/GRP thana eventhough cloud is in use. So, we understand that the expected architecture is mixture of Diagram 1 and Diagram 2. Please confirm the understanding is correct. ii) Cloud (Gurgaon/Hyderabad datacenter) will not have any video recording, and will only have management databases and event related exported video clips. Please confirm the understandings are correct.</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
577	RDSO Specifica tion		4.2.8 Ammendm ent no. 1	<p>Video Analytics and Face Recognition System & Storage 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 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. All Video data and alarms generated by Video Analytics and Face Recognition Software at the Cloud shall be available at RPF/GRP Thana/Posts and Divisional HQ/ any other centralized location or any other clients through Cloud.</p>	<p>AS per our understanding from BOQ line item. 2 a and 3 a, VA and FRS processing will happen locally at RPF/GRP thana and only metadata will be sent to management servers in datacenter. Please confirm this is correct understanding?</p>	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

578	RDSO Specification		4.2.10 Amendment no. 1	Edge Device shall have the following minimum specifications or otherwise as specified by the purchaser:-	In many cases RFP/GRP thana will be on A1/A type station, and will host the recording for nearby A, B,C,D & E stations. Type A, B, C and D have 60, 38 & 26 cameras respectively and further 10% spare capacity as per requirement. So, it will be a good solution to provision a single high configuration server on these locations with aircooled cabinets in equipment room rather than multiple devices on platforms. This will simplify installation, maintenance and physical security of the core processing component. Please allow such option.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
579	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify how many watch list needs to be supported at central and cluster level. It will help in designing the solution and server sizing.	Marushika Technology Advisors Pvt. Ltd	Please refer clause 8.3.1.1.3 of Chapter-8
580	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify maximum limit per watch list.	Marushika Technology Advisors Pvt. Ltd	As per RDSO Specification.
581	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify whether cluster watchlist will be same as central watchlist or central watchlist will accumulate watchlists created at cluster level.	Marushika Technology Advisors Pvt. Ltd	Please refer clause 8.3.1.1.3 of Chapter-8.
582	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify will the watchlist be created at central level and then pushed to each cluster OR it can be created/amended at cluster level too and then synchronized with central and from central to other clusters	Marushika Technology Advisors Pvt. Ltd	Please refer clause 8.3.1.1.3 of Chapter-8.
583	8.3	209	8.3.1.1.3	This Central Watchlist shall be in sync with each individual RPF/GRP Thana/ Post local FRS servers as per daily schedule.	Please specify will it be allowed to delete images from watch list at cluster level? Because this will be synchronized with Central and thereafter with all cluster level watch lists. This could create a security issue if someone tampers with watch lists.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
584	Chapter 3	66	8.3.1.1.3	Bidder to propose Database server for Facial Recognition system in High Availability (HA) mode in RailTel Datacenter.	Please specify if HA configuration of FRS servers is required in both DC and DR OR HA should be considered as primary server in DC and redundant in DR	Marushika Technology Advisors Pvt. Ltd	Database server for FR shall be hosted in RailTel Datacenter in HA mode (Gurugram/Secunderabad) for each Region.
585	8.3	208	8.3.1.1.1	For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design parameters	Please share the list of cluster wise stations with category to calculate number of cameras per cluster	Marushika Technology Advisors Pvt. Ltd	Tentative list of stations is uploaded with corrigendum.

586		73	Clause No. 19.25 (b): RDSO Specs FRS	Face recognition shall have false negative identification Rate (FNIR) with Rank-1, shall be less than or equal to 10% in passenger gate dataset type (Semi Non-cooperative) with N=480 and less than or equal to 70% with high near field of view criteria in sports Arena dataset type (Non-cooperative) with N= 480 of latest NIST report (Face in video Evaluation).	Above-mentioned point is specifically favoring SPECIFIC FRS OEM . There are other vendors also who have participated in “Face in Video Evaluation (FIVE) Face Recognition of Non-Cooperative Subjects” and the report was published in March 2017.The report is publically available at http://nvlpubs.nist.gov/nistpubs/ir/2017/NIST.IR.8173.pdf . But by specifically putting this one test out of so many tests in complete NIST report, is just favouring vendor and is not allowing other vendors to participate. Ideally, Overall NIST Report results should be considered.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
587	8.20	Page-232	A (x)	(A) FMS (12/24 Fiber) x) Pigtails shall be color coded similar to the fiber color coding.	All pigtails come in single color, ferruling/labeling is used for fiber core identification. Please change that pigtails shall be similar to the fiber color coding or single color.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
588	8.20	Page-232	A (xiv)	(A) FMS (12/24 Fiber) xiv) Insertion Loss: ≤ 0.2 dB	As per standard insertion loss of pigtails should be ≤ 0.35 dB, please change.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
589	8.20	Page-232	B (i)	(B) Specifications of Patch Cords i) Operating Temperature: -60°C to +85°C.	Asked temprature is not required for indian weather, It should be -10°C to +60°C. Please change.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
590	8.20	Page-232	B (a)	(B) Specifications of Patch Cords a) Insertion Loss of complete patch cord including adapter when tested from each direction in all conditions of operations: ≤ 0.3 dB	As per standard insertion loss of patch cord should be ≤ 0.35 dB, please change.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.
591	8.20	Page-232	B (v)	(B) Specifications of Patch Cords v) The connectors must be make of reputed OEMs 3M, Huber-Shuner, R&M, TE Connectivity/Raychem.	All manufacturer come with own connector, please consider Schneider also.	Marushika Technology Advisors Pvt. Ltd	Clause as per tender/corrigendum prevails.

592	Chapter 2 SOR	Page-13	Chapter 2 SOR	7. Supply, Blowing/Pulling/laying of OFC, data cable, electrical cables, PVC pipe and GI pipe for work at Stations (STP CAT-6, 12 Core metal strengthened outdoor un-armored Optic Fiber Cable (ITU-T G.652.D), PVC insulated 3 core 4 Sq. mm (1.1 KV grade) outdoor strengthened Copper Cable for UPS supply distribution (as per BIS/ISI standards), 32mm PVC conduit pipe (ISI mark), 32mm PVC flexi-ble pipe, 40mm dia. HDPE pipe, GI pipe with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as defined in chapter 8)	Please share the details for fiber cable length calculation.	Marushika Technology Advisors Pvt. Ltd	Please refer to revised SOR being uploaded with SOR.
593	8.9. Type-II Switch	212	1	Should have minimum 12 x GE SFP based ports.	Should have minimum 24 x GE SFP based ports.	HPE	As per tender/ corrigendum.
594	8.9. Type-II Switch	212	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 Equivalent Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies"	HPE	As per tender/ corrigendum.
595	8.11. Switches Type-IV	216	14- (x.)	It shall also support SYNC Ethernet and SNMPv3.	Pls remove this specs.	HPE	As per tender/ corrigendum.
596	8.11. Switches Type-IV	210	15-(xxi.)	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."	HPE	As per tender/ corrigendum.
597	8.11. Switches Type-IV	210	15-(xxii)	xxii. 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 Ra	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".	HPE	As per tender/ corrigendum.
598	8.11. Switches Type-IV	210	15-(xxv.)	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"	HPE	As per tender/ corrigendum.
599	8.11. Switches Type-IV	217	15-(xxviii)-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"	HPE	As per tender/ corrigendum.

600	8.11. Switches Type-IV	217	15-(xxviii)-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"	HPE	As per tender/ corrigendum.
601	8.11. Switches Type-IV	217	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)."	HPE	As per tender/ corrigendum.
602	8.11. Switches Type-IV	217	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"	HPE	As per tender/ corrigendum.
603	8.11. Switches Type-IV	218	15-(xxviii)-9	L2 Protocol Tunneling.	Request you to kindly modify this clause as " L2 Protocol Tunneling or equivalent"	HPE	As per tender/ corrigendum.
604	8.11. Switches Type-IV	218	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"	HPE	As per tender/ corrigendum.
605	8.11. Switches Type-IV	218	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.	HPE	As per tender/ corrigendum.
606	8.11. Switches Type-IV	218	17- (ii.)	Switches should be NEBS certified.	Request you to kindly remove this clause.	HPE	As per tender/ corrigendum.
607	8.12. Core Switch for Datacenter	219	1	Should have 24x SFP+ based ports with 240 Gbps of stacking bandwidth with dedicated stacking ports.	Should have 24x SFP+ based ports with 160 Gbps of stacking bandwidth with dedicated stacking ports.	HPE	As per tender/ corrigendum.
608	8.13.1. SFP-BX (10 KM) Single Fiber:	220		8.13.1. SFP-BX (10 KM) Single Fiber:	Please modify as "8.13.1. SFP-BX (10 KM) /SFP (10Km) Single Fiber: "	HPE	As per tender/ corrigendum.
609	8.13.1. SFP-BX (10 KM) Single Fiber:	220	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"	HPE	As per tender/ corrigendum.

610	8.13.2. SFP+ (10 Km)	220	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"	HPE	As per tender/ corrigendum.
611	8.13.3. SFP+ (80 Km):	220	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"	HPE	As per tender/ corrigendum.
612	8.13.4. SFP+ (350mtrs)	221	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"	HPE	As per tender/ corrigendum.
613	Server Hardware: 10.1	21	1	Processor - Intel Xeon Processor	Processor - Intel Xeon Processor or AMD EYPC processor	HPE	As per tender/ corrigendum.
614	Server Hardware: 10.1	21	5	CPU Cache - 20 MB	CPU Cache - 11 MB or higher	HPE	As per tender/ corrigendum.
615	8.4. Storage	211	9	RDSO - 12.0 External Storage Device: 12.1 External Storage device shall have minimum following specifications:- S.No. 9 RAID configuration - RAID 5/6	Clarification Required	HPE	As per tender/ corrigendum.
616	Addition al Point				EMS Solution should be included in a single package along with DC & DR as a common EMS would avoid interoperability issues or the technically qualified EMS Solution which is lowest priced across 4 packages should be rolled out across the packages	HPE	As per tender/ corrigendum.
617	4.A.14.1 .3 Eligibility Criteria Requirements for OEM's:	101	2	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR 360 crores for OEMs supplying camera, INR 100 crores for OEMs of switches and INR 225 crores for OEMs of IT hardware (server and storage) each in last 3 financial years (i.e. current year and three pre-vious financial years) from the date of opening of tender.	Software component is equally important as hardware because final output of the hardware comes from the software. We request you to please put PQ for face recognition software OEM also. Please add- 1. FRS Software OEM should be registered company in india since atleast last 10 years. 2. FRS OEM should be CMMI level 5 company. 3. Proposed FRS software should have been deployed in India in atleast 3 safe city surveillnace project and should be running successfully. FRS OEM shall submit the relevent PO copy of the work.	NEC Technologies	As per tender/ corrigendum.

618	RDSO latest specification for CCTV system			Clause No. 19.25 (b): Face Recognition Algorithm shall have False Negative Identification Rate (FNIR) with Rank-1 (R=1), shall be less than or equal to 10% in Passenger Gate dataset type (Semi Non-Cooperative) with N = 480 and less than or equal to 70% with High Near Field of view criteria in Sports Arena dataset type (Non-Cooperative) with N = 480 of latest NIST Report (Face In Video Evaluation).	Measurement of biometric solution is based on FAR and FPR which tells the accuracy and performance of the Biometric solution like Face recognition. Mentioned accuracy in clause 19.25 b is very less, please increase the accuracy upto 95% in case of passenger gate dataset type and upto 50% atleast in case of sports arena dataset type. This shall ensure implementation of a fruitful and good system in Railways.	NEC Technologies	As per tender/ corrigendum.
619	8.3.2.3 Recording Parameters	211	8.3.2.3.1.3	The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to design-nated clients at RPF/Div. HQ (Control Room)/others.	There are few other methods also to perform face recognition without affecting accuracy and performance of the FRS system. Please allow solution provider(FRS OEM) to provide the solution as per their design. It may help in reducing and optimize the hardware requirement hence cost. Please suggest.	NEC Technologies	As per tender/ corrigendum.
620	8.3.2.3 Recording Parameters	211	8.3.2.3.1.3	The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to design-nated clients at RPF/Div. HQ (Control Room)/others.	Also, FRS does not need necessarily UHD feed for face matching. 2 MP resolution is more than enough to provide good accuracy of FRS result. Also, UHD cameras for FRS shall increase the cost of the solution unnecessarily. Hence we request to change FRS cameras from UHD to FHD else allow bidders to submit their FRS solution either with UHD or FHD without compromising the accuracy and performance of the FRS system.	NEC Technologies	As per tender/ corrigendum.
621	8.3.2.3 Recording Parameters	211	8.3.2.3.1.3	The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to design-nated clients at RPF/Div. HQ (Control Room)/others.	Please suggest how many average cameras shall be there on each RPF/GRP Thana/Post. Should we consider 8 FRS camera license at each RPF/GRP Thana/Post	NEC Technologies	As per tender/ corrigendum.
622	8.14.1	1.1	221	Firewall solution offered from OEM must be there in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	Firewall solution offered from OEM must be there in the leader's Quadrant of the Magic Quadrant for Enterprise Network Firewall published by Gartner for consecutive 3 years (2015, 2016 & 2017)	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
623	8.14.1	3.2	221	NG Firewall should support at least 4,00,000 concurrent sessions	NG Firewall should support at least 2,00,000 concurrent sessions	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
624	8.14.1	3.3	221	NG Firewall should support at least 15,000 connections per second	NG Firewall should support at least 100,000 connections per second	Check point Software Pvt. Ltd.	As per tender/ corrigendum.

625	8.14.1	4.2	222	Firewall should support 802.3ad ether channel functionality for the failover control & date interfaces for provide additional level of redundancy	Firewall should support 802.3ad functionality for the failover control & date interfaces for provide additional level of redundancy	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
626	8.14.1	4.4	222	Firewall should support 802.3ad Ether channel functionality to increase the bandwidth for a segment.	Firewall should support 802.3ad functionality to increase the bandwidth for a segment.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
627	8.14.1	5.22	223	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Should support more than 7000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
628	8.14.1	5.23	223	Should support the capability (by purchasing license) of providing networkbased 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 builtappliance	Should have the capability (by purchasing license) of providing networkbased 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 and must prevent in real time unkown malware patient-0 in email and web.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
629	8.14.1	9.1	223	The management platform must be accessible via a web-based interface and ideally with no need for additional client software	The management platform must be accessible via a web-based interface or client software.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
630	8.14.2	1.1	224	Firewall solution offered from OEM must be there in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	Firewall solution offered from OEM must be there in the leader's Quadrant of the Magic Quadrant for Enterprise Network Firewall published by Gartner for consecutive 3 years (2015, 2016 & 2017)	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
631	8.14.2	3.1	224	Should support at least 10 Gbps of NGFW Real world performance (includes FW, Application Visibility & IPS) from day one.	Should support at least 20 Gbps of NGFW Real world performance (includes FW, Application Visibility & IPS) from day one.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
632	8.14.2	3.2	224	NG Firewall should support at least 4,00,000 concurrent sessions	NG Firewall should support at least 8,000,000 concurrent sessions	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
633	8.14.2	3.3	224	NG Firewall should support at least 50,000 connections per second	NG Firewall should support at least 200,000 connections per second	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
634	8.14.2	4.2	224	Firewall should support 802.3ad ether channel functionality for the failover control & date interfaces for provide additional level of redundancy	Firewall should support 802.3ad functionality for the failover control & date interfaces for provide additional level of redundancy	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
635	8.14.2	4.4	224	Firewall should support 802.3ad Ether channel functionality to increase the bandwidth for a segment.	Firewall should support 802.3ad functionality to increase the bandwidth for a segment.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.

636	8.14.2	5.22	225	Should support more than 3000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Should support more than 7000 application layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
637	8.14.2	5.23	225	Should support the capability (by purchasing license) of providing networkbased 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 builtappliance	Should have the capability (by purchasing license) of providing networkbased 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 and must prevent in real time unkown malware patient-0 in email and web.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
638	8.14.2	9.1	226	The management platform must be accessible via a web-based interface and ideally with no need for additional client software	The management platform must be accessible via a web-based interface or client software.	Check point Software Pvt. Ltd.	As per tender/ corrigendum.
639		Sl. No.		Additional Clause to be added :		Check point Software Pvt. Ltd.	
640		1		The NGFW appliance should be able to eliminate threats and remove exploitable content, including active content and embedded objects and should be able to reconstruct files with known safe elements. The solution should reconstruct downloaded files, delivering sanitized risk-free files to users in real-time		Check point Software Pvt. Ltd.	Not agreed.
641		2		The NGFW appliance should support N+1 clustering, supporting high-availability/clustering for more than 2 devices.		Check point Software Pvt. Ltd.	Not agreed.
642		3		The NGFW appliance shall have a feature of holding multiple versions of OS to support resilience and easy rollbacks during the version upgrades.		Check point Software Pvt. Ltd.	Not agreed.
643		4		The NGFW appliance must have an option to Provide actionable recommendations to improve regulatory compliance (PCI-DSS,HiPPA,SOX etc) in the same hardware.		Check point Software Pvt. Ltd.	Not agreed.

644		5		Management should be a separate dedicated Appliance/Hardware for security management and monitoring with tired architecture for security movement and security gateway. The management server should be able to manage and monitor NGFWs, Network APT and Endpoint APT from a single console.		Check point Software Pvt. Ltd.	Not agreed.
645	Chapter 2 - Schedule of Requirements	###		Schedule of Requirements	Kindly clarify if the succesful 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 sucessful bidder?	Honeywell	Normally a composite order is issued against a work.
646	Chapter-2 Package 1 - Northern (Relevant Sections for other packages - Package 2, Package 3 and Package 4)	15	2	Training of personnel over and above the on-site training, during the installation, maintenance and supervision period as detailed in the tender document. 1510 man weeks	We need details on number of training/ locations.	Honeywell	Centralized as well as distributed locations such as Stations, Region HQ, RPF Chowkis etc. as per requirement.
647	Chapter-2 Package 1 - Northern (Relevant Sections for other packages - Package 2, Package 3 and Package 4)	15	2	L1 support engineer in Field (@ defined per annum rate of Rs.3,00000/-) - Man-Years 302*	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	Honeywell	As per SOR

648	Chapter 2 - Schedule of Requirements	41	Note: Point b)	The supply of items shall be done in phased manner strictly in line with the progress of the work. Successful bidder is required to discuss project progress and planning of supply material in consultation with the purchaser. Dumping of material shall not be permitted and no payment shall be released for such items.	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 along with priority and dispatch phase	Honeywell	Material after inspection is to be despatched to the work place directly by bidder. Tentative list of station is being provided and final shall be given to successful bidder before the works of stations.
649	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance System	47	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	Honeywell	As per tender /corrigendum.
650	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance System	47	3.A.1.4.8	Remote operation and monitoring of a cluster of stations from RPF/GRP Thana/Post through the RailTel/Railways TCP/IP network. Bidder is required to plan sufficient number of VMS/EMS licenses, IT equipments to facilitate the same. Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF/GRP Thana/Post.	RailTel should provide permission for road, footpath etc cutting/digging/refilling from PWD/Jal Nigam/Electricity department if required.	Honeywell	As per tender /corrigendum.
651						Honeywell	
652					Kindly also share the List of RPF Chowkis/Thana/Post along with covered stations within the cluster of respective RPF Chowki/Thana/Post.	Honeywell	Tentative list is being shared.
653					Also, are all the stations ready or few are under construction?	Honeywell	These are all existing working stations as on date.

654	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance Systems	48	3.A.1.4.10	To identify, develop and deliver the training to the Railways/Railtel staff for the VSS System to be installed and commissioned.	No. of places for training not defined. Request clarity	Honeywell	Centralized as well as distributed locations such as Stations, Region HQ, RPF Chowkis etc. as per requirement.
655	Chapter - 3 Technical Requirements, Scope And Architecture Of Video Surveillance Systems	50	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	Honeywell	Tender clause is clear.
656	Chapter 4 - Commercial Terms and Conditions	80	4.A.4	Milestones for Design, Supply, Installation and Commissioning from the date of award of the Contract (LOA) are tabulated as under.	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 as per time table where D= Date of Award of LOA which not practicaly feaseable. 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 (D= on receipts of Successful inspection certificate from RDSO)	Honeywell	As per tender/ corrigendums.
657	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	Honeywell	As per tender/ corrigendums.

658	Chapter 4 - Commercial Terms and Conditions	83	4.A.5	Payment Terms	Kindly confirm the Supply payment shall be on prorate basis station/site wise/RPF Thana/Chowki basis	Honeywell	Clause as per tender/corrigendum prevails.
659	Chapter 4 - Commercial Terms and Conditions	83	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.	Honeywell	Clause as per tender/corrigendum prevails.
660						Honeywell	
661					Also request you to kindly facilitate the payment against BG submission of equivalent percentage.	Honeywell	Clause as per tender/corrigendum prevails.
662	Chapter 4 - Commercial Terms and Conditions	94	4.A.13.	These will be made at source as per the rules prevalent in the area of work.	Need Details Clairty on statutory Deduction ? WCT should not deducted for all Inter-state material and Imported Material - Request you to please confirm the same.	Honeywell	Clause as per tender/corrigendum prevails.
663			(Statutory Deduction)			Honeywell	Clause as per tender/corrigendum prevails.
664	Chapter 4 - Commercial Terms and Conditions	93	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 reason 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	Honeywell	Clause as per tender/corrigendum prevails.
665	Chapter 4 - Commercial Terms and Conditions	94	4.A.12.	The rates quoted should be CIP destination. The destination shall be defined POP / nominated office of RailTel	Need More Clairty on End location ?	Honeywell	As per tender/corrigendum
666			(Transportation)			Honeywell	
667	Chapter 4 - Commercial Terms and Conditions	108	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	How it will be handled for imported and HSS Material ?	Honeywell	As per tender/corrigendum
668						Honeywell	

669	ercial Terms and Condi			representative. At least part of the material should be offered for inspection within 30 days of issue of confirmed Purchase Order/LOA. Traveling, Lodging &	Also Kindly confirm whether High Sea Sales be allowed for the imported materials?	Honeywell	As per tender/corrigendum
670	Chapter 4 - Commercial Terms and Conditions	109	4.A.29	SETTLEMENT OF DISPUTES: 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 1996 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 amend the clause accordingly.	Honeywell	As per tender/corrigendum
671	Chapter 4 - Commercial Terms and Conditions	110	4.A.32	Risk and Cost: The Maximum Liability of bidder to any Loss/Damages to RailTel including Liquidated Damages and Performance Guarantee shall be limited to 100% of Value of contract.	We request you to explicitly exclude consequential and indirect damages from our overall liability.	Honeywell	As per tender/corrigendum
672	Chapter 4 - Commercial Terms and Conditions	11	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-4B	We understand that there are two parts of the bid submissions:	Honeywell	As per tender/corrigendum
673					Part 1 - Credential/Techno-commercial bid	Honeywell	As per tender/corrigendum
674					Part 2 - Price Bid	Honeywell	As per tender/corrigendum
675					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.	Honeywell	As per tender/corrigendum
676	Chapter 6 - Form No.23	165	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.	Honeywell	Tender/corrigendum clause shall prevail

677	Section 7 - Annexure II: Detailed Standard Conditions applicable for the Annual Maintenance Contract	185	7.14	<p><u>Determination of Contract:</u> Right of RailTel to determine the contract: The RailTel shall be entitled to determine 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>	Owing to paucity of funds or any reason thereof, if Railtel decides to determine the contract post the design of the system is approved by RAILTEL and subsequently the material ordered by the contractor, the contractor is should be entitled for claims expenditure 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	Honeywell	Tender/corrigendum clause shall prevail
678						Honeywell	
679				<p><u>Payment on determination of contract:</u> Should the contract be determined under sub clause (1) of this clause and the Contractor claims payment for expenditure incurred 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 satisfaction of the Engineer. <u>The RailTel's decision on the necessity and property of such expenditure shall be final and conclusive.</u></p>	Also request you to <u>clarify the following questions on account of funds for this project:</u>	Honeywell	As under
680					1. Are the funds already available with RailTel? Please clarify.	Honeywell	P.O. is placed only after the funds availability.
681				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	2. Who is the funding authority for this project ? Please clarify.	Honeywell	It is the Railway ministry work and to be funded by ministry.
682					3. Who would be the fund sanctioning authority? Please clarify.	Honeywell	Competent authority of Ministry of Railways.
683					4. How is the fund utilization for this project? Please clarify.	Honeywell	For VSS work.

684					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.	Honeywell	It is internal matter of ministry and work extensions are given and funds too are made available beyond financial years as per requirement.
685	Chapter-7, Chapter 4,	85, 181	4.A.6.1	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 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.	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.	Honeywell	Tender/ corrigendum clause prevails.
686			7.2			Honeywell	
687						Honeywell	
688				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 issue 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 Proforma 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.		Honeywell	
689						Honeywell	
690				The Performance Bank Guarantee will bear no interest		Honeywell	
691						Honeywell	

692	Additio nal	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?	Honeywell	Available
693	Additio nal	NA	New Clause		How the invoices be validated? Will Invoice validation be Station-wise OR Zone-wise OR from HQ? Please clarify.	Honeywell	As per tender/ corrigendum
694	Chapte r-2	8		General	VA & FRS and associated servers as mentioned in the RDSO latest guidelines are not mentioned in the SOR. Kindly clarify.	Honeywell	As per tender/ corrigendum
695	Chapte r-2	8		General	Storage for 30 days as mentioned in the RDSO latest guidelines is not mentioned in the SOR. Kindly clarify.	Honeywell	As per tender/ corrigendum
696	Chapte r-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.	Honeywell	As per tender/ corrigendum
697	Chapte r-2	8		SOR	Pls clarify if bidder has to consider 7 days storage inside the Edge Devices at stations.	Honeywell	As per tender/ corrigendum
698	Chapte r-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.	Honeywell	As per tender/ corrigendum
699	Chapte r-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.	Honeywell	As per tender/ corrigendum
700	Chapte r-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-partite agreement.	Honeywell	As per tender/ corrigendum

701	Chapter-2	42	I	<p>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 respective station from day one.</p>	<p>We understand that camera quantities at each station given on page- 159-160 shall be considered for Storage calculation. Kindly clarify.</p> <p>A1 Type Station- 43 Cameras A Type Station- 30 Cameras B Type Station- 18 Cameras</p>	Honeywell	As per tender/ corrigendum
702	Chapter-2	42	IV	<p>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.</p>	<p>Kindly specify which all items in available infrastructure will be utilized.</p>	Honeywell	Existing OFC network, switches etc. whatever available
703	Chapter-2	42	V	<p>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.</p>	<p>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.</p>	Honeywell	As per tender/ corrigendum. Clause is clear in itself.
704	Chapter-2	43	XIII	<p>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.</p>	<p>Kindly clarify which one would be the central location in each region.</p> <p>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.</p>	Honeywell	As per tender/ corrigendum. Clause is clear in itself.

705	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.	We understand that this exercise shall be done by successful 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.	Honeywell	As per tender/ corrigendum.
706	Chapter-3	50	3.A.1.4.6	Supply of all software/licenses for the solution including peripheral applications, middleware, environmental software or any other 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.	Honeywell	Bidder to quote as per SOR. Bidder is required to offer the complete solution along with BOM(s) as asked for.
707	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.	Kindly provide the details of Stations and RFP Cowkies where bidder has to extend Fiber/ Network Connectivity. It is required to estimate the correct cost for implementation.	Honeywell	Tentative list of stations is being uploaded.
708	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".	Honeywell	Clause is self explanatory.
709	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 existing 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.	Honeywell	Clause is self explanatory. Charges vary from time place to place and broadly are as per commercial rates.

710	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.	Honeywell	Clause is self explanatory.
711	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.	Honeywell	As per tender/ corrigendum clauses and as per requirement/slots available
712	Chapter-3	55	3.A.1.16	All OEMs of Edge Servers, Edge Devices, Cameras, Network equipment, Workstations 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.	Honeywell	Clause as per tender/corrigendum prevails.
713	Chapter-3	57	3.B.1	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.	<p>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 increase in the camera quantities and associated ICT equipment and accessories shall be paid by the purchaser to the bidder on prorata basis.</p> <p>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.</p>	Honeywell	Bidder to quote as per SOR.
714	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 offer has 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.	Honeywell	Bidder to quote as per SOR.

715	Chapter-3	61	3.B.4	<p>a) Platform, Foot over areas should be covered by Fixed Box cameras with vari-focal lens</p> <p>b) Entry/Exit should be covered by 4K UHD cameras.</p> <p>c) Ticketing Counter, Waiting, Food Plaza, Railway Refreshment Room, Low ceiling Entry /Exits should be covered by Dome cameras with vari-focal lens</p> <p>d) PTZ should be mounted for bigger open areas, where Pan, Zoom & Tilt functionality will be used</p>	<p>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 seperatly.</p>	Honeywell	Bidder to quote as per SOR.
716	Chapter-3	62	3.B.4.2	<p>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.</p>	<p>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.</p>	Honeywell	Bidder to quote as per SOR.
717	Chapter-3	62	3.B.4.3	<p>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 accordingly. IP cameras should be connecting to Division level through CCTV network. Division level station may be same location or should connect all A Type Railway station of that RPF Chowki.</p>	<p>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.</p>	Honeywell	Bidder to quote as per SOR.

718	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 monitoring 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 connectivity 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 seem to be correct. Kindly review the same.	Honeywell	Clause as per tender/ corrigendum prevails.
719	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 collocated 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.	Honeywell	Clause as per tender/ corrigendum prevails.
720	CHAPTER- 3	77	Clause 3.A.1.4.1.1 2/13/14	3.A.1.4.12 Maintenance supervision period of 12 months from the date of award of PAC of the RPF/GRP Thana/Post. 3.A.1.4.13 Warranty period of 24 months from the date of expiry of maintenance supervision period of installed system at no cost to Railways/RailTel. 3.A.1.4.14 AMC (including repair / replacement of all consumables) for 5 years after the completion of 24 months of warranty period.	since warranty is required for 36 month which is further divided into 12 month supervision and 24 month warranty. Delay in PAC will add to the warranty cost. Any delay due to SNR will be borne by RAILTEL.	Honeywell	Clause as per tender/corrigendum prevails.
721	CHAPTER- 4	106	4.A.24	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.	Please clarify whether Exchange Rate Variation (ERV) Clause would be applicable to this.	Honeywell	Clause as per tender/corrigendum prevails.

722	CHAPTE R- 5	211	8.3.2.3.1.1	(B) On other stations: iii) One HD stream (@720P and @25FPS) from Full HD Camera on H.265 and iv) One FHD stream (@1080P and @15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.	We may request you to kindly maintain the recording parameter similar to RPF Thana/Chowki to ensure that quality of image doesn't impact on the investigation once any breach is found after 7 days.	Honeywell	Clause as per tender/ corrigendums prevails.
723	Chapte r-4	113	4.A.45.	Preference to Domestic Manufacturers	Please whether this is as per DIPP/Miety Approved Products	Honeywell	Clause as per tender/ corrigendums prevails and is clear.
724	CHAPTE R- 2	11	SOR	Storage System for recording of alerts, alarms of cameras of analyt-ics and other applications require-ment as defined in clause 8.3 and 8.4 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Please clarify whether this storage would be used for EMS generated logs also, if yes then how long the logs to be maintained.	Honeywell	Tender document including corrigendum is clear. Please also refer to clause No. 8..3.1.1.5
725	SPECIFI CATION NO. RDSO/S PN/TC/6 5/2016, revision 4.0	page 14 of 45	5.4.1-(i)	Focal length-Varifocal 4.1 to 10 mm IR corrected Lens (5 Megapixels and above), suitable for Ultra HD Camera	Request to kindly consider and give relaxation of +/-0.1mm for lens . Each OEM has its own set of lens and lens specs varies with each OEM. +/- 0.1 mm will not have much impact hence there will be no impact on desired output or functional requirement. We are offering 4.2 - 25.2 mm lens in 4K UHD model.	Panasonic India Ltd	Clause as per tender/ corrigendum prevails.
726	SPECIFI CATION NO. RDSO/S PN/TC/6 5/2016, revision 4.0	18 out of 45	7.1	P/T/Z (Pan/Tilt/Zoom) IP Colour Camera specification. There is no IR LED requirement is mentioned in specs.	There is no IR LED requirement is mentioned in specs. Do we have to consider PTZ camera with no inbuilt IR LED. Please confirm.	Panasonic India Ltd	Clause as per tender/ corrigendums prevails.
727	SPECIFI CATION NO. RDSO/S PN/TC/6 5/2016, revision 4.0	17 out of 45	7.1-(xxix)	Enclosure Protection: Vandal proof and Impact resistant Aluminium enclosure with IP66 or NEMA-4 or better.	We assume that IK 10 rating for PTZ camera is optional and the camera should be IP66 and Vandal Proof. Please confirm	Panasonic India Ltd	Clause as per tender/ corrigendums prevails.
728	General			EMD	we request for accpetance of BG gurantee in place of DD only	SIEMENS	Clause as per tender/ corrigendums prevails.

729	RailTel/Tender/OT/CO/P/2017-18/VSS/432 dated 29-03-18		4.A.14. Qualification Criteria	4.A.14.1.1 Bidding for more than one packages: Case-II Single Work Experience of Rs. 60 Crore is submitted	we assume that if the we have one single PO worth 300 Crore then the bidder is qualified for all 4 region packages. Please confirm	SIEMENS	Tender clause is self explanatory.
730	RailTel/Tender/OT/CO/P/2017-18/VSS/432 PACKAGE IV: SOUTHERN 6 a iii	35	6 a (iii)	For Category F stations	Kindly clarify the category F stations	SIEMENS	Category F stations are not covered under scope of this tender. Please refer tender/ corrigendums.
731	3.A.1.16 SUPPLY OF SOFTWARE	52	3.A.1.16	1. All OEMs of Servers, Storage, Cameras, Network equipments, Workstations and Video Recording & Processing Unit etc. should give an undertaking that all licenses supplied by them would be registered in favor of M/s REL or its nominated organization.	Is the procurement of same software license key for each region is allowed? Base license for VMS will remain 1. Channel licenses shall be dependent on no of cameras. Same Base license can be used for VMS as far as Legal Entity remains same.	SIEMENS	Clause as per tender/ corrigendums prevails.
732	4.A.5. Payment Terms	83	4.A.5. Payment Terms	Payment Terms	We request for 10% Mobilization Advance	SIEMENS	Clause as per tender/ corrigendums prevails.
733	4.A.5. Payment Terms	84	4.A.5. Payment Terms	Payment Terms	Kindly define the credit period after submission of documents	SIEMENS	Clause as per tender/ corrigendums prevails.
734	RailTel/Tender/OT/CO/P/2017-18/VSS/432 dated 29-03-18	168	CHAPTER-7 Annexure 1	Station & Camera Bifurcation	As per the estimated calculation based on inputs in Chapter 7, total HD Bullet Camera Qty is not matching with BOM. Total Estimated Qty is 72451 for 4 regions	SIEMENS	Bidder to quote camera quantities as per SOR.

735	RailTel/Tender/OT/CO/P/2017-18/VSS/432 8.3.1.1 General Parameters	208	8.3.1.1	8.3.1.1.1 For implementation of the proposed system, it is assumed that there would be 552 Clusters constituting RPF/GRP Thana/Post receiving video feeds from group of stations based on jurisdiction of that respective RPF/GRP Thana/Post through MPLS/ IP network. Therefore, bidder is required to propose a cluster based solution constituting Servers, Storage, Switches and Video applications etc. at RPF/GRP Thana/Post locations on the basis of following design parameters.	Corresponding RPF/GRP Thana/Post for a group of C, D and E stations is not clear. This is required for server and storage size calculations. We require Qty of Station (C,D,E) which are grouped under which RPF?	SIEMENS	Please refer clause 8.3.1.2 of chapter-8 along with corrigendums of tender document.
736	RailTel/Tender/OT/CO/P/2017-18/VSS/432 8.3.2.3 Recording Parameters	211	8.3.2.3 Recording Parameters	8.3.2.3.1.2 In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.	According to tender, local recording of C,D,E stations will be done at processing unit at High Quality(1080p) and corresponding RPF server at low Quality(720p). But in case of network disconnect-connect again between RPF and stations, recording data will be copied from processing unit to RPF server. So how should we calculate recording size at RPF. Based on 1080p or 720p?	SIEMENS	Tender/corrigendum clauses shall prevail.
737	RailTel/Tender/OT/CO/P/2017-18/VSS/432 8.3.1.1 General Parameters	209	8.3.1.1	8.3.1.1.5 Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/marked video data by RPF/GRP personnel for longer retention, FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days, Audit trail logs, application data etc. as per solution requirement and sizing as per SOR.	How much flagged/marked data will be considered for storage?	SIEMENS	Bidder to quote Storage for Datacenter as mentioned in the SOR and tender/ corrigendum clauses
738	RailTel/Tender/OT/CO/P/2017-18/VSS/432 8.18. Video Recording & Processing Unit for non RPF Stations	231	8.18. Video Recording & Processing Unit for non RPF Stations	2. Video Recording & Processing Unit shall be installed at each platform/station and shall have Software for Video Management, Video Recording and Analytics as defined in Tender Clause 8.3. In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.	Do we have to do analytics of C,D,E stations in processing unit at the station or the related RPF	SIEMENS	Please refer to tender/ corrigendum clauses.

739	RDSO SPECIFICATION OF IP BASED VIDEO SURVEILLANCE SYSTEM. RDSO/SPN/TC/65/2016 Rev 4.0 2.0 SYSTEM DESCRIPTION	7	2.13	Typically minimum two nos. of 4K UHD Fixed Box Cameras need to be provided on each platform with Face Recognition Software in addition to one such camera each on entry and exit points to the station or any other location as decided by purchaser as per site requirement.	Does Face Recognition software require at entry or exit points also? If so please specify the Qty on which Face Recognition or Analytics required	SIEMENS	Please refer to tender/ corrigendum clauses.
740	RDSO SPECIFICATION OF IP BASED VIDEO SURVEILLANCE SYSTEM. RDSO/SPN/TC/65/2016 Rev 4.0 20.0 Software License:	38	20.4	Licensing of various types of Video Analytics Software as mentioned in Clause no. 18.4 depending upon numbers of cameras are to be specified.	Kindly specify the quantification of each type of licenses required.	SIEMENS	As per clauses of tender/ corrigendums/ RDSO specification and solution requirement.
741	General		General	General	We request for 1 month Extension for bid Submission, as the given time is not sufficient to prepare quality bid for the scope of work involved	SIEMENS	Clause as per tender/ corrigendums prevails.
742			Railtel RFP Page No.- 207	IP Cameras of Fixed Bullet type, Fixed Dome type, P/T/Z type and 4K UHD Bullet type IP colour camera at stations:	All camera shall be equipped with Infra red illuminator with range 20 m or more.	HikVision	Clause as per tender/ corrigendums prevails.
743			Railtel RFP Page No.- 207	IP Cameras of Fixed Bullet type, Fixed Dome type, P/T/Z type and 4K UHD Bullet type IP colour camera at stations:	All camera shall be equipped with Infra red illuminator with range 20 m or more.	HikVision	Clause as per tender/ corrigendums prevails.
744	RDSO Amendment No 3	4		Bullet camera Motorized Varifocal Lens	Motorized Varifocal IR corrected Lens suitable for 2 Mega Pixel Full HD Camera	HikVision	Clause as per tender/ corrigendums prevails.
745	RDSO Amendment No 3	4		4K Bullet camera Motorized Varifocal Lens	Motorized Varifocal IR corrected Lens suitable for 2 Mega Pixel Full HD Camera	HikVision	Clause as per tender/ corrigendums prevails.

746	VSS-Stations ,4.A.14. 1.3	101		Eligibility criteria for OEM	Request for OEM Criteria Eligibility	HikVision	Clause as per tender/ corrigendums prevails.
747	VSS-Stations ,4.A.14. 1.3	101		Eligibility criteria for OEM	The OEM(s) whose products have been offered in the bid should have a mini-mum cumulative turnover of INR 360 crores for OEMs supplying camera	HikVision	Clause as per tender/ corrigendums prevails.
748	Amendm ent No. 1.0 to RDSO Specifica tion no. RDSO/S PN/TC/6 5/2016, Revision 4.0 for IP Based Video Surveilla nce System	1	2.3	"2.3 In IP based Video Surveillance System, the Cameras shall be provided at different locations so that the output is available as Ethernet and connected to the Servers/NVRs. Servers/NVRs in turn connected to the backbone IP Network. For Cloud based Architecture, Camera output on Ethernet shall be connected to the MPLS/ IP network through Edge devices. Cluster of stations through Edge devices shall be aggregated at nearest RPF/GRP Thana/Post through MPLS/ IP network. RPF/GRP Thana/Post in turn connected to the Cloud through MPLS/ IP network."	We would request to provide camera details of the stations under each RPF/Thana Post	Hitachi Systems Micro Clinic Pvt. Ltd	Please refer clause 8.3.1.2 of chapter-8/ corrigendums of tender document.
749	Amendm ent No. 1.0 to RDSO Specifica tion no. RDSO/S PN/TC/6 5/2016, Revision 4.0 for IP Based Video Surveilla nce System	3	3.6	3.6 Vendors shall have option to quote either Server based solution or NVR based solution in accordance with Clause no. 10.0 and Clause no. 12.0 for Video Management and Video Recording or a combination of both the solutions for both the implementation schemes as per Diagram-1 & Diagram-2. Software capabilities and Storage capacities shall be same for both the solutions.	We would request if only Server with external Storage should be allowed , as the VSS System is huge and needs high reliability and performance.	Hitachi Systems Micro Clinic Pvt. Ltd	Clause as per tender/ corrigendums prevails.

750	Amendment No. 1.0 to RDSO Specification no. RDSO/SPN/TC/6 5/2016, Revision 4.0 for IP Based Video Surveillance System	6	19.25(a)	Clause No. 19.25 (a): The Face Recognition Algorithm vendor should have participated in the latest NIST (National Institute of Standards and Technology, U.S. Department of Commerce), Face In Video Evaluation (FIVE) report.	We would request if other global certifications could also be acknowledged by RailTel.	Hitachi Systems Micro Clinic Pvt. Ltd	Clause as per tender/ corrigendums prevails.
751	Tender No. RailTel/Tender/OT/CO/P/2017-18/VSS/432 dated 29-03-18	243	8.26	The proposed system should be able to leverage and integrate with existing & new CCTV cameras supporting ONVIF profile 'S' and video management systems either through camera level or VMS level, to provide an integrated video surveillance at the command center.	Would request the quantities of the existing cameras as we would have to include necessary hardware and license cost for the same.	Hitachi Systems Micro Clinic Pvt. Ltd	Bidder to quote camera quantities as per SOR.
752					Does the analytics alarm & FRS Alarms needs to be showcased on Command and Control Solutions.	Hitachi Systems Micro Clinic Pvt. Ltd	Yes.
753					Please suggest the number of Video Analytics license for all the stations ?	Hitachi Systems Micro Clinic Pvt. Ltd	Please refer clause 8.3.1.2/ corrigendums of chapter-8 of tender document.
754	SPECIFICATION NO. RDSO/SPN/TC/6 5/2016 Revision 4.0	21	10.1 Server Hardware: Server hardware for Video Management, Recording and Video Analytics shall have the minimum following specifications:-	Processor Intel Xeon Processor No. of Cores 8 No. of Threads 16 Frequency 2.1GHz or higher Cache 20MB No. of Processors 2 QPI (Quick Path Interconnect) Links 2	The processor mentioned here is older generation processor and is very low end to handle the workload for this project. Hence request you to change the processor as below: * Please change the number of cores from 8 to 18 * Please change the no. of threads from 16 to 36 * Cache from 20MB to 24MB The latest generation processors from Intel comes with latest generation of UPI links instead of QPI links, hence please remove the clause numbers 7 and 8 related to QPI links. The Servers for Facial Recognition Software will require more performance hence request you to change the memory from 32GB to 128GB	Hitachi Systems Micro Clinic Pvt. Ltd	Tender ask for minimum specifications. Higher specifications may be offered as per the solution requirement.

755	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	21	10.1.2 Server specifications for Face Recognition Software will be same as per clause no. 10.1.1 with following additional item:-	Processor Intel Xeon Processor No. of Cores8 No. of Threads16 Frequency2.1GHz or higher Cache20MB No. of Processors2 QPI (Quick Path Interconnect) Links2	The Servers for Facial Recognition Software will require more processing power and clockspeed than the one mentioned in this clause, hence request you to please change the * Number of Cores from 8 to 18 * No. of Threads from 16 to 36 * Frequency from 2.1GHz to 3.0 GHz The latest generation processors from Intel comes with latest generation of UPI links instead of QPI links, hence please remove the clause numbers 7 and 8 related to QPI links.	Hitachi Systems Micro Clinic Pvt. Ltd	Tender ask for minimum specifications. Higher specifications may be offered as per the solution requirement.
756	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	21	10.1.2 Server specifications for Face Recognition Software will be same as per clause no. 10.1.1 with following additional item:-	Memory - 32 GB or higher, DDR3/DDR4 SDRAM or latest.	The Servers for Facial Recognition Software will require more performance hence request you to change the memory from 32GB to 128GB	Hitachi Systems Micro Clinic Pvt. Ltd	Clause as per tender/corrigendum prevails.
757	SPECIFICATION NO. RDSO/SPN/TC/65/2016 Revision 4.0	25	12.0 External Storage Device:	Cache - 16GB Per Controller	A storage with 16GB cache controller might not be able to handle the workload for this project hence request you to change the cache from 16GB per controller to 32GB per controller.	Hitachi Systems Micro Clinic Pvt. Ltd	Higher specifications may be offered to meet the end objective. Clause as per tender/corrigendum prevails.
758	3.A.1.4 SCOPE OF WORK	47	3.A.1.4.8 3.A.1.4.9	Remote operation and monitoring of a cluster of stations from RPF/GRP Thana/Post through the RailTel/Railways TCP/IP network. Bidder is required to plan sufficient number of VMS/EMS licenses, IT equipment's to facilitate the same. Bidder may also be required to extend fiber/network connectivity from the nearest station to the RPF/GRP Thana/Post. 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.	As per the statements, we understand the RailTel/Railways will provide the required connectivity between Stations and RPF/GRP Thana/Post. We request you to please clarify the bidders scope of work to address the "requirement of extending fiber/network connectivity from the nearest station to the RPF/GRP Thana/Post" and who will borne the associated cost.	Hitachi Systems Micro Clinic Pvt. Ltd	Clause of tender/ corrigendum is self explanatory.

759	3.A.1.4 SCOPE OF WORK	48	3.A.1.4.12	Maintenance supervision period of 12 months from the date of award of PAC of the RPF/GRP Thana/Post.	Kindly elaborate SoW / activities to be done during the supervision period along with service window e.g. 24x7, 365 days or 9-5, Mon-Fri.	Hitachi Systems Micro Clinic Pvt. Ltd	Clause is self explanatory.
760	3.A.1.7 SITE PREPARATION, 3.A.1.7.1 Support from Indian Railways / RailTel	49	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 UNIT rate for AC power supply and the mode of payment.	Hitachi Systems Micro Clinic Pvt. Ltd	Clause is self explanatory. Rates vary from station to station and are broadly commercial rates as applicable at station.
761	3.A.1.10 TRAINING OF PURCHASER'S PERSONNEL AND CHANGE MANAGEMENT	50	NA	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	Kindly clarify/suggest the location/s of the said trainings. Will it be at central location where all Railways/RailTel personal will attend the training?	Hitachi Systems Micro Clinic Pvt. Ltd	On field training at Thana/ Command & control centre/ Data Centre etc. to executives as and when required.
762	3.B.3.6 Surveillance VPN on RailTel Backbone	59	NA	A separate VRF instance will be created on Type-IV Switch for different type of services (Surveillance, Wi-Fi etc). Access switches will separate these services in form of unique VLANs and maintain logical segregation between these services. This will maintain each service separately from traffic flow and QoS implementation perspective and improve network performance along with securing and isolating these services from each other.	As per our understanding Wi-Fi is not part of scope of the said tender and the required equipment will only be used for implementation of CCTV Surveillance. Kindly clarify	Hitachi Systems Micro Clinic Pvt. Ltd	Clause is self explanatory.
763	3.B.3.6 Surveillance VPN on RailTel Backbone	59	NA	A separate VRF instance may be created on Type-IV switch for Railway Police Force users in addition to mentioned services in B type station. Railway Police Force users will have a secure client for monitoring stations through IP surveillance cameras.	Kindly clarify / elaborate the Secure client mentioned in the statement. Does this refers to the workstation attached with RailTel MPLS network or secure VPN/IPSEC connectivity is required at the location?	Hitachi Systems Micro Clinic Pvt. Ltd	P.C. work station along with anti virus software as per the SOR of the tender.

764	3.B.4 IP surveillance solution for Different Type of Stations	60	NA	<p>IP based cameras could be Dome type, PTZ Type and Fixed Bullet and 4K UHD Cameras. Below are major listed areas, which will cover by various type of cameras:</p> <p>a) Platform, Foot over areas should be covered by Fixed Bullet cameras</p> <p>b) Entry/Exit should be covered by 4K UHD Bullet cameras.</p> <p>c) Ticketing Counter, Waiting, Food Plaza, Railway Refreshment Room, Low ceiling Entry /Exits should be covered by Dome cameras</p> <p>d) PTZ should be mounted for bigger open areas, where Pan, Zoom & Tilt functionality will be used</p> <p>The above arrangement is only tentative in nature and bidder may be asked to commission a camera(s) on any other locations as decided by purchaser as per site requirement.</p>	Since Zone wise Qty of cameras is already mentioned in the RFP, please clarify how addition/deletion of the cameras as per site requirement will be addressed both technically and commercially	Hitachi Systems Micro Clinic Pvt. Ltd	Tender/ corrigendum clause is clear.
765	4.A.2.4 Warranty Support	78	4.A.2.4.3	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.	We request you to please delete the clause of extending the period of supervision of the maintenance free of cost.	Hitachi Systems Micro Clinic Pvt. Ltd	Clause as per tender/corrigendum prevails.
766	4.A.2.4 Warranty Support	79	4.A.2.4.3	A penalty as per clause 4.A.8 of down time of network shall be imposed on the contractor for not meeting the down time prescribed. The Contractor's Engineer shall be responsible to identify the fault and advise corrective measures and ensure that defective cards are replenished.	As per our understanding RailTel will provide the required bandwidth hence bidder should not be penalized for network non-availability / downtime due to network link.	Hitachi Systems Micro Clinic Pvt. Ltd	Clause is self explanatory.
767	4.A.9.1.10 General Terms and Conditions Applicable	93	i)	The selection of the Engineer will be done by Contractor jointly with RailTel. RailTel will nominate their officer/s for interviewing the candidates.	As per our understanding Contractor jointly with RailTel will only interview the L2 support engineer in to be positioned at RailTel Datacenter and L1 support engineer for Field will be interviewed by the contractor only. Pl clarify	Hitachi Systems Micro Clinic Pvt. Ltd	Clause is self explanatory.

768	4.A.19. Purchase r's Right to Vary Quantiti es	105	NA	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	We request you to kindly provide Quantity variation in % for addition or reduction.	Hitachi Systems Micro Clinic Pvt. Ltd	Please refer Chapter-5 (Bid Data Sheet).
769		229	8.16.3(2X 10kva)	4 - Output Power Factor - 0.9 or better	Request you to make it 0.8 for 10kva UPS as well. It is as per tender specs for 1 & 2kva UPS System asked @ 0.8 Power Factor. OR else make the same 0.9 O/p PF for all three ratings(i.e 1, 2 & 10kva) of UPS Systems.	Delta Power Solutions India Pvt Ltd	Tender/ corrigendum clause prevails.
770		66 & 235	EMS for equipmen ts	EMS for equipments	Request you to pl clarify whether a Central EMS from System Integrator(SI) is required which shall be capable of monitoring all UPS Systems across India on their console. Or separate EMS from CCTV/UPS/Switech etc is required from OEMs. However, SNMP traps from UPS can be provided for integration in System Integrator(SI) EMS software	Delta Power Solutions India Pvt Ltd	EMS as asked in SOR shall also monitor UPS being installed at stations & RPF/GRP Thana/Post.
771		48	Warranty	AMC (including repair / replacement of all consumables) for 5 years after the completion of 24 months of warranty period.	Pl clarify whether Batteries are also required to be replaced in AMC contract.	Delta Power Solutions India Pvt Ltd	Yes. The tender clause is clear.
772	4.A.14.1. 3	101		The OEM(s) whose products have been offered in the bid should have a minimum cumulative turnover of INR 360 crores for OEMs supplying camera, INR 100 crores for OEMs of switches and INR 225 crores for OEMs of IT hardware (server and storage) each in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender.	Request you to change it to: - The OEM(s) whose products have been offered in the bid should have a minimum cumulative turnover of INR 30 crores for OEMs supplying camera, INR 30 crores for OEMs of switches and INR 225 crores for OEMs of IT hardware (server and storage) each in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. (Higher turnover will reduce the competition and the low turnover will give the chance to small OEMs to become the part of this prestigious project)	Plexonics	Clause as per tender/corrigendum prevails.

773	4.A.5	83	1	Payment Terms for Supply portion of items supplied under Schedule – ‘A’ of SOR-Head-I of packages as per BOM and Price Schedule details (Chap-ter-2, SOR, Note-VII and Annexure-A & B) submitted along with price bid.	We request you to consider 20% from total bid value as Advance after release of LOA	ASHOKA BUILDCON LTD	Clause as per tender/corrigendum prevails.
774	4.A.5.1	83	1	For hardware items, payments will be made on the basis of stations covered under a RPF/GRP Thana/Post for the material supplied 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:	For hardware items, payments will be made on the basis of For hardware items, payments will be made on the basis of Railway stations covered under a RPF/GRP Thana/Post for the material supplied in stages for various items supplied. We would request you to consider 55% payment of the items 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:	ASHOKA BUILDCON LTD	Clause as per tender/corrigendum prevails.
775	4.A.5.1.3	84	1	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/GRP Thana/Post of the cluster for CCTV at stations, 5% payment on issue of Provision-al Acceptance Certificate (PAC) and the last 5% payment shall be made by Rail-Tel/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. (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/GRP Thana/Post for CCTV at stations and remaining 5% on issue of FAC . For spares 15% + 5% will be made after issue of PAC of the first RPF/GRP Thana/Post for	We would request you to consider 25% payment made on pro rata basis made by RailTel on installation & commissioning of stations/sites including at the concerned RPF/GRP Thana/Post of the cluster for CCTV at stations 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.	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.

776	4.A.14.1	95	3	<p>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.</p> <p>For Package-I: Northern Region: Rs. 365.31 Crores</p> <p>For Package-II: Western Region: Rs. 235.18 Crores</p> <p>For Package-III: Eastern Region: Rs. 386.97 Crores</p> <p>For Package-IV: Southern Region: Rs. 314.27 Crores</p> <p>Note:- In case of Consortium/JV, each member's relevant turnover combined together shall be considered against the above mentioned financial capability criteria.</p>	<p>The bidder should have received a minimum cumulative contract amount from the Security / IT / Telecom / infrastructure business in the last three financial years plus current year upto the date of opening of tender.</p> <p>For Package-I: Northern Region: Rs. 365.31 Crores</p> <p>For Package-II: Western Region: Rs. 235.18 Crores</p> <p>For Package-III: Eastern Region: Rs. 386.97 Crores</p> <p>For Package-IV: Southern Region: Rs. 314.27 Crores</p> <p>Note:- In case of Consortium/JV, each member's relevant turnover combined together shall be considered against the above mentioned financial capability criteria.</p>	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.
777				<p>The bidder should have completed</p> <p>I. Package I : Northern</p> <p>a.) At least one similar work# worth of INR 73.95 crores in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 42.26 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 31.69 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	<p>The bidder should have completed</p> <p>I. Package I : Northern</p> <p>a.) At least one similar work# worth of INR 73.95 crores in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 42.26 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 31.69 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.

778					<p>II. Package II : Western</p> <p>a.) At least one similar work# worth of INR 47.63 crores in last three financial years plus current year upto the date of opening of tender. OR</p> <p>b.) Two similar works# worth of INR 27.22 Crores each in last three financial years plus current year upto the date of opening of tender. OR</p> <p>c.) Three similar works# worth of INR 20.41 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	<p>II. Package II : Western</p> <p>a.) At least one similar work# worth of INR 47.63 crores in last three financial years plus current year upto the date of opening of tender. OR</p> <p>b.) Two similar works# worth of INR 27.22 Crores each in last three financial years plus current year upto the date of opening of tender. OR</p> <p>c.) Three similar works# worth of INR 20.41 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.
779	4.A.14.1	96	5		<p>III. Package III: Eastern</p> <p>a.) At least one similar work# worth of INR 78.37 crores in last three financial years plus current year upto the date of opening of tender. OR</p> <p>b.) Two similar works# worth of INR 44.78 Crores each in last three financial years plus current year upto the date of opening of tender. OR</p> <p>c.) Three similar works# worth of INR 33.59 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	<p>III. Package III: Eastern</p> <p>a.) At least one similar work# worth of INR 78.37 crores in last three financial years plus current year upto the date of opening of tender. OR</p> <p>b.) Two similar works# worth of INR 44.78 Crores each in last three financial years plus current year upto the date of opening of tender. OR</p> <p>c.) Three similar works# worth of INR 33.59 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.

780				<p>IV. Package IV : Southern</p> <p>a.) At least one similar work# worth of INR 63.74 crores in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 36.42 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 27.31 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>Note:- In case of Consortium/JV, only Lead bidder experience shall be considered against the above mentioned criteria of similar work experience.</p>	<p>IV. Package IV : Southern</p> <p>a.) At least one similar work# worth of INR 63.74 crores in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 36.42 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 27.31 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>Note:- In case of Consortium/JV, Lead bidder or any member of the consortium experience shall be considered against the above mentioned criteria of similar work experience.</p>	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.
781	4.A.22.1	105	1	The bidder shall furnish a sum as given in Bid Data Sheet (BDS) Chapter 5 as Ear-nest 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.	The bidder shall furnish a sum as given in Bid Data Sheet (BDS) Chapter 5 as Ear-nest Money in the form of Demand Draft / bank Guarantee from any scheduled bank in India in favour of "RailTel Corporation of India Limited" payable at New Delhi which should remain valid for 180 days beyond the bid opening date.	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.
782	Annx 3	189	1.11	Each consortium member shall make equal contribution towards the total PBG amount to be submitted along with acceptance of LOA.	Each consortium member shall make equal contribution towards the total PBG amount to be submitted along with acceptance of LOA or lead bidder or any member of the consortium can provide the PBG amount to be submitted along with acceptance of LOA.	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.

783	4.A.14.1 .3	101	4	<p>The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport etc. in India or abroad in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for at least six (6) months.</p>	<p>As per clause 4.A.48. Make in India (The provisions of the Public Procurement (Preference to Make in India) Order 2017 dated June 15, 2017 (and subsequent amendments, if any) by Department of Industrial Policy and Promotion, GoI shall apply to this tender to the extent feasible. The domestic Suppliers are exempted from experience and past performance criteria, and average annual turnover requirement under financial standing. Local suppliers are not required to provide any proof of supply. The criteria for Capability, Equipment and Manufacturing facilities as well as net worth under the financial standing eligibility criteria shall be applicable to local suppliers also.) Domestic/Local suppliers are exempted from experience and past performance. So, we request you to delete this clause or amend this clause for VMS software as "The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in any government/Enterprise system."</p>	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.
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784	Amendment 1 IP based VSS	3	6. Clause no. 3.2 in RFP	<p>The system i.e. IP cameras, NVR and Software (Video Management and Video Recording) shall be compliant to global standards ONVIF Profile 'S' for the interface of network video product (ONVIF – Open Network Video Interface Forum). The quoted models should appear on the ONVIF website and a confirmation certificate for the offered models to be provided for the same.</p>	<p>The mission of ONVIF is to provide and promote standardized interfaces for effective interoperability of IP-based physical security products like Cameras. It is more for a hardware protocol. The intention of ONVIF are:</p> <ol style="list-style-type: none"> 1. Standardization of communication between IP-based physical security products 3. Interoperability regardless of brand 3. Openness to all companies and organizations and software developers can provide self-certification that they are compliance to ONVIF protocol. <p>The ONVIF is more to do with hardware/protocol and VMS developers can provide self certification. Hence self-certification for the VMS developers could be allowed. Kindly amend the clause to "VMS developers should provide self-certification for ONVIF compliance"</p>	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.
785	8.8	212	Type I Switch		Pl clarify the Type I switches shall be IP rating or commercial grade switch	ASHOKA BUILDCON LTD	Clause is self explanatory.
786	8.9	213	Type II Switch		Pl clarify whether DC Power supply is required or nominal AC power	ASHOKA BUILDCON LTD	Clause is self explanatory.
787	8.1.14	221	Next Generation Firewall	Firewall solution offered from OEM must be there in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	Pl clarify whether OEM can be present in any magic Quadrant	ASHOKA BUILDCON LTD	Clause is self explanatory.
788	8.2	208	Server	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 and as specified in tender document	Can we propose Virtualization solution for effective utilization of hardware	ASHOKA BUILDCON LTD	Clause as per tender/corrigendums prevails.

789	CHAPTE R- 8 TECHNI CAL, FUNCTI ONAL REQUIR EMENTS & SPECIFI CATION S	208	8.3	<p>Broadly, the system functionality, technical requirement and hardware specifications shall be as per RDSO Specification of IP Based Video Surveillance System Specification no. RDSO/SPN/TC/65/2016 Revision 4.0 or latest with all amend-ments for IP based CCTV at Stations.</p> <p>HOWEVER, IN CASE OF ANY CONFLICT ON THE SOLUTION DE-SIGN PARAMETERS, SYSTEM FUNCTIONAL REQUIREMENTS AND TECHNICAL SPECIFICATION OF A SYSTEM/ITEM BETWEEN RDSO SPECIFICATION AND THE TENDER CONDITIONS, THE TENDER CONDITIONS WILL PREVAIL OVER RDSO SPECIFICATIONS.</p>	Clarification required on- If some Specification proposed and accepted for External Storage with the combination of Secondary Storage as LTO Tape Library on Datacenter side for Keeping the Flagged Data for longer duration for 1 Year will be accepted if found better and COst effective compare to the External Disk Storage, as its written as "THE TENDER CONDITIONS WILL PREVAIL OVER RDSO SPECIFICATIONS."	QUANTUM STORAGE INDIA	Clause as per tender/corrigendums prevails.
790	CHAPTE R- 8 TECHNI CAL, FUNCTI ONAL REQUIR EMENTS & SPECIFI CATION S	209	8.3.1.1.5	<p>Bidder to also propose an external storage solution at RailTel Datacenter for keeping flagged/marked video data by RPF/GRP personnel for longer reten-tion, FRS & VA alerts across all stations within the jurisdiction of RailTel Region for 30 days, Audit trail logs, application data etc. as per solution re-quirement and sizing as per SOR.</p>	<p>We offer the LTO Tape Storage for keeping the Flagged Data for Long Term i.e. min. 1 Year of time. As we all know the Flagged Data can be required to keep for min. 5 to 10 Years or more as per the Criticality of the Data and required to be produce as a Evidence. Evidence Managemnt plays critical role in CCTV Video Surveillance, as in case of Evidence required to be keep for more than the Disk Storage Life Span. LTO Tape as a Secondary Storage can provide the much higher life Span than Disk Storage.</p> <p>Hence, We request you to kindly allow the Secondary storage as LTO Tape with Automatic & Instant Archival from Primary External SAN Storage to Support Evidence Management.</p>	QUANTUM STORAGE INDIA	Clause as per tender/corrigendums prevails.

791	CHAPTE R- 8 TECHNI CAL, FUNCTI ONAL REQUIR EMENTS & SPECIFI CATION S	247	8.26.2 Mobile App for VSS system	(iv) Should also allow to view video feeds flagged or tagged for the purpose of in- vestigation as a proof and store in an external Hard drive/CD etc.	We request to allow LTO Tape Library also along with Hard drive/ CD. For the matter of fact on keeping the flagged data for longer period of critical data which will be required for Judiciary purpose and should be kept for the unknown period. LTO Tape library is the best Storage for this requirement for Evidence management of Flagged Data	QUANTUM STORAGE INDIA	Clause as per tender/corrigendums prevails.
792	CHAPTE R- 8 TECHNI CAL, FUNCTI ONAL REQUIR EMENTS & SPECIFI CATION S			New Line Item - Tape Library for Backup the Data Center Applications, Operating System, and Database along with Backup Software. Min. 4 Nos. of LTO-8 Drives along with 120 Tape Slot License, Redundant Power Supply, Redundant Encryption appliance for Encryption Keys.	We request to include the Tape Library for Backup the Data Center Applications, Operating System, and Database along with Backup Software. Min. 4 Nos. of LTO-8 Drives along with 120 Tape Slot License, Redundant Power Supply, Redundant Encryption appliance for Encryption Keys.	QUANTUM STORAGE INDIA	Clause as per tender/corrigendums prevails.
793	CHAPTE R- 8 TECHNI CAL, FUNCTI ONAL REQUIR EMENTS & SPECIFI CATION S			New Line Item - Tape Library for Backup the Data Center Applications, Operating System, and Database along with Backup Software. Min. 4 Nos. of LTO-8 Drives along with 120 Tape Slot License, Redundant Power Supply, Redundant Encryption appliance for Encryption Keys.	We request to include the Tape Library for Backup the Data Center Applications, Operating System, and Database along with Backup Software. Min. 4 Nos. of LTO-8 Drives along with 120 Tape Slot License, Redundant Power Supply, Redundant Encryption appliance for Encryption Keys.	QUANTUM STORAGE INDIA	Clause as per tender/corrigendums prevails.
794					This is a letter of submission against the inclusion of the NIST standard for procurement of Face Recognition Software	Innefu Labs Pvt. Ltd	Clause as per tender/corrigendums prevails.

795					NIST is essentially an American Standards Organization, designed to further the development and adherence of Systems development for a different operating & ambient environment, none of their tests will simulate usage of equipment software, in Indian High humidity, High temperature, high volume based situations	Innefu Labs Pvt. Ltd	Clause as per tender/corrigendums prevails.
796					The Organization is trying to cover thousands of technology areas, and their expertise and due diligence over the certification any one system, is highly suspect.	Innefu Labs Pvt. Ltd	Clause as per tender/corrigendums prevails.
797					Our facial recognition software on the other hand has been trained on over 3 lakh South Asian faces, which would be well near impossible for most companies from Overseas	Innefu Labs Pvt. Ltd	Clause as per tender/corrigendums prevails.
798					The organization has been accused of accommodation of backdoor entries of the NSA, thereby rendering this as a Security risk matter, where their authorized systems may have openings and ways to relay information to US agencies. You can read more about this in Wikipedia at https://en.wikipedia.org/wiki/National_Institute_of_Standards_and_Technology in the Section entitled “Controversial Backdoored NIST Standard”	Innefu Labs Pvt. Ltd	Clause as per tender/corrigendums prevails.
799					The government of India had announced a Preferred Market Access (PMA) policy for Cyber Security & data gathering products through an order notifying the Public Procurement (Preference to Make in India). This has nowhere been provisioned for in the invitation to bid.	Innefu Labs Pvt. Ltd	Clause as per tender/corrigendums prevails.
800					It is therefore submitted that NIST evaluation report may be removed/discarded in the E-Tender No. RailTel/Tender/OT/CO/P/2017-18/VSS/432	Innefu Labs Pvt. Ltd	Clause as per tender/corrigendums prevails.

801	4.A.14.1 Eligibility Criteria Require ments for Bidders	96	5. Similar Work Experience (Technical ca-pability)	<p>The bidder should have completed. Package I : Northern</p> <p>a.) At least one similar work# worth of INR 73.95 crores in last three financial years plus current year upto the date of opening of tender. OR</p> <p>b.) Two similar works# worth of INR 42.26 Crores each in last three financial years plus current year upto the date of opening of tender. OR</p> <p>c.) Three similar works# worth of INR 31.69 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	<p>We request amend this clause as</p> <p>I. Package I : Northern</p> <p>a.) At least one similar work# worth of INR 50 crores in last three financial years plus current year upto the date of opening of tender</p> <p>OR</p> <p>b.) Two similar works# worth of INR 42.26 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 31.69 Crores each in last three financial years plus current year upto the date of opening of tender and Please Consider experience of Consortium partners</p>	KARVY	Clause as per tender/corrigendums prevails.
802	4.A.14.1 Eligibility Criteria Require ments for Bidders	97	5. Similar Work Experience (Technical ca-pability)	<p>II. Package II : Western</p> <p>a.) At least one similar work# worth of INR 47.63 crores in last three financial years plus current year upto the date of opening of tender. b.) Two similar works# worth of INR 27.22 Crores each in last three financial years plus current year upto the date of opening of tender. c.) Three similar works# worth of INR 20.41 Crores each in last three financial years plus current year upto the date of opening of tender</p>	<p>We request amend this clause as</p> <p>II. Package II : Western</p> <p>a.) At least one similar work# worth of INR 30 crores in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 27.22 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 20.41 Crores each in last three financial years plus current year upto the date of opening of tender and Please Consider experience of Consortium partners</p>	KARVY	Clause as per tender/corrigendums prevails.
803	4.A.14.1 Eligibility Criteria Require ments for Bidders	97	5. Similar Work Experience (Technical ca-pability)	<p>III. Package III: Eastern</p> <p>a.) At least one similar work# worth of INR 78.37 crores in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 44.78 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 33.59 Crores each in last three financial years plus current year upto the date of opening of tender.</p>	<p>We request amend this clause as</p> <p>III. Package III: Eastern</p> <p>a.) At least one similar work# worth of INR 50 crores in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>b.) Two similar works# worth of INR 44.78 Crores each in last three financial years plus current year upto the date of opening of tender.</p> <p>OR</p> <p>c.) Three similar works# worth of INR 33.59 Crores each in last three financial years plus current year upto the date of opening of tender and Please Consider experience of Consortium partners.</p>	KARVY	Clause as per tender/corrigendums prevails.

804	4.A.14.1 Eligibility Criteria Require ments for Bidders	97	5. Similar Work Experience (Technical ca-pability)	<p>IV. Package IV : Southern</p> <p>a.) At least one similar work# worth of INR 63.74 crores in last three financial years plus current year upto the date of opening of tender OR</p> <p>b.) Two similar works# worth of INR 36.42 Crores each in last three financial years plus current year upto the date of opening of tender. OR</p> <p>c.) Three similar works# worth of INR 27.31 Crores each 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 consideredagainst the above mentioned criteria of similar work experience.</p>	<p>We request amend this clause as IV. Package IV : Southern</p> <p>a.) At least one similar work# worth of INR 50 crores in last three financial years plus current year upto the date of opening of tender. OR</p> <p>b.) Two similar works# worth of INR 36.42 Crores each in last three financial years plus cur- rent year upto the date of open-ing of tender OR</p> <p>c.) Three similar works# worth of INR 27.31 Crores each in last three financial years plus cur- rent year upto the date of open-ing 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 and Please Consider experience of Consortium partners.</p>	KARVY	Clause as per tender/corrigendums prevails.						
805	4.A.22. Earnest Money Deposit (EMD)/ Bid Security	105	4.A.22.1	The bidder shall furnish a sum as given in Bid Data Sheet (BDS) Chapter 5 as Ear-nest Money in the form of Demand Draft from any scheduled bank in India in fa-vour of “RailTel Corporation of India Limited” payable at New Delhi which should remain valid for 45 days beyond the bid opening date	We request change this clause as The bidder shall furnish a sum as given in Bid Data Sheet (BDS) Chapter 5 as Ear-nest Money in the form of Demand Draft/Bank Guarantee (BG) 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	KARVY	Clause as per tender/corrigendums prevails.						
806	8.23	235	EMS	<p>Consolidate IT event management activities into a single operations bridge that allows NOC operator quickly identify the cause of the IT incident, reduces duplication of effort and decreases the time it takes to rectify IT issues.</p> <table border="1"><tr><td>Days</td><td>Full HD Camera</td><td>4K UHD Camera</td></tr><tr><td>30 Days</td><td>1 TB after RAID 5/6</td><td>4 TB after RAID 5/6</td></tr></table>	Days	Full HD Camera	4K UHD Camera	30 Days	1 TB after RAID 5/6	4 TB after RAID 5/6	For wider participation request you to kindly rephrase it as " Consolidate IT events & alarms into a single dashboard and allow NOC operator to quickly identify the cause of the IT incident, reduces duplication of effort and decreases the time it takes to rectify IT issues."	CA Technologies	Tender/ corrigendum clause shall prevail.
Days	Full HD Camera	4K UHD Camera											
30 Days	1 TB after RAID 5/6	4 TB after RAID 5/6											
807		235	8.23	Consolidated dashboard of the proposed EMS solution shall be the manager of managers and capable of receiving events/alerts from multiple monitoring systems including system, network, storage, hardware, and application	Do you require any application monitoring also as part of the project if not request you to kindly rephrase it as " Consolidated dashboard of the proposed EMS solution shall be the manager of managers window and capable of receiving events/alerts from multiple monitoring systems including system, network, storage, hardware"	CA Technologies							
808	8.23	235	Consolidat ed Dashboar d	The tool should Classify events based on business impact of Video Surveillance System service levels	We understand from this point that a business service for Video Surveillance is to be created & monitored for Service levels based on its infrastructure, kindly confirm	CA Technologies	Clause is self explanatory.						

809	8.23	235	Consolidated Dashboard	Offer relevant tools, run books, graphs in context of a selected event	For wider participation request you to kindly rephrase it as " The tool should offer relevant troubleshooting tools, graphs in context of a selected event/inetrface,Root cause analysis & probable causes for an incident"	CA Technologies	
810	8.23	235	Consolidated Dashboard	Instruction Text (knowledge base) integrated into events	For wider participation request you to kindly rephrase it as " Instruction Text (knowledge base) integrated into events/alarm for which incident tickets were created with ability to define troubleshooting steps"	CA Technologies	
810	8.23	235	Consolidated Dashboard	Tool should be able to highlight Priority of an event. Priority is based on both the event severity and the business impact. CI Business Impact is calculated based on Business Criticality of all affected business services, applications and business process CIs and eg. SLAs	For wider participation request you to kindly rephrase it as " Tool should be able to highlight root cause/ Priority of an event. Priority/Root cause is based on both the event severity and the business service impact. The tool should be able to provide performance information metrices, Business service metrices and SLAs"	CA Technologies	Clause as per tender/ corrigendum prevails.
811	8.23	237	Network Automation	Should be able to generate a graphical representation of your network. Identify which devices are inactive or out of compliance. Detecting noncompliance, issuing alerts and proposing remedial action. In a misconfiguration, rollback should be automated. The ability to compare configurations is invaluable; system changes must be logged.	For wider participation request you to kindly rephrase it as " Should be able to generate a graphical representation of your network. Identify which devices are inactive or out of compliance. Detecting noncompliance, issuing alerts.The ability to compare configurations is invaluable; system configuration changes must be logged."	CA Technologies	Tender/ corrigendum clause shall prevail
812	8.23	237	Network Automation	Recording every access to a device including not only scripted and automated access, but a full keystroke log. Who made what change, the reason for the change and associated ticket number must be captured.	For wider participation We understand that you need to manage the access control on network devices with complete logs on the commands executed on devices , We understand that the SI can club & propose a third party solution to manage your complete requirement for Authentication, Authorization & Accounting, Kindly confirm	CA Technologies	Clause is self explanatory.
813	8.23	237	Network Automation	Manage device access and authorization through a centralized control model that is integrated with your standard workflow and approval processes.	For wider participation request you to kindly rephrase it as " Manage device access and authorization through a centralized control model , the configuration access on network devices should be authenticated from the same authorized user as configured in authorization tool and approval process should follow the ITIL Change management processes".	CA Technologies	Clause as per tender/ corrigendum prevails.

814	8.23	237	Network Automation	Automate routine configuration tasks for updates, such as password or community string changes. Reduce the time needed to build automation scripts and increase accuracy with auto-generated scripts derived from device sessions.	For wider participation request you to kindly rephrase it as " Automate routine configuration tasks for updates, such as password or community string changes, Configuration upload & Download , compare configs, bulk configuration, config backup."	CA Technologies	Clause as per tender/ corrigendum prevails.
815	8.23	240	Network Performance Management	Support for port aggregation protocols like LACP (Link Aggregation Control Protocol), MLT (Multi-Link Trunking), and SMLT (Split MLT), including visual map-based views & automatic impact assessment based on the relationships between physical and virtual links.	Are you still using older technologies like SMLT, MLT in your enviroment, with newer tecnologies like LACP , PAGP this will not be required, Request you to kindly remove	CA Technologies	Clause as per tender/corrigendum
816	8.23	240	Network Performance Management	A variety of reports summarizing the data including: Home page summary, Calendar, Heat chart, Headline, Dashboard, Managed inventory report, Top ten, Most changed, Data explorer	For wider participation request you to kindly rephrase it as " A variety of reports summarizing the data including: Trend Summary, Top N, Calendar, Heat chart , Dashboards, Managed inventory report, Top ten, Most changed or occuring events, Capacity planning etc	CA Technologies	Clause as per tender/corrigendum
817	8.23	240	Network Performance Management	Store as-pollled data for up to 24 months	Storing as-pollled data for longer periods results in an increase in the Disk requiremnet and degrades the performance of the system , as per industry best practices data is rolled up to maintain sanity and performance of the system, for Wider participation request you to remove this clause or reduce it to 3 months."	CA Technologies	Clause as per tender/ corrigendum prevails.
818	8.23	235	EMS	Consolidated dashboard of the proposed EMS solution shall be the manager of managers and capable of receiving events/alerts from multiple monitoring systems including system, network, storage, hardware, and application	Do you require any application monitoring also as part of the project if not request you to kindly rephrase it as " Consolidated dashboard of the proposed EMS solution shall be the manager of managers window and capable of receiving events/alerts from multiple monitoring systems including system, network, storage, hardware"	CA Technologies	Clause as per tender/corrigendum
819	8.23	235	Consolidated Dashboard	Tool should allow to browse performance metrics by selecting CIs or events. New Performance Perspectives allow you to compare graphs of different CIs in the Model Explorer.	For wider participation request you to kindly rephrase it as "Tool should allow to browse performance metrics by selecting Device/CIs or events. The tools should allow to compare different performance metrices of a device/CI in GUI ."	CA Technologies	Clause as per tender/corrigendum
820	8.23	236	Service Level Reporter	Should provide reports that can prove IT service quality levels, such as application response times and server resource consumption in the same report	For wider participation request you to kindly rephrase it as "Should provide reports that can prove IT service quality levels, such as application response times and server resource consumption."	CA Technologies	Clause as per tender/corrigendum

821	8.23	236	Service Level Reporter	Server reporting tool should be able to collect and collate specific information regarding the relationships between the IT elements and the business services.	The requirement asked does not provide much detail on specification , For Wider participation request you to kindly rephrase it as "Server reporting tool should be able to collect and collate metric information regarding the resource utilization, relationship of a business service with Infrastructure elements and its SLA performance".	CA Technologies	Clause as per tender/corrigendum
822	8.23	236	Service Level Reporter	Tool should provide a library of predefined reports that can be cross-launched in the context of business services	For wider Participation kindly rephrase it as "Tool should provide a library of predefined reports/Dashboards that can be cross-launched in the context of business services".	CA Technologies	Clause as per tender/corrigendum
823	8.23	236	Service Level Reporter	Tool should allow to configure downtime for Configuration Items and view the configured downtime in the reports	For wider participation request to kindly rephrase it as " Tool should allow to configure downtime/maintenance window for Configuration Items/Devices and view or remove the configured downtime in the reports"	CA Technologies	Clause as per tender/corrigendum
824	8.23	237	Network Automation	Enforce change processes in real time. Model complex approval processes with flexible rules. Force approvals for changes, including changes made by a direct command line interface (CLI) session	For wider participation request to kindly rephrase it as "Enforce change processes in real time. Model complex approval processes with flexible rules. Force approvals for changes."	CA Technologies	Clause as per tender/corrigendum
825	8.23	238	Network Fault Management	The NMS application should provide a Unified Fault, Availability and Performance function from a single station only to reduce network and device loads with unified fault & performance polling.	For wider participation request to kindly rephrase it as "The NMS application should provide a Unified Fault, Availability and Performance function from a single integrated/unified station".	CA Technologies	Clause as per tender/corrigendum
826	8.23	238	Service Management (Help Desk) and SLA Management	<ul style="list-style-type: none"> The proposed Helpdesk tool should be Axelos Gold level certified on at least 11 ITIL 2011 processes on all the 15 ITIL processes that are the most mature way to demonstrate that at least three IT organizations : Incident management, Problem Management, Change Management, Knowledge Management, Service Level Management, Service Asset and Configuration management, Service Catalogue and Request Fulfilment, etc. The certification copy to be submitted. 	<p>Pink Elephant is the independent ITIL verification agency which certify solution on ITIL processes, please use the open criteria for this and rephrase it to:</p> <ul style="list-style-type: none"> The proposed Helpdesk tool should be certified on at least on 11 ITIL 2011 processes of all the ITIL processes that are the most mature way to demonstrate that at least three IT organizations : Incident management, Problem Management, Change Management, Knowledge Management, Service Level Management, Service Asset and Configuration management, Service Catalogue and Request Fulfilment, etc. The certification copy to be submitted. 	CA Technologies	Clause as per tender/corrigendum

827	8.23	241	Asset Management	<ul style="list-style-type: none"> Asset Manager enables IT organizations to manage the physical, financial and contractual aspects of all IT assets—from request and procurement to retirement and disposal—making it easy to optimize costs, mitigate security and compliance risks and drive business decisions. It should automatically discover and inventory enterprise IT assets which reduces compliance risks, enable software license optimization & chargeback & constantly track changing asset configurations 	Suggest to keep asset management limited to IT Hardware Assets as it need specific skills and more audit and compliance process to be in place before implementation of the tool. Hence, suggest to remove it.	CA Technologies	Clause as per tender/corrigendum
828	8.23	241	Asset Management	<ul style="list-style-type: none"> AM should provide a built-in workflow to suggest to the software asset managers in user organization that they should request more licenses or remove installed software that is not in use or assign rights to others users rather than procuring more licenses 	Suggest to keep asset management limited to IT Hardware Assets as it need specific skills and more audit and compliance process to be in place before implementation of the tool. Hence, suggest to remove it.	CA Technologies	Clause as per tender/corrigendum
829	8.23	241	Asset Management	<ul style="list-style-type: none"> AM will directly alert users whenever a software installation exceeds the purchased volume. AM will also automatically ensure that no additional users are able to subscribe to that software until additional licenses are made available 	Suggest to keep asset management limited to IT Hardware Assets as it need specific skills and more audit and compliance process to be in place before implementation of the tool. Hence, suggest to remove it.	CA Technologies	Clause as per tender/corrigendum
830	8.23	241	Asset record detail	<ul style="list-style-type: none"> o Provide a general tab that stores specific information about the device depending on the device type. 	<p>Please rephrase it to:</p> <p>Provide capability to store specific information about the device depending on the device type.</p>	CA Technologies	Clause as per tender/corrigendum
831	8.23	241	Asset record detail	<ul style="list-style-type: none"> o Provide a Components tab that stores sub-components information of the asset. E.g. ID, Serial Number, Licenses, Version, Status, Category, Type, Item. 	<p>Please rephrase it to:</p> <p>Provide capability to store sub-components information of the asset. E.g. ID, Serial Number, Licenses, Version, Status, Category, Type, Item.</p>	CA Technologies	Clause as per tender/corrigendum
832	8.23	241	Asset record detail	<ul style="list-style-type: none"> o Provide an Additional Details tab that stores various types of detail for the respective type of asset. E.g. how much memory the printer has which might assist in a Help Desk call. 	<p>Please rephrase it to:</p> <p>Provide capability to store various types of detail for the respective type of asset. E.g. how much memory the printer has which might assist in a Help Desk call.</p>	CA Technologies	Clause as per tender/corrigendum

833	8.23	241	Asset record detail	o Provide a Contracts tab that stores different types of contracts: Lease, Support, Warranty, Software, Maintenance	Please rephrase it to: Provide capability to store different types of contracts: Lease, Support, Warranty, Software, Maintenance	CA Technologies	Clause as per tender/corrigendum
834	8.23	242	Asset record detail	Provide a People tab that stores individuals or groups who are owners and users of the asset.	Please rephrase it to: Provide capability to store individuals or groups who are owners and users of the asset.	CA Technologies	Clause as per tender/corrigendum
835	8.23	242	Asset record detail	o Provide a Financials tab that stores associated costs by cost center, budget code, project. Static and incident costs. Provide Straight line depreciation cost calculation.	Please rephrase it to: Provide capability to store associated costs by cost center, budget code, project. Static and incident costs. Provide Straight line depreciation cost calculation.	CA Technologies	Clause as per tender/corrigendum
836	8.23	242	Auto-Discovery	o Proposed solution should have the auto-discovery tool, which should have tight Integration with the proposed ITAM (IT Asset Management) solution.	Please rephrase it to: Proposed solution should have the discovery mechanism which should be able to be imported by the proposed ITAM (IT Asset Management) solution.	CA Technologies	Clause as per tender/corrigendum
837	3.A.1.4 SCOPE OF WORK	48	3.A.1.4.16	Provision of maintenance free earth with earth value less than 1 Ω .	As per standard electrical practices, Provision of maintenance free earth with earth value less than 5 Ω is sufficient for infrastructure at field area. We request to revise the clause accordingly. Also, value depends on the soil condition. At some of soil conditions it would difficult to receive the value less than 1 Ohm.	Allied Digital Services Limited	Clause as per tender/corrigendum prevails.
838	3.A.1.7.1 Support from Indian Railways / RailTel	49	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 existing Railways Norms.	We request to provide the AC power supply at no cost. Also, request to clarify the method of calculation for units consumed for the said work and tariff rate of Railway to be paid by the bidder.	Allied Digital Services Limited	Tender clause prevails. Rates are as per Railway tariff and vary from place to place (commercial rates)

839	3.A.1.7.1 Support from Indian Railways / RailTel	49	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 order, the successful bidder would be allowed to carry out the work even in night.	We request to provide approx calculation of estimate of night hours needed. Night work incurs higher manpower cost which needs to be incorporated and considered in to the financial/commercial bid proposal. Alternatively, allow the bidder with sufficient time for the site survey to make the estimate of approx night hours required before the submission of the bid.	Allied Digital Services Limited	Clause as per tender/corrigendum prevails.
840	3.A.1.7.1 Support from Indian Railways / RailTel	49	3.A.1.7.9	Any land required by the bidder may be made available by Railways, if available, at the lease cost as per the latest norms of Railways.	We request to waive of the charges for the land to be used by the bidder. Also, clarify the cost/rent of land per square feet.	Allied Digital Services Limited	Clause as per tender/corrigendum prevails.
841	3.A.1.9 INSTALLATION, INTEGRATION, TESTING, TRIAL RUN AND COMMISSIONING OF NETWORK/SYSTEM	50	NA	b) Integration with existing network/system	We request to provide the complete technical details of existing network/system	Allied Digital Services Limited	The existing system is non propriety and details may be provided to the successful vendor during commissioning of the station.
842	3.A.1.10 TRAINING OF PURCHASER'S PERSONNEL AND CHANGE MANAGEMENT	50	NA	Completion of IT awareness training D + 3Months	We request to extend the schedule up to D + 6 Months	Allied Digital Services Limited	Clause as per tender/corrigendum prevails.

843	3.D.3. Inspection/Factory Acceptance Test	70	3.D.3.4	<p>On successful visual and functional tests as above, the equipment may be considered to be in conformance with RDSO specification. However, the vendor shall submit special bank guarantee equivalent to 10% of the value of the equipments inspected by third party abroad & valid for a period of one year (in addition to Performance Guarantee) and undertaking to the purchaser that the equipment supplied shall meet all the requisite parameters of the specification and shall work satisfactorily failing which bank guarantee may be encashed. Firm shall also submit suitable undertaking regarding satisfactory repair /service support to the purchaser.</p>	<p>We request to waive off the additional special bank guarantee equivalent to 10% of the value of the equipments inspected by third party abroad. Bidder would be already providing normal bank guarantee for the project.</p>	Allied Digital Services Limited	<p>Clause as per tender/corrigendum prevails.</p>
844	4.A.4 Delivery/Implementation timelines	80	NA	<p>Phase I, II and III to be completed within D + 15 Months</p>	<p>We request revise the total project completion timelines up to D + 21 Months.</p>	Allied Digital Services Limited	<p>Clause as per tender/corrigendum prevails.</p>

845	4.A.8 Service Level Agreement (SLA) and Penalties	89	4.A.8.10	<p>No payment for the month would be made for the station where the station down time observed would be more than 20%. Down time for station would be defined as follows:</p> <p>a) For A-1 category station, the station would be considered as down for the time when more than 15 cameras are defective or out of service</p> <p>b) For A category station, the station would be considered as down for the time when more than 12 cameras are defective or out of service</p> <p>c) For B category station, the station would be considered as down for the time when more than 8 cameras are defective or out of service</p> <p>d) For C category station, the station would be considered as down for the time when more than 5 cameras are defective or out of service</p> <p>e) For D & E category station, the station would be considered as down for the time when more than 2 cameras are defective or out of service</p>	<p>We request to revise the clause as below.</p> <p>No payment for the month would be made for the station where the station down time observed would be more than 60%. Down time for station would be defined as follows:</p> <p>a) For A-1 category station, the station would be considered as down for the time when more than 60% cameras are defective or out of service</p> <p>b) For A category station, the station would be considered as down for the time when more than 60% cameras are defective or out of service</p> <p>c) For B category station, the station would be considered as down for the time when more than 60% cameras are defective or out of service</p> <p>d) For C category station, the station would be considered as down for the time when more than 60% cameras are defective or out of service</p> <p>e) For D & E category station, the station would be considered as down for the time when more than 60% cameras are defective or out of service</p>	Allied Digital Services Limited	Clause as per tender/corrigendum prevails.
846	4.A.14.1 Eligibility Criteria Requirements for Bidders:	94	Legal Entity	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	<p>We request to allow a foreign company who is having the business in IT/Security/Telecom or the OEM who has not presence in India to participate as a consortium partner, with the Indian company who is the lead bidder.</p> <p>Also, request to clarify the documents to be submitted for such a foreign company/OEM who participate as a Consortium Partner.</p>	Allied Digital Services Limited	Clause as per tender/corrigendum prevails.
847	8.8 Type I Switch	212	8.8.2.3	Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement	<p>Kindly clarify the expected Operating temperature and storage temperature? Can we assume it will be within 0 to 45 degrees Celsius operating temperature and -20 to 70 degrees Celsius for storage temperature as all leading brand of enterprise switches support it.</p>	DELL	Clause as per tender/corrigendum prevails.

848	8.9. Type-II Switch	213	19	Should support ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	Dell Supports IEEE802.1w sub second ring failover which interoperates with multivendor Switches in Ring which might not be with Implementation of Specific sub 50 msec failover technologies. Request to accept IEEE 802.1W RSTP as sub second Failover technology	DELL	Clause as per tender/corrigendum prevails.
849	8.9. Type-II Switch	213	24	I) Bidder to propose switch having Operating Temperature and Storage Temperature as per environmental requirement.	Kindly clarify the expected Operating temperature and storage temperature? Can we assume it will be within 0 to 45 degrees Celsius operating temperature and -20 to 70 degrees Celsius for storage temperature as all leading brand of enterprise switches support it.	DELL	Clause as per tender/corrigendum prevails.
850	8.10. Switches Type-III	215	24	Bidder to propose switch having Operating Temperature as per environmental requirement at Indian Railway Stations.	Kindly clarify the expected Operating temperature and storage temperature? Can we assume it will be within 0 to 45 degrees Celsius operating temperature and -20 to 70 degrees Celsius for storage temperature as all leading brand of enterprise switches support it.	DELL	Clause as per tender/corrigendum prevails.
851	8.10. Switches Type-III	215	25	Bidder to propose switch having Storage Temperature as per environmental requirement.	Kindly clarify the expected Operating temperature and storage temperature? Can we assume it will be within 0 to 45 degrees Celsius operating temperature and -20 to 70 degrees Celsius for storage temperature as all leading brand of enterprise switches support it.	DELL	Clause as per tender/corrigendum prevails.
852	8.11. Switches Type-IV	216	10	Bidder to propose switch having Operating and Storage Temperature as per environmental requirement	Kindly clarify the expected Operating temperature and storage temperature? Can we assume it will be within 0 to 45 degrees Celsius operating temperature and -20 to 70 degrees Celsius for storage temperature as all leading brand of enterprise switches support it.	DELL	Clause as per tender/corrigendum prevails.
853	8.11. Switches Type-IV	216	14.3	Shall also support MPLS with RSVP and LDP signaling. It shall support MPLS FRR and L3VRF with upto 64 VRF.	Router can provide detailed MPLS feature as asked in the specification. Kindly confirm it's an optional requirement or router and switch can be combined for Switch type -IV.	DELL	Clause as per tender/corrigendum prevails.
854	8.11. Switches Type-IV	216	14.5	Shall support at least 1K MPLS labels.	Router can provide detailed MPLS feature as asked in the specification. Kindly confirm it's an optional requirement or router and switch can be combined for Switch type -IV.	DELL	Clause as per tender/corrigendum prevails.

855	8.11. Switches Type-IV	216	14.7	It shall support LSP ping and trace.	Router can provide detailed MPLS feature as asked in the specification. Kindly confirm it's a optional requirement or router and switch can be combined for Switch type -IV.	DELL	Clause as per tender/corrigendum prevails.
856	8.11. Switches Type-IV	216	14.9	Shall support MPLS based L3 and L2 VPN services.	Router can provide detailed MPLS feature as asked in the specification. Kindly confirm it's a optional requirement or router and switch can be combined for Switch type -IV.	DELL	Clause as per tender/corrigendum prevails.
857	8.11. Switches Type-IV	217	15.21	ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies	Dell Supports IEEE802.1w sub second raing failover which interopetaes with multivendor Switches in Ring which might not be with Implemnetation of Specific sub 50 msec failover technologies. Tequest to accept IEEE 802.1W RSTP as sub second Failover technology	DELL	Clause as per tender/corrigendum prevails.
858	8.11. Switches Type-IV	217	15.22	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).	Dell Supports IEEE802.1w sub second raing failover which interopetaes with multivendor Switches in Ring which might not be with Implemnetation of Specific sub 50 msec failover technologies. Tequest to accept IEEE 802.1W RSTP as sub second Failover technology	DELL	Clause as per tender/corrigendum prevails.
859	8.11. Switches Type-IV	217	15.28	<p>The following Metro Ethernet features should support:</p> <ol style="list-style-type: none"> 1. IEEE 802.1ad Provider Bridge. 2. Transparent LAN Services with Service VLAN (SVLAN) and Customer VLAN (CVLAN) concept. 3. CVLAN to SVLAN translation and mapping 4. IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs). 5. Ethernet OAM compliant with IEEE 802.3ah. 6. ITU-T G.8032 Ethernet Ring Protection designed for loop protec-tion and fast convergence times (sub 50 ms) in ring topologies. 7. Should support Optical Transceiver Digital Diagnostic Monitor-ing. 8. Switch should support minimum of 4000 Ethernet flow points (EFP) or equivalent functionality. 9. L2 Protocol Tunneling. 	Dell supports Double Vlan taggingand 802.1ag Connectivity fault managemnet features. Request to accept IEEE 802.1W RSTP sub scond failover against G.8032 Sub 50 Msec as each oem has specfic implemnetation	DELL	Clause as per tender/corrigendum prevails.

860	8.11. Switches Type-IV	217	17	i. The model of the Switches series shall have MEF-(9 & 14)/CE2.0 or higher certification from authorized agencies.	Request for acceptance for Enterprise Switches	DELL	Clause as per tender/corrigendum prevails.
861	8.12. Core Switch for Datacenter	219	25	Switch shall be PCI/EAL2/NDPP/FIPS certified from common criteria organization.	Since PCI/EAL2/NDPP/FIPS are the common criteria certification for security. The common criteria certificate doesn't ensure the better security, its ensure the better documentation. Request you to kindly remove so that leading OEM can participate. Request you to kindly remove this clause.	HPE	Clause as per tender/corrigendum prevails.
862	11.0 PC Workstation	310	4	Frequency - 2.4 GHz or higher	Request you to change it to 3.7 GHz or higher	Hewlett Packard India Sales Pvt. Ltd	Clause as per tender/corrigendum prevails.
863	11.0 PC Workstation	310	10	Hard Disk Drive - SAS HDD, 2x450 GB, 10000 RPM or higher	Request you to change it to 2X512GB SSD or higher	Hewlett Packard India Sales Pvt. Ltd	Clause as per tender/corrigendum prevails.
864		55, 56	3.B.3.1	8 port PoE access switches will be deployed on each platform to cover required length of platform.	The successful bidder will be allowed to use POE extenders wherever the distance of IP end points like IP cameras from the 8-port switch is more than 100 metres	NVT Phybridge India	Clause as per tender/corrigendum prevails.
865			3.B.3.2			NVT Phybridge India	Clause as per tender/corrigendum prevails.
866			3.B.3.3			NVT Phybridge India	Clause as per tender/corrigendum prevails.
867			3.B.3.4			NVT Phybridge India	Clause as per tender/corrigendum prevails.
868			3.B.3.5			NVT Phybridge India	Clause as per tender/corrigendum prevails.
869		212	8.8	8 Port Layer 2 switch suitable for end locations as per RDSO Specification no. RDSO/SPN/TC/83/2014 Revision 1.0 or latest with all amendments.	The successful bidder will be allowed to use POE extenders wherever the distance of IP end points like IP cameras from the 8-port switch is more than 100 metres	NVT Phybridge India	Clause as per tender/corrigendum prevails.
870						NVT Phybridge India	Clause as per tender/corrigendum prevails.
871	Amendment No. 03	9 of 10	16	Processor – Intel Core i7 or similar or higher	Request to include AMD by Name to enhance competition, only 02 global manufacturers of Microprocessors are available worldwide	AMD INDIA PVT LTD	Clause as per tender/corrigendum prevails.
872	Amendment No. 04	10 of 10	16	No. of Cores – 02	The latest generation i7 and AMD R7 processors have core counts of 6 & 8 respectively. So, Based on the current technology availability, request to mention 6 Core or higher to accommodate all.	AMD INDIA PVT LTD	Clause as per tender/corrigendum prevails.
873	Amendment No. 05	11 of 10	16	Cache 4 MB	Current processors of the desired standard do have at least 12 MB of cache. Therefore, request to mention 12 MB cache or higher to ensure latest products to be quoted	AMD INDIA PVT LTD	Clause as per tender/corrigendum prevails.

874	RDSO specification of IP based Video Surveillance system	21 of 45	10.1.1 – Server Hardware	Processor – Intel Xeon	Request to incorporate AMD EPYC as an option at the component level.	AMD INDIA PVT LTD	Clause as per tender/corrigendum prevails.
875	RDSO specification of IP based Video Surveillance system	22 of 45	10.1.1 – Server Hardware	QPI	Proprietary Term – Request to remove the same to allow all to bid	AMD INDIA PVT LTD	Clause as per tender/corrigendum prevails.
876	RDSO specification of IP based Video Surveillance system	23 of 45	10.1.1 – Server Hardware	System Bus / QPI Speed	Proprietary Term – Request to remove the same to allow all to bid	AMD INDIA PVT LTD	Clause as per tender/corrigendum prevails.
877	Specifications of Display Wall		Display Wall Screen Size	70"		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
878	Specifications of Display Wall		Projection Technology	DLP Rear Projection Display Cubes		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
879	Specifications of Display Wall		Native Resolution per cube	1920x1080		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
880	Specifications of Display Wall		Aspect Ratio	16:9		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

881	Specifications of Display Wall		No. of Modules	4 [2 (Columns) x 2 (Rows)]		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
882	Specifications of Display Wall		Light Source	LED (R/G/B)	Please chagne to: LED Clusture	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
883	Specifications of Display Wall		Brightness	Minimum 300 cd/m2		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
884	Specifications of Display Wall		Brightness Uniformity	95%		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
885	Specifications of Display Wall		Contrast ratio	Typical 1600:1		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
886	Specifications of Display Wall		Color Calibration	Automatic inbuilt sensors for Contionous colour and brightness management mechanism to be provided.	Proprietary specs. Please change to: Automatic inbuilt sensors for colour and brightness management mechanism to be provided	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
887	Specifications of Display Wall		Connectivity	Each display Module shall support 4HD @ 30Hz inputs	Remove this	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
888	Specifications of Display Wall		Full viewing angle	180°		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
889	Specifications of Display Wall		Lifetime	Normal mode: 60,000h		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

890	Specifications of Display Wall			Eco mode: 80,000h		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
891	Specifications of Display Wall		Inputs	Dual link DVI-D in/out	Proprietary specs. Please change to: Single link DIV In/Out for wider participation	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
892	Specifications of Display Wall		Power	100 - 240 VAC, 60 - 50Hz, (below values are for 230V; 110V +5%)	Proprietary specs. Please change to: 100 - 240 VAC, 60 - 50Hz	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
893	Specifications of Display Wall		Eco mode	Less than 120 Watt	Proprietary specs. Please change to: Max 270W for wider participation	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
894	Specifications of Display Wall		Heat Dissipation			Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
895	Specifications of Display Wall		Eco mode	Less Than 400 BTU/h	Proprietary specs. Please change to: Max 900 BTU/h for wider participation	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
896	Specifications of Display Wall		Operating conditions			Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
897	Specifications of Display Wall		Humidity	Up to 80% non-condensing		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
898	Specifications of Display Wall		Temperature	10°C-40°C 50°F-105°F		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

899	ations of Display		Storing conditions			Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
900	Specifications of Display		Temperature	0°C-40°C 32°F-105°F		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
901	Specifications of Display		Remote management through IP	Remote management through IP for parameter adjustment. Each cube should have built-in web server		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
902	ations of Display		Access	Rear of the Video Wall only		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
903	ations of Display		Pixel clock	320 Mhz	Proprietary specs. Please change to: 162 Mhz for wider participation	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
904	ations of Display		Signal Processing	Each cube should have cropping/scaling capability		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
905	ations of Display		Screen Half-gain Viewing Angle	Hor: 28 degrees +/- 3		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
906	ations of Display			Ver: 13 degrees +/- 3		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
907	Specifications of Display		Layouts	The software should be able to pre configure various display lay- outs and access them at any time with a simple mouse click or schedule/timer based.		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
908	Specifications of Display		Sources	The software should be able to display multiple sources anywhere on the video wall & in any size.		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
909	Specifications of Display Wall Management Software		Remote Viewing	The video wall content will be able to show live on any remote display Mobile with IE	Proprietary specs. Please remove for wider participation	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
910	Specifications of Display Wall Management		User management	Key features of Video Wall Management Software		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
911	Specifications of Display Wall Management Software			<ul style="list-style-type: none"> Central configuration database 		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

912	Specifications of Display Wall Management Software			<ul style="list-style-type: none"> Browser based user interface 	Please change this to browser / server based	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
913	Specifications of Display Wall Management Software			<ul style="list-style-type: none"> Auto-detection of network sources 		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
914	Specifications of Display Wall Management Software			<ul style="list-style-type: none"> Online configuration of sources, displays and system variables 		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
915	Specifications of Display Wall Management Software		Software features	Video Wall Control Software shall allow commands on wall level or cube level or a selection of cubes :		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
916	Specifications of Display Wall Management Software			<ul style="list-style-type: none"> Switching the entire display wall on or off. 		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
917	Specifications of Display Wall Management Software			<ul style="list-style-type: none"> Setting all projection modules to a common brightness target, which can be either static (fixed) or dynamic to always achieve maximum (or minimum) common brightness between projection modules. 		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
918	Specifications of Display Wall Management Software			<ul style="list-style-type: none"> Fine-tune colour of each cube 		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

919	Specifications of Display Wall Management Software		Client & Server based Architecture	Should support Multiple clients / Consoles to control the Wall lay- outs		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
920	Specifications of Display Wall Management Software		Collaboration	The Software should be able to share layouts comprising of multiple sources with workstations / Displays over LAN for remote monitoring		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
921	Specifications of Display Wall Management Software		Scaling	Software should enable the user to display multiple sources (both local & remote) up to any size and anywhere on the display walls (both local & remote).		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
922	Specifications of Display Wall Management Software		Display	The software should be able to create layouts and launch them as and when desired		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
923	Specifications of Display Wall Management Software		Remote Control	The Display Wall and sources (both local & remote) should be controlled from Remote PC through LAN without the use of KVM Hardware. All Video wall control to be also seamlessly integrated with smart keyboard console with touch screen.	Please remove the red highlighted portion for wider participation	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

924	Specific ations of Display Wall Manage ment Softwar e		Support of Meta Data	Software should support display of Alarms		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
925	Specific ations of Display Wall Manage ment Softwar e		Authenticati on	The software should provide at least 2 layer of authentication, software & hardware through username and password on the oper- ator smart console with touchscreen		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
926	Specific ations of Display Wall Manage ment Softwar e		Scenarios	Software should able to Save and Load desktop layouts from Lo- cal or remote machines		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
927	Specific ations of Display Wall Manage ment Softwar e		Layout Scheduler	All the Layouts can be scheduled as per user convince.		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
928	Specific ations of Display Wall Manage ment Softwar e		Layout Scheduler	Software should support auto launch of Layouts according to specified time event by user		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

929	Specific ations of Display Wall Manage ment Softwar e		Layout Managemen t	It should be possible to create layouts comprising of screen scrapped content of Workstations, DVI inputs, Web sources, URLs configured as sources. Layouts can be pre configured or changed in real time		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
930	Specific ations of Display Wall Manage ment Softwar e		Layouts Configuratio n	Can be pre configured or changed in real time		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
931	Specific ations of Display Wall Manage ment Softwar e		Scheduling	It should be possible to schedule specific Layout based on time range		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
932	Specific ations of Display Wall Manage ment Softwar e		Sharing & Collaboratio n	It should be possible to share the layouts over LAN/WAN Network with Display in Meeting room or on Remote Workstations con- nected on LAN/WAN Network	Please change this to: it should be possible to share layout over LAN/ WAN network with workstations connected to meeting room or other workstations connected to same LAN / WAN network	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
933	Specific ations of Display Wall Manage ment Softwar e		Soft KVM	The system shall include complete Soft KVM to permit operators to take mouse & keyboard control of Displays, Screen Scrapped applications and DVI source. All wall management software func- tionalities to be triggered by operator smart console with touch screen	Please remve the red hilighted portion for wider participation	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

934	Specific ations of Display Wall Manage ment Softwar e		Ticker	It should be possible to create two separate Tickers which run con- currently . These can be positioned at top or bottom and can run independently .The Ticker can be picked from data source through screen scrapping or through typing specific incidence, manually.	Please change to: It should be possible to create two separate Tickers which run con- currently . These can be positioned at top or bottom and can run independently . The Ticker can be picked from any text file or through typing manually.	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
935	Specific ations of Display Wall Manage ment Softwar e		OEM Certification	All features and functionality should be certified by the OEM.		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
936				The Display Modules, Display Controller & Software should be from a single OEM.		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
937	Specific ations of Display Wall Controll ers		Item	Specifications		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
938	Specific ations of Display Wall Controll ers		Display controller	Controller to be able to control cubes		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
939	Specific ations of Display Wall Controll ers		Redundant Controller	The controller should be based on the latest architecture .		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

940	Specific ations of Display Wall Controll ers		Platform	Windows Xeon Quad core 3 Ghz or Core i7 3 Ghz above		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
941	Specific ations of Display Wall Controll ers		Processor	Intel Xeon		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
942	Specific ations of Display Wall Controll ers		RAM	32 GB		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
943	Specific ations of Display Wall Controll ers		Chassis Type	19" Rack mount industrial chassis		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
944	Specific ations of Display Wall Controll ers		Network	2 Network Ports		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
945	Specific ations of Display Wall Controll ers		Resolution Support For Outputs	Minimum 1920 x 1080 or higher		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

946	Specific ations of Display Wall Controll ers		Ticker	There should be a possibiity in the controller to create user defined multiple tickers. It should also be possible to place these tickers anywhere on the wall		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
947	Specific ations of Display Wall Controll ers		Scalability	The system should be able to add additional inputs as re- quired in the future		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
948	Specific ations of Display Wall Controll ers		Control	The system should have the capabilities of interacting (Monitoring & Control) with various applications on different network through the single Operator Workstation. It shall be possible to launch layouts, change layouts in real time using physical hot keys on smart operator keyboard or Touch screen, tablet etc.	Please change to: Control: Over LAN	Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
949	Specific ations of Display Wall Controll ers		Redundancy	Redundant Hot SwappableHDD in RAID 1 Configuration		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
950	Specific ations of Display Wall Controll ers		Redundancy	Redudnant Hot Swappable Power Supply		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
951	Specific ations of Display Wall Controll ers		Keyboard & Mouse Extension	Keyboard and Mouse along with mechanism to extend them to 20 Mtrs. operator desk from display controller to be provided		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.

952	Specifications of Display Wall Controllers		24 x 7 operation	The controller shall be designed for 24 x 7 operation		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
953	Specifications of Display Wall Controllers		Others	The Video Wall and the Controller should be of the same make to ensure better performance and compatibility		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
954	Specifications of Display Wall Controllers		OEM Certification	All features and functionality should be certified by the OEM. The Display Modules, Display Controller & Software should be from a single OEM.		Delta Displays solutions Business	Clause as per tender/corrigendum prevails.
955	8.9	213	8	Should support Auto MDI-II/MDI-X uplink for all the twisted pair ports.	There are no twisted pair copper ports requested for Type-II switch	Targustech	Clause as per tender/corrigendum prevails.
956	8.9	213	15	i.) IGMP Snooping, MLD Snooping v1/v2	MLD snooping does not have versions, MLD protocol have versions v1, v2	Targustech	Clause as per tender/corrigendum prevails.
957	8.14	222	5.1	Solution must be capable of passively gathering information about network hosts and their activities, such as operating system, services, open ports, client applications, and vulnerabilities, to assist with multiple activities, such as in-trusion event data correlation, elimination of false positives, and policy compliance.	Collecting information regarding endpoint host OS, services, ports etc and performing correlation activity is not the task of NGFW and requires additional layer on top to perform these functionalities.	Targustech	Clause as per tender/corrigendum prevails.
958	8.14.1	222	5.6	Firewall should support Nat66 (IPv6-to-IPv6), Nat44 (IPv4 to IPv4) and IPv6 to IPv4 to IPv6 for translation/tunneling functionality.	IPv6 does not require NAT. There is no use case for IPv6-IPv6 NAT and this is just in an experimental phase	Targustech	Clause as per tender/corrigendum prevails.
959	8.14.1	222	5.9	Should support capability to receive contextual user information like username, IP address, authentication status, location and device information from 3rd party vendors	Please explain the use case in detail. Does this mean that NGFW should integrate with NAC/Radius like device ? In such a case the 3rd party NAC/Radius would be using information such as device username/ip, location etc	Targustech	Clause as per tender/corrigendum prevails.

960	8.14.1	222	5.16	Solution should support the capability to configure the access policy on the basis of IP Address, User ID/Group, VLAN, Network, Objects, Device type, Location, Ports, Protocols, etc.	Policy enforcement on the basis of location, device type is functionality of NAC and not NGFW.	Targustech	Clause as per tender/corrigendum prevails.
961	8.14.1	223	8.2	Firewall/ Firewall's Operating System should be USGv6/IPv6 Certified/IPv6 logo ready	IPv6 certification/ IPv6 logo ready is not an industry standard. The device does not have to be IPv6 certified/logo ready to support IPv6 features.	Targustech	Clause as per tender/corrigendum prevails.
962	8.14.2	225	5.1	Solution must be capable of passively gathering information about network hosts and their activities, such as operating system, services, open ports, client applications, and vulnerabilities, to assist with multiple activities, such as in-trusion event data correlation, elimination of false positives, and policy compliance.	Collecting information regarding endpoint host OS, services, ports etc and performing correlation activity is not the task of NGFW and requires additional layer on top to perform these functionalities.	Targustech	Clause as per tender/corrigendum prevails.
963	8.14.2	225	5.6	Firewall should support Nat66 (IPv6-to-IPv6), Nat44 (IPv4 to IPv4) and IPv6 to IPv4 for translation/tunneling functionality.	IPv6 does not require NAT. There is no use case for IPv6-IPv6 NAT and this is just in an experimental phase	Targustech	Clause as per tender/corrigendum prevails.
964	8.14.2	225	5.9	Should support capability to receive contextual user information like username, IP address, authentication status, location and device information from 3rd party vendors	Please explain the use case in detail. Does this mean that NGFW should integrate with NAC/Radius like device ? In such a case the 3rd party NAC/Radius would be using information such as device username/ip, location etc	Targustech	Clause as per tender/corrigendum prevails.
965	8.14.2	225	5.16	Solution should support the capability to configure the access policy on the basis of IP Address, User ID/Group, VLAN, Network, Objects, Device type, Location, Ports, Protocols, etc.	Policy enforcement on the basis of location, device type is functionality of NAC and not NGFW.	Targustech	Clause as per tender/corrigendum prevails.
966	8.14.2	226	8.2	Firewall/ Firewall's Operating System should be USGv6/IPv6 Certified/IPv6 logo ready	IPv6 certification/ IPv6 logo ready is not an industry standard. The device does not have to be IPv6 certified/logo ready to support IPv6 features.	Targustech	Clause as per tender/corrigendum prevails.
967	8.11	216	15 (iv)	Support for IEEE 802.1 D spanning tree protocol	ERPS is supported for ring topologies for 50 ms convergence. 802.1d STP is is an old enterprise protocol not suited for metro networks	Targustech	Clause as per tender/corrigendum prevails.
968	8.11	216	15 (v)	Support for IEEE 802.1 s MSTP	ERPSv2 is supported for ring topologies for 50 ms convergence. 802.1d STP is is an old enterprise protocol not suited for metro networks	Targustech	Clause as per tender/corrigendum prevails.

969	8.11	217	15 (xxviii) 9.	L2 Protocol Tunneling	Please elaborate on the use case. This is a switch based protocol. Since router based solution is allowed request you to please relax this requirement	Targustech	Clause as per tender/corrigendum prevails.
970	8.11	218	16 (I)	I. IEEE 802.1D (STP)	ERPS is supported for ring topologies for 50 ms convergence. 802.1d STP is is an old enterprise protocol not suited for metro networks	Targustech	Clause as per tender/corrigendum prevails.
971	8.11	218	16 (V)	V. IEEE 802.1s (MSTP)	ERPSv2 is supported for ring topologies for 50 ms convergence. 802.1d MSTP is is an old enterprise protocol not suited for metro networks	Targustech	Clause as per tender/corrigendum prevails.
972	8.11	218	17(iii)	CE/FCC	CE/FCC is a private cetification and not a global standard like NEBS	Targustech	Clause as per tender/corrigendum prevails.
973				8.13.4. SFP+ (350mtrs)		Targustech	Clause as per tender/corrigendum prevails.
974	8.13.4	221	2	Should support 10 km optical distance (1550/1310 nm).	This requirement is for SFP+ for short range 350 mtrs as per title. Short range SFP will work at 850 nm and not 1550/1310 nm. This clause conflicts with clause 4 where MMF is requested but here distanc asked is 10Km	Targustech	Clause as per tender/corrigendum prevails.
975	8.13.4	221	4	Should have 10 Gigabit Ethernet capacities on multi-mode fiber	This clause conflicts with clause 2. MMF cannot drive 10Km	Targustech	Clause as per tender/corrigendum prevails.
976				RDSO/SPN/TC/83/2014		Targustech	Clause as per tender/corrigendum prevails.
977	6	23	6.3.2	It shall support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.	This requirement maps to DTP.. Dynamic Trunking Protocol is a cisco proprietary protocol. You do not require DTP to create trunk links. Also manual trunk configuration is the recommended best practice.	Targustech	Clause as per tender/corrigendum prevails.
978	6	25	6.5.8	It shall support MAC address notification to allow administrators to be notified of users added to or removed from the network.	MAC address entries can be tracked by checking the "mac-address table" which is a standard table maintained by all switches, mac-notification feature is specific to some OEMs and not a standard feature	Targustech	Clause as per tender/corrigendum prevails.
979	7	27	7.4	The operating personnel shall be protected against shock hazards as per IS 8473 (1993) – Guide on the effects of current passing through the human body (equivalent to IEC publications 479 – 1984).	Protection of personnel is delivered throuh a framework of equipmemnt installation practices where grounding, wrist straps, operational guidelines etc play a role. It is not device specific.	Targustech	Clause as per tender/corrigendum prevails.

980	8.16.1 UPS - 1 KVA	Page 227 of 266 of Volume 3		Monitoring software for UPS, battery needs to be defined on what parameters and in what kind of dashboard the output should be obtained and reports can be sent over email etc.	SNMP Card for connecting the UPS to LAN thru Ethernet port & monitoring thru NMS should be available (The cost of SNMP Card / NMS software to be quoted separately). The software Dashboard & Reporting System it should allow auto scheduling of these Reports to user defined email ids via client's SMTP server attaching reports to the email in any of the following formats: PDF, WORD AND READ-ONLY EXCEL. Client may choose either one of these formats but the system should be capable of doing all formats mentioned in the requirement.	Schneider	Clause as per tender/corrigendum prevails.
981	8.16.1 UPS - 1 KVA voltage range	Page 227 of 266 of Volume 3		Voltage range for bypass from 120 - 288 V seems to be vendor specific.	hence suggest voltage range for bypass from 170 - 260 V	Schneider	Clause as per tender/corrigendum prevails.
982	8.16.1 UPS - 1 KVA V threshold	Page 227 of 266 of Volume 3		The V threshold limit 2% max full linear load, 5% max on Non-linear load seems to be vendor specific.	Hence suggest V threshold <3% for full linear load & <6% for full non-linear load	Schneider	Clause as per tender/corrigendum prevails.
983	8.16.1 UPS - 1 KVA	Page 227 of 266 of Volume 3		Tel line surge protection - this feature is model specific and hence vendor specific.	Kindly remove this feature	Schneider	Clause as per tender/corrigendum prevails.
984	8.16.1 UPS - 1 KVA	Page 227 of 266 of Volume 3		Safety - EN	Recommend to add EN / IEC as few OEM's comply with IEC standard	Schneider	Clause as per tender/corrigendum prevails.
985	8.16.1 UPS - 1 KVA	Page 227 of 266 of Volume 3		Size : not more than 2U rack mountable	Rack mount UPS comes with inbuilt batteries and hence since you require large back up time, UPS should be tower mount. Hence request you to change it to tower type.	Schneider	Clause as per tender/corrigendum prevails.

986	8.16.1 UPS - 2 KVA	Page 227 of 266 of Volume 3		The V threshold limit 2%max full linear load,5% max on Nonlinear load seems to be vendor specific.	Hence suggest V threshold <3% for full linear load & <6% for full non-linear load	Schneider	Clause as per tender/corrigendum prevails.
987	8.16.1 UPS - 2 KVA	Page 227 of 266 of Volume 3		EPO function - this is model specific and hence vendor specific feature	Kindly remove this feature	Schneider	Clause as per tender/corrigendum prevails.
988	8.16.1 UPS - 2 KVA	Page 227 of 266 of Volume 3		Tel line surge protection - this feature is model specific and hence vendor specific.	Kindly remove this feature	Schneider	Clause as per tender/corrigendum prevails.
989	8.16.1 UPS - 2 KVA	Page 227 of 266 of Volume 3		Size : not more than 2U rack mountable	Rack mount UPS comes with inbuilt batteries and hence since you require large back up time, UPS should be tower mount. Hence request you to change it to tower type.	Schneider	Clause as per tender/corrigendum prevails.
990	8.16.1 UPS - 2 x 10 KVA	Page 227 of 266 of Volume 3		Overload memory : Default : yes this is a vendor specific function	Kindly remove this feature	Schneider	Clause as per tender/corrigendum prevails.
991	8.16.1 UPS - 2 x 10 KVA	Page 227 of 266 of Volume 3		Battery Charger Nominal recharging current 12 A (1+-10%) is vendor specific.	For 1 hour back up on each ups and to get batteryies charged within 8 - 10 hours maximum of 10 A charger is required. Hence suggest this should be made as 10 Amp	Schneider	Clause as per tender/corrigendum prevails.
992	8.16.1 UPS - 2 x 10 KVA	Page 227 of 266 of Volume 3		Certification : CE	In India BIS is mandetary and required for ups hence suggest to add CE / BIS, CE certificate are only with specific OEM's	Schneider	Clause as per tender/corrigendum prevails.

993	8.21.4 Front Door (Telecom Rack (9U, 19", Wall mounted)	Page 233 of 266		There are two different type of doors mentoined at the front i.e. Rack should have front door tough and transparent glass fitted on MS/CRCA sheet on sides with Lock and key, and, MS/CRCA door plain having ventilation holes bottom side with dust filters.	For Outdoor application, steel door with ventilation holes and filter at front is recommended. The height of the cabinet suggested is 15U, owing to Battery, UPS, Switch, Battery and other components which gets mounted on it.	Schneider	Clause as per tender/corrigendum prevails.
994	8.21.5 Top & Bottom (Telecom Rack (9U, 19", Wall mounted)	Page 233 of 266		Cable entry provisioing required at both top and bottom? Please share the number of cables with cable size at both the ends for provisioning cable glands of appropriate size.	CRCA Sheet shall be of 513 Grade Steel. Roxtec/PG Glands to be used for Cable Entry without effecting the IP Rating.	Schneider	Clause as per tender/corrigendum prevails (as per site requirement)
995	8.21.7 Earthing Provisio ns (Telecom Rack (9U, 19", Wall mounted)	Page 233 of 266		What type of earthing is required?	Earthing kit with split wires or Horizontal Copper Earthing Bar. Please suggest the details of copper earthing bar if required for wallmount.	Schneider	Appropriate copper earthing bar (horizontal or as per site requirement)
996	8.21.8 Cable Manager (Telecom Rack (9U, 19", Wall mounted)	Page 233 of 266		Vertical Cable Manager in Wallmount Rack of 9U height is not possible.	3 Nos. of 1U Cable loops can be provided at both side wall at front.	Schneider	Clause as per tender/corrigendum prevails.

997	8.21.12 Powder Coating (Telecom Rack (9U, 19", Wall mounted)	Page 233 of 266		Powder Coating Micron Level to be confirmed.	OEM to have inhouse Nano-Ceramic Powder Coating Facility. Powder Coating upto 80-100 Micron.	Schneider	Clause as per tender/corrigendum prevails.
998	8.21.13 INDIAN RAILWAYS LOGO (Telecom Rack (9U, 19", Wall mounted)	Page 233 of 266		Location and font to be specified		Schneider	On the centre top of the rack with appropriate font size/approved design
999	8.21.14 Certifications	Page 233 of 266		Only ISO 9001 Certificatoin.	ISO 9001:2015, ISO 14001: 2015, OHSAS 18000:2007, ROHS Compliant	Schneider	Clause as per tender/corrigendum prevails.
1000	8.21.15 IP 54 Protection	Page 234 of 266			FIP (Foam In Place) type of gasket to be used for any open space to enhance the cabinet and IP protection.	Schneider	Clause as per tender/corrigendum prevails.
1001	8.22.1 - Dimensions (19" 42U Rack)	Page 234 of 266		Dimensions including Width and Depth are required.	42U 600W 1000D, as per server storage minimum Depth recommended is 1000mm.	Schneider	Clause as per tender/corrigendum prevails.
1002	8.22.2 Side Panels (19" 42U Rack)	Page 234 of 266		Side panels with latching arrangement is not recommended in IP54 Cabinet.	Screw-On Type Side Panels are recommended.	Schneider	Clause as per tender/corrigendum prevails.
1003	8.22.4 Rear Side (19" 42U Rack)	Page 234 of 266		Cabinet required is IP54, rear door can't be provided with perforation.	Rear Side fixed plain panel or door is suggested.	Schneider	Clause as per tender/corrigendum prevails.
1004	8.22.5 Top & Bottom (19" 42U Rack)	Page 234 of 266		Cable entry provisioning required at both top and bottom? Please share the number of cables with cable size at both the ends for provisioning cable glands of appropriate size.	Also CRCA Sheet shall be of 513 Grade Steel.	Schneider	Clause as per tender/corrigendum prevails.

1005	8.22.7 Earthing Provisions (19" 42U Rack)	Page 234 of 266		What type of earthing is required?	Earthing kit with split wires or Copper Earthing Bar. Please suggest the details of copper earthing bar, mentioning horizontal or vertical.	Schneider	Appropriate copper earthing bar (horizontal or as per site requirement)
1006	8.22.9 Power Distribu tion Unit (PDU) (19" 42U Rack)	Page 234 of 266		Kindly confirm on the type and number of sockets required in the PDU with MCB Rating. Please confirm on what exactly is meant by electronically controlled circuits for surge and spike protection, does the PDU required is intelligent PDU, or standard dump (Non Intelligent) PDU?	Approvals / Testings - BS 546, CE	Schneider	Clause as per tender/corrigendum prevails.
1007	8.22.14 (PDU) (19" 42U Rack)	Page 234 of 266		Kindly confirm does dual source power supply distribution board, mean 2 PDU's for redundancy purpose. Also confirm on the required PDU type.		Schneider	Tender clause is clear
1008	8.21.15 INDIAN RAILWA YS LOGO (Teleco m Rack (9U, 19", Wall mounte d)	Page 234 of 266		Location and font to be specified		Schneider	May be provided to the successful bidders at appropriate time.
1009	8.21.17 IP 54 Protecti on	Page 234 of 266			FIP (Foam In Place) type of gasket to be used for any open space to enhance the cabinet and IP protection.	Schneider	Clause as per tender/corrigendum prevails.

1010	4.A.14.1.3	101	1	OEM(s) should have either direct presence in India or through their authorized registered partner in India for last 3 years or OEM(s) should have been working for last 3 years in their country of origin. Further, 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 or should give an undertaking for setting up a Technical Support Center and an office in India within 3 months after award of contract.	This clause to be waived off for the vendors quoting in PMA Category	Make IP System	Clause as per tender/corrigendum prevails.
1011	4.A.14.1.3	101	2	The OEM(s) whose products have been offered in the bid should have a minimum cumulative turnover of INR 360 crores for OEMs supplying camera, INR 100 crores for OEMs of switches and INR 225 crores for OEMs of IT hardware (server and storage) each in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender.	This clause to be waived off for the vendors quoting in PMA Category	Make IP System	Clause as per tender/corrigendum prevails.
1012	8.14.1	221	1.1	Firewall solution offered from OEM must be there in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner	This clause to be waived off for the vendors quoting in PMA Category	Make IP System	Clause as per tender/corrigendum prevails.
1013	8.14.1	223	7.1	Firewall shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 Standards for Safety requirements of Information Technology Equipment.	This clause to be waived off for the vendors quoting in PMA Category	Make IP System	Clause as per tender/corrigendum prevails.
1014	8.14.1	223	7.2	A/B or CISPR22 Class A/B or CE Class A/B or FCC Class A/B Standards for EMC (Electro Magnetic Compatibility) requirements.	This clause to be waived off for the vendors quoting in PMA Category	Make IP System	Clause as per tender/corrigendum prevails.
1015	8.14.1	223	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	This clause to be waived off for the vendors quoting in PMA Category	Make IP System	Clause as per tender/corrigendum prevails.
1016	8.14.1	223	8.2	Firewall/ Firewall's Operating System should be USGv6/IPv6 Certified/IPv6 logo ready	This clause to be waived off for the vendors quoting in PMA Category	Make IP System	Clause as per tender/corrigendum prevails.
1017	8.8	212	8.8.1	8 Port Layer 2 switch suitable for end locations as per RDSO Specification no. RDSO/SPN/TC/83/2014 Revision 1.0 or latest with all amendments.	Considering the critical nature of information travelling over the switches should support MACsec(802.1AE) to prevent link tapping and information tampering. Hence we request 802.1AE to be included as a mandatory requirement for uplink ports on the switch.	Nivetti systems pvt. Ltd.	Clause as per tender/corrigendum prevails.

1018	8.9	212	8.9.2	Should have minimum 2 nos. SFP+ based 10 GE ports.	Considering the critical nature of information travelling over the switches should support MACsee(802.1AE) to prevent link tapping and information tampering. Hence we request 802.1AE to be included as a mandatory requiremeent for uplink ports on the switch.	Nivetti systems pvt. Ltd.	Clause as per tender/corrigendum prevails.
1019	8.10	214	8.10.2	Should have 24 ports 10/100/1000 Mbps Base T	Considering the critical nature of information travelling over the switches should support MACsee(802.1AE) to prevent link tapping and information tampering. Hence we request 802.1AE to be included as a mandatory requiremeent for uplink ports on the switch.	Nivetti systems pvt. Ltd.	Clause as per tender/corrigendum prevails.
1020	8.11	216	8.11.6	Switch shall have 6 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 4 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	Considering the critical nature of information travelling over the switches should support MACsee(802.1AE) to prevent link tapping and information tampering. Hence we request 802.1AE to be included as a mandatory requiremeent for uplink ports on the switch.	Nivetti systems pvt. Ltd.	Clause as per tender/corrigendum prevails.
1021				<p>Why this points need to be added :</p> <p>- Since in this tender asked</p> <p>scalability with the capacity to handle 80,000 devices from Day 1 without major architectural changes . That why solution provide / OEM should have implemented more then 50000 Plus devices monitoring that will give proof of scalability . kindly add the below mention points:</p> <p>1.The solution should be scalable to monitor & manage more than 50000 plus devices and minimum 3 reference case studies should be provided.</p> <p>2.The solution should be capable of running in Linux platform with open source database as backend</p> <p>3.The solution should provide views for any type of device including Networking devices, firewalls, servers, applications , IP Cameras, Wi-Fi, VSAT's, RF devices</p> <p>4.System should support VM, Hypervisor and Cluster monitoring from different vendors like VMWare, Xen Server, Nutanix</p>		EverestIMS Technologies pvt.ltd.	Clause as per tender/corrigendum prevails.

1022			Sizing of the rack	According to tender description you demanded for a 9U rack	we suggest that the capital height should be 15U minimum because the battery installed inside itself needs at least 6U space and the equipment installed inside the rack generates heat, which affects the performance of the product and therefore a more spacious rack will be able to exhaust the heat and give better performance and life	Schneider	Clause as per tender/corrigendum prevails.
1023				For longitivity of the product:	We would also suggest that it should be made of stainless steel(SS) instead of CRC to avoid rusting as many of your railway stations are near the coastal area and the product will be installed in open atmosphere	Schneider	Clause as per tender/corrigendum prevails.
1024					During yesterday pre-bid it has been observed that a person has been pushing to include the NVR for RPF Thana/Chowki which we felt is his personal ambition without having any Technical understanding on the project requirement and also enforcing a limitation of a proprietary based architecture of NVR. Railtel has called for an industry meeting on 19th of April 2018 to finalized the best suitable architecture for this project to bring consensus across all OEM's . The meeting was attended by leading Camera and Software OEM's (Tyco, Infinova, Vivotek, Hanwha, Microsoft, Mirasys etc) alongwith VMS & IT Hardware Vendors' and it was deliberated in detail and discussed on the NVR usage in the meeting and finally everyone agreed that NVR is not a fit solution for this project due to various limitation of Technical front like restricting Open Standard requirements and integration with various other type of applications including Facial Recognition. The project of such magnitude requires a different kind of deployment/architecture methodology to sustain long term project requirement.	Infinova	Clause as per tender/corrigendum prevails.
1025					There are many project which has been executed in past in India not having scale of your project like Safe city Project Mumbai Safe City, Hyderabad, Rajasthan State City Surveillance, Gujrat Surveillance Project, Airports, Metros etc but none of these projects has ever evaluated/deployed NVR based solution due to proprietary architecture.	Infinova	Clause as per tender/corrigendum prevails.

1026				We Infinova are also a leading CCTV OEM's deals in all kind of solution like NVR too, and have been part of some of the above mentioned projects like Mumbai and Hyderabad Safe City, almost 70 airports in the country are with our cameras and software VMS but we have felt that Technically NVR is not a feasible solution in such kind of large and distributed environment, which may restrict any addition/upgradation of features/functionally in future thus leading to vendor lock in situation	Infinova	Clause as per tender/corrigendum prevails.
1027				Also in sync with the same we had advised to have a standardisation of Server specifications for optimum performance so that all solutions can be evaluated on the same hardware grounds, all improvisations would then be left with the softwares to offer. Hence we suggest that whether in RPF Thana or edge location, there should be server's only considering the durability and long run of the devices and project duration performance guarantee for 8 years	Infinova	Clause as per tender/corrigendum prevails.
1028				Also please confirm on the recording parameter, as the one's defined on page 211, will not be able to meet the failover criteria, since the failover will only be filled by the same resolution recording which are stored on the edge, and thus requires recalculation of storage for such large architecture	Infinova	Clause as per tender/corrigendum prevails.
1029				Also we would want to have a clarity on Make in India percentage, as per the tender you have asked for 50%, however the policy being effective 15June 2017, is into its 2nd year of implementation, and the manufacturers are allowed to increase as per year of their establishment of manufacturing, so for first year the localisation is less than 15%, and 2nd year its around 25%, so on and so far, so is the same applicable to this or you need minimum 50% localisation.	Infinova	Clause as per tender/corrigendum prevails.
1030		207	8.1	IP Camera of Fixed Bullet type, Fixed Dome type, P/T/Z/ type and 4K UHD Bullet type IP colour camera at stations: As per RDSO Specifications of IP Based Video Surveillance System Specification No. RDSO/SPN./TC/65/2016. Revision 4.0 or latest with all amendments.	TEMA and 4k UHD Box type IP colour camera at stations: As per RDSO Specification No .RDSO/SPN/TC/65/2016 Revision 4.0 or latest with all amendments.	Clause as per tender/corrigendum prevails.
1031		9,17,24,32	2(b)	PC Work station as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, spike buster 500 VA UPS with backup for 30 minutes power failure without interruption , and all other required accessories	PC Workstation as defined in clause 8.6 of chapter 8 for viewing, monitoring and system management including 24" monitor, all required licensed software, and all other required accessories.	TEMA Clause as per tender/corrigendum prevails.

1032		9,17,24, 32	2 (e)	Storage System at RPF/GRP Thana/Post sites for recording of cameras from cluster of stations for 30 days as defined in clause 8.3, 8.4 of chapter 8 and all accessories required for installation purposes. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Delete	TEMA	Clause as per tender/corrigendum prevails.
1033		39	Note (I)	The bidder must ensure that the capacity of storage system supplied at the RPF/GRP Thana/Post should be supplied with an additional 10% capacity over and above the capacity required for 30 days recording computed on the basis of cameras mentioned for RPF/GRP Thana/Post from day one (refer clause 8.3 and 8.4 of Chapter-8). The storage capacity should be calculated considering RAID6 configuration.	The bidder must ensure that the capacity of storage system supplied at the stations should be supplied with an additional 10% capacity over and above the capacity required for 30 days recording computed on the basis of cameras mentioned for stations from day one (refer clause 8.3 and 8.4 of Chapter-8). The storage capacity should be calculated considering RAID5/6 configuration.	TEMA	Clause as per tender/corrigendum prevails.
1034		40	Note (V)	Bidder should submit the soft copy (Word./Excel/PDFs format) of offer in DVDs/USBs. 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, Video Recording & Processing Unit, workstation, storage, large format, display monitors, VMS Software including VA and FRS, switches (each Type separately), Firewall and EMS. 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	Bidder should submit the soft copy (Word./Excel/PDFs format) of offer in DVDs/USBs. 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 for all regions quoted. The above stipulation of single OEM Make/Model applied to items viz. different types of cameras, servers, Video Recording & Processing Unit, workstation, storage, large format display monitors, VMS Software, VA and FRS, switches (each Type separately-meaning that different OEM can be used for Switch Type I, II, III and IV), Firewall and EMS. 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	TEMA	Clause as per tender/corrigendum prevails.
1035		63	3.B.7	Architecture of VSS Systems for stations: Proposed solution has to provide seamless recording/Playback of all cameras for last 30 days at any given point of time at the RPF/GRP Thana/Post. The recording and playback availability should not be affected in case of failure of any server at RPF/GRP Thana/Post. The Recordings of last 30 days should be available through redundant server(s) in case of a server failure.	Architecture of VSS Systems for stations: Proposed solution has to provide seamless recording/Playback of all cameras for last 30 days at any given point of time at the stations and allow streaming of video on demand to the RPF/GRP Thana/Post. The recording and playback availability should not be affected in case of failure of any VRPU at stations. Recordings of last 30 days should be available through redundant VRPU(S) kept at RPF in case of a VRPU failure at stations on N:1 basis.	TEMA	Clause as per tender/corrigendum prevails.
1036		215	8.11	Switches- Type IV	Railtel needs to make sure that they alter the specs. to include at three OEM manufacturers for Type-IV switch with 100% compliance.	TEMA	Clause as per tender/corrigendum prevails.

1037		211	8.14.1	Next Generation Firewall for RPF/GRP Thana/Post locations.	Required only at Data centre at Delhi and Secunderabad.	TEMA	Clause as per tender/corrigendum prevails.
1038		214	8.14.2	Next Generation Firewall for data Centre location	Required only at Data center at Delhi and Secunerabad.	TEMA	Clause as per tender/corrigendum prevails.
1039		227	8.16.1	Tel line surge protection - inbuilt	Tel line surge protection - Not Required.	TEMA	Clause as per tender/corrigendum prevails.
1040		233	8.21(10)	Material used - CRCA/MS with Thickness varying from 1.6 Mm to 2.0 mm	Material used - Stainless Steel	TEMA	Clause as per tender/corrigendum prevails.
1041		233	8.21-14	OEM should have a valid ISO 9001 certification on the date of opening of bid.	OEM should have a valid ISO 9001 & UL certification on the date of opening of bid.	TEMA	Clause as per tender/corrigendum prevails.
1042		209	8.3.1.2	Video feed from cameras of group of stations (cluster) shall be stored in external storage for 30days on H.265 at RPF/GRP Thana/Post.	Video feed from cameras of group of stations (cluster) shall be stored in internal/External storage or combination of both for 30 days on H.265/H.264 at stations.	TEMA	Clause as per tender/corrigendum prevails.
1043		101	4.a.14.1.3	Eligibility Criteria Requirement for OEM: PQ for FRS is missing	FRS vendor should have experience of FRS implementation in similar environments.	TEMA	Clause as per tender/corrigendum prevails.
1044		8,16,24,32	2(a)	VSS Server Hardware and all accessories required for installation purposes for Video recording, Video Analytic and Facial Recognition system as defined in clause 8.2 and 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.-151	VSS Server Hardware and all accessories required for installation purposes for Video Analytic and Facial Recognition system as defined in clause 8.2 and 8.3 of chapter 8. Detailed Bill of Materials (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.-151	TEMA	Clause as per tender/corrigendum prevails.

1045		230	<p>8.18 Video Recording & Processing Unit for Non RPF Stations: The Video Recording & Processing Unit shall have the following minimum specifications: Functional Requirement 1. Bidder to propose an Open (Non-proprietary) hardware-based unit to be installed at stations. 2. Video Recording & Processing Unit shall be installed at each platform/ station and shall have Software for Video Management, Video Recording and Analytics at defined in Tender Clause 8.3. In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations. 3. Video Recording & Processing Unit shall send alerts to respective RPF Thana/Post. Divisional HQ (Control Room) and Centralized locations on real time basis through the available MPLS/IP Network. 4. Video Management system and Video Analytic and Video Analytic system etc. applications shall be hosted on this platform as per solution requirement. Video Recording & Processing Unit for Non RPF Stations: 5. Bidder to propose single unit hardware on each platform./station of Railway Station to achieve the functionalities as defined above. 6. Technical Requirements: As per RDSO Specification clause 4.2.10 of IP Based Video Surveillance System specification No. RDSO/SPN/ TC/ 65/206 Revision 4.0 or latest with all amendments.</p>	<p>Video Recording & Processing Unit for Non RPF Stations: The Video Recording & Processing Unit shall have the following minimum specifications: Functional Requirement 1. Bidder to propose an Open (Non-proprietary) hardware-based unit to be installed at stations supporting ONVIF as per RDSO specifications. 2. Video Recording & Processing Unit shall be installed at each station and shall have Software for Video Management, Video Recording viewing & playback as per Tender Clause 8.3. 3. Video Recording & Processing Unit shall receive FRS alerts in real time from RPF Thana/Post. . Divisional HQ (Control Room) and Centralized locations on real time basis through the available MPLS/IP Network. It should have the capability to display the Alert data from FRS with photograph to appear on the monitor that may be connected to it in real time or the client monitor connected to it as per bidder offer. 4. Video Management system and Video Analytic and Video Analytic system etc. applications shall be hosted on this platform as per solution requirement. Video Recording & Processing Unit for Non RPF Stations: 5. Bidder to propose single multiple unit hardware on each platform./station with internal /external storage or combination of both as per RDSO Specification at Railway Station to achieve the functionalities as defined above. 6. Technical Requirements: As per RDSO Specification clause 10.1 & 10.2 of IP Based Video Surveillance System specification No. RDSO/SPN/ TC/65/206 Revision 4.0 or latest with all amendments. 7. The VRPU should support 2 Factor Authorization so that users can be given rights on the fly to perform specific tasks across the network by the administrator. 8. Bidders may quote for 64/32/16 Channel system keeping different categories of stations in mind to optimize the cost.</p>	TEMA	Clause as per tender/corrigendum prevails.
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1046		209	8.3.1.2	<p>Server and Storage System sizing</p> <p>Approximate number of cameras considered across 6124 Railway Stations are 89844 units. Refer Chapter 7 Annexure-1 for station category, Region wise camera breakup.</p> <p>Video feed from cameras of group of stations (cluster) shall be stored in external storage for 30 days on H.265 at RPF/GRP-Thana/Post.</p> <p>Bidder to also propose a redundant server per RPF/GRP Thana/Post location to ensure uninterrupted services as mentioned in above para in case of failure of main server. Bidder to submit the calculation done to reach the quoted servers numbers, duly vetted and supported with certification issued by OEM(S).</p> <p>FRS system at RPF/GRP Thana/Post and RailTel Data centres. It shall sync new alert and new face enrolled with connectivity is established.</p>	<p>Server and Storage System sizing</p> <p>Approximate number of cameras considered across 6124 Railway Stations are 89844 units. Refer Chapter 7 Annexure-1 for station category, Region wise camera breakup.</p> <p>Video feed from cameras of group of stations (cluster) shall be stored in internal / external storage or combination of both for 30 days on H.265 /H.264. .</p> <p>At each such cluster i.e. RPF/GRP Thana/Post location, bidder to size storage, server requirement and propose server (s) considering recording of FHD cameras, analytics, FRS with local matching capability with the watch list database on up to 8 cameras stream at each RPF/GRP Thana/Post locations without any impact on the performance of the system and overall solution requirement. In case, it is unable to do so on a single server, extra server(s) required for the RailTel Corporation of India Limited. Same shall be provided by the bidder without any cost to the purchaser. Bidder to also propose a redundant CRPU per RPF/ GRP Thana/ post location to ensure uninterrupted services as mentioned in above Para in case of failure of main CRPU at any of the stations co-allocated under it .</p> <p>Bidder to submit the calculation done to reach the quoted FRS/VA servers numbers, duly vetted and supported with certification issued by OEMs.</p> <p>FRS system at RPF /GRP Thana/Post shall be work independently even if there is no connectivity between the RPF/GRP Thana/Post and RailTel Data centres. It shall sync new alert and new face enrolled when connectivity is established.</p>	TEMA	Clause as per tender/corrigendum prevails.
1047		101	4.A.14.1.3 (2)	The OEM(s) whose products have been offered in the bid should have a minimum cumulative turnover of INR 360 crores of OEMs supplying camera. INFR 100 crores for OEMs of switches and INR 225 crores for OEMs of IT Hardware (server and storage) each in last 3 financial years (i.e. current year and three previous years) from the date of opening of tender.	The OEMs whose products have been offered in the bid should have a minimum cumulative turnover of INR 360 Crores of OEMs supplying camera. INFR 100 crores for OEMs of switches and INR 225 crores for OEMs of IT Hardware (server and storage) each in leach of the last 3 financial years from the date of opening of tender.	TEMA	Clause as per tender/corrigendum prevails.
1048		101	4.A.14.1.3(4)	PO copies along with satisfactory completion certificates from the User Organisations is required to be submitted.	PO copies along with satisfactory report/completion certificates from the User Organisations is required to be submitted.	TEMA	Clause as per tender/corrigendum prevails.
1049		101	4.A.14.1.3(4)	The OEM for proposed IP cameras and VMS Software should have supplied for at least one project in a Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport etc. in India or abroad in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for the at least six (6) months.	The OEM for proposed IP cameras and VMS Software should have supplied for at least one project under MHA, MOD, Mass Rapid Transport system e.g. Metro, Railways, Mono Rail, Airport, MOD, MHA etc. in India or abroad in last 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. The same should have been working satisfactorily for the at least six (6) months.	TEMA	Clause as per tender/corrigendum prevails.

1050		242	8.26	<p>Recording Parameters 8.3.2.3.1 For Surveillance network at Station: For Recording following parameters/guidelines must be followed by the bidder and size their servers and storage requirements: 8.3.2.3.1.1</p> <p>(A) On station collocated with RPF/GRP Thana/Post:</p> <p>i) One Full HD stream (@1080P and @25 FPS) FROM FULL HD Cambera on H.265 and</p> <p>ii) One UHD stream at resolution 3830x2160 and @15 FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.</p> <p>(B) On other stations:</p> <p>i) One Full HD stream (@1080P and @25 FPS) from full HD Camera on H.265 and</p> <p>ii) One UHD stream at resolution 3840x2160 and @15FPS from 4K UHD Camera on H.265 should be recorded for 7 days in Video Recording & Processing Unit.</p> <p>iii) One HD streamn (@720P and @25FPS) from Full HD Camera on H.265 and</p> <p>iv) One FHD stream (@1080P and @15FPS from 4K UHD Camera on H.265 should be recorded for 30 days in external storage at RPF/GRP Thana/Post.</p> <p>8.3.2.3.1.2 In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would transfer these data automatically to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.</p> <p>8.3.2.3.1.3 The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF/Div. HQ (Control Room)/others.</p>	<p>Recording Parameters 8.3.2.3.1 For Surveillance network at Station: For Recording following parameters/guidelines must be followed by the bidder and size their servers and storage requirements: 8.3.2.3.1.1</p> <p>(A) On station collocated with RPF/GRP Thana/Post:</p> <p>i) One Full HD stream (@1080P and @25 FPS) FROM FULL HD Cambera on H.265/H.264 at 2MBps</p> <p>ii) One UHD stream at resolution 3840x2160 @25 FPS from 4K UHD Camera on H.265/H.264 at 8MBps should be recorded for 30 days in internal/external storage at Stations.</p> <p>(B) On other stations:</p> <p>i) One Full HD stream (@1080P and @25 FPS) from full HD Camera on H.265/H.264 at 2Mbps</p> <p>ii) One UHD stream at resolution 3840x2160 @25FPS from 4K UHD Camera on H.265/H.264 at 8Mbps should be recorded for 30 days in internal/external storage at stations, should be recorded for 30 days in Video Recording & Processing Unit. Thana/Post.</p> <p>8.3.2.3.1.2 In case of MPLS/IP network connectivity failure, video stream and alarms would be stored locally at the Video Recording & Processing Unit for that duration and would automatically make this data available for view to RPF/GRP Thana/Post when the network recovers without any impact on the system operations.</p> <p>8.3.2.3.1.3 The FRS will get the UHD feed from cameras/VRPU at stations for running Face Recognition algorithm at 3840x2160 and @10 FPS from 4K UHD Camea on H.265/H.264 at 8 MBps and send alarms to designated VRPU or clients at RPF/Div. HQ (Control Room)/others.</p>	TEMA	Clause as per tender/corrigendum prevails.
1051		211	8.4	The Storage capacity shall be as per storage requirement of Full HD and 4K UHD camera as defined in tender clause 8.3 and other scalabilities requirements as mentioned in the tender document. The storage capacity should be calculated considering RAID6 configuration.	The Storage capacity shall be as per storage requirement of Full HD and 4K UHD camera as defined in tender clause 8.3 and other scalabilities requirements as mentioned in the tender document. The storage capacity should be calculated considering RAID5/6 configuration.	TEMA	Clause as per tender/corrigendum prevails.
1052		211	8.3.2.3.1.2	The FRS will get the UHD feed from Recording Server at RPF/GRP Thana/Post for running Face Recognition algorithm and send alarms to designated clients at RPF./Div.HQ (Control Room)/others.	The FRS will get the UHD feed from CPRU/Cameras at stations for running Face Recognition algorithm and send alarms to designated CPRU or its clients as per offered solution at RPF./Div. HQ (Control Room)/others.	TEMA	Clause as per tender/corrigendum prevails.
1053		243	8.26	<p>The operator at the command centre shall have following access to the video feeds:</p> <p>Viewing rights to all the live camera feeds,</p> <p>Viewing rights to the stored feeds,</p> <p>Access to Alerts/Exceptions/ Triggers raised.</p> <p>Personalized Dashboard</p> <p>Accessbility to analytics on the recorded footages</p>	<p>The operator at the command centre shall have following access to the video feeds:</p> <p>Viewing rights to all the live camera feeds.</p> <p>Viewing rights to the stored feeds,</p> <p>Access to Alerts/Exceptions/ Triggers raised</p> <p>Personalized Dashboard</p> <p>Accessbility to analytics on the recorded footages</p>	TEMA	Clause as per tender/corrigendum prevails.

				Provide search of recorded video, Advanced search should be possible based on various filters like alarm, event, area, camera etc.	Provide search of recorded video, Advanced search should be possible based on various filters like alarm, event, area, camera etc.		
				Broad Level Bill of Material required at Central Command Center is as follows:	GIS Maps, which should support the location and movement of various train movement across India with Geo Tagging of the train.		
				Video Wall (As per clause 8.26 of chapter 8)			
				PC Workstation as defined in clause 8.6 of chapter 8 (5 Nos.)	Broad Level Bill of Material required at Central Command Center is as follows:		
				Adequate IT/LAN Components	Video Wall (As per clause 8.26 of chapter 8)		
				Chairs and Computer Tables 5 Nos.)	PC Workstation as defined in clause 8.6 of chapter 8 (5 Nos.)		
				Adequate Electrical Work	Adequate IT/LAN Components		
				UPS (adequate capacity to cover all above IT Components with minimum 1 hour Backup)	Chairs and Computer Tables (5 Nos.)		
					Adequate Electrical Work		
					UPS (adequate capacity to cover all above IT Components with minimum 1 hour Backup)		
1054		247	8.26.2	Mobile App for VSS System Bidder is also responsible for developing a mobile for Android as well as Apple iOS based smartphone to allow secure access of VMS Servers' live and recorded video streams using smartphone or a tablet from almost anywhere. This should be easy to use application allowing simultaneous multiple camera monitoring. Mobile app developed by the bidder should have minimum functionalities:	Mobile App for VSS System Bidder is also responsible for developing a mobile for Android as well as Apple iOS based smartphone to allow secure access of VMS Servers' live and recorded video streams using smartphone or a tablet from almost anywhere. This should be easy to use application allowing simultaneous multiple camera monitoring. Mobile app developed by the bidder should have minimum functionalities:	TEMA	Clause as per tender/corrigendum prevails.
				(i) Dashboard: showing various performance/statics reports of the system	(i) Menu based selection to select and view video feeds on demand/need based		
				(ii) Menu based selection to select and view video feeds on demand/need based	(iii) Should work on pull based mechanism which will allow user to access the video feeds		
				(iii) Should work on pull based mechanism which will allow user to access the video feeds	(iv) Should allow two factor authentication.		
				(iv) Should also allow to view video feeds flagged or tagged for the purpose of investigation as a proof and store in an external Hard drive/CD etc. (v) Mobile application should allow MAC/IMEI No. binding, role based user access over secured VPN Client on users mobile/smart phone.			
1055		244	8.26.1	Video wall - Display Wall screen size - 70"	Video Wall - Display Wall screen size - 55"	TEMA	Clause as per tender/corrigendum prevails.
				Additional Comments:			

1056				The Camera sensor size may be left open as there new technologies have arrived that are cheaper.	Recommended: Maintained the minimum sensor size to 1/3" of better	TEMA	Clause as per tender/corrigendum prevails.
1057				Datasheets which are signed and attested by the OEM may be accepted as final by RailTel and RailTel may ask for any queries directly from OEM for the same.		TEMA	Clause as per tender/corrigendum prevails.