

RAILTEL CORPORATION OF INDIA LIMITED (A Govt. of India Undertaking)

ELECTRONIC TENDER DOCUMENT

FOR

Supply and Supervision of Installation, To	esting & Commissioning of Outbound Spam
Guard (T	Two Packet)

OPEN E-TENDER NO.RAILTEL/TENDER/OT/CO/DNM/2016-17/OSG/337 Dated: 25.07.2016

Cost Tender Document: Rs.1500/-(Including VAT)

Sold to _____



RailTel Corporation of India Ltd.

Plot No. 143, Institutional Area, Sector -44 Gurgaon-122003, Ph: 0124-4236085-86, Fax: 0124-4236084

E-Tender Notice No.: RAILTEL/TENDER/OT/CO/DNM/2016-17/OSG/337 Dtd.22.07.2016

RailTel Corporation of India Ltd. (RailTel) invites Tenders for "Supply and Supervision of Installation, Testing & Commissioning of Outbound Spam Guard".

a)	Opening date of Tender downloading	25.07.2016					
b)	Submission date of bids	23.08.2016 up-to 1500 hrs.(Online)					
c)	Opening of bids	23.08.2016 at 1530 hrs (Online)					
d)	Approximate cost of Tender	Rs 91 Lakhs (aprox.)					
e)	Earnest Money (EMD)	Rs 1,80,000/- to be made in favor of RailTel Corporation of India Ltd. in the form of DD payable at New Delhi.					
f)	Cost of Tender Document is Rs.1500/-(Including VAT)						

[#] Small scale Units registered with NSIC under single point registration scheme are exempted from cost of Tender Documents.

Note: Tender Notice and Tender Document are available on RailTel's website and can be downloaded from www.railtelindia.com or from the e-Tendering portal https://www.tcil-india-electronictender.com. For online bid submission the tenderer will have to necessarily download an official online copy of the tender documents from TCIL's e- portal. All future Information viz. corrigendum /addendum/ amendments etc. for this Tender shall be posted on the e-Tendering Portal only. Printed copy of Tender document will not be sold from RailTel office.

The bidder shall bear all costs associated with the preparation, submission/participation in the bid. Purchaser in no way will be responsible or liable for these costs regardless of the conduct or outcome of the bidding process.

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CHAPTER-1

OFFER LETTER

RailTel Corporation of India Ltd. Plot No. 143. Institutional Area.

	Opposite-Gold Souk, Sector-44, Gurgaon-122003	
1.	THE SAID CONDITIONS. I/We also as period of 120 days from the date of subm for forfeiture of my/our Earnest Money rates quoted in the attached schedules as work of "Supply and Supervision o Outbound Spam Guard" within 180 day also hereby agree to abide by the Vario	have read the various attached here to and hereby agree to ABIDE BY gree to keep this offer open for acceptance for a mission and in default thereof. I/We will be liable. I/We offer to supply various equipment at the ad hereby bind myself/ourselves to complete the f Installation, Testing & Commissioning of ys from the date of issue of Purchase Order. I/We bus Conditions of Contract and to carry out the for materials and works laid down by the RailTel.
2.	Demand Draft in favour of RailTel dated issued by The full value of Earnest Money shall sta or remedies if, I/We withdraw or modify	Corporation India Ltd. Nois herewith forwarded as "Earnest Money". India forfeited without prejudice to any other rights the offer within validity period or do not deposit Guarantee) within 15 days after issue of Purchase
		SIGNATURE OF SUPPLIER (S)
		Date:
		CONTTRACTOR (S) ADDRESS
	SIGNATURE OF WITNESS:	
	1.	
	2.	

CHAPTER-2

SCHEDULE OF REQUIREMENT

SCHEDULE OF REQUIREMENT-A (Supply)

				Unit Rate		Total cost	
SN	Description	Unit	Qty	In Fig	In Words	In Fig	In Words
1	2.	3	4	5	6	7	8
1	Supply of outbound Spam Guard System with three year support as per technical specification mentioned in Chapter-3	U	5	3		,	
2	Centralized logging, analytic and reporting system with three year support as per technical specification mentioned in Chapter-3	No	1				
3	Supply of any other items, equipment, cards considered necessary to meet the end objectives as detailed in the tender document.	Lot					
	Total (In Rs) of SOR A						

SCHEDULE OF REQUIREMENT-B (Services)

SN	Description	Unit	Qty	Unit	Rate	Total cost		
	•			In Fig	In Words	In Fig	In Words	
1	2	3	4	5	6	7	8	
1	Installation and Commissioning	No	1					
2	*Resident Engineer(for 1 Year)	No	1					
	Total Value of SOR-B							

^{*}Note-: Purchaser has option to take Resident Engineer

SCHEDULE OF REQUIREMENT-C (AMC)

SN	Description	Unit	Qty		Rate for ne year	Total cost for Five year		
	•			In %	In Fig	In %	In Fig	
1	2	3	4	5	6	7	8	
1	Incremental % AMC cost in addition to 3.5 % mentioned in clause 3 of Chapter-4	Years	5					

Total Value of SOR-A,B & C				
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Note:	
I.	 a) Unit rate quoted against SOR above should be CIP destination inclusive of all duties, taxes, insurance and freight etc (with tax break-up as per Performa attached as Annexure-A&B). The materials as per SOR are required to be delivered within the delivery period as indicated in Bid Data Sheet (BDS, Chapter 5) to the sites as per Annexure-I b) It shall be the responsibility of Tenderer to transport the equipment to site for Installation & Commissioning.
II.	Tenderers should submit the detailed configuration of each type of equipment indicating quantities of various modules/sub modules/cards/Licenses/sub racks including the vacant slots in the sub racks/chassis for further expansion. Detail BOM of each equipment supplied under the contract shall be submitted along with the bid and the same shall be duly vetted by the OEM.
III.	The Tenderer shall attach Unit Rate Analysis of Schedule of Requirements (cost of each sub-assembly, card, module, Licenses etc.) in their Price Bid. The quoted Unit Rates should correspond to the referred unit Rate.
IV.	It is mandatory for Tenderer to quote for all items of the schedule. Any bid not having quote for all the item of the schedule may not be considered.
V.	Tenderers should provide one dedicated Resident Engineer for 1 year on purchaser premises. Purchaser has right to select the appropriate resident Engineer.
VI.	Tenderer must also furnish unit rate of all the supply of items mentioned in the SOR-A, which will be required for the Solution. These will also form part of the Rate Contract for procurement of items as when required.

Annexure-A Tax Breakup for SOR A.

S N	Descri ption	Total Qty	EX-Factory Price (Basic Unit Price exclusive of all levies and	Pkg Forw g Cha	& rardin arges	Excise Duty		Sales Tax		Frieght & Insurance Charges		Other Charges and Levies		ery on 10	
		charge		charges)	%	Am t	%	Amt	%	Amt	%	Amt			
1	2	3	4	5	6	7	8	9	10	11	12	13	14		

Annexure-B Tax Breakup for SOR B &C.

SN	Description	Total Qty	Service Tax		Any Charges Levies	Other and	Price Per Unit (all inclusive) (4+6)
			%	Amt			
1	2	3	4	5	6		7

Chapter - 2-A

E-tendering Instructions to Bidders

Note:-E-Tendering Instructions to Bidders terms given in others chapters shall be superseded by the terms given in Chapter-2 A.

Submission of Bids only through online process is mandatory for this Tender.

for conducting Public Procurement in a E-Tendering is a new methodology Now, the Government of India has made transparent and secured manner. e-tendering mandatory. Suppliers/ Vendors will be the biggest beneficiaries of this procurement. electronic For conducting tendering, RailTel decided to use the portal https://www.tcil-india-electronictender.com through TCIL, a Government of India Undertaking. This portal is based on the most 'secure' and 'user friendly' software from Electronic Tender®. A portal built using Electronic Tender's software is also referred to as Electronic Tender System® (ETS).

Benefits to Suppliers are outlined on the Home-page of the portal.

1. Tender Bidding Methodology:

Sealed Bid System - 'Two stage Two Envelope'. In this, bidder has to submit Technocommercial bid and Price-Bid in two envelopes "ON-LINE."

2. Broad outline of activities from Bidders Perspective:

- 2.1. Procure a Digital Signing Certificate (DSC)
- 2.2. Register on Electronic Tendering System® (ETS)
- 2.3. Create Users and assign roles on ETS
- 2.4. View Notice Inviting Tender (NIT) on ETS
- 2.5. Download Official Copy of Tender Documents from ETS (Important)
- 2.6. Clarification to Tender Documents ETS Query to RailTel (Optional) View response to queries posted by RailTel, as addenda.
- 2.7. Bid-Submission on ETS
- 2.8. Attend Public Online Tender Opening Event (TOE) on ETS.
- 2.9. View/Post-TOE Clarification posted by RailTel on ETS (Optional), Respond to RailTel's Post-TOE queries

For participating in this tender online, the following instructions need to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the ETS.

3. Digital Certificates

For integrity of data and its authenticity/ non-repudiation of electronic records, and be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC). also referred to as Digital Signature Certificate (DSC), of Class 2 or above, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer http://www.cca.gov.in].

4. Registration

To make use of the Electronic Tender® portal (https:// www.tcil-india-electronictender.com), vendor needs to register on the portal (if not registered earlier). Registration of each organization is to be done by one of its senior persons who will be the main person coordinating for the e-tendering activities. In ETS terminology, this person will be referred to as the Super User (SU) of that organization. For further details, please

visit the website/portal (https://www.tcil-india-electronictender.com), and click on the 'Supplier Organization' link under 'Registration' (on the Home Page), and follow further instructions as given on the site.

Pay Annual Registration Fee as applicable.

Note: After successful submission of Registration details and Annual Registration Fee (as applicable), please contact TCIL/ ETS Helpdesk (as given below), to get your registration accepted/activated.

TCIL Helpdesk

Contact PersonTelephone/ MobileE-mail ID

Helpdesk Executives: 011-2624 1071, 011-2624 1072

ets support@tcil-india.com

(Mobile Nos. for Emergency Help): 9868393775,9868393717,9868393792.

RailTel Contact-1 (for general Information)

RailTel's Contact Person

Pawan Kumar Sharma:Jt.GM/DNM

Telephone 0124-2714000

Mobile: 9717644497

E-mail ID: pawan@railtelindia.com

RailTel Contact-II (for general Information)

RailTel's Contact Person A.K.Sablania: GGM/DNM Telephone 0124-2714000 Mobile: 9717644015

E-mail ID :asablania@railtelindia.com

5. Bid related Information for this Tender (Sealed Bid)

The entire bid-submission would be online on ETS.

Broad outline of submissions are as follows:

- 1. Submission of Bid Security/ Earnest Money Deposit (EMD)
- 2. Submission of digitally signed copy of Tender Documents/Addenda
- 3. Single Envelope (including Technical +Financial part)
 The electronic envelope consists of Main bid and Electronic Form (both mandatory) and Bid Annexures (Optional).
- 4. Online response to General Terms & Conditions (GTC) and Special Terms & Conditions (STC)
- 5. (Optional) Online Submission of modification, substitution bids for technical or financial parts, or withdrawal bid.

NOTE: Bidder must ensure that after following above, the status of bid submission must become "Complete" indicating successful submission of the online bid.

6. Offline Submissions:

The bidder is required to submit the following documents offline to RailTel Corporation of India Ltd, Institutional Area Plot 143, Sector 44, Gurgaon before due date & time of submission of bids specified in covering letter of this tender document, in a Sealed Envelope. The envelope shall bear (the tender name), the tender number and the words 'DO NOT OPEN BEFORE' (due date & time).

- a) EMD-Bid Security in Original, in favour of RailTel Corporation of India, Payable at New Delhi. (with Tender No., Name of Firm & Mob. No. written on back side of DD)
- b) DD/ Bankers cheque in original against payment of tender fee in favour of RailTel Corporation of India, Payable at New Delhi.. (with Tender No., Due date of Opening of Tender, Name and contact No. of Firm written on back side of DD)
- c) Power of attorney to be submitted in accordance with Tender Conditions.
- d) In case bidder happens to be a NSIC bidder, the documentary evidence for same shall be submitted.

NOTE: The Bidder has to upload the Scanned copy of all above original documents as Bid-Annexure during Online Bid-Submission.

7. Submission of Eligibility Criteria related documents

Eligibility criteria related documents as applicable shall also be scanned and submitted ON LINE. Copy of these documents shall also be submitted before Tender opening date. Bids without these off line submissions will be summarily rejected.

8. Special Note on Security of Bids

Security related functionality has been rigorously implemented in ETS in a multi-dimensional manner. Starting with 'Acceptance of Registration by the Service Provider', provision for security has been made at various stages in Electronic Tender's software. Security related aspects as regard Bid Submission are outlined below:

As part of the Electronic EncrypterTM functionality, the contents of both the 'Electronic Forms' and the 'Main-Bid' are securely encrypted using a Pass-Phrase created by the Bidder himself. Unlike a 'password', a Pass-Phrase can be a multi-word sentence with spaces between words e.g. (I love this World). A Pass-Phrase is easier to remember and more difficult to break. It is recommended that a separate Pass-Phrase be created for each Bid-Part. This method of bid-encryption does not have the security and data-integrity related vulnerabilities which are inherent in e-tendering systems which use Public-Key of the specified officer of a Buyer organization for bid-encryption. Bid-encryption in ETS is such that the Bids cannot be decrypted before the Public Online Tender Opening Event (TOE), even if there is connivance between the concerned tender-opening officers of the Buyer organization and the personnel of e-tendering service provider.

Typically, 'Pass-Phrase' of the Bid-Part to be opened during a particular Public Online Tender Opening Event (TOE) is furnished online by each bidder during the TOE itself, when demanded by the concerned Tender Opening Officers who will open the bid. Else Tender Opening Officer may authorize the bidder to open his bid himself. There is an additional protection with SSL Encryption during transit from the client-end computer of a Supplier organization to the e-tendering server/portal.

(Mandatory Additional Methods of passphrase submission):

Additionally, the bidder shall make sure that the Pass-Phrase to decrypt the relevant Bid-Part is submitted to RailTel in a sealed envelope before the start date and time of the Tender Opening Event (TOE) along with other offline submissions.

9. Public Online Tender Opening Event (TOE)

ETS offers a unique facility for 'Public Online Tender Opening Event (TOE)'. Tender Opening Officers as well as authorized representatives of bidders can attend the Public Online Tender Opening Event (TOE) from the comfort of their offices. For this purpose, representatives of bidders (i.e. Supplier organizations) dully authorized are requested to carry a Laptop and Wireless Connectivity to Internet.

Every legal requirement for a transparent and secure 'Public Online Tender Opening Event (TOE)' has been implemented on ETS. As soon as a Bid is decrypted with the corresponding 'Pass-Phrase' as submitted online by the bidder himself (during the TOE itself), salient points of the Bids are simultaneously made available for downloading by all participating bidders.

ETS has a unique facility of 'Online Comparison Chart' which is dynamically updated as each online bid is opened. The format of the chart is based on inputs provided by the Buyer for each Tender. The in information the Comparison Chart is based the data by on submitted the Bidders in electronic forms. A detailed Technical and/ Financial Comparison Chart enhance Transparency. Detailed instructions are given on relevant screens.

ETS has a unique facility of a detailed report titled 'Minutes of Online Tender Opening Event (TOE)' covering all important activities of 'Online Tender Opening Event (TOE)'. This is available to all participating bidders for 'Viewing/ Downloading'.

There are many more facilities and features on ETS. For a particular tender, the screens viewed by a Supplier will depend upon the options selected by the concerned Buyer.

NOTE: In case of internet related problem at a bidder's end, especially during 'critical events' such as - a short period before bid-submission deadline, during online public tender opening event, during e-auction, it is the bidder's responsibility to have backup internet connections.

In case there is a problem at the e-procurement/ e-auction service-provider's end (in the server, leased line, etc) due to which all the bidders face a problem during critical events, and this is brought to the notice of RailTel by the bidders in time, then RailTel will promptly reschedule the affected event(s).

10. Other Instructions

For further instructions, the vendor should visit the home-page of the portal (https://www.tcil-india-electronictender.com), and go to the User-Guidance Center.

The help information provided through 'ETS User-Guidance Centre' is available in three categories - Users intending to Register / First-Time Users, Logged-in users of Buyer organizations, and Logged-in users of Supplier organizations. Various links are provided under each of the three categories.

Note: It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of ETS.

11. The following KEY INSTRUCTIONS for BIDDERS' must be assiduously adhered to:

1. Obtain individual Digital Signing Certificate (DSC or DC) well in advance of your first tender submission deadline on ETS.

- 2. Register your organization on ETS well in advance of your first tender submission deadline on ETS.
- 3. While registering your organization on ETS Portal of TCIL, pl. make sure that the email id of Super user provided for registration and email-id on which Digital Signature Certificate of the Super user is issued are exactly the same.
- Get your organization's concerned executives trained on ETS well in advance of your first tender submission deadline on ETS.
- 5. Bidder should ensure that official copy of tender document has been downloaded by clicking the radio button for confirmation else e-Procurement system will not permit the bidder to participate in the tendering process.
- 6. Submit your bids well in advance of tender submission deadline on ETS as there could be last minute problems due to internet timeout, breakdown, etc.

12. Minimum Requirements at Bidders end

- Computer System with good configuration (Min P-IV, 1 GB RAM, Windows XP)
- Broadband connectivity.
- Microsoft Internet Explorer 6.0 or above
- Digital Certificate (s) for users.

13. Vendors Training Program

One day training (10:00 to 17:00) on how to use the ETS Portal for e-Tendering would be provided. Training is optional. However, if a vendor has not already attended ETS Vendor Training earlier, it is highly recommended that the vendor attends this training positively to be able to submit the e-Tender smoothly without any problem.

Vendors are requested to carry a Laptop and Wireless Connectivity to Internet while attending the ETS Vendor Training.

Tentative Dates

Date of uploading of Tender document + 7 days

Venue

RailTel Corporation of India Limited,

Plot No. 143, Sector-44, Opp. Gold Souk Mall, Gurgaon -122003.

Vendors Training Charges: Rs. 2,500/-(Per Participant) per training day (plus Service Tax as applicable), i.e., Rs. 2,862/- Per Participant.

Mode of Payment of Fees: DD drawn in favour of M/s TCIL, New Delhi & payable at New Delhi.

CHAPTER-3 Technical Requirements & Specifications A. Scope of Work

1. INTRODUCTION

RailTel Corporation of India Limited, a Public Sector Undertaking under the Ministry of Railways, Govt. of India, is a national telecom service provider having NLD, ISP and IP1 licenses and has built a nation-wide optical fiber network. RailTel's objective is to create a nation-wide broadband telecom and multimedia network.

The Corporation was formed in Sept 2000 with the vision to create nationwide Broadband Telecom and Multimedia Network in all parts of the country, to modernize Train Control Operation and Safety System of Indian Railways and to significantly contribute to realization of goals and objective of national telecom policy 1999. RailTel is a wholly owned subsidiary of Indian Railways.

1.1. RailTel Telecom Network

RailTel is building State of the art multimedia telecom network using SDH/DWDM based transmission systems and high end MPLS-IP routers. RailTel has created countrywide state of the art SDH/DWDM backbone optical transport network using latest technology. More than 400 cities covering over 42,000 RKMs across the country are connected on the network with multiple STM-16 (n x 2.5 Gbps) connectivity. RailTel has also implemented ultra-high capacity DWDM network over 10,000 RKM to provide 400 Gbps which is further upgradable to 800 Gbps in future. The PAN India DWDM network has been operational since 2012.

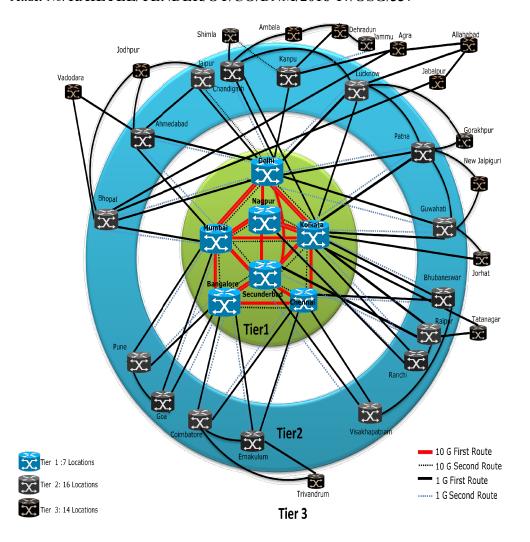
RailTel's backbone Transport Network has been configured in multiple 'Self-Healing' Ring architectures which provide for redundancy by automatically redirecting and switching traffic from failed/ degraded routes for an uninterrupted service ensuring maximum up time and service reliability. The network supports multiple ring protection schemes. The network has been designed in such a way that full redundancy is available for bandwidth between any two points.

The whole network is managed by centralized Network Management System (NMS) centrally located at New Delhi with back up facilities at Secundrabad / Kolkata / Mumbai. RailTel has got unique advantage to offer the best quality service (QoS) from a single unified network with PAN India presence. The state of art network enables point and click provisioning of the bandwidth and other services from anywhere to anywhere in the country. It enables provisioning of traffic in any granularity from 2 MBPS to multiple of Gbps (n x Gbps) from its country wide strong backbone network.

1.2. MPLS Backbone

RailTel has implemented country wide MPLS-IP backbone network to provide whole range of VPN & Internet services. The network has been built using high end routers of Juniper network. The network supports services like Layer 3 and Layer 2 VPN services, broadband internet access, multicast services etc. The MPLS network has POPs at 150 cities across the country and is in the process of being extended to other important cities/towns also. The IP services at about 4000 POPs in the country will be extended through Ethernet interface available in the SDH networks at these locations which will in turn be connected to MPLS –IP backbone network at the 150 cities. RailTel has recently started targeting the retail customers through Railwire using MPLS-IP backbone network, which provides quality broadband services.

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1.3. NGN based NLD Network

RailTel has also rolled out NLD (National Long Distance) Services for carriage of Inter-Circle voice traffic based on the State of the Art NGN (Next Generation Network) platform. NLD backbone of RailTel has currently been rolled out in 56 cities having POIs (Point of Interconnection) with all Operators including BSNL/MTNL, Airtel, TTSL, Idea, Vodafone, Reliance, etc. The cities under Phase-I are Bangalore, Chennai, Mysore, Coimbatore, Hyderabad, Cochin, Mumbai, Pune, Ahmadabad, Nagpur, Delhi, Chandigarh, Jaipur, Jallandhar, Luck now, Kolkata, Bhubaneswar and Patna. Additional 36 cities covering all 23 Circles have been added last year. With its PAN India NLD network, RailTel will be able to carry calls to even the remote and rural parts of the country.

1.4. Licenses & Services

Presently, RailTel holds IP-1, IP-II, NLD and ISP (Class-A) licenses under which the following services are being offered to various customers:

1.5. Network Support

RailTel has an excellent team of highly qualified engineers working to support our customers on 24x7x365 basis. Proactive maintenance and monitoring is done regularly by engineers thus ensuring better service support. Our state of the art Network Operating Center (NOC) at New Delhi, Mumbai, Kolkata & Secundrabad is capable to generate

online reports for monitoring of SLA (Service Level Agreement) parameters on a periodic basis.

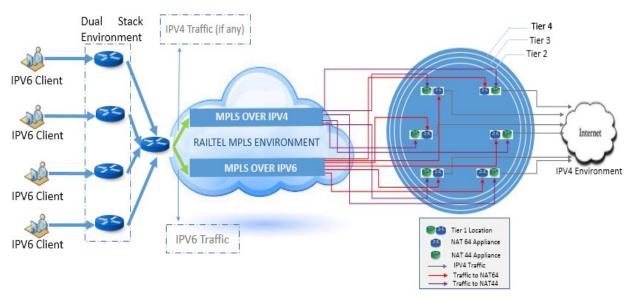
RailTel has presently a work force of approx 500 technically qualified personnel from the field of telecommunication and management. Senior management of RailTel is entirely drawn from Indian Railway and has extensive experience in project, operations and maintenance of telecom network. RailTel has also recruited engineers for operations and maintenance and is in the process of recruiting more technically qualified personnel.

1.6. CGNAT Network

1.6.1.RailTel's Network Architecture

RailTel has a layered network architecture which comprises of four tiers. Tier 1 contains six internet gateways connected in a near full-mesh configuration. Tier 2 consists of 16 cities with every Tier 2 city connected to at least two Tier 1 cities. Tier 3 consists of 16 cities with every Tier 3 city connected to atleast 2 Tier 1 or 2 cities. Tier 4 cities are connected to at least two Tier 1/Tier 2/Tier 3 locations.

With the expansion of internet, Internet Protocol version 4 (IPv4) addresses have exhausted. The ever increasing number of subscribers can only be supported by Internet Protocol version 6 (IPv6) addresses. Being one of the latest entrants in the telecom space, RailTel has got limited number of IPv4 series public IP addresses and intends to use IPv6 series IPs to the extent possible. Telecom Regulatory Authority of India (TRAI) regulations also mandates that all major ISPs should be ready to handle IPv6 traffic and offer IPv6 services. RailTel also intends to leverage on other advantages of IPv6.



The CG-NAT solution has been deployed at the six internet gateway locations located in the Tier1 of the network topology. RailTel has developed an independent MPLS backbone for supporting IPV4 traffic and IPV6 traffic. When the data packet form the subscriber reaches RailTel's network, it is routed through the appropriate MPLS network (IPV4 traffic through MPLS IPV4 network and IPV6 through MPLS IPV6network). The NATing equipment are Installed at the ISP-Internet interface. The data traffic coming from IPV4 MPLS network is passing through CG-NAT44 equipment and the data traffic coming from IPV6 MPLS backbone is passing through the CG-NAT64 equipment. As a result, all packets reaching the internet (website-servers) have a public IPV4 associated to them. The network architecture of RailTel is depicted in the diagram above.

2. Outbound Spam Guard Appliance

2.1. Scope of Work:

- 2.1.1. This tender is for turnkey implementation of various components required for deploying outbound anti spam solution as per terms & conditions and specifications mentioned in this document
- 2.1.2. The turnkey implementation solution shall include Design, Planning, Architecture, Engineering, Supply, Installation and Testing, system integration, Commissioning, training, operation and management (O&M) and AMC of Anti Spam solution deployed at different locations being envisaged through this tender.
- 2.1.3. The requirement of Appliance based solutions mentioned in this section of the bid document gives only the minimum requirement to be supplied as a mandatory requirement. It shall be the Bidder's responsibility to ensure that any additional equipment/ functional modules, including hardware, software and licenses etc. required for satisfactory performance of the Anti Spam equipment for meeting the licensing requirement of ISP for the RAILTEL IP Network as mentioned in this document shall also be supplied and be quoted in the Bid Document as "any other items". In case during the execution of the project or thereafter during Warranty/AMC, it is found that additional equipment (Hardware / Software/ Licenses) is required while the same is not quoted by the bidder, the same shall be supplied by the bidder at no extra cost to the RAILTEL.
- 2.1.4. Anti Spam solution shall be deployed at Internet Gateways locations (namely 5 locations) to meet the functional requirement as defined in this tender. The actual requirement shall be as per Schedule of Requirement (SOR). Bidder shall be responsible for implementation of these solutions equipment envisaged under this project to meet the license requirement for all IP network of RAILTEL.
- 2.1.5. All Equipments, Elements, Hardware, Software supplied through this tender shall be IPV6 compliant and need to be implemented/validated with IPv6 addressing scheme in addition to Ipv4 addressing scheme. If Ipv6 features are not supported at day one, same shall be made available free of cost within 12 months from the date of Purchase Order.
- 2.1.6. Product support will be minimum 3 years.

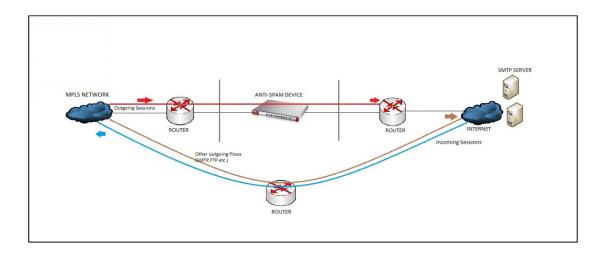
2.2. Objectives:

- 2.2.1. Solution is required to protect IP address blacklisting of RailTel due to outbound spams sent by its customers who are using Railtel public ip pool and prevent black listing of IPs
- 2.2.2. Outbound scanning should not impact users. Subscribers should be able to send mail directly to the Internet.
- 2.2.3. The anti spam solution must work in transparent mode.
- 2.2.4. Only SMTP sessions of subscribers to be redirected for scanning.

2.3. Network Architecture and Requirement

- 2.3.1. The Anti Spam solution shall be deployed at Internet Gateway locations covering the complete SMTP traffic of RAILTEL.
- 2.3.2. The operation & maintenance and provisioning for all locations of anti spam solution shall be carried out from single location. This location shall be RAILTEL NOC location at Delhi.
- 2.3.3. The brief description of RAILTEL's existing network like IP/MPLS, Broadband Network, Etc. are given below in Annexure-A of this section.
- 2.3.4. The typical deployment of anti spam solution should be in offline mode. No traffic other than SMTP should pass through this solution

Figure-1



2.4. Functional Modules

- 2.4.1. Anti Spam Devices- These devices shall be used as Outbound Antspam preventing blacklisting of IPs.
- 2.4.2. Management The Web management of all the devices deployed at different locations from Central NOC location.

2.5. Specifications

- 2.5.1. General Requirements
- 2.5.2. The proposed system shall support unlimited user licenses
- 2.5.3. The proposed system shall be security-hardened platform.
- 2.5.4. The proposed system must be Hardware Based Appliance that provides multi-layered protection against blended threats comprised of spam, viruses, worms and spyware.
- 2.5.5. The proposed solution must support the following deployment modes:
 - 2.5.5.1. Antispam solution should be deployed in Transparent (Bridge) mode
 - 2.5.5.2. Antispam solutions should seamlessly integrate with existing RailTel email servers without any change of IP address either at server or at client side. Also no changes to the existing mail server configuration.
- 2.5.6. Solution should filter only outbound spams i.e. Blocking of SPAMs before leaving Railtel network.
- 2.5.7. Solution should have option to filter inbound spams as well.
- 2.5.8. Antispam solution should be deployed in offline mode. No traffic other than SMTP should pass through this solution

2.6. Hardware Requirements

- 2.6.1. The proposed system must at least capable of supporting:
 - 2.6.1.1. 4 x 10/100/1000 Ethernet and 2 nos of SFP gigabit Ethernet port
 - 2.6.1.2. 1 x RJ-45 Console Connection
 - 2.6.1.3. 2 x Two USB Ports
 - 2.6.1.4. Total Hard Drive Capacity at least 4 TB and scalable upto 12TB
 - 2.6.1.5. The system form factor shall be not exceeded 2U and must be Rack Mountable.
 - 2.6.1.6. The proposed system must inherit the following Certification:
 - 2.6.1.7. FCC Class A Part 15, UL/CUL, C Tick, VCCI

2.6.1.8. The proposed system shall support external NFS storage on a Network Attached Storage (NAS) server

2.7. Software and System Requirements

- 2.7.1. The proposed solution must at least achieve ICSA Labs Anti-Spam and VBSpam certification for its products.
- 2.7.2. The system shall provide Multi-Layered Security with comprehensive functionality and high performance of device enables complete anti spam, antivirus and antispyware protection.
- 2.7.3. The system must delivering a wealth of reliable and high performance features to detect, tag, and block spam messages and their malicious attachments.
- 2.7.4. The system shall provides high-performance hardened operating system and supports a rich set of multi-layered spam detection and filtering technologies with global and per-user spam policies for maximum configuration flexibility.
- 2.7.5. The system must be able to support and run in transparent mode at the same time it should support server and gateway mode.
- 2.7.6. The proposed system shall at least provide the following system performance:
 - 2.7.6.1. Email Routing: 1.4 million messages / hour
 - 2.7.6.2. Antispam: 1.3 million messages / hour
 - 2.7.6.3. Antispam and Antivirus: 1.2 million messages / hour
 - 2.7.6.4. Supports minimum 2000 Email Domains
 - 2.7.6.5. Supports minimum 7,500 recipient-based policies per system for incoming or outgoing mail
 - 2.7.6.6. Supports minimum 3000 Mailboxes when running on Server Mode.
 - 2.7.6.7. Supports minimum 600 profiles per system for each:-
 - 2.7.6.8. -Antispam
 - 2.7.6.9. -Antivirus
 - 2.7.6.10.-Authentication
 - 2.7.6.11.-Content
 - 2.7.6.12. Support Identity-Based Encryption (IBE) without requiring additional license and hardware
 - 2.7.6.13. S/MIME encryption

2.8. System Features Requirement

- 2.8.1. The propose system shall be dedicated standalone appliance and support the following features in Gateway and Transparent and Server modes
 - 2.8.1.1. Multiple email domain support
 - 2.8.1.2. Tiered administration accounts
 - 2.8.1.3. High Availability HA support
 - 2.8.1.4. SMTP mail gateway for existing email servers
 - 2.8.1.5. Integrated policy-based email routing and queue management
 - 2.8.1.6. Outbound mail relay for improved mail security
 - 2.8.1.7. Granular layered detection policies for spam and viruses
 - 2.8.1.8. Per users antivirus and anti spam scanning using LDAP attribute on a per policy (domain) basis
 - 2.8.1.9. Antivirus replacement messages for notification
 - 2.8.1.10. Spam quarantining and spam tagging
 - 2.8.1.11. Spam management (accept, relay, reject or discard) based on email addresses, IP addresses, or domains
 - 2.8.1.12. Per user antivirus and antispam scanning using LDAP attributes on a per policy (domain) basis
 - 2.8.1.13. LDAP-based email routing
 - 2.8.1.14. Quarantined email access with WebMail and POP3
 - 2.8.1.15. Daily/Periodic quarantine summaries

- 2.8.1.16. Policy-based email archiving of inbound and outbound messages with backup support for remote storage
- 2.8.1.17. Comprehensive email monitoring, logging, and reporting
- 2.8.1.18. Mail queue support for failed, deferred, and undeliverable email
- 2.8.1.19. SMTP authentication support through LDAP, RADIUS, POP3 or IMAP
- 2.8.1.20. Per user automatic White List
- 2.8.1.21. SNMP support using Standard MIBs and private MIB with threshold based trap
- 2.8.1.22. Maintains a local sender reputation list based on:-
 - Number of Viruses Sent
 - Amount of Spam Sent
 - Number of Bad Recipients
- 2.8.1.23. Dynamic DNS (DDNS)
- 2.8.1.24. Reports can be generated and send as a PDF
- 2.8.1.25. Greylist database persistence
- 2.8.1.26. Multiple Language Support
- 2.8.1.27. Regex Pattern Matching
- 2.8.1.28. Sender Policy Framework (SPF)
- 2.8.1.29. DomainKeys
- 2.8.1.30. DomainKeys Identified Mail (DKIM)
- 2.8.1.31. Domain-based Message Authentication, Reporting and Conformance (DMARC)
- 2.8.1.32. Data Loss Prevention (DLP)
- 2.8.1.33. Multi-tenancy: per mail domain (customer) configuration visibility
- 2.8.1.34. In-Build DLP
- 2.8.2. In Server mode, the proposed system shall provides all features listed in Gateway and Transparent modes PLUS the following:
 - 2.8.2.1. POP3, SMTP, and IMAP email services
 - 2.8.2.2. SMTP over SSL support
 - 2.8.2.3. Disk quota policy support for user accounts
 - 2.8.2.4. Secure webmail client access
 - 2.8.2.5. User, group, and alias list support
 - 2.8.2.6. Local account and LDAP authentication
 - 2.8.2.7. Bulk folder support for spam mail

2.9. Anti Spam / Content Level Detection

- 2.9.1. The propose system shall minimally integrated following spam detection technologies with unlimited users license:
- 2.9.2. Inbound and Outbound Email Filtering
- 2.9.3. Extensive Heuristic Spam Filters
- 2.9.4. Dynamic Heuristic Rule Updates
- 2.9.5. Attachment Content filtering
- 2.9.6. Deep Email Header Inspection
- 2.9.7. Bayesian Statistic Filtering up to per device, per domain, and per user.
- 2.9.8. Spam URI Realtime Block List (SURBL)
- 2.9.9. Banned Word Filtering
- 2.9.10. Spam Quarantining and Spam Tagging
- 2.9.11. Spam Management (Accept, Relay, Reject or Discard)
- 2.9.12. Based on email SHASH Spam Checksum Blocklist
- 2.9.13. Spam Image Analysis Scanning
- 2.9.14. PDF Scanning / PDF Image Scanning
- 2.9.15. Antispam Service
- 2.9.16. Global and User Customized Black/White List Filtering

- 2.9.17. 3rd Party RBL and DNSBL support
- 2.9.18. Forged IP Checking
- 2.9.19. Greylist Checking
- 2.9.20. Bounce Verification

2.10. AntiVirus/Spyware Protection

- 2.10.1. The proposed system should have integrated Antivirus with unlimited users license and provides the following services:
 - 2.10.1.1. AV engine and signatures, including legacy virus detection
 - 2.10.1.2. Automatic update of antivirus and attack signatures global network
 - 2.10.1.2.1. Push Update
 - 2.10.1.2.2. Scheduled Update Hourly, Daily and Weekly
 - 2.10.1.2.3. Manual Update
 - 2.10.1.3. SMTP Messages Virus Scanning
 - 2.10.1.4. Compressed Attachment and Nested Archive Support
 - 2.10.1.5. Quarantine infected files
 - 2.10.1.6. Replacement Message Notification
 - 2.10.1.7. Block by File Type
 - 2.10.1.8. Attachment Filtering

2.11. Denial of Service Protection

- 2.11.1. The proposed systems shall provide the following denial-of-service protection:
 - 2.11.1.1. Denial of service (mail bombing)
 - 2.11.1.2. Recipient address attack (M)
 - 2.11.1.3. mail rate limit (M)
 - 2.11.1.4. Reverse DNS check (anti-spoofing)

2.12. High Availability

- 2.12.1. The proposed system shall support to operate in two high availability (HA) modes:-
 - 2.12.1.1. Active-Passive HA Two units operate as an HA group providing failover protection.
 - 2.12.1.2. Config only HA Up to eight units share a common configuration, but operate independently.
- 2.12.2. The High Availability (HA) features supported for Gateway, Transparent, and Server Modes.
- 2.12.3. The proposed system shall support stateful fail-over to a standby unit.
- 2.12.4. The proposed system shall support link status monitor and link failover.
- 2.12.5. The system shall support device failure detection and notification via event log, send SNMP traps, send alert email.
- 2.12.6. All systems in the HA cluster must automatically synchronize its configuration as well as mail data synchronization.

2.13. Configuration Management

- 2.13.1. The propose system shall minimally provide management access through:
 - 2.13.1.1. HTTPS access (web-based manager)
 - 2.13.1.2. Console port, user-friendly Command Line Interface (CLI).
 - 2.13.1.3. SSHv2.
- 2.13.2. The propose system shall be able to limit management access from certain trusted network or host
- 2.13.3. The propose system shall provide easy-to-use graphical user interface from a standard web browser.

- 2.13.4. The proposed system should be able to event log each management access and also configuration changes.
- 2.13.5. The proposed system should be able to set the idle timeout for management access.
- 2.13.6. The proposed system should be able to synchronize to a Network Time Protocol for system time.
- 2.13.7. The proposed system shall provide system file management such system configuration backup and restore via WebGUI or TFTP.
- 2.13.8. The proposed system shall provide real time system status and events view, presented the information in simple, intuitive tables and graphs. At minimal should have:
 - 2.13.8.1. CPU utilization
 - 2.13.8.2. Memory utilization
 - 2.13.8.3. Number of sessions
 - 2.13.8.4. Network utilization
- 2.13.9. The proposed system shall provide mail statistics displays with a summary of spam messages and viruses detected by the scanning tools of the system in tabular and graphical views. It must shows actions taken by the unit against spam and viruses.

2.14. Logging, Reporting and Alert

- 2.14.1. The proposed system shall provides the following logging and reporting capabilities:
 - 2.14.1.1. Configuration change and management event logging
 - 2.14.1.2. Antivirus incident logging
 - 2.14.1.3. Antispam activity logging
 - 2.14.1.4. External or local syslog server support
 - 2.14.1.5. Expanded central logging and reporting support
 - 2.14.1.6. Critical events and virus incident alerting
 - 2.14.1.7. Comprehensive reporting with over 140 reports in seven categories
 - 2.14.1.8. Scheduled report generation in HTML and PDF format
- 2.14.2. The proposed system shall support alert email on following event categories:
 - 2.14.2.1. Virus incidents when viruses are detected
 - 2.14.2.2. Critical events when the system detects a system error that may affect its operation.
 - 2.14.2.3. Disk is full when the system's hard disk is full.
 - 2.14.2.4. Remote archiving failures when the remote archiving feature encounters a failure or more than one failure.
 - 2.14.2.5. HA events when any high availability event occurs
 - 2.14.2.6. Disk quota of an account is exceeded when the system disk exceeds the quota amount in an account.
 - 2.14.2.7. Dictionary is corrupted when a dictionary is corrupt.
 - 2.14.2.8. System quarantine quota is full when the system's quarantine quota is full.
 - 2.14.2.9. Deferred emails # over interval time send alert emails if the deferred email query is over a defined value. Administrator shall have the flexibility to define a number of emails that are over the deferred query amount as well as time duration between alert email messages

2.15. Advanced Threat Protection

- 2.15.1. The proposed system MUST be able to integrate with a Sandbox solution for detecting Advanced and Targeted attacks
- 2.15.2. The proposed system MUST be able to send suspicious, high risk files and attachments to a in-premise Sandbox appliance
- 2.15.3. The proposed system MUST support the following Sandbox integration features:
 - 2.15.3.1. Temporary quanratine the email message during sandbox analysis
 - 2.15.3.2. Block the email if it exhibits risky behavior, or is found to contain a virus

2.15.3.3. Automatically create a new antivirus signature for real-time blocking

2.16. Security Subscription and Support Service

- 2.16.1. The proposed system should have INHOUSE Security Subscription Service which provides comprehensive antivirus, antispyware, anti spam, intrusion prevention and web content filtering capabilities to enable protection against blended threats.
- 2.16.2. The Security Subscription services must be continuously updated by a 24x7 Global Threat Research Team possessing in-depth expertise in all security disciplines.
- 2.16.3. The proposed system should have a Principal Regional Technical Support office in ASEAN region that provides 24x7 support.

2.17. Endpoint Reputation Support

- 2.17.1. The proposed system MUST be MSISDN aware and able to provide Antispam protection and reporting based on MSISDN or subscriber ID.
- 2.17.2. The proposed system MUST be able to restrict and block MSISDN or subscriber ID from sending email or MM3 messages in a mobile carrier or service provider environment.
- 2.17.3. The proposed system shall provide the following MSISDN features:
 - 2.17.3.1. MSISDN Logging & Reporting
 - 2.17.3.2. MSISDN Reputation / Subscriber Reputation
- 2.17.4. The proposed system shall minimal be able provide the following MSISDN/Subscriber based reports:
 - 2.17.4.1. Top Client MSISDN / Subscriber
 - 2.17.4.2. Top Sender MSISDN / Subscriber
 - 2.17.4.3. Top Spam MSISDN / Subscriber
 - 2.17.4.4. Top Virus MSISDN / Subscriber
- 2.17.5. The proposed system shall support MSISDN blacklisting and whitelisting with the following features:
 - 2.17.5.1. Auto Blacklist
 - 2.17.5.2. Blacklist
 - 2.17.5.3. Exempt
 - 2.17.5.4.

2.18. Centralized logging, analytic and reporting system

- 2.18.1. Reports can be generated instantly or via schedules from external reporting appliance.
- 2.18.2. Logging solution should securely aggregate, correlate, analyze, and report on log data from vendor products and other syslog compatible devices.
- 2.18.3. Centralized logging and reporting solution leverages a full suite of easily customized reports, allowing users to filter and review records to quickly analyze and visualize network threats, inefficiencies, and usage.
- 2.18.4. Pre-defined and customized charts to identify attack patterns, maintain acceptable use policies, and demonstrate policy compliance.
- 2.18.5. Logging solution should be able to provide advanced security management functions, such as quarantined file archiving, event correlation, archiving of email, Web access, instant messaging and file transfer content.
- 2.18.6. Logging solution should provide a web based real time attack log viewer.
- 2.18.7. Log searching and filtering capabilities.
- 2.18.8. Logging solution should be able to store at least 1 month log locally.
- 2.18.9. The proposed logging system shall provide the following logging and reporting capabilities:
 - a. Configuration change and management event logging
 - b. Antivirus incident logging
 - c. Antispam activity logging
- 2.18.10. Comprehensive predefined reports and option to create own custom reports.

- 2.18.11. Solution should have a option to generate the report based on email domain wise. Scheduled report generation should support at least HTML and PDF format.
- 2.18.12. The proposed system shall support alert email on critical incidents

Note: The Proposed solution (hardware and Software) shall be from the same OEM.

3. TENDERER's Responsibility

The tenderer will be responsible for supply & Installation and Commissioning of complete work for this tender including the System design of network and integration with the existing network, wherever required. It shall be the responsibility of Supplier to transport the equipment to site for the Installation & Commissioning.

3.1. OUTSIDE PLANT ACCEPTANCE

The tenderer should check and ascertain that the 230V AC power supply and earthing arrangement (value less than one ohm) existing at the respective nodes meet the requirement of equipment proposed to be installed. Augmentation required if any may be clearly brought out by tenderer.

3.2. INSTALLATION, INTEGRATION, TESTING, TRIAL RUN AND COMMISSIONING OF EQUPEMENTS NETWORK

The Tenderer shall be fully responsible for Quality Assurance of equipment & other network elements and supervision of following:-

- 3.2.1.Installation and integration of the above said equipment/ items as per System design
- 3.2.2.Integration with existing network
- 3.2.3. Testing of the Solution as specified in the document
- 3.2.4. Trial run of the Solution.
- 3.2.5. Commissioning of Solution.

3.3. TRAINING OF PURCHASER'S PERSONNEL

Training on the equipment and network operation shall be provided by the Tenderer.

3.4. GENERAL SYSTEM GUIDELINES

- 3.4.1. Tenderer shall be responsible for the successful completion of the project.
- 3.4.2. Purchaser/Engineer reserves the right to modify, revise, and alter the specifications of equipment system prior to acceptance of any offer.
- 3.4.3.If during the course of execution of the work any discrepancy or inconsistency, error or omission in any of the provisions of the contract is discovered, the same shall be referred to the Purchaser/Engineer who shall give his decision in the matter and issue instructions directing the manner in which the work is to be carried out. The decision of the Purchaser/Engineer shall be final and conclusive and the Tenderer shall carry out the work in accordance thereof.
- 3.4.4.Any item of Tenderer's goods/services not specifically mentioned, but considered essential for completion/commissioning of the work in all respects shall be deemed to be included in the scope of work. The tenderer may bring out any additional requirement and quote the price for the same as per the relevant SOR item, otherwise, it shall be required to be supplied by the tenderer free of cost.

3.5. TECHNICAL RESPONSE

The technical response shall be fully comprehensive and detailed and will include detailed guaranteed specifications of the equipment and systems to be supplied. Marginal performance shall not be accepted.

3.6. FEATURES AND CAPABILITIES OF EQUIPMENT

The succeeding specifications contain the necessary requirements of RailTel with regard to the features and capabilities of the equipment to be offered by the Tenderers. These will be carefully studied and commented upon by the Tenderer. These should not be treated as maximum specifications.

3.7. COMPLIANCE TO TECHNICAL REQUIREMENTS

3.7.1.CLAUSE BY CLAUSE COMPLIANCE

In the offer, the Tenderer shall include statement of clause by clause compliance of the tender document and sufficient documentation such that RailTel can validate the compliance statements. In the statement of compliance, the Tenderer shall state:

- 3.7.2."FULLY COMPLIANT," if systems and functions offered fully meet the tender requirement.
- 3.7.3."PARTIALLY COMPLIANT," if systems and functions offered meet the tender requirement partially. The Tenderer shall state the reason why the offer is partially compliant. However, if the Tenderer is able to fulfill the specified requirement later, the time schedule for this shall be stated. In such cases, the Tenderer shall clearly mention the extent to which other requirements or specifications are affected.
- 3.7.4."NON COMPLIANT," if systems and functions cannot meet the requirements. The Tenderer shall also state the reasons for it.
- 3.7.5.In addition to the above mentioned compliance statements, wherever statement is given for some numerical parameter specified in tender, then Tenderer shall state the actual numerical value of specification as met by the offered systems/equipment.

3.8. NIL OR UNCLEAR RESPONSE STATEMENTS

In case of nil or unclear statements of compliance for any specified requirement, RailTel will interpret that particular requirement as being "NON COMPLIANT."

3.9. VARIANCE FROM SPECIFIED REQUIREMENTS

In case of variance of the offered equipment from the specified Technical requirements, the decision of RailTel on whether the equipment offered is responsive to the bid requirements shall be final and binding upon the Tenderer.

CHAPTER-3

B. INSPECTION AND INSTALLATION, TESTING & COMMISSIONING

1. TESTS AND MEASUREMENTS

All equipments shall be subjected to tests as per technical specification and requirement specified in Chapter-3, Part-A, at manufacturer facility/premises and a test report for each equipment duly signed by the testing authority and accepted by suitable authority shall be submitted along with the equipment.

1.1 TEST CATEGORIES

- 1.1.1 The following tests shall be conducted for acceptance of the equipment and the system before final acceptance of the system.
 - i) Factory Acceptance Testing (FAT)
 - ii) Pre-commissioning test (after installation) for total integrated system.
 - iii) Site Acceptance Testing (SAT)
 - i) Trial Run / Field Trials.

Under exceptional circumstance, if it is not feasible to conduct Factory Acceptance Testing (FAT) at manufacturing facility, the equipment shall be accepted on the basis of certified manufacturer test report. In that case preliminary inspection of the equipment shall be arranged by the vendor at a suitable facility within India and detail inspection at site as per mutually agreed testing procedure. Exemption of inspection at factory premises (FAT) will be at the sole discretion of RailTel.

- 1.1.2 These tests shall be carried out on all equipment supplied by tenderer including those supplied by sub-vendors, if any. Tenderer shall arrange all necessary test instruments, manpower, test-gear, accessories etc.
- 1.1.3 All technical personnel assigned by Tenderer shall be fully conversant with the system specifications and requirements. They shall have the specific capability to make the system operative quickly and efficiently and shall not interfere or be interfered by other concurrent testing, construction and commissioning activities in progress. They shall also have the capability to incorporate any minor modifications/suggestions put forward by Purchaser/Engineer.
- 1.1.4 Test Plan: The Contractor shall submit to Purchaser 'Test Plans' well in advance of commencement of actual testing in each of the above mentioned test categories.

The plans shall include:

- 1.1.4.1 System/Equipment functional and performance description (in short) and Tests to be conducted and purpose of test.
- 1.1.4.2 Test procedures (including time schedule for the tests) and identification of test inputs details and desired/expected test results
- 1.1.5 Test Report: The observations and test results obtained during various tests conducted shall be compiled and documented to produce Test Reports by Tenderer. The Test Reports shall be given for each equipment/item and system as a whole. The report shall contain the following information to a minimum:

1.1.5.1 Test results

- 1.1.5.2 Comparison of test results and anticipated/expected (as per specifications) test result as given in test plans and reasons for deviations, if any.
- 1.1.5.3 The data furnished shall prove convincingly that:
 - a. The system meets the Guaranteed Performance objectives
 - b. Mechanical and Electrical limits were not exceeded.
 - c. Failure profile of the equipment during the tests are well within the specified limits.

1.1.6 Failure of Cards/Components:

Till the system is accepted by the Purchaser, a log of each and every failure of cards/components shall be maintained. It shall give the date and time of failure, description of failed component/ card with serial no., lot no. etc, circuit, module, component designation, effect of failure of component on the system/ equipment, cause of failure, date and time of repair, mean time to repair etc. Repair/modification done at any point of time at one site shall be carried out by Tenderer at all the sites. Detailed documentation for the same shall be submitted to Purchaser for future reference.

If the malfunction and/or failures of a unit/module/sub-system/equipment repeat during the test, the test shall be terminated and Tenderer shall replace the necessary component or module to correct the deficiency. Thereafter, the tests shall commence all over again from the start.

If after the replacement the equipment still fails to meet the specification, Tenderer shall replace the equipment with a new one and tests shall begin all over again. If a unit/subsystem/module have failed during the test, the test shall be suspended and restarted all over again only after the Tenderer has placed the Equipment back into acceptable operation. Purchaser's approval shall be obtained for any allowable logical time required to replace the failed component/unit/module/sub-system.

1.1.7 Re-adjustments

No adjustments shall be made to any equipment/cards during the acceptance tests. If satisfactory test results cannot be obtained unless readjustments are made, Tenderer shall carry out only those readjustment needed to ready the equipment/system for continuance of tests. A log of all such adjustments shall be kept giving date and time, equipment, module, circuit, adjustments, reasons, test result before and after adjustment etc. Fresh acceptance tests shall be conducted after the readjustments have been completed.

1.2 FACTORY ACCEPTANCE TESTING (FAT)

Factory acceptance tests shall be carried out after review and approval of FAT procedure/documents as per bid requirements and review of Pre-Factory acceptance results & shall be conducted at the manufacturing facilities from where the respective equipment/subsystems are offered. The factory acceptance testing shall be conducted in the presence of the Purchaser/Engineer. The tests shall be carried out on all equipment/items including those supplied by Sub-vendors and factory acceptance certificates shall be issued. The factory tests shall include but not be limited to:

1.2.1 Equipment Testing:

1.2.1.1 Mechanical checks to the equipment for dimensions, inner and outer supports, finishing, welds, hinges, terminal boards, connectors, cables, painting etc.

- 1.2.1.2 Electrical checks including internal wiring, external connections to other equipment
- 1.2.1.3 Check for assuring compliance with standards mentioned in the specifications.
- 1.2.1.4 Individual check on each/module/sub-assembly in accordance with the modes and diagnostics programs of the Tenderer
- 1.2.1.5 Checks on power consumption and heat dissipation characteristics of various equipment.
- 1.2.1.6 Environment testing and other laid down tests in Type Tests plan of the specification of the equipment.
- 1.2.1.7 Functional testing
- 1.2.1.8 Any other test not included in FAT document but relevant to the project as desired by the Purchaser/Engineer at the time of factory acceptance testing.

All equipments materials fittings and components will be subject to inspection by the purchaser or his representative at the manufacturer's factory/tenderer works before dispatch and no materials shall be dispatched until these are inspected and/or approved.

Under exceptional circumstance, if it is not feasible to conduct Factory Acceptance Testing (FAT) at manufacturing facility, the equipment shall be accepted on the basis of certified manufacturer test report. In that case preliminary inspection of the equipment shall be arranged by the vendor at a suitable facility within India and detail inspection at site as per mutually agreed testing procedure. Exemption of inspection at factory premises (FAT) will be at the sole discretion of RailTel.

1.2.2 System Integration Testing

Functional and performance test should be conducted for the complete system/ all major equipment constituting the system (including the equipment supplied by sub-vendors, as applicable) simulating the complete network with appropriate network elements. All equipment shall be connected using the same cables (interfaces/components) as will be used during final installation so that the system can be tested in its final configuration. This testing shall be conducted at the manufacturing facility of the main equipment.

1.3 INSTALLATION

After successful completion of Factory Acceptance Test or acceptance report of equipment on the basis of certified manufacturer test report, equipment shall be sent to site for installation.

All equipment shall be checked for completeness as per the specifications of equipment required for a particular station. Installation shall be carried out in accordance with the installation manuals and approved installation drawings in the best workmanship.

The contractor shall be responsible for ensuring that the work throughout are executed in the most substantial, proper and workmanlike manner with the quality of material and workmanship in strict accordance with the specifications and as per sound industrial practices and to the entire satisfaction of the RailTel.

If during installation and commissioning any repairs are undertaken, the maintenance spares supplied with equipment shall not be used for the repair. Tenderer shall arrange his own spare parts for such activities till such time the system has been finally accepted by the Purchaser. A detailed report & log of all such repairs shall be made available by the Tenderer to Purchaser/Engineer and shall include cause of faults and repair details, within two weeks of fault occurrence.

Tenderer shall supply all installation materials required for proper installation of the equipment. These shall include but not be limited to, all connectors, inter-bay and inter-

equipment cables, power/earthing cables, connectors, anchoring bolts, nuts, screws, washers etc. as needed.

The bidder has to ensure that installation of equipment shall be done as to present neat and clean appearance in accordance with approved installation document drawings. All inter bay, power supply and other cables shall be routed through wall mounted cable trays. No cable shall be visible. Equipment installed at one of the site shall be made as model site and Tenderer shall take approval from Purchaser/engineer on various aspects etc.

1.4 PRE-COMMISSIONING

On completion of installation of equipment, the correctness and completeness of the installation as per Manufacturer's manual and approved installation documents shall be checked by the Tenderer on his own.

A list of Pre-Commissioning tests (same as approved by the Purchaser/Engineer for Site Acceptance Testing) and activities shall be prepared by Tenderer and the test shall be carried out by the Tenderer on his own. After the tests have been conducted to the Tenderer own satisfaction, the Tenderer shall provide the test results for review by Purchaser/Engineer and then offer the system for Site Acceptance Testing.

During pre-commissioning, if any fault occurs to any equipment or system, Tenderer shall identify the same and provide report/history of all faults to the Purchaser.

Tenderer shall ensure that the spares meant for operation and maintenance are not used during installation and commissioning.

1.5 SITE ACCEPTANCE TESTING (SAT)

On completion of Pre-commissioning, site acceptance testing shall be conducted on the system as per approved SAT procedures and its constituents by the Tenderer under the presence of Purchaser/Engineer.

The tests shall include, but not be limited to the following:

- 1.5.1 Checks for proper installation as per the approved installation drawings for each equipment/item and system as a whole.
- 1.5.2 Guaranteed performance specifications of individual equipment/item.
- 1.5.3 Self diagnostics test on individual equipment
- 1.5.4 Tests on metering and alarm panels
- 1.5.5 Tests on remote alarm transmission and reception
- 1.5.6 System tests on per hop basis and END TO END for the ring/link, all complete.

1.6 PROVISIONAL ACCEPTANCE CERTIFICATE (PAC)

On installation of the equipment, the contractor shall certify and advise Railtel Supervisor where equipment has been installed, in writing that the installation is (i) completed (ii) ready for satisfactory commercial service and (iii) ready to be handed over. After successful completion of Site Acceptance Testing, a report (SAT) shall be forwarded to GGM/DNM. Provisional Acceptance Certificate (PAC) will be issued by GGM/DNM. PAC will not be held back for want of minor deficiencies not affecting the functioning of the equipment. Deficiencies, if any, pointed at the time of issuance of PAC, will be rectified by the contractor within one month.

1.7 TRIAL RUN/FIELD TRIALS

Upon conclusion of the site acceptance testing, the Tenderer shall keep the facilities commissioned for one month for 'TRIAL RUN/FIELD TRIALS'. During this period Tenderer shall provide all specialist Engineers & Technicians including experts at the NMS to maintain the total log, incidents, failures & for assisting site engineer & for total coordination. However, the normal operation and maintenance of the system shall be performed by the personnel of the Purchaser trained for the purpose.

If during 'TRIAL RUN/FIELD TRIALS' any defect is noted in the system, the Tenderer shall rectify, replace the same to the satisfaction of Purchaser/Engineer. The decision to repeat the final test or restart the 'Trial / Field Trials' shall be of Purchaser/Engineer depending upon the severity of the defect.

During trial run / field trial, if any fault occurs to any equipment of system, Tenderer shall identity and rectify the same and provide report, history of all faults to the Purchaser.

Ideally, during the 'TRIAL RUN / FIELD TRIALS', no shutdown of the system due to failure of equipment, power supply etc. should happen. A record of all failures shall be kept for each manned/unmanned station and the availability of the system on per hop and end to End basis shall be calculated, accordingly and results submitted to Purchaser/engineer. If the system fails to come up to the guaranteed performance, the Tenderer, within a period of thirty (30) days shall take any and all corrective measures and resubmit the system for another 'Trial Run' of trial period. All modifications, changes, corrective measures, labour etc. shall be at the cost of the Tenderer. In case the date of completion for the second trial run exceeds the time schedule for the project, he shall be liable to pay liquidated damages. If the system fails to reach the guaranteed performance even after the second trial run, the Purchaser shall be free to take any action as he deems fit against the Tenderer and to bring the system to the guaranteed performance with the help of third party at the expense of the Tenderer.

1.8 FINAL ACCEPTANCE

The final acceptance of the works completed shall take effect from the date of successful completion of 12 months after issue of PAC provided in any case that the contractor has complied fully with his obligations in respect of each item under the contract. The Final Acceptance Certificate of all regions against the contract shall be issued by GGM/DNM. Notwithstanding the issue of Final Acceptance Certificate the contractor and the purchaser shall remain liable for fulfillment of any obligation incurred under the provision of the contract prior to the issue of Final Acceptance Certificate which remains unperformed at the time such certificate is issued and for determining the nature and extent of such obligation the contract shall be deemed to remain in force between the parties hereto.

1.9 QUALITY ASSURANCE

- 1.9.1 Tenderer shall submit the details of Quality Assurance program followed by them beginning with raw materials, active, passive and fabricated components, units, sub-assemblies, assemblies, wiring, interconnections, structures etc. to finished product. Tenderer shall obtain and forward the Quality Assurance Program for equipment supplied by Sub-vendor, if any.
- 1.9.2 The Purchaser/engineer reserves the right to inspect and test each equipment at all stages of production and commissioning of the system. The inspection and testing shall include but not be limited to raw materials. Components, sub-assemblies, prototypes, production units, guaranteed performance specifications etc.
- 1.9.3 For inspection and testing, Tenderer shall arrange all that is required e.g. quality assurance personnel, space, test instruments etc. for successful carrying out of the testing by the Purchaser/Engineer, at Tenderer cost, at the Manufacturer's works/tenderer premises/site.
- 1.9.4 Purchaser/Engineer shall have free entry and access to any and all parts of the Manufacturer's facilities associated with manufacturing and testing of the system at any given time.

- 1.9.5 It shall be explicitly understood that under no circumstances shall any approval of the Purchaser/Engineer relieve the Tenderer of his responsibility for material, design, quality assurance and the guaranteed performance of the system and its constituents.
- 1.9.6 Tenderer shall invite the Purchaser/Engineer, at least 7 days in advance, of the date at which system shall be ready for Inspection and Testing. All relevant documents and manuals approved Engineering drawings etc. shall be available with the Purchaser/Engineer well in advance of the start of Inspection and Testing.
- 1.9.7 Purchaser or his representative shall, after completion of inspection and testing to their satisfaction, issue factory acceptance certificates to release the equipment for shipment. No equipment shall be shipped under any circumstances unless a factory acceptance certificate has been issued for it, unless agreed otherwise by Purchaser/Engineer.

CHAPTER-3

C. TRAINING, VENDOR DATA REQUIREMENT, DOCUMENTATION, AND DESIGN GUIDELINES

1. TRAINING

Tenderer shall train personnel of Purchaser/engineer in all aspects of offered system.

The training course shall be conducted at the manufacturing facilities from where the respective equipment/subsystems are manufactured/ offered or in India if the firm can arrange full fledged training facilities in case their manufacturing facilities are located outside India.

It shall be explicitly understood, that Purchaser's/Engineer's personnel shall be fully associated during Engineering, Installation, Testing and Commissioning activities and this opportunity shall be taken by Tenderer to impart on the job training in addition to the above training course.

Tenderer offer excludes costs of transportation, lodging and boarding of the trainees which shall be arranged by the Purchaser.

The training course to be conducted at the manufacturing facilities shall be designed to train the trainees in all aspects of System engineering, equipment operation, installation and functional details, theory of operation of equipment, trouble shooting and familiarization with the equipment at card and component level. All equipment used for training shall be identical to those quoted and supplied for site installation in hardware and software versions.

Tenderer shall provide comprehensive documentation, course material, manuals, literature etc. as required for proper training of personnel at his own cost. Consolidated and comprehensive documentation shall be available to each participant. After the completion of course, all such materials shall become the property of the PURCHASER. Tenderer shall update the course material of manuals in case there are any changes owing to revision/modifications in equipment/system specifications.

Tenderer shall, prior to start of training, send complete training program including details of each course, duration, subject matter etc. The Purchaser/Engineer reserves their right to suggest any additions/deletions in the program, which shall be incorporated by the Tenderer at no additional cost.

2. VENDOR DATA REQUIREMENT AND DOCUMENTATION

One set of Documentation shall be supplied with each system. In addition, 12 more sets of full documents shall be supplied. All documents and manuals shall be in English language only.

The following documents for the complete system shall be supplied and approved by Purchaser/Engineer in order to start inspection:

- a. System description, System configuration diagram & Connectivity diagram
- b. Detail technical manual of each type of equipment
- c. Equipment interconnection diagram including details of various interfaces, signaling protocols used at each stage.
- d. Layout of equipment and space requirements for each station.
- e. Installation manual including installation procedure and commissioning.
- f. Supervisory configuration, alarm list, operator interface etc.
- g. Maintenance manual of each type of equipment containing:
 - i. Preventive maintenance procedures.

- ii. Trouble shooting/repairs procedures including failure analysis shall provide exhaustive information about repairs including but not limited to removal, reinsertion of components and cards, repairs, adjustments, tuning, calibration, tools required for a particular operation, test points, including turnaround time for repair and the details of the maintenance support service centre to be furnished in the bid and all other maintenance related details.
- iii. Expansion possibilities of the system without causing deterioration in the system performance.
- iv. Any other data, document not specifically mentioned, but required for the satisfactory testing, installation and commissioning, operation and maintenance of the system shall be provided.
- v. Documents to be supplied after trial runs but before System commissioning (Acceptance of the System by Purchaser/Engineer).

Note:

3. DESIGN GUIDELINES

- i) Equipment shall conform to the similar housing standards and shall preferably be integrated in one 19" rack.
- ii) All equipment shall have sufficient number of alarms and supervisory indications and shall be provided with self-diagnostic facilities. All alarms and monitoring & diagnostic facilities shall be built-in & shall be displayed on the front panel of the equipment for ease of maintenance. It shall be possible to transmit these indications, parameters to the control station /NMS on real time basis.
- iii) The healthy/unhealthy condition of the units shall be displayed by different color LEDs/Lamps.
- iv) For important switches, the maintenance personnel shall provide controls on the front panel with suitable safeguard to avoid accidental operation. Manual changeover should be performed by more than one sequential operating procedure to avoid accidental operation.
- v) All equipment shall be immune to EMI; RFI interference generated by any nearby source & shall meet the latest international standards in this regard.
- vi) The equipment shall be capable of functioning with minimum maintenance and shall be preferred to have no requirement of any preventive maintenance.
- vii) All patch cords shall be provided with connectors matching to the cable used and shall have identification markings.
- viii) All sub-assemblies or modules, switches and controls and the circuit components shall be so mounted as to permit their replacement without appreciable disturbance to other components.
- ix) If the vendor is not using distributed power supply system on individual module basis then the Power supply cards shall be duplicated (1+1). However one standalone power supply card shall be able to run the system for its entire lifetime.
- x) All equipment sub racks, housings shall be provided with antistatic wristbands, if required for safe handling of Cards.
- xi) The equipment should have modular design and should be configurable in number of operational modes to perform complex and different network functions without need of any additional software.

CHAPTER 4

COMMERCIAL TERMS & CONDITIONS

1. Offer letter and Validity of offer

- 1.1. The bidder shall complete the offer letter (Chapter 1) and the Price Schedule (Chapter 2) furnished in the tender documents, indicating the goods to be supplied, description of the goods, associated technical literature, quantity and prices etc.
- 1.2. The offer should remain valid for a minimum period from the date of opening of tender including the date of opening as indicated in Bid Data Sheet (BDS) Chapter 5.

2. Warranty

- 2.1. The warranty would be valid for a period as indicated in Bid Data Sheet (BDS) Chapter 5. The supplier shall warrant that stores to be supplied shall be new and free from all defects and faults in material, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards of materials of the type ordered and shall perform in full conformity with the specifications and drawings. The supplier shall be responsible for any defects that may develop under the conditions provided by the contract and under proper use, arising from faulty materials, design or workmanship such as corrosion, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in design and/ or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the stores are faulty.
- 2.2. If it becomes necessary for the contractor to replace or renew any defective portion/portions of the supplies under this clause, the provisions of the clause shall apply to the portion/portions of the equipment so replaced or renewed or until the end of the above mentioned period or twelve months, whichever may be later. If any defect is not remedied within a reasonable time of 30 days, the Purchaser may proceed to do the work at the contractor's cost, but without prejudice to any other rights which the Purchaser may have against the contractor in respect of such defects
- 2.3. Replacement under warranty clause shall be made by the contractor free of all charges at site including freight, insurance and other incidental charges.

2.4. Warranty Support

- 2.4.1.Material for repair during Warranty Period shall be handed over /taken over to contractors engineer at regional NOC's or mutually agreed RailTel PoP location.
- 2.4.2.During the warranty period, the contractor shall be responsible to the extent expressed in this clause for any defects that may develop under the conditions provided for by the contract and under proper use, arising from faulty materials, design or workmanship in the plant, or from faulty execution of the plant by the contractor but not otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser Engineer who shall state in writing in what respect the portion is faulty.
- 2.4.3.During the free warranty maintenance period contractor should stabilize the working of the system. Purchaser has the right to extend the period of supervision of the maintenance free of cost till the system stabilizes and works satisfactorily for a reasonable period of time. If during the time any equipment etc. is to be added or deficiencies are to be rectified to make the system work trouble free the same also will have to be done by the contractor at no cost to RailTel as to make good all the deficiencies.
- 2.4.4.Bidder should provide the one Qualified (L2 Level) Engineer (working 6 days a

week for 8 Hrs) and In case of hardware failure the replacement must be given in next business day If the Bidder fail to replace as per below mentioned duration, the following penalties will be imposed. It will be calculated on quarterly (3 month) basis and maximum penalties will be 10 % of the cost of Equipment per year.

2.4.5.Replacement Services

During warranty and AMC period, if the Bidder fails to replace /Equipment card/Part in next business day, the following penalties will be imposed.

Equipment			Duration of repair	Deduction/Penalties		
All	Modules	and	More than 1 days and up to	2% of the cost of affected		
acces	sories		7 days	part/module		
All	Modules	and	More than 7 days and up	10% of the cost of affected		
acces	sories		to 15 days	part/module		
All	Modules	and	More than 16 days and up	25% of the cost of affected		
accessories			to 30 days	part/module		
All	Modules	and	More than 30 days	100% of the cost of affected		
acces	sories			part/module		

Note:

- a. In event of that bidder fails on both service SLA and replacement services the maximum aggregate penalties would be limited to equipment cost.
- b. OEM should provide facility to RailTel for direct fault case open on TAC Support in case emergency.

2.5. Maintenance Supervision

- 2.5.1. After the proposed network is commissioned and placed in service and after Provisional Acceptance Certificate (PAC) is issued, the contractor shall be responsible for proper maintenance supervision of the network free of cost for a period of twelve months from the Successful commissioning of the solution.
- 2.5.2.To summarize, the total period of warranty as per BDS in Chapter-5, will comprise of first 12 months of Maintenance Supervision (after issue of PAC) extendable by RailTel for reasons as explained, as per para 2.5 above, posts which FAC will stand issued.

3. Long Term Maintenance Support

- 3.1 Tenderer (OEM) shall provide maintenance support after successful completion of the warranty obligations for a minimum period of 5 years. The long term maintenance support shall be comprehensive and include all hardware and software of equipment supplied against this contract. RailTel should be extended the benefits of periodical software patches/updates made by OEM on the system from time to time for equipment security/performance without any additional cost to RailTel.
- 3.2 Tenderer/OEM(through its Indian subsidiary), shall be paid @ 3.5% of supply cost per annum towards Long Term Maintenance Support after completion of warranty period, to undertake repairs/replacements of all type of module/ card/assembly/ subassembly and update/upgrade of software released during this period and /or which may fail in the network after the warranty. Only incremental cost in % over and above this, if perceived by the OEM and Tenderer, may be indicated in Schedule of Requirement and shall be added to the equipment cost towards evaluation of tender. If however the tenderer feels that his AMC Cost is less than 3.5% per annum, he should give suitable discount in equipment pricing. For AMC he will be paid @ 3.5% per annum only. If the Tenderer quotes a higher base rate for AMC, he will be paid at his quoted rate per

annum and four year differential cost shall be added to offered cost for evaluation. AMC would have to be valid for minimum period of 4 years after the warranty.

In case tenderer quotes AMC rates lower than 3.5%, no advantage will be given to him for evaluation purposes. In case the tenderer wins the contract his cost will be reduced by differential (w.r.t. 3.5%) AMC rates & he will be paid accordingly. AMC charges to him, however be paid only @ 3.5% per annum.

- 3.3 Separate agreement for AMC (Long term Maintenance Support) before expiry of warranty period shall be entered with OEM/the authorized partner of OEM by RailTel. A fresh Bank Guarantee valid for five years for 10% of the Long Term Maintenance Support cost of four years quoted by the tenderer, shall be required to be submitted by bidder for due fulfillment of long term maintenance support obligation.
- 3.4 Quarterly payment for AMC Charges would be made by RailTel after successful completion of AMC Services of that quarter and on the certificate furnished by concerned RailTel representative of the CNOC.

Note: The acceptance of the above clause is mandatory and specific acceptance from OEM is required to be enclosed as per Form no.3. Any deviation / non acceptance will lead to rejection of the bid summarily

3. Delivery Period

The materials as per SOR are required to be delivered within period as indicated in Bid Data Sheet (BDS, Chapter 5) to the site /transported to different locations which will be provided by RailTel to the successful bidder.

4. Payment Terms

- 4.1. Payment shall be made in Indian Currency (Rs) 75% payment of the value of the supply items would be made on receipt of material by the consignee(at site / the stores) duly inspected and on submission of the following documents subject to any deductions or recovery which RailTel may be entitled to make under the contract:
 - Invoice
 - Delivery Challan
 - Excise Gate pass/Excise/Custom Invoice
 - Packing list.
 - Factory Test Report/Certified manufacturer Test Report
 - Purchaser's Inspection certificate
 - Consignee receipt
 - Warranty certificate of OEM
 - Insurance certificate
 - Certificates duly signed by the firm certifying that equipment/ materials being delivered are new and conform to technical specification.
- 4.2. 15% payment of the value of Supply items of the PO shall be made by RailTel on successfully Installation & Commissioning at site, 5% payment of value of Supply items of the PO on issue of Provisional Acceptance Certificate (PAC) and the last 5% payment of the value of Supply items of the PO shall be made by RailTel on issue of Final Acceptance Certificate (FAC) which will be issued by GGM/DNM.
- 4.3. 15% payment of value of supply items of the PO which could not be installed within 90 days due to site readiness or other reason on account of RailTel will be made with approval of GGM/DNM and remaining (5% + 5%) on issue of PAC and FAC.
- 4.4. RailTel shall make payments after the submission of invoice with required documents as per contract. Accounting/Bill passing unit for SOR for supplies is Corporate Office. All

- Bills shall be submitted to the GGM/DNM for certifying and verification and onwards submission to Finance of RailTel Corporate Office for releasing the payment.
- 4.5. Form "C" shall be issued for respective stations, if required, by respective Executive Director of the Region only.
- 4.6. The breakup of taxes has to be furnished and same should be reflected in the bills so that any CENVAT/input credit can be availed by RailTel.
- 4.7. Payment of Services Items
 - 4.7.1.Payment of service items shall be made in Indian Currency (Rs.) only. 90% payment of SOR item towards "Installation, Testing & Commissioning" shall be made by Corporate Office on successful Installation, testing & commissioning, 5% on issue of PAC and final 5% on issue of Final Acceptance Certificate.
 - 4.7.2. Payments for Resident Engineer will be paid on quarterly basis after satisfactory go ahead from competent authority.
 - 4.7.3.Payment of SOR item towards "AMC " would be paid quarterly by the Corporate Office after satisfactory completion of AMC Services of that quarter and on certificate furnished by CNOC.

5. Performance Bank Guarantee (Security Deposit)

- 5.1. The successful bidder shall have to submit a performance Bank Guarantee (PBG) within 30 days of the issue of Purchase order @ 10% of the value of the PO for the satisfactory performance of materials covered in SOR given in Chapter 2 valid for a period of 4 months beyond warranty period. Extension of time for submission of PG beyond 30(thirty) days and up to 60 days from the date of issue of Letter of acceptance may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 15% per annum shall be charged for delay beyond 30(thirty) days. i.e from 31st day after issue of LOA. In case the contractor fails to submit the requisite PG even after 60dyas from the date of issue of LOA, the contract shall be terminated duly forfeiting EMD and other dues, if any, payable against that contract. The failed contractor shall be debarred from participating in re-tender for that work.
- 5.2. The earnest money shall be released on submission of PBG. The Performa for PBG is given in Chapter 6 Form No. 1. If the delivery period gets extended, the PBG should also be extended appropriately
- 5.3. The Performance Bank Guarantee (security deposit) will bear no interest.
- 5.4. This PBG would be released after satisfactory completion of contract including warranty period and only after submission of 10 % PBG towards AMC.

6. Taxes & Duties

- 6.1. The price quoted in the offer should be firm, fixed indicating the breakup and inclusive of all taxes & duties like import, custom, C.V.D., Anti-Dumping duty(if any), ED & sales tax, VAT etc. The offer should be inclusive of packing, forwarding, freight upto destination, insurance charges.
- 6.2. The Octroi / entry tax shall be paid extra as per actual on production of proof of payment / document.
- 6.3. Anti-Dumping duty if applicable on the equipment proposed to be supplied by OEM/Tenderer as per extant instructions of Ministry of Commerce/Finance Government of India, has to be borne by the tenderer and shall be deducted from the amount payable to the contractor at the time of making payment to the firm, if this duty amount is paid to Custom Authority by RailTel.
- 6.4. Any changes in the statutory taxes & duties during the contract period shall be on RailTel account with in the original DOC. Beyond DOC, changes in statutory taxes & duties shall be on RailTel's account only when the delay is an account of RailTel.

7. Insurance

- 7.1. The Contractor shall take out and keep in force a policy or policies of insurance from the date, the delivery of material starts (including the transit portion) against all liabilities of the Contractor or the Purchaser. The contractor shall take out and keep in force a Policy or policies of Insurance for all materials covered in schedule of requirement irrespective of whether used up in the portion of work already done or kept for the use in the balance portion of the work until such material are provisionally handed over to RailTel. The goods will be issued by purchaser to supplier and risk of goods shall remain with supplier until the issue of PAC by RailTel. Insurance policy has to be kept valid by the contractor till issue of PAC by RailTel.
- 7.2. The Contractor should insure the stores brought to site, against risks as required under the Emergency Risk (Goods) Insurance Act in force from time to time up to contract value.
- 7.3. It may be noted that the beneficiary of the insurance policy should be RailTel or the policies should be pledged in favor of RailTel. The contractor shall keep the policy/policies current till the equipment are handed over to the purchaser. It may also be noted that in the event of contractor's failure to keep the policy current and alive, renewal of policy will be done by purchaser for which the cost of the premium plus 20% of premium shall be recovered from the contractor.

8. Liquidated Damages

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 for any reason whatsoever attributed to failure of tenderer. RailTel will have the right to cancel the order, place order on alternative source besides levying the liquidated damages as above.

9. Transportation

The rates quoted should be CIP destination. The destination shall be defined POP / nominated office of RailTel in the proposed sections which shall be indicated by RailTel's representative.

10. Statutory Deduction

These will be made at source as per the rules prevalent in the area of work.

11. Qualification Criteria

Qualifying criteria under this clause lays down minimum acceptable qualifications in various areas to ensure that qualified tenderer has necessary experience, technical expertise, equipment and financial and human resources to successfully complete the project. Bids from bidder not meeting these qualification criteria shall be summarily rejected.

11.1. Technical Capability

- 11.1.1. The Tenderer/bidder should be an Original Equipment Manufacturer (OEM) or Authorized partner of OEM specifically authorized by OEM for bidding in this tender (as indicated in Bid Data Sheet (BDS) Chapter 5). The OEM should have proven facilities for Engineering, manufacture, assembly, integration and testing of offered system and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to be supplied.
- 11.1.2. The Tenderer/bidder should have supplied and provision of similar offered equipments of security solution commercially with satisfactory working as indicated in Bid Data Sheet (BDS) Chapter 5 to Government/PSUs/Telecom Service

- Providers/Public Listed Company during the last three years from the date of opening of tender.
- 11.1.3. The Bidder should have registered office in India for a minimum period of 3 years as on originally scheduled date of bid opening.
- 11.1.4. The Bidder should have authorization from respective OEMs and should submit the vetted BOM from their respective OEMs.
- 11.1.5. Each OEM can authorize up to a maximum of three (3) authorized partners to bid the tender.
- 11.1.6. The Bidder or their promoters having equity stake or operating partnership in bidder, should not be holding valid License for Telecom service provider/ISP/NLD, Services License of Government of India for Telecom Operation.
- 11.1.7. RailTel reserves the right:
 - a) To verify, if so desired, the correctness of documentary evidence furnished by the tenderer.
 - b) To verify the successful operation and performance of qualifying projects and tenderer shall arrange permission for the same.
 - c) To carry out capability assessment of the bidder(s) including referral to inhouse information.
 - d) RailTel shall not be responsible for any delay in the receipt of tenders and reserves the right to accept/reject any or all tenders without assigning any reason.
- 11.1.8. The bidder shall furnish documentary proof of backend support including software upgrades and availability of spares for a period of 5 years from the respective OEMs of the products offered.
- 11.1.9. The tenderer/OEM should submit the details of supply of offered equipment executed as indicated in Bid Data Sheet (BDS) Chapter 5, along with certificates from the original user for whom the project was undertaken certifying the date of award of contract, date of completion, and the present working state of the system which should clearly bring out performance of the equipment. The certificates are to be submitted in original or their true copies duly signed by the tenderer.

11.2. Financial Criteria

11.2.1. The bidder should be a company registered under the Companies Act, 1956 or a partnership firm registered under Indian Partnership Act 1932 or Limited Liability Partnership Act 2008 with registered office in India and in operation for at least 3 years as on 31.03.2016 and should have their registered offices in India.

Valid documentary proof of:

- Certificate of incorporation
- Certificate of Commencement
- Certificate consequent to change of name, if applicable
- Copy of Memorandum of Association
- 11.2.2. The company must be registered with appropriate authorities for all applicable statutory duties/taxes.
- 11.2.3. Valid documentary proof of:
 - a) Central Sales Tax/VAT number.
 - b) Service Tax registration number.
 - c) Income Tax registration/PAN number
- 11.2.4. Income Tax returns for the last three years
- 11.2.5. The tenderer should present at least one (1) project worth at least INR 35 lakhs showcasing supply, design, installation, testing, commissioning, implementation and operations projects for security solutions commercially in India in the last 3 years.

Copy of work orders supported with relevant documentary evidences for the design parameters as mentioned in criteria 4 and the completion certificates by the client.

- Documentary evidence should clearly indicate the nature of systems implemented for each project
- 11.2.6. The sum total of the turnover of contractual payment received during the last preceding 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender should be a minimum of the value as indicated in Bid Data Sheet (BDS) Chapter 5.
- 11.2.7. Tenderer should produce Audited Balance Sheet and Income statement of all the preceding three financial years.
- 11.2.8. The tenderer shall furnish such documents as to establish the financial soundness of their company. The latest balance sheet audited or certified by a neutral agency shall be furnished.
- 11.2.9. In the event of foreign Original Equipment Manufacturer (OEM), Indian Subsidiary is allowed to participate with the experience and financial credential of parent company with specific authorization for doing so from the OEM. The specific authorization addressed to RailTel should be submitted by the tenderer.

12. System Performance Guarantee

- 12.1. The tenderer shall give unqualified and unconditional guarantee that when the equipment / material supplied by him is installed and commissioned at site, it shall achieve the desired objective and that in the event of performance of the system when installed not complying with the end objective or with the specifications, he shall provide further inputs to enable the RailTel to realize the end objectives with full compliance of the specifications contained in these documents. No additional payment will be made to the contractor for supply of any additional goods and service required in this regard.
- 12.2. This certificate in the Proforma given in Chapter 6 Form No. 2, shall accompany the final offer. Absence of this certificate which will form part of the agreement shall disqualify the tenderer automatically.

13. Evaluation of Offer

- 13.1. For the purpose of relative ranking of offers, all inclusive value for entire supply, supervision of installation, testing & commissioning and warranty period support, training, AMC shall be taken into account.
- 13.2. Additional features offered by the bidder, over and above the ones asked for in the tender documents, shall not be considered for evaluation of bids.
- 13.3. The tenderer should make available the offered products, if desired during technical evaluation of offered equipment for testing and benchmarking at any testing facility approved by RailTel.
- 13.4. The bidders should quote for all items & the offer will be evaluated in totality. The bidders should indicate brand name, type/model number of the products offered. Optional items will be considered for evaluation of offers. The equipment should be supplied as per Technical Specifications given in Chapter-3.

14. Security Considerations & Security Agreement

- 14.1. While evaluating the tender, regards would be paid to National Defence and Security considerations.
- 14.2. The directives issued from time to time by the Department of Telecommunications (DoT), Ministry of Communications and IT or any other Ministry of Govt. of India on security considerations shall be applicable to the present tender. Accordingly, as per the extent amendment of the National Long Distance (NLD) Service License Agreement for Security related concerns for expansion of Telecom Services in various zones of the country issued vide Department of Telecommunication, Ministry of Communication and IT, Govt. of India's letter no. 10-54/2010-CS-III (NLD) dated: 31.05.2011, the successful tenderer/OEM shall comply with the provisions stated in the above mentioned directive of

- DoT and shall have to enter into an agreement with RailTel as per the template agreement between Telecom Service Provider and the vendor of equipment, product and services (available on DoT website). The tenderer must submit a declaration along with their bid.
- 14.3. The Network is being provided primarily to meet the requirement of Indian Railways. Accordingly, the network shall take into consideration the National Security requirement and National Security aspects indicated by the Indian Railways.

15. Purchaser's Right to Vary Quantities

15.1.The purchaser shall be at liberty to enhance or reduce the quantity mentioned in the purchase order as indicated in Bid Data Sheet (BDS) Chapter 5 without assigning any reasons. The bidder shall comply with such modifications unconditionally provided these are made before completion of the deliveries under the purchase order. Any such change in quantity shall have no impact on the rates mentioned in the purchase order for any such item.

16. Purchaser's Right to accept any offer / Bid and to reject any or all offer/ Bid

16.1. The Purchaser reserves the right to accept or reject any offer / bid, and to annul the bidding process and reject all offers / bids, at any time prior to award of order without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds for the Purchaser's action.

17. Execution of Purchase Order

- 17.1. The successful bidder has to submit the copy of the Purchase order duly signed on each page including Annexures & will submit the Performance Bank Guarantee as per Clause no. 6 for due fulfillment of the PO.
- 17.2.If the successful bidder fails to submit the accepted copy of PO and required PBG within 30 days from the date of issue, it shall constitute a breach of the agreement affected by the acceptance of the tender in which case the full value of the earnest money accompanying the tender shall stand forfeited without prejudice to any other rights or remedies. The Tenderer shall also submit the inspection plan, Implementation plan etc, within this 30 days period.
- 17.3.In the event of any tenderer, whose tender is accepted, refuses to execute the PO as herein before provided, RailTel may determine that such tenderer has abandoned the Purchase Order and thereupon his tender and acceptance thereof shall be treated as cancelled and RailTel shall be entitled to forfeit the full amount of the Earnest Money and to recover the damages for such default.

18. Annulment of Award

18.1.Failure of the successful bidder to comply with the requirement of various clauses of tender document shall constitute sufficient ground for the annulment of the award and forfeiture of EMD in which event the Purchaser may make the award to any other bidder at the discretion of the Purchaser or call for new offers/ bids.

19. Earnest Money Deposit (EMD)/ Bid Security

- 19.1. The tenderer shall furnish a sum as given in Bid Data Sheet (BDS) Chapter 5 as Earnest Money in the form of Demand Draft from any scheduled bank in India in favour of "RailTel Corporation of India Limited" payable at New Delhi.
- 19.2. The EMD may be forfeited if a bidder withdraws his offer or modifies the terms and conditions of the offer during validity period and in the case of a successful bidder, if the bidder fails to accept the Purchase order and fails to furnish performance bank guarantee (security deposit) in accordance with clause 6.

- 19.3.Offers not accompanied with Earnest Money shall be summarily rejected.
- 19.4.Earnest Money of the unsuccessful bidder will be discharged / returned as promptly as possible but not later than 30 days after the expiry of the period of offer / bid validity prescribed by the Purchaser.
- 19.5. The successful bidder's EMD will be discharged upon the bidder's acceptance of the purchase order satisfactorily and furnishing the performance bank guarantee in accordance with clause 6.
- 19.6. Earnest Money will bear no interest.

20. Preference to Domestic Manufacturers for Telecom Equipment

20.1. "Preference to domestically manufactured electronic goods in procurement due to security considerations" shall be applicable as per Government of India policy as on the date of opening of price bid. The manufacturer claiming to qualify under the scope of such rules for PMA (Preferential Market Access) must submit the declaration of VA (Value Addition) as required under the issued notification for the specified period ((2012-13,2013-14 & 2014-15).)

21. Offer/Bid Prices

- 21.1. The bidder shall give the prices indicating all levies and taxes, packing forwarding, freight and insurance etc. The basic unit price and all other components of the price need to be individually indicated against the goods it proposes to supply under the tender document as per schedule given in Chapter 2. The price shall be quoted in Indian Rupees or in any major foreign currency for the imported items (FOR/CIP destination). Octroi will be payable at actual on production of proof of payment but delivery within Octroi limits must be done only with prior approval of Executive Director of the Region.
- 21.2. The breakup of price of each item of SOR in terms of basic Unit price, Excise duty, Sales Tax, Freight, Custom Duty, Forwarding, Packing, Insurance and any other Levies/charges already paid or payable by the tenderer shall be quoted in the SOR Chapter 2. Any changes in statutory duties/taxes after opening of technical bid will be to RailTel's account within the contracted delivery period.
- 21.3.All prices and other information like discounts etc. having a bearing on the price shall be written both in figures and in words in the prescribed offer form (SOR). In case of difference in words and figures, the amount written in words will be taken into consideration. In the event of any discrepancy between total unit cost and total cost, the value shown in total unit cost will be taken for evaluation purpose.
- 21.4.Fall Clause:- The tenderer shall undertake that in case the tenderer offers same type of material at a lower price to any other purchaser including Central/State/ Government Organization or Public Sector Undertaking, during the validity of purchase order, the equal benefit of lower prices will be passed on to RailTel. The tenderer will submit an undertaking to this effect while claiming the payment.

22. Clause wise Compliance

22.1.Clause wise compliance statement of the Technical Specifications (Chapter 3) and Commercial Terms & Conditions (Chapter 4) shall be enclosed with the offer along with the technical literature of the material and other documents in support of relevant clauses.

23. Inspection

23.1.Pre-shipment / pre-dispatch inspection shall be carried out at manufacturer's / tenderer's works/site by RailTel's authorized representative. At least part of the material should be offered for inspection within 60 days of issue of confirmed Purchase Order. Traveling, lodging & boarding expenses of RailTel's representative and charges for 3rd party inspection if any shall be borne by RailTel but necessary facilities to carry out

- tests/witness inspection shall be provided by the manufacturer/ tenderer, free of cost. Under exceptional circumstance, if it is not possible to carry out pre-dispatch inspection at manufacturer's premises, Exemption for the same shall be obtained from competent authority.
- 23.2.Along with inspection call, the tenderer/manufacturer shall submit details of test procedures, test programme, test parameters together with permitted values, etc., and their Quality Assurance Plan.
- 23.3.In case material fails during inspection, the fresh lot of material shall be offered without any extra cost, by the manufacturer/tenderer. In such a case, total cost of re-inspection including travel, lodging & boarding of the inspecting officials shall be to manufacturer's/tenderer's account.

24. Force Majeure

- 24.1.If during the Agreement, the performance in whole or in part, by either party, of any obligation under this is prevented or delayed, by reason beyond the control of the parties including war, hostility, acts of the public enemy, civic commotion, sabotage, Act of State or direction from Statutory Authority, explosion, epidemic, quarantine restriction, strikes and lockouts (as are not limited to the establishments and facilities of the parties), fire, floods, earthquakes, natural calamities or any act of GOD (hereinafter referred to as EVENTS), provided notice of happenings of any such EVENT is given by the affected party to the other, within twenty one (21) days from date of occurrence thereof, neither party shall have any such claims for damages against the other, in respect of such non-performance or delay in performance. Provided service under this Agreement shall be resumed as soon as practicable, after such EVENT comes to an end or ceases to exist.
- 24.2.In the event of a Force Majeure, the affected party will be excused from performance during the existence of the Force Majeure. When a Force Majeure occurs, the affected party after notifying the other party will attempt to mitigate the effect of the Force Majeure as much as possible. If such delaying cause shall continue for more than sixty (60) days from the date of the notice stated above, the party injured by the inability of the other to perform shall have the right, upon written notice of thirty (30) days to the other party, to terminate this Agreement. Neither party shall be liable for any breach, claims, damages against the other, in respect of non-performance or delay in performance as a result of Force Majeure leading to such termination.

25. Settlement of Disputes

- 25.1.Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996 as amended and the award made in pursuance thereof shall be binding on the parties. The venue of such arbitration or proceedings thereof shall be New Delhi.
- 25.2.All arbitration proceedings shall be conducted in English. Recourse against any Arbitral award so rendered may be entered into court having jurisdiction or application may be made to such court for the order of enforcement as the case may be.
- 25.3. The Arbitral Tribunal shall consist of the sole Arbitrator appointed by mutual agreement of the parties.
- 25.4. Each of the parties agree that notwithstanding that the matter may be referred to Arbitrator as provided herein, the parties shall nevertheless pending the resolution of the controversy or disagreement continue to fulfill their obligation under this Agreement so far as they are reasonably able to do so.

26. Governing Laws

26.1. The Purchase Order shall be interpreted in accordance with the laws of India. The courts at New Delhi shall have exclusive jurisdiction to entertain and try all matters arising out of this contract.

27. Termination for Default

The purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Tenderer, terminate this contract in whole or in part.

- 27.1.If the tenderer fails to deliver any or all of the goods within the time period(s) specified in the contract.
- 27.2. If the tenderer fails to perform any other obligation(s) under the contract; and
- 27.3.If the tenderer, in either of the above circumstance(s) does not remedy his failure within a period of 30 days (or such longer period as the Purchaser may authorize in writing) after receipt of the default notice from the Purchaser.
- 27.4.In case of any of the above circumstances the RailTel shall pay the supplier for all products and services delivered till point of termination as per terms and conditions of the contract. However any recovery and losses occurred to RailTel will be recovered from Contractor up to the value of contract.

28. Risk & Cost

28.1.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 Purchase 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 tenderer shall be forfeited/ Performance Bank Guarantee shall be encashed. The failed tenderer shall not be permitted to take part in the tender for balance work.

29. Termination for Insolvency

29.1.The purchaser may at any time terminate the Purchase order by giving written notice to the tenderer, without compensation to the tenderer, if the tenderer becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

30. Rates during Negotiation

The tenderer/s shall not increase his/their quoted rates including payment terms in case the RailTel Administration negotiates for reduction of rates. Such negotiations shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted will be binding on the tenderer/s.

31. Pre-Bid Conference & Clarification Requests

Pre- bid conference for this tender will be held on date, time & venue as given in Bid Data Sheet (BDS) Chapter 5.

It is solicited that the written queries/ clarifications may be sent to the RailTel's office latest by the date as indicated in the Bid Data sheet (BDS) through e-mail to pawan@railtelindia.com with copy to asablania@railtelindia.com (in word format) & hard copy by post. All relevant clarifications sought will be addressed during the pre-bid meeting.

32. Submission of Offers

- 32.1.All offers in the prescribed forms should be submitted before the time and date fixed for the receipt of the offers.
- 32.2.In case the schedule of requirement quoted by tenderer is incomplete with reference to tender document, the offer is liable to be rejected.
- 32.3.ATTESTATION OF ALTERATION: No scribbling is permissible in the tender documents. Tender containing erasures and alterations in the tender documents are liable to be rejected. Any correction made by the tenderer/tenderers in his/their entries must be signed (not initialed) by him/them.
- 32.4. The tenderer shall submit his tender in two copies in sealed cover on specified date & time as mentioned in BDS Chapter 5. Each copy of the tender shall be complete in all respects. The copies should be marked "Original" & "Duplicate". The original tender paper purchased from this office or down loaded from the RailTel web site shall be returned duly signed on each page along with the original offer.
- 32.5.The offer shall be submitted in two parts, Part-I Credential Bid (Techno-Commercial Bid) & Part-II Price Bid. Both bids shall be sealed in separate envelopes and both envelopes put in one large envelope. Both envelopes should bear the Tender No., its description and date of closing/opening.
 - 32.5.1. Part-I "CREDENTIAL BID"; -The bid shall consist of the following:-
 - 32.5.2. Offer Letter complete.
 - 32.5.3. Schedule of Requirements with quantities but with prices blanked out (this will be a replica of price bid with prices blanked out).
 - 32.5.4. Earnest Money in prescribed form.
 - 32.5.5. Audited balance sheet duly attested by Notary Public.
 - 32.5.6. Constitution of Firm and Power of Attorney.
 - 32.5.7. Clause wise compliance to tender conditions.
 - 32.5.8. Copies of purchase orders and other documents in support of meeting qualifying criteria.
 - 32.5.9. Complete technical data and particulars of the equipment offered, as specified in the Tender papers together with descriptive literature, leaflets, Drawings, if any, complete with list etc.
 - 32.5.10.Documentary proof of equipment being proven and working for more than 6 months in India or outside India along with user certificate and Contact Details of user/firm.
 - 32.5.11.Technical proposal of tenderer in conformity with system design or alternative proposal of the tenderer, if any.
 - 32.5.12. System Performance Guarantee as per Chapter 6 Form no. 2
 - 32.5.13. The manufacturer claiming to qualify under the scope of rules for PMA (Preferential Market Access) must submit the declaration of VA (Value Addition) as required under the issued notification for the specified period (2012-13,2013-14 & 2014-15).
 - 32.5.14. Any other information desired to be submitted by the tenderer.
 - 32.5.15.NIL Deviation certificate

Note:The Credential Bid Part-I under no circumstances should contain any rates offered. Otherwise the tender offer shall be summarily rejected. This envelope shall be clearly superscribed with "CREDENTIAL BID (Part-I)" along with the Tender No. and its description in bold letters and seal'ed.

32.6. Part -II "Price Bid" must be submitted online mode only

33. Constitution of Firm and power of Attorney

- 33.1.Any individual(s) signing the tender or other documents connected therewith should specify whether he is signing:-
 - 33.1.1. As sole proprietor of the concern or as attorney of the sole Proprietor.
 - 33.1.2. As a partner or partners of the firm.

- 33.1.3. As a Director, Manager or Secretary in the case of Limited Company duly authorized by a resolution passed by the Board of Directors or in pursuance of the authority conferred by Memorandum of Association.
- 33.2.In the case of a firm not registered under the Indian Partnership Act, all the partners or the attorney duly authorized by all of them should sign the tender and all other connected documents. The original Power of Attorney or other documents empowering the individual or individuals to sign should be furnished to the Purchaser for verification, if required.
- 33.3.The RailTel will not be bound by Power of Attorney granted by the tenderer or by the changes in the composition of the firm made subsequent to the execution of the contract agreement.
- 33.4.In case where the Power of Attorney partnership deed has not been executed in English, the true and authenticated copies of the translation of the same by Advocate, authorized translators of Courts and Licensed Petition Writers should be supplied by the Contractor(s) while tendering for the work.
- 33.5. The duly notorised Power of Attorney shall be submitted in original or duly signed.

34. Opening of Tender

- 34.1.Tenderer's Credential Bid (Part-I) will be opened on specified date & time as mentioned in BDS Chapter 5 of the tender in presence of such Tenderers/ Representatives who choose to be present.
- 34.2.After scrutinizing Credential Bid, "Price Bid (Part-II)" will be opened on a time and date to be informed separately in presence of those Tenderers who qualify in "Credential Bid (Part-I)" as per qualifying criteria laid down in Clause 12 of this Chapter and who choose to be present.
- 34.3. Price Bid (part-II) envelops of those Tenderers who are not found to meet tender conditions will not be opened.

35. Non-Transferability & Non-Refund ability

35.1. The tender documents are not transferable. The cost of tender paper is not refundable.

36. Errors, Omissions & Discrepancies

36.1.The Contractor(s) shall not take any advantage of any mis-interpretation of the conditions due to typing or any other error and if in doubt, shall bring it to the notice of the purchaser without delay. In case of any contradiction only the printed rules, and books should be followed and no claim for the mis-interpretation shall be entertained.

37. Wrong Information by Tenderer

If the tenderer/s deliberately gives/give wrong information in his/their tender which creates/create circumstances for the acceptance of his/their tender the RailTel reserves the right to reject such tender at any stage.

38. The envelope shall be addressed to the Purchaser at the following address:

Group General Manager/DNM RailTel Corporation of India Ltd. Plot No. 143, Institutional Area, Opposite-Gold Souk, Sector-44, Gurgaon-122003

39. The envelope shall bear name of the tender, the tender no. and the words "DO NOT OPEN BEFORE" (due date).

40. Offer / Bid should be delivered to the above address so as to reach up to 15:00 Hrs of due date. The offers / bids shall be opened at 15:30 Hrs on the same day in the above office in the presence of those representatives of the bidders who choose to be present. Offers / Bids received after due date and time shall be dealt as per extant rules.

In case the date of opening happens to be a holiday, the tender will be received and opened at the same time on the next working day.

41. Limitation of Liability

Provided the following does not exclude or limit any liabilities of either party in ways not permitted by applicable law:

- 41.1. The Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and
- 41.2. The aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to any obligation of the Supplier to indemnify the Purchaser with respect to intellectual property rights infringement.

CHAPTER-5

BID DATA SHEET (BDS)

The section consists of provisions that are specific to various Clauses of the tender document COMMERCIAL TERMS & CONDITIONS Chapter 4.

Clause	Description	
Clause 1.2	Validity of offer 90 days.	
Clause 2	Warranty 36 months after Installation of Equipment and issue of the PAC.	
Clause 3 Delivery Period Delivery and supervision of installation and commissioning was days of issue of LOA		
Clause 11.1.1	Technical Capability The Tenderer/bidder should be an Original Equipment Manufacturer (OEM) or Authorized partner of OEM specifically authorized by OEM for bidding in this tender. The OEM should have proven facilities for Engineering, manufacture, assembly, integration and testing of offered system and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to be supplied	
Clause 11.1.2	The Tenderer/bidder should have supplied and provision of similar offered security solution with satisfactory working as to Government/PSUs/Telecom Service Providers/Public Listed Company during the last three years from the date of opening of tender.	
Clause 11.2.5	i) The tenderer should present at least one (1) project worth at least INR 35 lakhs showcasing supply, design, installation, testing, commissioning, implementation and operations projects for security solutions commercially in India in the last 2 years. Copy of work orders supported with relevant documentary evidences for the design parameters as mentioned in criteria 4 and the completion certificates by the client. Documentary evidence should clearly indicate the nature of systems implemented for each project ii) The sum total of the turnover of contractual payment received during the last preceding 3 financial years from the date of opening of tender should be Minimum of Rs. 4.5 Cr.	
Clause 15	Purchaser's Right to Vary Quantities Up to a maximum extent of +/- 30% of SOR quantity.	

Tender No. RAILTEL/TENDER/OT/CO/DNM/2016-17/OSG/337

Clause	Description	
Clause 19.1	Earnest Money Deposit (EMD)/ Bid Security	
	Rs. 1,80,000/- (Rs. One Lakh eighty thousand only)	
	Pre- Bid Conference & Clarification Requests	
	Last date of Submission of Clarification	
Clause 31	Date: 04.08.2016	
	Pre- bid Conference date	
	Date: 05.08.2016 Time: 15:00 hours	
	Venue: Corporate Office RailTel	
	Last Date of Submission of Offer	
Clause 32.4	Date: 23.08.2016	
	Time: 15:00 hours	
	Venue: same as above	
	Date of Opening of Tender	
Clause 33.1	Date: 23.08.2016	
	Time: 15:30 hours	
	Venue: same as above	

CHAPTER- 6 Form No. 1

PROFORMA FOR PERFORMANCE BANK GUARANTEE BOND (On Stamp Paper of Rs one hundred)

(To be used by approved Scheduled Banks)

1.	In consideration of the RailTel Corporation of India Limited, having its registered office at 6th Floor, IIIrd Block, Delhi Technology Park, Shastri Park,Delhi-110053 (Herein after called RailTel) having agreed to exempt
2.	We,
3.	We,
4.	We,
5.	We, (indicate the name of Bank) further agree with the RailTel that the RailTel shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms

and conditions of the Agreement or to extend time of to postpone for any time or from time to time any of the powers exercisable by the RailTel against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension to the said Contractor(s) or for any forbearance, act or omission on the part of RailTel or any indulgence by the RailTel to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.

This Guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractor(s) / Tenderer(s).

(indicate the name of Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the RailTel in writing.

		Dated the	day of	2015
for			(indicate the name of the Ban	ık)
	Witness			
1.	Signature Name			
2.	Signature Name			

Form No. 2 PROFORMA FOR THE SYSTEM PERFORMANCE GUARANTEE (On Stamp Paper of Rs. One hundred)

	The Director,
	RailTel Corporation of India Limited
	I / We
	(Signature of Firm's Authorized Officer) Seal
	Signature of witness:
1.	
2.	

Annexure-1

Form No. 3

PROFORMA FOR THE LONG TERM MAINTENANCE SUPPORT (To be signed by the O.E.M.)

То
The Director, RailTel Corporation of India Limited
I / We
(Signature of Firm's Authorized Officer) Seal
Signature of witness:
1
2