Tender No: RailTel/Tender/OT/ER/HQ/2016-17/982

Dt. 22.12.2016

# **TENDER DOCUMENT**

For

Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata



# RAILTEL CORPORATION OF INDIA LIMITED

(A Government of India Enterprise) EASTERN REGION

3<sup>rd</sup> Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road,

Kolkata - 700 071.

Phone (033)44041499 FAX: (033)44041490

Cost of Tender Document (Including VAT): Rs. 5250 (Rupees Five Thousand Two Hundred Fifty only)

Tender No: RailTel/Tender/OT/ER/HQ/2016-17/ 982 Dt. 22.12.2016 COPY NO. :: ISSUED TO



A Government of India
Undertaking

Tender No: RailTel/Tender/OT/ER/HQ/2016-17/ 982 Dt. 22.12.2016

# **Tender Notice**

### RAILTEL CORPORATION OFINDIA LIMITED

3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata–700 071 Phone (033)44041499FAX: (033)44041490

Tender No	o.: RailTel/Tender/OT/ER	/HQ/2016-17/ 982	Dt. 22.12.2016

RailTel Corporation of India Limited, Eastern Region, Kolkata invites sealed Tenders in two packets system for the work of "Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata".

Tender documents containing Schedule of Requirements, Instructions to Tenderers, Tender conditions and Technical Specifications are enclosed.

a)	Estimated cost of the work	Rs. 59,57,330/-
b)	Earnest Money Deposit	Rs.1,19,150/-
c)	Cost of tender Document	Rs.5,250/- (inclusive of VAT)
d)	Receipt of Tender document	Up to 15:00 hrs. on 08.02.2017
e)	Opening of Tender Document	At 15:30 hrs. on 08.02.2017
f)	Validity of offer	90 days.

The offer shall be submitted at RailTel Corporation of India Ltd., Eastern Regional Office at 3<sup>rd</sup>Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata - 700071 by due date.

All pages of the original tender document duly signed by tenderer should be submitted along with the offer. Tender received without EMD & Cost of Tender Document will be summarily rejected. The envelope containing offer shall be super-scribed as "Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, and Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata"

Tender document is not transferable. Tender documents can be downloaded from website: <a href="www.railtelindia.com">www.railtelindia.com</a>. Tenderer (s) who are submitting downloaded (from Web site) Tender documents must enclose with the tender form, a demand draft/Pay order issued by any nationalized/scheduled bank in favour of RailTel Corporation of India Ltd. payable at Kolkata towards the cost of the Tender documents.

Tender offers not accompanying with the requisite tender fee as mentioned above shall summarily be rejected. Only the original computer printout of the Tender documents downloaded from the website must be submitted. Photo copies are not acceptable. Tenders submitted in photo copies of

downloaded documents are liable to be rejected. If during the process of tender finalization or even after placing the order also if it is detected that tenderer has submitted tender documents after making any changes/additions /deletions in the tender documents down loaded from website, his offer will be summarily rejected and the earnest money deposited by the tenderer shall be forfeited by RailTel.

For further detail please visit our website at www.railtelindia.com

For any clarification you may contact this office. Thanking you,

For RailTel Corporation of India Ltd.

(Ganesh Chakravorty)
Dy. General Manager / Marketing
for RailTel Corporation of India Ltd.



# **INDEX SHEET**

Sl No	Chapter No	Description	Page No.
1		<b>Notice Inviting Tender</b>	2
2	1	Offer Letter	5
3	2	Instructions to Bidders	6 – 11
4	3	Schedule of Requirement & Price Bid	12 – 14
5	4	Special conditions of the contract	15-19
6	5	<b>Technical Specification</b>	20
7	6	Commercial Terms & Conditions	21-27
8	7	Performa for Performance Bank Guarantee	28 – 29
9	8	BID DATA SHEET	30-31
10	9	<b>Contract Agreement</b>	32-33
11		Annexure	34 - 40



# Chapter— 1 OFFER LETTER

To
RailTel Corporation of India Limited,
Eastern Region, 3rd Floor,
Chatterjee International Centre,
33A Jawaharlal Nehru Road, Kolkata – 700 071.

I/We have read the various conditions & detailed in tender documents attached here to and hereby agree to ABIDE BY THE SAID CONDITIONS. I/We also agree to keep this tender open for acceptance for a period of 90 days from the date of opening the same and in default thereof, I/We will be liable for forfeiture of my/our Earnest Money. I/We submit our offer for "Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata" at the rates quoted in the attached schedules and hereby bind myself/ourselves to supply and execute the work within 45 days from the date of issue of Work Order/ Letter of Acceptance. I/We also hereby agree to abide by the Various Conditions of tender document and to carry out the supplies according to the Specifications for materials laid down by the RailTel for the present tender document.

tender document.			
Payee Demand Draft in is herewith without prejudice to any	n favour of "RailTel Corpor forwarded as "Earnest Mon other rights or remedies if, L	ration India Ltd" DD ey". The full value of /We withdraw or mod	e Hundred Fifty Only) as a Account No dtissued by Earnest Money shall stand forfeited ify the offer within validity period or in 15 days of issue of the LOA.
			as Cost of Tender Document through dt drawn on
		S	IGNATURE OF TENDERER (S)  Date  TENDERER (S) ADDRESS
SIGNATURE OF W	ITNESS		
1.			
2.			

# Chapter-2

# INSTRUCTIONS TO BIDDERS

### 2.1 BID DUE DATE:

TIME UPTO WHICH OFFERS WILL BE RECEIVED: 3:00 P.M. ON 08.02.2017

TIME OF OPENING: 3:30 P.M. ON 08.02.2017

# 2.2. SUBMISSION OF BID

# 2.2.1 Language

The bid and all related correspondence and documents in relation to the Bidding Process shall be in English language. Supporting documents and printed literature furnished by the Bidder with the Bid may be in any other language provided that they are accompanied by translations of all the pertinent passages in the English language, duly authenticated and certified by the Bidder. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Bid, the English language translation shall prevail.

# **2.2.2 DESCRIPTION OF BIDDING PROCESS, PREPARATION OF TECHNICAL COMMERCIAL Bid AND Openning Date**

### 2.2.1-

- a) The bidding process will be a single stage, two packet system where bidder is required to submit it's Technical and Financial bid in separate sealed covers as per the detailed procedure given in tender documents The financial bids of those bidders will only be opened whose technical bid is found meeting the requisite eligibility criteria. The financial bid of bidder whose technical bid is found unacceptable will be returned unopened.
- b) In this tender document, the term "Lowest Bidder" shall mean the Bidder who is technically qualified and whose price bid is the lowest.
- c) Bid should be delivered to the address or dropped in the Tender box marked for this tender so as to reach up to 15:00 hours of due date. The bids shall be opened at 15:30 hours on the same day in the above office in the presence of those representatives of the bidders who choose to be present with proper authentication. Bids received after due date and time shall be summarily rejected and shall not be opened.
- d) The bid should be submitted duly signed and stamped on each page, duly filled offer letter in chapter 1. EMD & cost of tender document should be enclosed with the original bid. The personal seal of the bidder should seal the envelope containing the bid duly marked Tender for: "Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata".

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

**Executive Director,** 

RailTel Corporation of India Ltd., Eastern Region, 3<sup>rd</sup> Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700 071.

- 2.2.2.2 The envelope shall bear name of work, the tender no. and the words "DO NOT OPEN BEFORE" (08.02.2017.)
- 2.2.2.3 The Bid and its copy shall be typed or written in indelible ink and signed by the authorised signatory of the Bidder who shall also initial each page in blue ink. In case of printed and published documents, only the cover shall be initialled. All the alterations, omissions, additions or any other amendments made to the Bid shall be initialled by the person(s) signing the Bid. The Bid shall contain page numbers and shall be bound together in hard cover/spiral bound.
- 2.2.2.4 The following documents MUST contain along with Technical bid :
  - a) Earnest Money along with Tender document cost
  - b) Relevant Technical & Financial experience certificate as per chapter 4, clause 2 (a) & 2 (b) of this tender document.
  - c) Manufacturer Authorization's Form and also compliance letter on OEM's letter head as per technical specification mentioned in Annexure A to D of this tender document

Tender document shall be addressed to the Executive Director, RailTel Corporation of India Ltd,  $3^{rd}$  floor, 33A, Chaterjee International Centre, Kolkata – 700071.

The commercial offer should be as per SOR and Price BID as per Chapter 3 of this Tender document. All the technical details along with Earnest Money, except the price, delivery and commercial terms should be submitted in technical bid.

# 2.2.3 Sealing and Marking of Bids

2.2.3.1 Offers should be submitted in triplicate envelope. Two inner envelopes, containing the **Technical Offer**" and "**Financial offer**" shall be sealed separately and marked Technical Offer FOR TENDER NO.------ and Financial Offer FOR TENDER NO.------. These inner envelopes should be placed in one outer envelope and both should be addressed to the Executive Director (Eastern Region), RailTel Corporation of India Ltd., 3<sup>rd</sup> Floor, Chatterjee International center, Kolkata-700071. As a measure of caution, the outer envelope should be sealed and superscripted as follows:

"TENDER NO. Railtel/Tender/OT/ER/HQ/2016-17/982, dt.22.12.2016 DUE DATE AND TIME OF OPENING ON: .08.02.2017 AT 15.30 Hrs.

The Executive Director,
RailTel Corporation of India Ltd,
Eastern Region,
3<sup>rd</sup> Floor, Chatterjee International center,
Kolkata-700071

2.2.3.2 Offers sent by post should be sent by registered post acknowledgement due addressed to Executive Director (Eastern Region), RailTel Corporation of India Ltd., 3<sup>rd</sup> Floor, Chatterjee International center, Kolkata-700071, so as to reach him before 15:00 hours, on due date.

Offers delivered by hand should be delivered personally to the officer mentioned above and acknowledgement obtained for the same before 15:00 hrs on due date.

2.2.3.3 The Earnest Money (Bid Guarantee) shall be submitted along with Technical offer in "original" bid.

# 2.3 PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN

Firms tendering should note that the offer should remain open for a period of 90 days from the date of opening of the technical bid, for acceptance for both technical and financial bid. The offer not meeting this criterion is liable to be ignored. In cases where the original validity has expired before opening of the financial bid bidders are required to extend the validity of financial bid before opening of financial bid, failing which their financial bid will not be opened and returned to them unopened.

# 2.4 OPENING OF TENDER

Bidders are at liberty to be present or authorize a representative to be present at the opening of the tender at the time and date as specified in the schedule.

### 2.5 PRICES

- 2.5.1 This tender consists of a percentage bidding system. The estimated prices of each and every item of the schedule are indicated in the Schedule of Requirements. The tenderer is expected to quote the %age above (+) or below (-) or At par the total estimated price indicated in the schedule. For the purpose of calculating the unit price for releasing payment, the total %age above/below finalized for the entire schedule will form the basis for calculation of the unit prices where the estimated prices of the individual items of the schedule will be marked up/below the final overall %age accepted.
- 2.5.2 The percentage above/below finalized for the entire schedule shall be firm and exclusive of all taxes. The prices indicated in the schedule are in Indian Rupees for the units under metric system.
- **2.5.3** Tax breakup to be mentioned clearly in a separate sheet.
- 2.5.4 The price to be quoted by the bidders should take into account the credit availed on inputs under the CENVAT Scheme introduced w.e.f. 1.4.2000. The bidders should give a declaration that any set offs in respect of duties on inputs as admissible under law is being totally and unconditionally passed on to the purchaser in the price quoted by him.
- 2.5.5 The bidders should give the following declaration:

"We agree to pass on such additional duties as set offs as may become available in future in respect of all the inputs used in the manufacture of the final product on the date of the supply under the CENVAT SCHEME by way of reduction in prices and advise the purchaser accordingly".

2.5.6 Offers are solicited on firm price basis. No "price variation" quoted by bidder will be accepted.

# 2.6. PAYMENT TERMS;

The terms of payment shall be as per clause 23 & 24 of the Chapter-4 of this Tender document.

# 2.7 TERMS OF DELIVERY:

- 2.7.1 Deliveries period has mentioned in clause- 25 of Chapter-4 of this tender document.
- 2.7.2 In case of failure on the part of contractor to arrange supplies as per the delivery schedule/ installments fixed in advance, save force majeure conditions or delays attributable to the purchaser, the purchaser reserves the right to levy "liquidated damages" which shall be levied as under: The terms & conditions of Liquidated Damages mentioned in clause- 5 of Chapter-6 of this Tender document.

# 2.8 THE BIDDERS SHOULD QUOTE RATES F.O.R. DESTINATION

Bidders should quote FOR destination rate, giving the detailed break-up separately.

# 2.9 CORRECTIONS:

Correction should be avoided, but if there are any, all such corrections in the tenders should be initialed by bidder. Erasures /Correction fluid and over-writing shall not be made.

# 2.10 EARNEST MONEY (BID GUARANTEE)

- 2.10.1 Earnest money of Rs. 1,19,150/- (Rupees One Lakh Nineteen Thousand One Hundred Fifty Only) is to be submitted along with the tender and should be in the form of Demand Draft drawn from any Nationalized/scheduled bank in favor of "RailTel Corporation of India Limited" payable at Kolkata. The Demand Draft should be valid for 2 months from the date of opening of Tender.
- 2.10.2 The EMD shall stand forfeited if the bidder withdraws his offer or modifies the terms and conditions of the offer within the validity period, or fails to accept the purchase order or fails to furnish the Performance Bank Guarantee.
- 2.10.3 Tenders not accompanied by Earnest Money shall be summarily rejected.
- 2.10.4 Earnest money of the unsuccessful bidder will be returned and no interest will be paid on the EMD.
- 2.10.5 The amount of EMD of the successful bidder shall be adjusted towards Security Deposit in case of NSIC registered companies, copy of valid certificate should be submitted with tender document.

# 2.11 SECURITY DEPOSIT/ PERFORMANCE GUARANTEE

The details of Performance Guarantee as per clause no. 12 of chapter-4 & Security Deposit are as per clause no. 22 of the Chapter-4 of this Tender Document.

# 2.12 Banker's details:

Bidders should indicate the names and addresses of their Bankers.

# 2.13 TRANSIT INSURANCE

The purchaser will not pay separately for transit insurance and the supplier will be responsible till the entire stores contracted for arrive in good condition at destination.

### 2.14 TRANSFERABILITY:

This tender is not transferable.

# 2.15 NUMBER OF BIDS AND COSTS THEREOF

- 2.15.1 No Bidder shall submit more than one Bid for the Project. No Consortium & JV will be not allowed in this Tender.
- 2.15.2 The Bidders shall be responsible for all of the costs associated with the preparation of their Bids and their participation in the Bid Process. The Purchaser will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

# 2.16 ACKNOWLEDGEMENT BY BIDDER

- 2.16.1 It shall be deemed that by submitting the Bid, the Bidder has:
  - (a) made a complete and careful examination of the tender document;
  - (b) received all relevant information requested from the Purchaser;
  - (c) accepted the risk of inadequacy, error or mistake in the information provided in the tender document or furnished by or on behalf of the Purchaser relating to the bid
  - (d) agreed to be bound by the undertakings provided by it under and in terms hereof.
- 2.16.2 The Purchaser shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the tender document or the bidding process, including any error or mistake therein or in any information or data given by the Purchaser.

# 2.17 RIGHT TO ACCEPT OR REJECT ANY OR ALL BID /BIDS

- 2.17.1 Notwithstanding anything contained in this tender document, the Purchaser reserves the right to accept or reject any Bid and to annul the Bidding Process and reject all Bid/ Bids, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore. In the event that the Purchaser rejects or annuls all the Bids, it may, in its discretion, invite all eligible Bidders to submit fresh Bids hereunder.
- 2.17.2 The Purchaser reserves the right to reject any Bid and/ or Bids if:
  - (a) at any time, a material misrepresentation is made or uncovered, or
  - (b) the Bidder does not provide, within the time specified by the Purchaser, the supplemental information sought by the Purchaser for evaluation of the Bid. If such disqualification/rejection occurs after the Bids have been opened and the Lowest Bidder gets disqualified/rejected, then the Purchaser reserves the right to take any such measure as may be deemed fit in the sole discretion of the Purchaser, including annulment of the Bidding Process.
- 2.17.3 In case it is found during the evaluation or at any time before signing of the Agreement or after its execution and during the period of subsistence thereof, including the contract thereby granted by the Purchaser, that one or more of the pre-qualification conditions have not been met by the Bidder, or the Bidder has made material misrepresentation or has given any materially incorrect or false information, the Bidder shall be disqualified forthwith if not yet appointed as the contractor either by issue of the LOA or entering into of the Agreement, and if the Bidder/consortium/JV has already been issued the LOA or has entered into the Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this tender document, be liable to be terminated, by a communication in

writing by the Purchaser to the bidder, without the Purchaser being liable in any manner whatsoever to the bidder and without prejudice to any other right or remedy which the Purchaser may have under this tender document, the Bidding Documents, the Agreement or under applicable law.

2.17.4 The Purchaser reserves the right to verify all statements, information and documents submitted by the Bidder in response to the TENDER DOCUMENT. Any such verification or lack of such verification by the Purchaser shall not relieve the Bidder of its obligations or liabilities hereunder nor will it affect any rights of the Purchaser there under.

# 2.18 CLARIFICATIONS

- 2.18.1.Bidders requiring any clarification on the bid documents may notify the Purchaser in Writing They should send in their queries no latter then 20 days before the date of submission specified in bid document.
- 2.18.2 The Purchaser shall endeavour to respond to the questions raised or clarifications sought by the bidders. However, the Purchaser reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this clause shall be taken or read as compelling or requiring the Purchaser to respond to any question or to provide any clarification.
- 2.18.3 To facilitate evaluation of Bids, the Purchaser may, at its sole discretion, seek clarifications from any Bidder regarding its Bid. Such clarification(s) shall be provided within the time specified by the Purchaser for this purpose. Any request for clarification(s) and all clarification(s) in response thereto shall be in writing.

# 2.19 AMENDMENT OF TENDER DOCUMENT

- 2.19.1 At any time prior to the deadline for submission of bid, the Purchaser may, for any reason, whether at its own initiative or in response to clarifications requested by an bidder, modify the tender document by the issuance of amendment.
- 2.19.2 Any amendment thus issued will be sent in writing to all those who have purchased the tender document and will be publicized on website.
- 2.19.3 In order to afford the bidders a reasonable time for taking an amendment into account, or for any other reason, the Purchaser may, in its sole discretion, extend the Bid Due Date.
- 2.19.4 In case, the date of bid opening falls on a gazetted holiday or is subsequently declared as such, the bids will be opened on the next working day at the appointed time

# 2.20 EVALUATION CRITERIA

The offers received will be evaluated considering as per eligibility criteria mentioned at clause 2 (a) & 2 (b) of Chapter 4 of this tender document. The tenderer must comply technical specification of material as per Annexure A to D.

# Undertaking Chapter – 3

# Schedule of Requirement (SOR) and PRICE BID

Name of the work: "Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB

Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata"

# Schedule of Requirement.

SN	Description of Item	<b>Total Qty</b>	UoM	Rate/ Unit (Rs.)	Total Amount (Rs.)
1	Supply & Installation of Router -Technical specifications in Annexure-A at Site	21	No.	126000	2646000
2	Supply & Installation of 24 port Layer-2 Switch - Technical specifications in Annexure-B at Site	21	No.	22500	472500
3	Supply, Installation, Configuration & Commissioning of Indoor Access Point with patch Antenna and pigtail as per Technical specification detailed in Annexure-C and should also include Supply & Installation of 10 nos Network Rack (6U) with front Glassdoor & with AC Power distribution strip mat respective site.	35	No.	30486	1067010
4	Supply of Wi-Fi USB Adaptor for desktop PC at Site	60	No.	2100	126000
5	Supply & Installation of LAN extender at Site	22	Pair	16320	359040
6	Supply & Installation of OFC Media Converter – AC power supply at Site	22	Pair	9000	198000
7	Supply of cable CAT6, 4 pair, UTP- 305 mtr. Of reputed make including I/O Box at Site	7300	Mtr	18	131400
8	Laying of UTP CAT6 Cable through PVC casing/ conduit of 1" dia, from Equipment rack to the each I/O Box, Supply of PVC casing/ caping/ conduit of 1" dia is included in this scope of work at Site	7300	Mtr	27	197100
9	Supply & Installation of 1 KVA Online UPS (1 Hour Backup) with 3 nos of 7AH Battery -Technical specifications in Annexure-D at Site	22	No.	22500	495000
10	Supply & Installation, commissioning of maintenance free Earthing . Arrangement for racks ,power equipment's etc to be along with the supply of all the requisite stores. Technical specifications in Annexure-E at Site	10	No.	26528	265280
	TOTAL VALUE EXCLUDING TAX				5957330

Note: Supply, Installation of materials also includes Transportation of all the materials at Site.

# AGovernment of India Undertaking

# **Details of Quantities:**

SN	<b>Description of Items</b>	BOQ		
----	-----------------------------	-----	--	--

			]	]	. 1							
		ECR HQ/HJP	DHN	DNR	MGS	SEE	SPJ	PD MGS	SPJ Work Shop	Con/MHX	HRT WS	Total Qty
1	Supply & Installation of Router-Technical specifications in Annexure-A	2	2	2	2	2	2	2	2	2	3	21
2	Supply & Installation of 24 port Layer-2 Switch -Technical specifications in Annexure-B	2	2	2	2	2	2	2	2	2	3	21
3	Supply, Installation, Configuration & Commissioning of Indoor Access Point with patch Antenna and pigtail as per Technical specification detailed in Annexure-C and should also include Supply & Installation of 10 nos Network Rack (6U) with front Glassdoor & with AC Power distribution strip mat respective site.	3	3	3	3	3	3	3	3	3	8	35
4	Supply of Wi-Fi USB Adaptor for desktop PC	5	5	5	5	5	5	5	5	5	15	60
5	Supply & Installation of LAN extender	2	2	2	2	2	2	2	2	2	4	22
6	Supply & Installation of OFC Media Converter	2	2	2	2	2	2	2	2	2	4	22
7	Supply of cable CAT6, 4 pair, UTP- 305 mtr. Of reputed make including I/O Box	700	700	700	700	700	700	700	700	700	1000	7300
8	Laying of UTP CAT6 Cable through PVC casing/ conduit of 1" dia, from Equipment rack to the each I/O Box, Supply of PVC casing/ caping/ conduit of 1" dia is included in this scope of work	700 e	700	700	700	700	700	700	700	700	1000	7300
9	Supply & Installation of 1 KVA Online UPS (1 Hour Backup) with 3 nos of 7AH Battery - Technical	2	2	2	2	2	2	2	2	2	4	22

					1.								
	specifications in												
	Annexure-D												
	Supply &	7			λ.								
	Installation,												ĺ
	commissioning of												ĺ
	maintenance free												ĺ
	Earthing .												ĺ
	Arrangement for		1										ĺ
10	racks, power	4	0	0	1	1	1	1	1	0	1	10	ĺ
	equipments etc to be									\			ĺ
	along with the supply						7			11			ĺ
	of all the requisite												ĺ
	stores. Technical												ĺ
	specifications in			1					)	V			ĺ

Dt. 22.12.2016

Tender No: RailTel/Tender/OT/ER/HQ/2016-17/982

Annexure-E

Total Value Schedule of Requirement = 59, 57, 330/- (Rupees Fifty Nine Lakh Fifty Seven Thousand Three Hundred and Thirty Only)

i.	I/We undertake to supply, install & commission, with warranty support, mentioned in the schedule at%			
	(in words: percent) (write 'at par with' or 'below' or 'above') the RailTel's total			
	estimated cost of work as per schedule of requirement mentioned above.			
ii.	It is certified that I/We have inspected the site of work and acquainted myself or ourselves with local conditions.			
iii.	I/We have carefully gone through the specifications, special conditions etc. attached with the tender document.			
iv.	I/We undertake to keep this offer valid for period indicated in Tender document from the date of opening of Tender			
	and further not to revoke the same before the expiry of such period.			



Chapter-4

# SPECIAL CONDITIONS OF THE CONTRACT

1. **Scope of work:** "Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata"

# 2. ELEGIBILITY CRITERIA:

# (a) TECHNICAL:

The tenderer should have completed satisfactorily, from start to finish within the last three financial years and current financial year for Government State/Central PSU Undertaking:-

(i) At least one similar work for a minimum value of 35% of the advertised tender value.

OR

(ii) Two similar works for a minimum value of 20% of the advertised tender value.

# Similar work is defined as:

Supply, installation & commissioning of the "Routers, Switches (i.e DataCom Equipment), Indoor Access Points, Wi-Fi based USB Adapters, LAN Extenders, Online UPS & LAN wiring and maintenance Free Earthing "for Government, State/Central PSU within last three Financial years i.e FY 13-14 to till date. The Bidder is required to submit relevant purchase order copies along with the completion certificate should indicate PO/LOA reference for the completed work.

# (b) **FINANCIAL**:

The total contract amount received by the tenderer during last three financial years including the current financial year should be a minimum of 150% of the advertised tender value. Certified copy of Audited Balance sheet of last 3 (three) years should be submitted as evidence.

- 3. Bidder should quote single percentage rate only at par with/above/below the RailTel's total estimated cost of work.
- 4. The single percentage rate should be quoted both in figures and words
- 5. Bidder should also provide separate Breakup of Cost /Rate against each item of work in the SOR i.e. Supply, Installation and Commissioning with its Tax Component.
- 6. Quoted rates are excluding taxes. But should provide break up all type of applicable taxes separately along with Bid.
- 7. If Only Percentage is written in the BID without mentioning either 'at par with' or 'below' or 'above', then the quoted percentage (%) will be treated as above the RailTel's Estimated Cost of Work.
- 8. Last Date of receipt of Tenders: Sealed tenders for the above Tender Notice will be received in the office of the Executive Director, RCIL, Kolkata up to 15:00 hrs. IST on 08.02.2017 and will be opened at 15:30 hrs. on same day. If the above said day happens to be a holiday, the same shall be done on the next working day.

- 9. The bid shall consist of the following:
  - a) Offer letter complete.
  - b) Schedule of Requirement and Price Bid
  - c) Earnest Money Deposit
  - d) Clause wise compliance to bid conditions by signing on each page of bid document.
  - e) Any other information desired to be submitted by the bidder.
  - f) Copy of registration/exemption certificate for EPF/ESI.
  - g) Registration with labour commissioner
  - h) Service Tax Registration Certificate.
  - i) VAT, CST Registration Certificate
  - j) Copy of PAN Card
  - k) RTGS Details / Bank Details

# 10. Period of completion of the Contract:

- a. Supply, Installation and Commissioning of the Work should be completed within 45 Days of issue of LOA
- **b.** The contract shall be valid for a period of 12 months from the date of issue of PAC for Supply, Installation and Commissioning of all the materials.

# 11. Earnest Money

- 11.1 Earnest money of Rs. 1, 19,150/- (Rupees One Lakh Nineteen Thousand One Hundred Fifty Only) is to be submitted along with the tender and should be in the form of Demand Draft drawn from any Nationalized/scheduled bank in favour of "RailTel Corporation of India Limited" payable at Kolkata. The Demand Draft should be valid for 2 months from the date of opening of Tender.
- 11.2 The EMD shall stand forfeited if the bidder withdraws his offer or modifies the terms and conditions of the offer within the validity period, or fails to accept the purchase order or fails to furnish the Performance Bank Guarantee
- 11.3 Tenders not accompanied by Earnest Money shall be summarily rejected.
- 11.4 Earnest money of the unsuccessful bidder will be returned and no interest will be paid on the EMD.
- 11.5 The amount of EMD of the successful bidder shall be adjusted towards Security Deposit in case of NSIC registered companies, copy of valid certificate should be submitted with tender document.

# 12. Performance Bank Guarantee

On receipt of Letter of Acceptance of the Tender from RailTel; within a day period of 15 days, the Successful Tenderer shall deposit 5% of the Contract / LOA Value as Performance Bank Guarantee (PBG) in favour of RailTel Corporation of India Ltd, Kolkata. This PBG shall be valid for a period of 90 days beyond the total contract period; that is; 1 years from the date of issue of PAC. The Performa for PBG is given in Chapter 7.

# 13. Materials to be supplied by Contractor

a) The quoted rates in the schedule should be inclusive of all materials required to be provided for the work to be under taken by the contractor as described in the tender document and the schedule of requirement attached. All materials including the materials covered under the Schedule of Requirement and those required to achieve the end objective and any special protection materials needed are to be supplied by the contractor. Tenderer's special attention is invited to the fact that no material shall be

- arranged/ supplied by RailTel to achieve end objective
- b) The approval for supply of materials shall be specifically taken from representative of Executive Director/Eastern Region, RailTel Corporation of India Ltd., in this regard.

# 14. Maintenance Support

The tenderer should submit their strategy for providing Comprehensive Maintenance of the entire work for a period of 1 (One) Years at the time issue of PAC,

# 15. LOA and Contract Agreement

A "Letter of Acceptance" (LOA) shall be issued by RailTel on acceptance of the offer of successful tenderer. The successful tenderer shall convey acceptance of the LOA and submit the Performance Bank Guarantee within 15 days of issue of LOA. If Tenderer fails to submit PBG within stipulated time period and sign agreement, Competent Authority may consider to impose penalty / LD or Cancellation of LOA.

- i. The successful tenderer shall also sign an agreement for the execution of the work within 15 days of issue of LOA
- 16. The tenderer shall keep the offer open for a minimum period of Ninety days from the date of opening of the tender.
- 17. The work has to be executed in close co-ordination with RailTel field executive in-charge of the work. Before quoting, the tenderers are advised to ascertain the nature of work involved, including site inspection.
- 18. Tender should be submitted for the entire work.
- 19. The submission of tender will be deemed to imply that this memorandum and all documents enclosed have been studied and understood and the tenderer is aware of the full scope of the work to be done and the conditions affecting the execution.
- 20. The tenderer shall not increase the quoted rates in case RailTel Corporation negotiates for reduction in 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. The tender should abide by Fall Back principle also.
- 21. If the tenderer deliberately gives wrong information in his tender or creates such circumstances for the acceptance of his tender the RailTel Corporation reserves the right to reject such tender at any state.

# 22. SECURITY DEPOSIT:

Security deposit shall be 5% of the total Contract Value.

- a. The amount of EMD of the successful bidder shall be adjusted towards Security Deposit (5% of the contract value) i.e., accepted value of the contract.
- b. The balance amount should be recovered by percentage deduction from the Contractor's "on account" bills. Provided also that in case of defaulting Contractor RailTel may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained may not exceed 5 % of the total value of the contract.
- c. Unless otherwise specified in the special conditions, if any, the rates for Deposit / rate of recovery / mode of recovery shall be as under:

- a) Security Deposit should be 5% of the contract value.
- b) The rate of recovery should be at the rate of 10% of the bill amount till the full security deposit is recovered.
- c) Security Deposits will be recovered from the running bills of the contract only and no other mode of collecting Security Deposit such as Security Deposit in the form of instruments like BG, FD etc. shall be accepted towards Security Deposit.
- d. No interest will be payable upon the Earnest Money / Security Deposit or any amounts payable to the Contractor under the Contract.

# 23. PAYMENT TERMS:

Payment shall be made as per following criteria

- i. 75% payment would be paid after supply of all the item as per SOR at respective site duly inspected by RailTel Officer.
- ii. 20 % payment will be released after successful Installation, Commissioning of the work at respective site & after the issue of PAC.
- iii. The following document shall be attached along with the bills:
  - a. Invoice
  - b. Delivery challan
  - c. Inspection certificate
  - d. Warranty certificate of the OEM/Authorized dealer.
  - e. Contractors Certificate of Dispatch
  - f. Undertaking for Fallback Clause
  - g. Excise gate duty pass
  - h. Copy of Purchase Order
  - i. Insurance of the materials

# 24. FINAL PAYMENT

Final payment of 5% (Five Percent) of the contract value shall be made after one year from the date of issue of PAC.

# 25. COMPLETION PERIOD:-

The overall Completion Period of the work is 45 days from the date of issue of LOA.

26. Bidder should provide **Manufacturer Authorization's Form** and also compliance letter on OEM's letter head as per technical specification mentioned in Annexure A to D of this tender document.

# 27. OTHER TERMS:-

- a. The successful bidder shall have to provide Comprehensive Maintenance for a period of 1 (One) year from successful date of implementation. The uptime required for all the equipment supplied and installed under the scope of this work shall be 100%.
- b. The bidder shall have to supply all the materials strictly as per the configuration as given in SOR
- c. If any active element is required to be taken out from the site, for repair/maintenance, a suitable replacement of same or higher configuration is required before such activity but approval of suitable authority of RailTel.
- d. The bidder should give a separate written undertaking to ensure all spares required for maintaining the system, supplied and installed by them for at least 1 (One) years

more from the date of successful commissioning.

- e. The successful bidder should engage qualified technicians/engineers/workforce for this project and use proper tools for execution of the works.
- f. During the entire contract period of 1 (One) years the bidder shall be responsible for smooth working of all the equipment supplied and installed under this project.
- g. Bidder should provide detail configuration of all materials/ equipment supplied.
- h. All required Licenses should be in the name of "RailTel Corporation of India Limited" and supporting documents should be submitted by successful bidder.

RAILTEL Government of India Undertaking

# Chapter -5

# TECHNICAL SPECIFICATION

Introduction: Detailed Technical Specification are provided in Annexure

- i. Annexure A: Detailed Technical Specification of Router.
- ii. Annexure B: Detailed technical Specification of Switch.
- iii. Annexure C: Detailed technical Specification of Indoor Access Point.
- iv. Annexure D: Detailed technical Specification of 1 KVA Online UPS.
- v. Annexure E: Detailed technical Specification of Maintenance free Earthing.



### Dt. 22.12.2016

# CHAPTER – 6 Commercial Terms & Conditions

# 1. INSTRUCTION FOR INSTALLATION:

Tenderer shall Supply, Install & commission all the materials with proper configuration as detailed in the Tender document. All materials are required to be approved by RailTel's Engineer at site and no additional payment shall be made on this account.

# **2.** OFFER LETTER AND VALIDITY OF OFFER:

- 2.1 The bidder shall complete the Offer Letter (Chapter 1) and the Schedule of Requirements (Chapter 2) furnished in the bid documents, indicating <a href="make-and-model-no">make and model-no</a>. of the product to be supplied, description of the product, associated technical <a href="literature">literature</a>, quantity etc.
- 2.2 The offer should remain valid for a period of 90 days from the date of opening.

### **3.** WARRANTY:

- 3.1 The material is to be warranted for 1 (One) years from date of commissioning. The bidder shall warrant that stores to be supplied shall be new and free from any defects/faults in material, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards of materials and shall be in full conformity with the specifications and drawings. The bidder shall be responsible for any defects that may develop under the conditions provided by the contract and under use, arising from faulty materials, design or workmanship such as corrosion, inadequate quantity of material to meet equipment requirements, inadequate 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.
- 3.2 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 of twenty four months, whichever may be later, If any defect is not remedied within a reasonable time, the Purchaser may proceed to do the work at the contractor's risk and expenses, but without prejudice to any other rights which the Purchaser may have against the contractor in respect of such defects the defective units shall have to be made functional within next working day of receipt of complaint in writing/telephonically or verbally if conveyed in need of urgency. In case of major breakdown of the unit, the tenderer shall install a standby unit for the interim period.
- 3.3 Replacement under warranty clause shall be made by the contractor free of charges at site including freight, insurance and other incidental charges. No extra payment shall be made by the RailTel on this account.

# **4.** UNIT PRICE:

- 4.1 This tender consists of a percentage bidding system. The estimated prices of each and every item of the schedule are indicated in the Schedule of Requirements. The tenderer is expected to quote the %age above (+) or below (-) or At par the total estimated price indicated in the schedule. For the purpose of calculating the unit price for releasing payment, the total %age above/below finalized for the entire schedule will form the basis for calculation of the unit prices where the estimated prices of the individual items of the schedule will be marked up/below the final overall %age accepted.
- **4.2** The percentage above/below finalized for the entire schedule shall be firm and exclusive of all taxes. The prices indicated in the schedule are in Indian Rupees for the units under metric system.
- **4.3** Tax breakup to be mentioned clearly in a separate sheet.

# **5.** LIQUIDATED DAMAGES:

The timely completion of the work is the essence of this contract. Liquidated Damages will be applicable at the rate of: half percent (0.5%) per week or part thereof for undelivered portion subject to a maximum of 10% of the cost of work awarded. RailTel will have the right to cancel the order or place order on alternative source.

# **6.** STATUTORY DEDUCTION:

Statutory deductions (viz., STDS, TDS etc.) will be made at source as per the rules prevalent in the area of work.

# **7.** CRITERIA FOR PLACEMENT OF ORDER:

The Purchaser shall consider placement of orders for commercial supplies on the bidders whose offer has been found technically and commercially acceptable.

# **8.** VARIATION OF QUANTITIES:

RailTel reserves the right during the currency of contract to the signing of the agreement till the successful completion of the project) to increase or decrease by up to 25% of the quantity of supply and services specified in the Schedule of Requirements without any change in unit price of the ordered quantity or other terms and conditions. Variation beyond 25%, PBG for the full amount to be submitted.

**9.** PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS RailTel reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract 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.

# **10.** ISSUE OF PURCHASE ORDER AND AWARD OF CONTRACT

- a) The issue of a Work Order/ Letter of Acceptance in favour of eligible bidder shall constitute the intention of the Purchaser to enter into the contract with the bidder.
- b) The bidder shall within 15 days of issue of the Purchase Order/ Letter of Acceptance, give his acceptance along with Performance Bank Guarantee as per clause 6 above.

### **11.** ANNULMENT OF AWARD:

Not used

# **12.** BID PRICES, TAXES & DUTIES:

- a) The bidder shall quote in percentage (%) bid exclusive of all taxes. However, in a separate sheet, the details of tax applicable for each component of the SOR shall be furnished.
- b) The breakup of price for each item of SOR in terms of Basic Unit Price, Excise duty, Sales Tax, Freight, Forwarding, Packing, Insurance and any other Statuary Taxes/Levies/Charges already paid or payable by the supplier shall also be quoted separately.
- c) The price quoted by the bidder shall remain fixed during the entire period of contract and shall not be subject to variation on any account. Any change in statutory duties/taxes, in position/removal of any duty/ taxes shall be to RailTel's account.

# **13.** CLAUSE WISE COMPLIANCE:

Clause wise compliance statement of the Technical Specifications (Chapter-4) and Commercial Terms & be enclosed along with the offer. The offer should also contain technical literature/Broachers/Other document against the material to be supplied in support of the relevant clauses.

# **14.** TRAINING:

NA

# **15.** INSPECTION:

- a) Pre-shipment/pre-dispatch inspection shall be carried out at manufacturers/supplier's premises by RailTel's authorized representative. 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/inspection shall be provided by the manufacturer/supplier free of cost.
- b) Along with inspection call, the supplier/manufacturer shall submit details of test procedures, program, parameters together with permissible values, etc., and their Quality Assurance Plan.
- c) In case material/equipment fails during inspection, the fresh lot of material shall be offered without any extra cost, by the manufacturer/supplier. In such a case, total cost of re-inspection including travel, lodging & boarding of the inspecting officials shall be to manufacturer's /supplier's account.

### **16.** FORCE MAJEURE:

Force majeure shall mean-

- i. War, hostilities (whether war be declared or not), act of foreign enemies.
- ii. Rebellion, revolution, insurrection, or military or usurped power, or civil war,
- iii. Ionizing radiation, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radioactive
- iv. Toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.
- v. Presume waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds.
- vi. Riot, commotion or disorder, unless solely restricted to employees of the Contractor or of his Subcontractors and arising from the conduct of the Works.
- vii. Loss or damage due to the use or occupation by the Employer of any Section or part of the Permanent Works, except as may be provided for in the Contract.

- viii. Loss or damage due to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible, and
  - ix. Any operation of the forces of nature against which an experienced contractor could not reasonably have been expected to take precautions.

# **17.** SETTLEMENT OF DISPUTES:

In case of any dispute concerning this order both the supplier and RailTel shall try to settle the same amicably through mutual discussion/negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. Managing Director, RailTel Corporation of India Limited shall appoint Arbitrator.

# **18.** GOVERNING LAWS:

This contract shall be interpreted in accordance with the laws of India. The court at Kolkata shall have exclusive jurisdiction to entertain and try all matters arising out of this contract.

# 19. TERMINATION FOR DEFAULT

- 19.1 The purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Supplier and terminate this contract in whole or in part.
- 19.2 If the supplier fails to deliver any or all of the goods within the time period(s) specified in the contract.
- 19.3 If the supplier fails to perform any other obligation(s) under the contract; and
- 19.4 If the supplier, 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.
- 19.5 In the event the Purchaser terminates the contract in whole or in part, pursuant to Para 24.a, the Purchaser may proceed, upon such terms and in such manner as it deems appropriate, to purchase goods similar to those undelivered and the supplier shall be liable to the Purchaser for any excess cost for such similar goods. However, the Supplier shall continue performance of the contract to the extent not terminated.
- 19.6 Fall Back Clause.

# **20.** TERMINATION FOR INSOLVENCY:

The purchaser may at any point of time terminate the contract by giving written notice to the supplier, without compensation to the supplier, if it 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 is accrue thereafter to the Purchaser.

# **21.** FALLBACK CLAUSE:

The contract, if and when placed, will be subject to following fallback clause: -

- i. The price quoted by the supplier should not be higher than the maximum price, if any, for the materials and the same shall not be higher than the price usually charged by the supplier for materials of the same nature, class or description to any other purchaser.
- ii. The price charged for the materials supplied under the contract by the supplier shall in no event exceed the lowest price at which the supplier sells the

materials of identical description to any other person during the period till performance of all supply orders placed during the currency of the contract is completed. If at any time during the period the supplier reduces the sale price of such materials or sells such materials to any other person including his dealers at a price lower than the price chargeable under the contract, he shall forthwith notify such reduction or sale to the purchase and the price payable under the contract for these materials supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

- iii. It is discovered that the supplier has contravened the above conditions, then without prejudice to any other action which might be taken against him, it shall be lawful for the purchaser to (a) revise the price at any stage so as to bring it in conformity with sub-clauses above, or (b) to terminate the contract and purchase the materials at the risk and cost of the supplier and in that event the provision of General Conditions of Contract shall, as far as possible, be applicable or recover the loss.
- iv. The Contractor shall furnish the following certificate to the concerned Accounts Officer along with each bill for payment of supplies made against the Contract:

"I/We certify that there has been no reduction in sale price of the stores of description identical to the stores supplied to the Government under the contract herein and such stores have not been offered/sold by me/us to any person /organization including the purchaser or any Department of Central Government or any Railway Office or any Railway Undertaking as the case may be up to the date of bill/the date of completion of supplies against all supply orders placed during the currency of the contract at a price lower than the price charged to the RailTel, Eastern Region, under the contract."

# **22.** SUBLETTING AND ASSIGNMENT:

- a. The contractor may sublet a part of the work under this contract and enter into contract with suppliers for supply of materials.
- b. The contractor shall arrange for effective supervision of sub contractor's work and remain solely responsible for materials supplied and for works carried out on his behalf by the sub-contractor.

# 23. CLEARANCE OF SITE

At the end of the work at each location the Contractor shall as a part of his contractual obligation leave the area completely neat and clean.

# **24.** PROVISIONAL ACCEPTANCE CERTIFICATE (PAC)

- i. Immediately after the completion of the work at all the sites, the contractor shall certify and advise the purchaser in writing that the installation is (i) complete (ii) commissioned and (iii) ready for handing over to customer.
- ii. The tests will be conducted jointly by purchaser and contractor as soon as possible after receipt of such advice of completion of the work from the contractor. The test schedule shall be finalized mutually between the contractor and RailTel. Any component/modules/sub-assemblies or equipment failing during the commissioning shall be replaced/repaired free of cost by tenderer.
- iii. Purchaser's Engineer shall issue a Provisional Acceptance Certificate (PAC) for successful Supply, installation, Configuration, integration & commissioning at all locations covering

all materials and services included in the Schedule of Requirements after the acceptance test as per the approved test procedure have been completed and the performance has been found to meet the specifications. RailTel's decision in this respect shall be final. The Provisional Acceptance Certificate (PAC) shall be signed by both the parties. The period of Comprehensive Maintenance shall commence from the date of issue of Provisional Acceptance Certificate (PAC).

# **25.** PLACING IN SERVICE & MAINTENANCE SUPERVISION

- i. After the work has been completed & placed in service and Provisional Acceptance certificate issued by RailTel, the contractor shall be responsible for proper Comprehensive Maintenance supervision of the work for a period of One years from the date of issue of PAC. For this purpose, he shall prepare a maintenance plan and make available the services of qualified maintenance engineer stationed at the location approved by RailTel who will guide and supervise the work of maintenance staff. The maintenance engineer of the tenderer will visit all the sites at least once in a quarter.
- ii. During this period of Comprehensive Maintenance supervision if any lacuna is noticed in the functioning, as a result of any work, the contractor free of cost will rectify the same. During such rectification if any faulty equipment/modules need replacement or repair, they shall be provided by the contractor from the set of equipment or modules that the contractor should bring to the site of installation in addition to all the materials to be supplied against this contract. Use of spare modules covered under the Schedule of material of this tender shall not be permitted to be used during installation, commissioning and period of maintenance supervision.

# **26.** FINAL ACCEPTANCE CERTIFICATE (FAC)

- i) The final acceptance of the works shall take effect after One year i.e. 12 months of issue of Provisional Acceptance Certificates, provided in any case that the contractor has complied fully with his obligations in respect of each item under the contract.
- ii) Notwithstanding the issue of Final Acceptance Certificate (FAC), the contractor and the purchaser (subject to Sub Clause as above) 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.

# **27.** INSURANCE:

- 34.1 It shall be the sole responsibility of the Contractor to insure his workmen against risks of accidents and injury while at work as required by the relevant Rules and to pay compensation, if any, to them as per Workmen's Compensation Act. The Contractor shall also insure his staff against accidents. The work will be carried out in a protected area and all the Rules and Regulations of RAILTEL/its Client in the Project Area which are in force from time to time will be followed by the Contractor.
- 34.2 If due to negligence and/or non-observance of safety and other precautions, any accident/injury occurs to any other persons/public, the Contractor shall pay necessary compensation and other expenses, if so decided by the appropriate authority.
- 34.3 The Contractor will take necessary precautions and due care to protect the material, while in his custody from any damage/loss till the same is taken over by RAILTEL or customer. For lodging/processing of insurance claim the Contractor will submit necessary documents. RAILTEL will reserve the right to recover the loss from the Contractor, in case the damage/loss is due to carelessness/negligence on the part of the Contractor. In case of any theft of material under Contractor's custody, matter shall be reported to police by the Contractor immediately and copy of FIR and subsequently police investigation report shall be submitted to RAILTEL for taking up with insurance.

Tender No: RailTel/Tender/OT/ER/HQ/2016-17/ 982 Dt. 22.12.2016

# CHAPTER - 7

# Performa for Performance Bank Guarantee

# PERFORMANCE BANK GURANTEE BOND

(On Stamp Paper of Rs One Hundred) (To be used by approved Scheduled Banks)

In consideration of the RailTel Corporation of India Limited, 6th Floor, IIIrd Block, Delhi
Technology Park, Shastri Park, Delhi 110053 with Eastern Regional office at 3 <sup>rd</sup> Floor, Chatterjee
International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700071 (Herein after called RailTel)
having agreed to exempt (Hereinafter called "the said
Contractor(s)") from the demand, under the terms and conditions of an Agreement No./LOA
No dated made between
and for
(hereinafter called "the said Agreement") of security deposit for the due fulfillment by the said
Contractor (s) of the terms and conditions contained in the said Agreement, or production of a
Bank Guarantee for Rs.
(Rsonly).We,(indicate the
name of the Bank) hereinafter
referred to as "the Bank") at the request of Contractor(s)
do hereby undertake to pay the RailTel an amount not exceeding Rs
against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel
by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in
the said Agreement.
the said Agreement.
We,
suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal.
The payment so made by us under this Bond shall be a valid discharge of our liability for payment there under and the Contractor(s) / Supplier(s) shall have no claim against us for making such payment.
We,

Tender No: RailTel/Tender/OT/ER/HQ/2016-17/ 982

Dt. 22.12.2016

Dated: for

(Indicate the name of the Bank)

Witness

1. Signature

Name

2. Signature

Name

# RAILTEL

A Government of India
Undertaking

# CHAPTER – 8

# **BID DATA SHEET**

Reference	Description
Schedule of requirement Chapter – 3.	Name of the work:  "Supply, Installation and Commissioning of Router, Switch, Indoor Access point, Wi-Fi USB Adapter for Desktop, LAN Extender, Media Converter, 1 KVA Online UPS & LAN wiring, Maintenance Free Earthing etc in different important locations under East Central Railway for RailTel Corporation of India Ltd. Eastern Region Kolkata"
Tender Notice (Page- 2)	Submission of Tender: up to 15:00 hrs. on 08.02.2017 Opening of Tender at 15:30 hrs. on 08.02.2017  Venue: RailTel Corporation of India Ltd., 3rd Floor, Chatterjee International Centre, 33A, Jawaharlal Nehru Road, Kolkata – 700 071. Phone: 033-44041499; FAX: 033-44041490
Tender Notice, Page no – 2 & Clause-2 of Chapter – 6	Validity of offer 90 (Ninety) days from the date of opening of tender
Clause 3 of Chapter-6	Warranty As per Clause of the Tender Document
Clause-25 of chapter-4	Completion Period Completion Period for the work will be 45 Days from date of issue of LOA followed by Comprehensive Maintenance for a period of 1 (one) Years from the date of issue of PAC.
Clause-5 of chapter-4	Performance Bank Guarantee As per Clause no. 6 Chapter 5 of Tender Document
Clause-22 of chapter-4	Security Deposit: As per Clause no. 7 Chapter 5 of Tender Document
Clause-11 of chapter-4	Earnest Money: Rs 1,19,150/- (Rupees One Lakh Nineteen Thousand One Hundred Fifty Only) Pay Order / Demand Draft shall be drawn in favour of RailTel Corporation of India Ltd., payable at Kolkata.
Chapter-2, clause-2.2.2	Authority and Address Executive Director/ Eastern Region, 3 <sup>rd</sup> Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700 071.

Clause-15 of chapter-6	Inspection of materials and the work shall be done by the representative of Executive Director/Eastern Region, RailTel
	Corporation of India Ltd, 3 <sup>rd</sup> Floor, Chatterjee International Centre, 33A, Jawaharlal Nehru Road, Kolkata – 700 071.
Chapter – 2 ,Clause-	DESCRIPTION OF BIDDING PROCESS, PREPARATION OF TECHNICAL
2.2.2	COMMERCIAL Bid AND Opening Date



A Government of India
Undertaking

# CHAPTER – 9 CONTRACT AGREEMENT

(On Stamp Paper of Rs One Hundred)

CA No for "Supply, In	stallation and Commissi	ioning of Router, Switch, Indoor
Access point, Wi-Fi USB Adapter for Desktop, LAN I		
wiring, Maintenance Free Earthing etc in different imp	ortant locations under E	East Central Railway for RailTel
Corporation of India Ltd. Eastern Region Kolkata"		
TIL: A CIDEFINENTE: 1	.1.	
This AGREEMENT is made at or		
fifteen, by and between RailTel Corporation of In		
its Registered & Corporate office at 6th Floor, IIIr		
110053, and Eastern Region office at 16th Floo		
Nehru Road, Kolkata – 700 071 acting in the pr		
(hereinafter referred to as 'RailTel', which exp		
meaning thereof include its successors and permit	ted assigns) of the one	e part,
Andhaving its regis	tered office at	acting in the
premises through (hereafter referre	ed to as "Contractor" v	which expression should unless
repugnant to the context or meaning thereof inclu		
part.	ac its successor and p	gormiced assigns, or the other
F		
Whereas in response to a call for bid by RailTel fe	or the work of "Supply	, Installation and Commissioning
of Router, Switch, Indoor Access point, Wi-Fi USB Ada	oter for Desktop, LAN Ex	ktender, Media Converter, 1 KVA
Online UPS & LAN wiring, Maintenance Free Earthir		
Railway for RailTel Corporation of India Ltd. Eastern R		
read with Corrigendum Issued	by RailTel hereto, the	e Contractor has submitted a
bid as per Annexure 'B' hereto		
AND WHEREAS the said Bid of the Contractor h		
and Commissioning of Router, Switch, Indoor Access		
Media Converter, 1 KVA Online UPS & LAN wirin		
locations under East Central Railway for RailTel Corpor		
of Letter of Acceptance of Tender No		
the accepted rates and agreed deviations from te value of Rs(Rupees		
contractor.		_ Omy) dury accepted by the
contractor.		

Now this agreement witnesses that in consideration of the premises and the payment to be made by the Purchaser (RailTel) to the Contractor provided for herein, the Contractor shall supply all equipment and materials and execute and perform all works for which the said Tender of the Contractor has been accepted strictly according to the various provisions in Annexure 'B' and 'C' hereto and upon such supply, execute and performance to the satisfaction of the purchaser (RailTel) and the purchaser (RailTel) shall pay to the Contractor at the rates accepted as per the said Annexure 'C' and in terms of the provisions therein.

IN WITNESS whereof both the parties have hereunto set and subscribed their respective hands and/or seals on the day and year respectively mentioned against their respective signatures.

Signed and delivered by Shri \_\_\_ for and on behalf of RailTel Corporation of India Ltd. The contract within named in the presence of: 1. Signature Date Name in Block Capitals Address Signature 2. Date Name in Block Capitals Address Signed and delivered by Shri. for and on behalf of \_\_\_\_\_, the contractor within named in the presence of: Signature 1. Date Name in Block Capitals Address 2. Signature Date Name in Block Capitals Address Tender Paper No. \_\_\_\_\_ with corrigendum, if any. Annexure – A Annexure – B Firm's offer. : Letter of Acceptance No. \_\_\_\_\_ with all enclosures. Annexure – C Copy of Contract Performance Guarantee. Annexure – D

Dt. 22.12.2016

Tender No: RailTel/Tender/OT/ER/HQ/2016-17/ 982

# A Government of India Undertaking

# Annexure 'A'

# **Router Specification :-**

	Branch Router	Compliance (Yes/No)
A	Modular platform	,
1	Modular platform with integrated Ethernet interfaces and an additional slot to provide	
	connectivity and services for varied branch-office network requirements	
2	Should offer a choice of LAN, Serial, E1/T1, DSL modules to accommodate field	1)
	upgrades to future technologies without requiring replacement of the platform.	
В	Processors	
	High-performance multiprocessor system that supports growing demands of branch-	/
	office networks by supporting high-throughput WAN requirements.	
С	Memory	
1	DRAM: 2 GB or more	/
2	Flash: 2 GB or more	
D	Performance	
1	Routing performance (IMIX): 600 Mbps or more	
2	Routing throughput (IMIX): 200 Kpps or more	
3	IPSec VPN tunnels: 300 or more	
4	Routing+NAT+QoS+ACL throughput: 200 Mbps or more	
E	Interfaces	
1	8 x 10/100/1000 Gigabit Ethernet WAN-routed ports.	
2	2 x USB	
F	Virtual Private Network	
1	GRE, IP-IP, IPsec, IPsec, DES (56-bit), 3DES (168-bit), AES (128-bit+) encryption,	
	Message Digest 5 (MD5), SHA-1, SHA-128, SHA-256 authentication, Browser-based	
2	remote access Should allow network administrators to have no-touch deployment for IPsec VPN	
2	networks. No configuration changes should be required on the hub when spoke devices	
	are added or deleted, thus allowing administrators flexibility in managing large-scale	
	network deployments.	
3	The group IKE user type should be configured on the hub to allow strings to be	
	specified to match the alternate subject field in spoke certificates.	
G	Protocols	
	IPv4, static routes, Open Shortest Path First (OSPF), Border Gateway Protocol (BGP),	
	Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group	
	Management Protocol (IGMPv1/v2/v3), Protocol Independent Multicast sparse mode	)
	(PIM SM), Protocol Independent Multicast dense mode (PIM DM), PIM Source	
	Specific Multicast (SSM), Distance Vector Multicast Routing Protocol (DVMRP),	
	MSDP, SDP, IPsec, generic routing encapsulation (GRE), MPLS, 802.3ad, 802.1ad,	a
	STP, Layer 2 and Layer 3 VPN	
H	IPv6	
	OSPFv3, RIPng, BGP, IS-IS, MLD  Should transportate provide existing or new company to Dv6 Internet years by	
	Should transparently provide existing or new services to IPv6 Internet users by	
	deploying Network Address Translation IPv6 to IPv4 (NAT64) technology with little or no change in their existing network infrastructure, thus maintaining business continuity.	
	(If not available in the device external appliance should be quoted)	
Ι	Multiprotocol Label Switching	
	1. 2017 Process Districting	

	Multicast VPN, OSPF and IS-IS traffic engineering extensions, Point-to-multipoint	
	connections (P2MP LSPs), RSVP, Virtual private LAN service (VPLS), Standards-	
	based fast reroute, Secondary and standby label-switched paths (LSPs), LDP, Layer 2	
	VPNs for Ethernet connections, Circuit cross-connect	
J	Encapsulations	
	Ethernet, 802.1q VLAN, Point-to-Point Protocol (PPP), Multilink Point-to-Point	
	Protocol (MLPPP), Frame Relay, Multilink Frame Relay (MLFR), High-Level Data	
	Link Control (HDLC), Serial, Point-to-Point Protocol over Ethernet (PPPoE) and ATM	
	(PPPoA)	A
K	Traffic management	
1	QoS, Class-based queuing with prioritization, Weighted Random Early Detection	
	(WRED), Policy-Based Routing (PBR), Guaranteed bandwidth, Diffserv marking,	A A
	Ingress traffic marking	
2	Granular control over application traffic through firewall policies by identifying	
	applications and tunneled applications independent of protocol and port numbers.	
L	Identity management	
1	RSA SecureID, LDAP, RADIUS accounting, Web-based, 802.X authentication, PKI	
	certificate	
2	Custom application signatures and signature groups for application identification	
3	Administrator authentication by Local password authentication, RADIUS, TACACS+	/
M	High availability	
1	VRRP, Active/active or Active/standby, Stateful failover	
2	Route and Interface failover monitoring	
3	Node redundancy by grouping a pair of devices into a cluster.	
N	Management	
1	Web User Interface, CLI	
2	The router should have active probes to track and monitor real time traffic across the	
	network and to investigate network problems.	
3	Should have monitoring technology like netflow/j-flow/s-flow to randomly sample	
	network packets and send the samples to a monitoring station	
4	Should have the capability to revert to the last known good state if the router image,	
	configuration and the backup configuration files become damaged beyond repair	
5	Onbox application tracking statistics for better visibility	
6	Should participate in service chaining to seamlessly weave in security services of any	
	SDN controller	



# Annexure 'B'

# **Switch Type-B:**

SN	1	Description	Compliance (Yes/No)
a.		Should have 24 ports of 10/100 Base T.	
b.		Should have support for 4 ports SFP Based Gigabit ports.	
c.		Should have at least 9.6 Gbps switching fabric.	
d.		Should Support port trunking of at least 4 GE ports.	
e.		Should have support for 802.3x flow control.	
f.		Should support 802.1D spanning tree control and RSTP/MSTP.	
g.		Should support SNMP, web based management as well as RMON monitoring.	
h.		Should support Auto MDI-II/MDI-X uplink for all the twisted pair ports.	
i.		Should support 802.1Q VLAN, 802.1p Priority queues.	
j.		Should support port mirroring.	
k.		Should support at least 8000 entries in the MAC table.	
1.		Should have Console port.	
m.		Should support jumbo frame.	
n.		Should support IPv6.	
0.		Should support at least 128 IGMP Group.	)
p.		Should support Private VLAN or similar functionality.	
q.		Should support spanning-tree root guard or similar functionality.	
r.		Should support Optical Transceiver Digital Diagnostic Monitoring.	
s.		The following Ethernet services should support.	
	i.	Q in Q , Double VLAN (Q-in-Q) ,Port-based Q-in-Q and VLAN Translation	
	ii.	IEEE 802.1ag Ethernet OAM: Connectivity Fault Management	
	iii.	. Ethernet OAM compliant with IEEE 802.3ah/Y.1731	
	iv.	ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.	

	v.	L2 Protocol Tunneling	
	vi.	Loopback Detection	
t.	t. The operating system of the Switches series should be MEF-9&14 or		
		CE (Carrier Ethernet) Certified.	
u	. //	Should have inbuilt AC power supply.	
V	v. The following features are not mandatory		
	i.	Shall support Domain Name System (DNS) to provide IP address	
1	117	resolution with user-defined device names.	
	ii.	Shall support DHCP Server enabling a convenient deployment option	Λ.
		for the assignment of IP addresses in networks that do not have without	
		a dedicated DHCP server.	- 1
	iii.	Switch should be PoE compliant as per IEEE802.3af.	
	iv.	v. It shall support Local Proxy Address Resolution Protocol (ARP) to	
		work in conjunction with Private VLAN Edge to minimize broadcasts	
		and maximize available bandwidth.	7
\	v.	Switch shall support spanning-tree Port Fast guard for fast convergence	
		(IEEE 802.1w).	7

# Annexure 'C'

# **Specification of Wireless Access Point**

WIRELESS ACCESS POINT Model: Single radio 802.11 a/b/g/n with external antenna	Compliances (Yes/No)
1. Essential Features	, ,
1.1 Wireless Access Point (WAP) specification	
The Access Point should have one Auto-sensing 10/100/1000Base-T Ethernet	
AP should be Thick and in case of Controller goes down, services wont effect and no compromise on security on the Edge.	
802.11n Access Point should be able to power up using standards 802.3af POE input, and at the same time operate in full MIMO mode.	
The AP should have basic IPS handing capacity	
The AP should independently be configurable to handle security, mesh, firewall, WIPS, RF Management, QOS, roaming, local forwarding without the need for a controller so as to increase performance of the WLAN network.	
The AP should be able to act as controller for small deployments of upto 20 AP and provide basic features like seamless roaming, QOS, Security and RF management. This will reduce the cost of overall deployment.	
AP should have single Band Single Radios to support 2.4 GHz with 802.11 a/b/g/n capability. AP Must support 2x2 MIMO.	
AP should provide minimum 23dBm transmission power (limited as per govt regulation for indoor AP's).	
Wireless Interface: Single radio; 802.11a/b/g/n; 2.4Ghz or 5Ghz	
AP should support Advanced RF management features like self-healing.	
Access Points can perform encryption / decryption on itself so as not to bottleneck the controller	
Access Point capable of supporting part time scanning - serving clients and scanning the RF spectrum at the same time	
Operating Frequency: 2.412-2472 GHz and 5.150 GHz - 5.850 GHz-As per regulatory for Indoor AP's.	

SSID support : 16 SSID (8 BSSID)		
Should have basic WIPS to detect events related to DoS type attacks, AP anamoly and Wireless Clients. It should also support customized signature for device classification as neighbor or authorized wireless access points and wireless clients.		
Bandwidth supported with automatic Fallback:		
802.11b: 1, 2, 5.5, 11Mbps		
802.11g: 6,9,12,18,24,36,48, 54Mbps		
802.11a: 6,9,12,18,24,36,48, 54Mbps		
802.11n: MCS 0-15 up to 300Mbps	1	
Transmit Power 1 dBm increments / per regulatory domain		
1.4 Environmental		
Should support the operating temp $0^{\circ}$ to $40^{\circ}$ C and Humidity: 5 to 90% non-condensing.		
1.5 Regulatory		
•FCC • CE Marked • IC		

# **Annexure 'D' – Technical specification for UPS**

Technical Specification		Compliances (Yes/No)
1KVA Online UPS		
OUTPUT PARAMETER		
Capacity	1kVA/ 800 W	
Power Factor	0.8	
Wave Form	Pure Sine Wave (Online Double	
	Conversion)	
Nominal Voltage	220/230/240 V	
Voltage THD	<3% Linear Load, <=6% -Non	
	Linear Load	
Frequency Regulation-Free Run	±0.5 Hz	
(Unsynchronized with Bypass)		
Frequency Regulation (Synchronized with Bypass)	47.5 to 52.5 Hz / 57.5 to 62.5 Hz	
Creast Factor	3:01	
AC-AC Efficiency	88% at R-Load, 87%RCD-Load	
Transfer Time Mains-Battery	0 millisec	
Transfer Time Inverter-Bypass	4msec	
INPUT PARAMETER	reni or mar	GI .
Configuration	1Ph,L-N+PE	
Nominal Voltage	230 Vac	
Voltage Range	160V to 300V at 100% Load, 110V	
	to 300 V at 60% Load	
Frequency	50Hz / 60Hz	
Freq Range	40 to 70Hz, ±0.2 Hz	

PF	>=0.95	
BATTERY CHARGER	7-0.55	
Nominal Float Voltage	41Vdc	
Max Charging Current	4/8Amps	
BATTERY PARAMETER	r	
Type	SMF	
Backup Time	Minimum 1512 VAH is required for 60mins backup at 800W load	
No. of Battery Blocks	3nos	
Battery Voltage	36 V DC	
ENVIRONMENTAL PARAMETER		
Operating Temperature	0 to 40 deg°C	( )
Storage Temperature	-20 to 50 deg°C	
Noise Level	<45db	
MECHANICAL PARAMETER		
Product Size (DXWXH)	220 X 145 X 388.5	
Weight	13 kg	
Colour	RAL7016 dark grey	
Protection	IP20	
Communication Port	RS232, USB	
EPO	Yes	
Monitoring Software support	SNMP, UPSlion 2000, Dry Contact Card	
STANDARDS		
EMI	EN62040-2 : 2006	
Safety	EN62040-1-1: 2003	
Performance	IEC / EN 62040-3	
701	Manufacturer must be ISO 9001:2008 certified.	
	Manufacturer Must be ISO 14001 Certified	
	Bidder if not the manufacturer, must provide <b>Manufacturer's Tender Specific Authorization</b> that the	
MANUFACTURER'S CREDENTIALS	bidder is authorized sales & service provider.	
J 30 30		
Please enclose a printed brochure of the UPS system along with the offer in case there is a mismatch between quoted specifications and the Brochure Specifications then the tender may be rejected		

Undertaking

# -Annexure 'E' Technical specification for Earthing

- Supply, installation, commissioning of maintenance Free earthing.
- Provision of brick masonry chamber with internal Clearance (300x300mm0over the pit with C.I Cover heavy duty hinged to CI frame.
- Provision of at least 2 output connection from the electrode either by provision of additional copper plate with nuts & bolts of suitable dimension over the electrode.
- Measuring of pit resistance through Earth tester & submission of jointly taken test reports.
- Supply installation & commissioning of earth pit electrodes (maintenance free earthing) with corrosion resistant earth rod(17mm dia (3/4 inch) & 10 feet long copper bonded steel rods specially designed earthing made of Nickel Steel alloy) including necessary accessories complete.
- Supply laying termination at both ends with single core min. 16mm2 copper conductor cables from earth pit electrode to SEB neutral supply at main electrical panel/Neutral of DG set/RO earthing grid as applicable.
- Supply of earth enhancing Back fill Compound copper strips 25mmx6mm, GI strip, Fitting Clamps, Copper Cable. (16 Sq mm)
- All materials required for the work has to be supplied by the contractor.
- The ground enhancement material shall be electrically conductive and nonsoluble and it is used to achieve low ground resistance. It shall improve conductivity in the electrode ground contract area & should improve earth's absorbing power and humidity retention capacity. It shall be non corrosive in nature having low water solubility It shall be thermally stable between 0 degree + 60 degree Celsius shall be achieved .Shall be used in any kind of electrode and all kinds of grounds different sensitivity though the simple spill of the proper solution to the ground which surrounds the electrode. The desired result is lesser than or equal to 1 ohm. The measurement of the earth will be taken before and after monsoon and the minimum guarantee shall be not less than 24months for any failure, bad workmanship, improper material etc. This should be attended free of cost. Special earth treatment shall have to be provided in case Earth resistance goes above the specified maximum limit of one ohm.