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

TENDER DOCUMENT

FOR

THE WORK OF

"Migration of UTI ITSL Data Centre's Devices at Hyderabad & Navi Mumbai to RailTel Data Centre at Secunderabad and Gurgaon and associated works."

Tender No. RailTel/Tender/SR/DC/ST/2016-17/45

No. RailTel/Tender/SR/DC/ST/2016-17/44   Dt: 16.11.2016

HCL,
 HCL Towers, 44, Dwarakadas Colony,
Chikoti Gardens, Begumpet, Hyderabad - 500016.

TENDER NOTICE

Name of the Work / Services: Migration of UTI ITSL Data Centre's Devices at Hyderabad & Navi Mumbai to RailTel Data Centre at Secunderabad and Gurgaon and associated works - Reg

Tender Notice No. RailTel/Tender/SR/DC/ST/2016-17/44   Dt: 16.11.2016
***
RailTel Corporation of India Ltd, Southern Region, Secunderabad inviting offer for Migration of UTI ITSL Data Centre's Devices at Hyderabad & Navi Mumbai to RailTel Data Centre at Secunderabad and Gurgaon and associated works.. Please quote your most competitive offer for the subject work as per schedule of work given below. The offer shall be submitted in a sealed cover so as to reach Regional General Manager, RailTel Corporation of India Ltd, Southern Region, II floor, B-Block, Rail Nilayam, Secunderabad, Telangana on or **before 12.00 hrs of 23.11.2016**. The offer will be **opened at 12.15 hrs** on the same day. (If it happens to be a holiday tender will be opened on next working day at same time)

Schedule of Work:

S. No	Item description	Unit	Qty	Rate per unit	Total (Rs.)
1	Migration of UTI ITSL Data Centers' Devices from Hyderabad and Navi Mumbai to RailTel Data Centre at Secunderabad and Gurgoan as per the scope of work	Lumpsum	1		
2	Transit Insurance to the Data Centre Devices. i. Hyderabad to Secunderabad ii. Navi Mumbai to Gurgaon & Secunderabad **Total assets value, Rs.3,54,97,265/-**	Lumpsum	1		
	TOTAL				
	Total in Words :				

 Note:
1. **Offer is subject to Terms & Conditions in Annxure-1, Scope of Work in Annexure-2**
2. **Transit Insurance will be paid as per the actual charges. Necessary documents/ payment receipts from the insurance company had to be submitted.**
3. Any Discrepancy between figures and words amount in words shall be deemed final.
4. The above rate is inclusive of all taxes **excluding Service Tax.**

(Shailendra Dusa)
Sr. Manager/ Data Centre
Sign and Seal of the Tenderer   **for RGM/SR**

OFFER LETTER

To
RailTel Corporation of India Limited,
2nd floor B block, Rail Nilayam,
Secunderabad 500 071

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 30 days from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our Earnest Money. I/We offer to the work : Migration of UTI ITSL Data Centre's Devices at Hyderabad & Navi Mumbai to RailTel Data Centre at Secunderabad and Gurgaon and associated works - Reg as per Specification & scope of work given in this TENDER DOCUMENT, at the rates quoted in the attached schedules and hereby bind myself/ourselves to carry out the work as per the tender terms and conditions after execution of the agreement of the contract. I/We also hereby agree to abide by the Various Conditions of Contract and to carry out the work according to the scope of works laid down by the RailTel for the present contract.

2. A sum of Rs._____ as a Account Payee Demand Draft in favour of RailTel Corporation India Ltd. No._____ dt._____ issued by _____is herewith forwarded as "Earnest Money". The full value of Earnest Money shall stand forfeited without prejudice to any other rights or remedies if, I/We withdraw or modify the offer within validity period or do not deposit the security deposit (Performance Bank Guarantee) within 15 days after receipt of orders to that effect.

SIGNATURE OF SUPPLIER (S)

Date

CONTTRACTOR (S) ADDRESS

SIGNATURE OF WITNESS:

1.
2.

Terms & Conditions:

1	EMD	Rs. 58400/-/- (Rupees Fifty Eight Thousand and four hundred only) should be deposited as earnest money in favour of RailTel Corporation of India Ltd., payable at Secunderabad in the form of Demand Draft on any Scheduled Bank/Nationalized bank. The validity of Demand draft will be at least 60 days beyond opening of tender. No interest is allowed on this Deposit. Tenders not accompanied by Earnest Money will be summarily rejected
2	Rates, Taxes & Duties:	Rates quoted should be inclusive of all taxes, freight and duties. Except Service Tax which is extra as per Govt. Norms and should be shown separately
3	Validity of Agreement	90 day Extendable to 90 day more on mutual consent
4	Performance Guaranty (SD/PG)	i. The Security Deposit shall be 5% of total contract value. The Earnest Money (2% of tender estimated value) of the successful tenderer shall be adjusted towards the same. ii. Balance amount towards SD/PG of 5% total contract value shall be recovered from the contractor's "on account" bills or Bank Guaranty. iii. Security Deposit shall be returned to the contractor after 30 days of physical completion of the work as certified by the competent authority. iv. No interest will be payable upon the Earnest Money and Security Deposit. v. Wherever the contract is rescinded, security deposit/ PG shall be forfeited.
6	Terms of payment	100% payment will be paid after successful completion of work and certification from RailTel Engineer at Site.
7	Bill Passing & Paying Authority	GM/DNM/SR is the Bill passing authority and GM/Fin/SR will be paying Authority.
8	working in RailTel/Railway area	Staff of contractor should not infringe/disturb the work of RailTel/Railways and if any damage occurs to assets of RailTel/Railways while loading/ unloading & transporting of material, plying & parking of his vehicles, contractor will be responsible for the same.
9	Termination of Contract	RailTel reserves the right to interrupt and terminate the contract at any time after giving one month's notice should in RailTel's opinion the cessation of work become necessary, owing to paucity of funds of the contractor, the contractor inability to perform,

		frequent failure of targeted maintenance schedules. The PG should be forfeited in case of termination.
10	Settlement of Dispute & Arbitration	will be dealt in accordance with provisions contained in Arbitration and Conciliation Act 1996 and venue will be Secunderabad (Telangana)
11	Force Majeure	both the parties agree that neither party shall be liable for each other for delay or non-performance of respective obligations in the event beyond the control of each party which can be termed as force major
12	Deviations	Scope of work is at Annexure-2, No deviations from the scope of work is allowed.
	VAT TIN No., PAN No. & Service Tax Regd. No should be mentioned on Bill for arranging payment. Break up of taxes must be shown on the bill.	

Scope of Work

RailTel's Customer, UTI ITSL is relocating / migrating from their Data Centre to RailTel Data Centre as follows.

1. UTI ITSL (DR), Koti, Hyderabad to RailTel's Data Centre, Secunderabad
2. UTI ITSL(DC), Belapur, Navi-Mumbai to RailTel's Data Centre in Gurgaon.
3. Transit Insurance for the UTI ITSL devices. Current value is.
   i. Value of devices at UTI ITSL, Navi Mumbai is Rs.1,79,07,929/-
   ii. Value of devices at UTI ITSL, Hyderabad is Rs.1,75,89,337/-

RailTel Data Centre/ Secunderabad will be UTI ITSL's primary Data centre and RailTel's Data Centre/ Gurgaon will be UTI ITSL's DR site.

The migration has to done in Two Phase.
Phase-1:
   i. Migration of devices from UTI ITSL, Hyderabad to RailTel DC/Secunderabad.
   ii. Stabilize the Devices and connectivity.
   iii. Shift earmarked devices from Navi Mumbai location to RailTel DC/Secunderabad.
   iv. Install the devices received from Navi Mumbai in RailTel DC/Secunderabad so as to upgrade it to UTI ITSL's Primary site.
   v. Stabilize the devices and connectivity.

Phase-2
   i. Migration of devices from UTI ITSL, Navi Mumbai to RailTel DC/Gurgaon.
   ii. Stabilize the Devices and connectivity.

The aim of this Tender is, the identified SI should proposed solution to assist RailTel with the following key areas of Migration:

- Network configuration at new RailTel DC at Gurgaon and Secunderabad
- Physical data center assets migration as per industry standard and best practices
- Project management for Datacenter Migration

The SI should carry out the work with Best Industry practices and submit along with the proposal following;

- Checklists and refined templates,
- Detail project plan and mitigation strategy and
- Governance and communication planning templates
- Highly Experienced Teams who perform this work on a regular basis
- Insight, experience, wisdom from executing many migration efforts

The scope of work has been described in brief as below;

A. Network configuration services:

- Understand current Network architecture and implemented configuration
- Perform back of current network configuration
- Understand and collaborate for to be Network Architecture, implementation and configuration for new DC sites.

B. Datacenter assets physical re-location services:

- UTI DC and DR relocation to RailTel's IDC in Gurgaon and Secunderabad
- Reduce downtime
- Relocate with best practices
- Provide project management and mitigation strategy

The following processes had to be followed, these are minimum and not limited to.

Pre Move Process:
- Site Evaluation/Pre Move Survey
- Asset Evaluation as per the Inventory
- Current Network architect understanding and diagrams
- Risk Assessment & Mitigation Plan
- Diagramed Move Plan
- Schedule Management
- End to End Equipment Insurance

Graceful shutdown Process:
- Network configuration backup
- Labeling of cables (Port Identification Diagram)
- Unplugging the cables
- Un-mounting of Servers, Storage and Network devices
- Cleaning of Servers, Storage and Network devices
- Preparing of Detailed Inventory sheet

Migration Process:
- Professional packing of the DC assets
- Labeling of the DC assets cartons
- Loading the DC assets
- Preparing of Documents like Chalan, Gate pass (provided by UTI ITSL)
- Migration of the DC assets to the destination
- Unloading the DC assets cartons
- Unpacking of the DC assets
- Inventory reconciliation

Installation Process:
- Staging of Devices in Railtel DC.
- Mounting of DC assets as per the desired Rack Diagram
- Re-Cabling (Fiber cables, Network cables, Power code)
- Dressing of the cables using Velcro Ties
- Configuration of network as-is or to-be architecture as agreed
- Testing of network connectivity
- Testing of other connectivity like cross cabling, connectivity between storage and Database etc.

DC Migration Scope of Work
Planning Phase
- Collaborate with UTI-RailTel to assist in the Relocation plan.
- Conduct a Site surveys existing DC, DR and proposed RailTel IDCs
- As-is Network architecture, configuration documentation
- Plan the activities, and list the dependencies.

Execution Phase
- Backup Network configuration
- All stated below inventory DC asset to be shifted from Hyderabad to Secunderabad & Mumbai to Delhi
- The complete execution will be completed in two phases as specified above.
- Labeling the equipment (Port identification and detailed diagram)
- Un-mount the equipment's from the rack as per the schedule plan
- Pack the equipment in shock proof packing materials and Plywood boxes.
- Move and Load the materials using suitable equipment's like hydraulic trolleys, etc. and manpower and move the boxes.
- Equipment will be moved from;
  - I. **UTI ITSL/ Hyderabad to RailTel/ Secunderabad**
  - II. **UTI ITSL/ Mumbai to RailTel/Gurgaon & few devices to RailTel/ Hyderabad.**
- Unpack the equipment's in RailTel sites
- Place the equipment's at the RailTel site
- Place and mount the equipment's as per the Rack placement design and dressing of cables.
- Network configuration.
  - Removal of Packing Debris from target site.

All the Data Centre Devices had be to packed with proper packing materials like Air bubble, ploy urethane Form, stretch films, corrugated sheets, silica gels and should be placed in the customized boxes as per U size of the device.

Location-Wise asset details: These are the minimum devices to be migrated. There may be addition or deletion of 5 devices per location.

Sr.no	Item	Device Name	Make/Model	Configuration	Qty.
				UTI ITSL DC Location IT Equipment Details (Navi mumbai)	
1	Server	VM Server	IBM / X 3650 M4	2X Intel Xeon 8C, E5-2667v2 130W 3.3GHz (Multithread), 128 GB RAM, 2X300GB HDD, 2 nos. of FC Card, 8x1 Gbps Network Card, DVD Writer	1
2	Server	VM Server	IBM / X 3650 M4	2X Intel Xeon 8C, E5-2667v2 130W 3.3GHz (Multithread), 128 GB RAM, 2X300GB HDD, 2 nos. of FC Card, 8x1 Gbps Network Card, DVD Writer	1
3	Server	VM Server	IBM / X 3650 M4	2X Intel Xeon 8C, E5-2667v2 130W 3.3GHz (Multithread), 128 GB RAM, 2X300GB HDD, 2 nos. of FC Card, 8x1 Gbps Network Card, DVD Writer	1
4	Server	Backup Server	DELL / PE 2950 III	2X Intel Zeon Quad Core E5405, 2.0 GHz, 8GB (4X2GB) RAM, 3X146 GB 3.5 15K RPM SAS HOT Swap HDD, CDROM, 2 NIC, Dual Port HBA Card, Windows 2008 R2	1
5	Server	Novell Server	IBM / X 3650 7979-61A	Intel Xeon Dual core 2.66 GHz, 4 GB DDR RAM, 4X 146 GB SAS Hot Swap HDD, DVD CDRW	1
6	Server	ESIC Project	DELL / PE 2950 III	2X Intel Zeon Quad Core E5405, 2.0 GHz, 8GB (4X2GB) RAM, 3X146 GB 3.5 15K RPM SAS HOT Swap HDD, 400/800 GB External LTO, 1.44 FDD, CDROM, 4 NIC, Linux (RHEL5.4)	1
7	Server	Database Server	HP / DL 580 G4	4 x Intel Zeon 3.0 GHz CPU, 8 x 4GB RAM, 8 x 146 GB HDD, DVD Combo Drive,	1
8	Monitor & Keyboard	1 U Monitor	HP/TFT 7600	HP TFT 7600 17" 1U monitor with integrated keyboard mouse	1
9	KVM Switch		ATEN	ATEN - 8 Port PS/2 KVM Switch	1
10	Backup Device	LTO 3 Tape Drive	IBM	LTO 3 IBM Ultrium Gen 3 (400/800) Type 8768-FHX Enclosure	1
11	Backup Device	LTO 3 Tape Drive	HP	HP Storage works Ultrium LTO 3 (400/800)	1
12	Switch	SAN Switch		16 Port EMC DS 300 B	1

13	Switch	SAN Switch		16 Port EMC DS 300 B	1
14	Storage	Unified Storage Box	EMC /VNX 5300	EMC VNX 5300 Unified Storage Box, having 35TB storage	1
15	Backup Device	Tape Library	Tandberg / T40+	Tandberg T40+ Tape Library 2XLTO5 FC drives, 24 Slots with redundant power supply, rack mountable kit,	1
16	Storage	NAS Storage Box	EMC / NS351	EMC NS 350 NAS Storage Box with Quantum Super Loader 3, 10TB Storage	1
17	Backup Device	LTO 3 Autoloader	Quantum	Quantum Super Loader 3 LTO 3 Tape Drive, 8 Slots	1
18	Security Device	HSM	THALES (NH2054)	THALES (NH2054) nShield Connect 500 + F3	1
19	Video Conference Device	Polycom VBP	VBP 4555	PolycomVBP4555E Firewall/NAT Unit	1
20	Network Switch	Core Switch	Cisco 6509	Catalyst 6500 9-slot Chassis + Fan Tray + Sup720-10G. IP Base only incl. VSS	2
				10GBASE- SR X2 Module	18
				C6K 8 Port 1 0 Gigabit Ethernet Module with DFC3C (reg X2)	2
				Cat6500 48-Port 10/100/1000 GE Mod: Fabric Enabled RJ-45	4
				Catalyst 6500 Dist Fwd Card for WS-X67xx Module	6
				Catalyst 6500 3000W AC Power Supply	4
				Cat 6500 Supervisor 720 with 2 ports 10GbE and MSFC3 PFC3C	2
				Catalyst 6500 Multilayer Switch Feature Card (MSFC) III	2
				Catalyst 6500 Supervisor 720 with 2 10GbE Ports	2
				Catalyst 6509-E Chassis FanTray	2
				Bootflash for SUP720-64MB-RP	2
				Cat 6500 512MB DDR ,xCEF720 (67 xx interface DFC3A/DFC3B)	4
				Cat6500 8 port 10Gigabit Ethernet Module (reg DFC and X2)	2
				Power Cord, 250Vac 16A,Europe	4
				Cisco CAT6000-VSS720 IOS DVANCED IP SERVICES SSH	2
				SP adapter for SUP720 and SUP720-10G	2
				Catalyst 6500 Sup720 -10G Policy Feature Card 3C	2

Sr.no	Item	Device Name	Make/Model	Configuration	Qty.
				UTI ITSL DR Location IT Equipment Details (Hyderabad)	
1	Server	VM Server	IBM / X 3650 M4	2X Intel Xeon 8C, E5-2667v2 130W 3.3GHz (Multithread), 128 GB RAM, 2X300GB HDD, 2 nos. of FC Card, 8x1 Gbps Network Card, DVD Writer	1
2	Server	VM Server	IBM / X 3650 M4	2X Intel Xeon 8C, E5-2667v2 130W 3.3GHz (Multithread), 128 GB RAM, 2X300GB HDD, 2 nos. of FC Card, 8x1 Gbps Network Card, DVD Writer	1
3	Server	Backup Server	DELL / PE 2950 III	2X Intel Zeon Quad Core E5405, 2.0 GHz, 8GB (2X4GB) RAM, 3X146 GB 3.5 10K RPM SAS HOT Swap HDD, 400/800 GB External LTO, 1.44 FDD, CDROM, 4 NIC, Linux (RHEL 5.4)	1
4	Monitor & Keyboard				1
5	KVM Switch				1
6	Switch	SAN Switch		16 Port EMC DS 300 B	1
7	Switch	SAN Switch		16 Port EMC DS 300 B	1
8	Storage	EMC / VNX 5300		EMC VNX 5300 Unified Storage Box, having 35TB storage capacity and upgradable upto 100 TB	1
9	Backup Device	Tape Library	IBM / TS 3200	IBM TS 3200 Tape Library 2XLTO5 FC drives, 24 Slots with redundant power supply, rack mountable kit, scalable up to 4 FC Drives	1
10	Security Device	HSM	THALES (NH2054)	THALES (NH2054) nShield Connect 500 + F3	1
11	Router	Core Router-1-2	CISCO 3925	C3925-VSEC/K9	2
				NM-HDV2-2T1/E1	2
				VWIC2-2MFT-T1/E1	2
				PVDM2-64	2
				HWIC-2CE1T1-PRI	2
				HWIC-2FE	2
				HWIC-4T	2
				GLC-SX-MM	4
				SM-NM-ADPTR	2
				PWR-3900-AC/2	4
12	Network Switch	Core Switch-1-2	CISCO 6509	WS-C6509-E	2
				X2-10GB-SR	2
				X2-10GB-SR	16
				WS-X6748-GE-TX	2

				WS-F6700-DFC3C	2
				WS-X6748-GE-TX	2
				WS-F6700-DFC3C	2
				WS-CAC-3000W	4
				VS-F6K-MSFC3	2
				VS-F6K-PFC3C	2
				VS-S720-10G	2
				WS-F6700-DFC3C	2
				WS-X6708-10GE	2
				WS-C6509-E-FAN	2
					14