



**SERVICE  
ENQUIRY  
(IMPORTS)**

## BHARAT HEAVY ELECTRICALS LIMITED

( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - Fossil Boilers  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

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Vendor Code : 23505	Enquiry No	Enquiry Date	Due Date for Quotation
Vendor Name : Open Tender Dummy Code	2651400027	12.09.2014	10.10.2014
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

ITEM NO	ITEM DESCRIPTION	Delv Date	Quantity	UOM
10	Upgrade and maintenance of high-end netw			
Upgrade and maintenance of high-end network components Detailed scope of tender as per attached annexures				
SINo	Description	Delv Date	Quantity	UOM
10	Upgrade and maintenance of high-end network	01.12.14	20.000	Quarter

**General Note:**

*Components.*

1. Please submit your detailed offer in two part bid system i.e Part-I. Technical bid + Checklist (Annexure-A) + Unpriced bid indicating taxes & duties (Annexure-B&C) in a sealed cover, super scribing on the cover as "TECHNICAL & COMMERCIAL BID / PART-I"

Part-II. Priced offer in another separate sealed cover super scribing on the cover as "PRICE BID / PART-II"

Both the covers shall be duly super-scribed with tender reference and due date of opening. These covers shall be put in a single cover duly super-scribed with tender reference and due date of opening and addressed to us.

2. Point-to-point confirmation to BHEL's specification and commercial terms & conditions shall be provided. The supplier must fill and send all the Annexures as indicated in the list of attachments. Annexure-A & Annexure-B & C (with taxes and duties, without indicating prices) should be filled and submitted along with the technical bid, else your offer is liable for rejection.

3. Offers with validity of less than 180 days and non-acceptance of LD & RP clause and reverse auction will lead to rejection of submitted offer.

4. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.

5. All clarifications may be sought at least ten days prior to tender due date, from the undersigned with due written request.

6. BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed price bid, which will be decided after technical and commercial evaluation. Information and general terms and

The offers should reach us before the time of opening of tenders.  
The offers will be opened at 14:30 hours on the due date in the presence of the tenderers who may like to be present.  
Late tenders are liable to be rejected.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE  
Fossil Boilers

*P.G. ABRAHAM VICTOR*  
Senior Manager  
Purchase / MM / MFG  
BHEL, TRICHY - 620 014.



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conditions covering RA are given in commercial terms and conditions (Annexure-A/Point no.17)

7. Order shall be placed on single vendor on cumulative L1 basis for total package.

8. BHEL will consider MSE vendor as per Government guidelines.

9. Vendors are requested to avoid the following points while submitting the Bid Documents:

- Loose or spiral bound bid documents are not encouraged.
- In case of any corrections/overwriting in the tender documents, the same shall be duly attested by the bid submitter.

10. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

## Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us before the time of opening of tenders.  
The offers will be opened at 14:30 hours on the due date in the presence of the tenderers who may like to be present.  
Late tenders are liable to be rejected.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE  
(Fossil Boilers)

**P.G. ABRAHAM VICTOR**  
Senior Manager  
Purchase / MM / MFG  
BHEL, TRICHY - 620 014



**Bharat Heavy Electricals Limited**  
**(High Pressure Boiler Plant)**  
 Tiruchirappalli – 620014, TAMIL NADU, INDIA  
**MATERIALS MANAGEMENT**

<p><u>TITLE:</u></p> <p>High End Network Switch Upgrade</p>	<p>Phone: +91 431 2577331</p> <p>Fax : +91 431 252 07 19</p> <p>Email : <a href="mailto:srchandran@bheltry.co.in">srchandran@bheltry.co.in</a> (or)  <a href="mailto:pgavictor@bheltry.co.in">pgavictor@bheltry.co.in</a></p> <p>Web : <a href="http://www.bhel.com">www.bhel.com</a>,  <a href="http://tenders.gov.in">http://tenders.gov.in</a></p>
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	<p><b>Reference Number:</b></p> <p><b>Enquiry 2651400027</b></p>	<p><b>Enquiry Date:</b></p> <p><b>12.09.14</b></p>	<p><b>Due date for submission of quotation: 10.10.14</b></p>
<p>You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order.</p>			

High End Network Switch Upgrade

<p>BHEL commercial terms &amp; conditions with Technical specifications can be downloaded from BHEL web site <a href="http://www.bhel.com">http://www.bhel.com</a> or from the Government tender website <a href="http://tenders.gov.in">http://tenders.gov.in</a> (public sector units) Bharat Heavy Electricals Limited under enquiry no.2651400027 dt:12.09.14 ""</p>	
<p>Tenders should reach us before 14:00 hours on the due date.</p> <p>Technical bid will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.</p>	<p>Yours faithfully,</p> <p>For Bharat Heavy Electricals Limited</p> <p>Sr.Manager / Capital Purchase / MM/RM</p>

**Annexure-I**

**BHEL TIRUCHIRAPPALLI      INFORMATICS CENTRE**

RFQ for High End Network Switch Upgrade at BHEL – TRICHY

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Annexure-A Commercial terms & conditions-6 pages

Annexure-B Price format for Financial Lease

Annexure-C Price format for Outright Purchase

Annexure-II No deviation certificate

Annexure-III Third-party Non-Disclosure Certificate

Annexure-IV Past Experiences

## GENERAL

BHEL is the largest engineering and manufacturing enterprise in India in the energy-related/infrastructure sector. BHEL was established more than 50 years ago, ushering in the indigenous Heavy Electrical Equipment industry in India - a dream that has been more than realized with a well-recognized track record of performance.

BHEL's Trichy Complex is one of the leading boiler manufacturers in the world and India's largest engineering and manufacturing enterprises providing total boiler solutions for utility, industrial, captive power and heat recovery applications. It also manufactures Valves for Power and Industrial applications, Soot Blowers and Seamless Steel Tubes.

BHEL Trichy LAN has evolved over the years. In the process of expansion many locations were added. The number of network points increased multi fold in the existing locations also. The existing BHEL LAN consists of over 75 Km of optical fibre, more than 400 Km of UTP cabling, more than 400 Layer 2 switches, 10 Layer 3 switches and more than 5000 nodes spread over a geographical area of 9 Square Km.

BHEL – Trichy proposes to upgrade high end core and distribution switches located in the various buildings within the campus. In order to provide high availability and reliability of the network backbone, it is proposed to upgrade the LAN core and distribution switches. To enhance network backbone performance, it is also proposed to have redundancy to all the distribution locations, in such a way that both fibre level and core level redundancy is established.

This networking proposal consists of the following:

1. Supply of components, configuration and maintenance of core switches.
2. Supply of components, configuration and maintenance of distribution switches.
3. Supply, configuration and maintenance of edge switches.
4. Installation, establishment of connectivity, testing, commissioning and documentation.

The procurement of all the components in the tender will be under a **financial lease rental contract for a period of 5 years**. This proposal covers maintenance of the core switches, distribution switches and edge switches in whole and not restricted to the components supplied. During the lease rental period of 5 years, the contractor shall maintain sufficient spares, to ensure the prescribed uptime of the items covered.

After completion of 5 years of contract period BHEL may opt for subsequent 2 years of Annual Maintenance Contract (AMC).

## **2 ELIGIBILITY CRITERIA FOR BIDDERS**

The tender is open to bidders qualifying all of the following eligibility criteria:

1. The bidder should be a company registered in India.
2. The bidder should be an existing Network System Integrator for more than 5 years.
3. The bidder should be an authorised partner of Cisco.
4. The bidder should possess ISO 9001 certification in network implementation
5. The bidder should be earning profit for the last 3 years.
6. The bidder should not be involved in any bankruptcy Issues. The bidder should give a declaration to this effect.
7. The bidder should have experience in executing Enterprise LANs. The bidder should have successfully executed Enterprise LANs during the last 5 years in any one of the following categories:
  - a)
    1. At least Three Enterprise LANs, each with order value of not less than Rs. 80 Lakhs on Lease Rental or Rs. 50 Lakhs on outright purchase basis,

Or

2. At least Two Enterprise LANs, each with order value of not less than Rs. 90 Lakhs on Lease Rental or Rs. 60 Lakhs on outright purchase basis,  
Or

3. At least One Enterprise LAN, with order value of not less than Rs. 1.6 Crores on Lease Rental or Rs. 1.0 Crores on outright purchase basis.

And

- b) The bidder should also have successfully executed at least One Enterprise LAN before 5 years with order value of not less than Rs. 50 Lakhs on Lease Rental or 30 Lakhs on outright purchase basis.
8. Order value in the above context refers to a PO consisting of minimum 50% of PO value in supply of active components. (The Enterprise LAN shall be at a single location.)
9. At least one of these contracts (in 7a/7b above) or any other contract with order value of not less than Rs. 50 Lakhs, shall be on lease rental basis. The lease rental contract should have been successfully completed or if continuing, should have completed at least 3 years.
10. PO copies and commissioning certificates (for points 7, 8 and 9) should be enclosed. POs and evidences shall be in the name of bidder. POs and evidences in the name other than that of bidder shall not be considered.
11. The implementation of this project should involve Cisco certified professionals who are in the rolls of the bidder and who possess experience of implementing / maintaining Enterprise Network Solution. List of certified professionals should be submitted.
12. The bidder should not be under Hold or Blacklist by any of BHEL units as on bid opening date, for any of product or service related to Enterprise Network.
13. The bidder should be able to provide committed support for quoted network actives for a minimum period of 5 years from OEM in writing. The bidder shall give commitment letter for additional 2 years support either through OEM or on their own.
14. Authorisation letter from Cisco (for switches & components) shall be enclosed to participate in this tender.

**Note:**

1. Certificates and evidences should be provided as a proof for all the above mentioned eligibility criteria.
2. If the bidder does not fulfill any of the eligibility criteria mentioned above, the offer will be rejected.

**3 SPECIAL INSTRUCTIONS TO THE BIDDER**

1. The offer shall be submitted in full, covering the total scope. Partial offer will not be accepted and will not be considered for evaluation.
2. The bidder shall sign all the pages of the Tender document and all the supporting documents. Signing of the document means that the bidder has fully understood the Tender and complies with all the requirements.
3. All updates /upgrades of the software of switches, shall be provided during the entire 5 year lease period at no extra cost. The bidder shall give commitment letter in this regard.

**4 SCOPE OF WORK**

1. Supply and assembly of switch components
2. Movement of supplied materials within the BHEL campus
3. Mounting of switches in the racks and interconnection
4. Initial configuration of switches as per BHEL's requirement
5. Implementing High availability features like VSS in the switches deployed, as per BHEL's requirement
6. Testing and documentation
7. Maintenance

5 BILL OF MATERIALS

The bill of material to be installed under this contract is given in the following sections.

Sl. No.		Location	Type
1		Building 2&4 Core Switch	Core Switch
Item No.	Part No.	Description	Quantity
1.1	VS-S2T-10G=	Cat 6500 Sup 2T with 2 x 10GbE and 3 x 1GbE with MSFC5 PFC4	1
1.2	S2TIBK9-15102SY	Cisco CAT6000-VS-S2T IOS IP BASE FULL ENCRYPT	1
1.3	MEM-C6K-INTFL1GB	Internal 1G Compact Flash	1
1.4	VS-F6K-PFC4	Cat 6k 80G Sys Daughter Board Sup2T PFC4	1
1.5	VS-SUP2T-10G	Catalyst 6500 Supervisor Engine 2T Baseboard	1
1.6	MEM-SUP2T-2GB	Catalyst 6500 2GB memory for Sup2T and Sup2TXL	1
1.7	SFP-10G-LR=	10GBASE-LR SFP+ Module	2

Sl. No.		Location	Type
2		Building 78 Core Switch	Core Switch
Item No.	Part No.	Description	Quantity
2.1	VS-S2T-10G=	Cat 6500 Sup 2T with 2 x 10GbE and 3 x 1GbE with MSFC5 PFC4	1
2.2	S2TIBK9-15102SY	Cisco CAT6000-VS-S2T IOS IP BASE FULL ENCRYPT	1
2.3	MEM-C6K-INTFL1GB	Internal 1G Compact Flash	1
2.4	VS-F6K-PFC4	Cat 6k 80G Sys Daughter Board Sup2T PFC4	1
2.5	VS-SUP2T-10G	Catalyst 6500 Supervisor Engine 2T Baseboard	1
2.6	MEM-SUP2T-2GB	Catalyst 6500 2GB memory for Sup2T and Sup2TXL	1
2.7	SFP-10G-LR=	10GBASE-LR SFP+ Module	2

Sl. No.		Location	Type
3		Building 24 Distribution Switch	Distribution Switch - Type A
Item No.	Part No.	Description	Quantity
3.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
3.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
3.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
3.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
3.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
3.6	SFP-10G-LR=	10GBASE-LR SFP+ Module	2

Sl. No.		Location	Type
4		Building 53 Distribution Switch	Distribution Switch - Type A
Item No.	Part No.	Description	Quantity
4.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
4.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
4.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
4.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
4.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
4.6	SFP-10G-LR=	10GBASE-LR SFP+ Module	2

Sl. No.		Location	Type
5		Building 79 Distribution Switch	Distribution Switch - Type A
Item No.	Part No.	Description	Quantity

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5.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
5.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
5.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
5.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
5.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
5.6	SFP-10G-LR=	10GBASE-LR SFP+ Module	2

Sl. No.		Location	Type
6		Building 5 Distribution Switch	Distribution Switch – Type B
Item No.	Part No.	Description	Quantity
6.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
6.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
6.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
6.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
6.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
6.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
6.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1

Sl. No.		Location	Type
7		Building 6 Distribution Switch	Distribution Switch– Type B
Item No.	Part No.	Description	Quantity
7.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
7.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
7.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
7.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
7.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
7.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1

Sl. No.		Location	Type
8		Building 3 Distribution Switch	Distribution Switch– Type B
Item No.	Part No.	Description	Quantity
8.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
8.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
8.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
8.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
8.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
8.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
8.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1

Sl. No.		Location	Type
9		Building 91 Distribution Switch	Distribution Switch– Type B
Item No.	Part No.	Description	Quantity
9.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
9.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
9.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
9.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
9.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
9.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1

Sl. No.		Location	Type
10		Building 50 Distribution Switch	Distribution Switch- Type B
Item No.	Part No.	Description	Quantity
10.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
10.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
10.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
10.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
10.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
10.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
10.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1

Sl. No.		Location	Type
11		Building TPS Distribution Switch	Distribution Switch- Type B
Item No.	Part No.	Description	Quantity
11.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
11.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
11.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
11.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
11.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
11.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1

Sl. No.		Location	Type
12		Building HRDC Distribution Switch	Distribution Switch- Type B
Item No.	Part No.	Description	Quantity
12.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
12.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
12.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
12.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
12.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
12.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1

Sl. No.		Location	Type
13		Building 108 Phase II Distribution Switch	Distribution Switch- Type B
Item No.	Part No.	Description	Quantity
13.1	WS-C4503-E	Cat4500 E-Series 3-Slot Chassis fan no ps	1
13.2	WS-X45-SUP7L-E	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
13.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
13.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
13.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
13.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
13.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1

Sl. No.		Location	Type
14		Building 78 Distribution Switch	Distribution Switch- Type A
Item No.	Part No.	Description	Quantity
14.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
14.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
14.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
14.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2

14.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
14.6	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1
14.7	PWR-C45-1300ACV	Catalyst 4500 1300W AC Power Supply (Data and PoE)	1
14.8	CAB-AC-2800W-INT	International Power Cord	2
14.9	PWR-C45-1300ACV/2	Catalyst 4500 1300W AC Power Supply (Data and PoE)	1
14.10	CAB-CON-C4K-RJ45	Console Cable 6ft with RJ-45-to-RJ-45	1

Sl. No.		Location	Type
15		Building 2&4 Distribution Switch	Distribution Switch- Type B
Item No.	Part No.	Description	Quantity
15.1	WS-C4503-E	Cat4500 E-Series 3-Slot Chassis fan no ps	1
15.2	WS-X45-SUP7-E	Catalyst 4500 E-Series Supervisor 7-LE 520Gbps	1
15.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
15.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
15.5	C4500E-IPB	Paper IP Base License	1

Sl. No.		Location	Type
16		Various locations	Edge Switch
Item No.	Part No.	Description	Quantity
16.1	WS-C2960S-24PS-L	Catalyst 2960S 24 GigE PoE 370W 4 x SFP LAN Base	20
16.2	CAB-IND-10A	10A Power cable for India	20
16.3	PI-MSE-PRMO-INSRT	^Insert Packout - PI-MSE	20
16.4	PWR-CLP	Power Retainer Clip For Cisco 3560-C and 2960-C Compact Switch	20

Sl. No.		Location	Type
17		Various locations	SFP Module
Item No.	Part No.	Description	Quantity
17.1	GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module SMF 1310nm DOM	8
17.2	GLC-LH-SMD=	1000BASE-LX/LH SFP transceiver module SMF 1310nm DOM	49

## 6 MAINTENANCE

All the actives supplied and installed as per this tender, as well as existing components (the total list is given in this section) shall be maintained for a period of 5 years.

At least 2 resident CCNA certified engineers shall be posted to maintain the network. The engineers will be evaluated by BHEL before posting. The engineers should be available in two shifts (6:00 to 14:00 and 14:00 to 22:00) on all working days (Monday to Saturday). The engineers should be available 24 X 7 on call. Engineers will adhere to BHEL's holiday calendar.

Maintenance activities include the following:

- Daily report showing status of all switches
- Configuration changes as per the requirement of BHEL
- Upgrade of IOS on switches as and when required
- Troubleshooting network issues
- Replacement of faulty/malfunctioning switches / components
- Attending to minor changes and relocations in connectivity
- Assisting in cleaning and dressing of network racks
- Any other relevant report as per the requirement of BHEL

The activities given above are only indicative. The engineers/technicians shall carry out relevant activities as per the instructions of the Network Manager. Tools required for performing the above activities are under the scope of the bidder.

Maintenance includes both newly replaced components as well as existing components. The list of items covered under the scope is as follows:

Sl. No.		Location	Type
1		Building 2&4 Core Switch	Core Switch
Item No.	Part No.	Description	Quantity
1.1	VS-S2T-10G=	Cat 6500 Sup 2T with 2 x 10GbE and 3 x 1GbE with MSFC5 PFC4	1
1.2	S2TIBK9-15102SY	Cisco CAT6000-VS-S2T IOS IP BASE FULL ENCRYPT	1
1.3	MEM-C6K-INTFL1GB	Internal 1G Compact Flash	1
1.4	VS-F6K-PFC4	Cat 6k 80G Sys Daughter Board Sup2T PFC4	1
1.5	VS-SUP2T-10G	Catalyst 6500 Supervisor Engine 2T Baseboard	1
1.6	MEM-SUP2T-2GB	Catalyst 6500 2GB memory for Sup2T and Sup2TXL	1
1.7	SFP-10G-LR=	10GBASE-LR SFP+ Module	2
1.8	WS-C6509-E	Enh C6509 Chassis, 9slot, 15RU, No Pow Supply, No Fan Tray	1
1.9	WS-X6704-10GE	Cat6500 4-port 10 Gigabit Ethernet Module (req. XENPAKs)	1
1.10	WS-F6700-DFC3B	Catalyst 6500 Dist Fwd Card, 256K Routes for WS-X67xx	1
1.11	XENPAK-10GB-LR	10GBASE-LR XENPAK Module	4
1.12	WS-X6748-GE-TX	Cat6500 48-port 10/100/1000 GE Mod: fabric enabled, RJ-45	1
1.13	WS-F6700-DFC3B	Catalyst 6500 Dist Fwd Card, 256K Routes for WS-X67xx	1
1.14	WS-X6724-SFP	Catalyst 6500 24-port GigE Mod: fabric-enabled (Req. SFPs)	1
1.15	WS-F6700-DFC3B	Catalyst 6500 Dist Fwd Card, 256K Routes for WS-X67xx	1
1.16	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	14
1.17	WS-C6509-E-FAN	Catalyst 6509-E Chassis Fan Tray	1
1.18	WS-CAC-3000W	Catalyst 6500 3000W AC power supply	2
1.19	CAB-AC-2500W-INT	Power Cord, 250Vac 16A, INTL	2
1.20	WS-X6724-SFP	Catalyst 6500 24-port GigE Mod: fabric-enabled (Req. SFPs)	1
1.21	WS-CAC-3000W	Catalyst 6500 3000W AC power supply	1
1.22	WS-C6509-E-FAN	Catalyst 6509 - E Chassis Fantray	1

Sl. No.		Location	Type
2		Building 78 Core Switch	Core Switch
Item No.	Part No.	Description	Quantity
2.1	VS-S2T-10G=	Cat 6500 Sup 2T with 2 x 10GbE and 3 x 1GbE with MSFC5 PFC4	1
2.2	S2TIBK9-15102SY	Cisco CAT6000-VS-S2T IOS IP BASE FULL ENCRYPT	1
2.3	MEM-C6K-INTFL1GB	Internal 1G Compact Flash	1
2.4	VS-F6K-PFC4	Cat 6k 80G Sys Daughter Board Sup2T PFC4	1
2.5	VS-SUP2T-10G	Catalyst 6500 Supervisor Engine 2T Baseboard	1
2.6	MEM-SUP2T-2GB	Catalyst 6500 2GB memory for Sup2T and Sup2TXL	1
2.7	SFP-10G-LR=	10GBASE-LR SFP+ Module	2
2.8	WS-C6509-E	Enh C6509 Chassis, 9slot, 15RU, No Pow Supply, No Fan Tray	1
2.9	WS-X6704-10GE	Cat6500 4-port 10 Gigabit Ethernet Module (req. XENPAKs)	1
2.10	WS-F6700-DFC3B	Catalyst 6500 Dist Fwd Card, 256K Routes for WS-X67xx	1
2.11	XENPAK-10GB-LR	10GBASE-LR XENPAK Module	4
2.12	WS-X6748-GE-TX	Cat6500 48-port 10/100/1000 GE Mod: fabric enabled, RJ-45	1
2.13	WS-F6700-DFC3B	Catalyst 6500 Dist Fwd Card, 256K Routes for WS-X67xx	1
2.14	WS-X6724-SFP	Catalyst 6500 24-port GigE Mod: fabric-enabled (Req. SFPs)	1
2.15	WS-F6700-DFC3B	Catalyst 6500 Dist Fwd Card, 256K Routes for WS-X67xx	1
2.16	WS-X6748-GE-TX	Cat6500 48-port 10/100/1000 GE Mod: fabric enabled, RJ-45	1
2.17	WS-X6704-10GE	Cat6500 4-Port 10 Gigabit Ethernet module (required XENPAKS)	1
2.18	WS-F6700-DFC3B	Catalyst 6500 Dist Fwd card, 256K routes for WS-X67xx	1

Sl. No.		Location	Type
3		Building 24 Distribution Switch	Distribution Switch - Type A
Item No.	Part No.	Description	Quantity
3.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
3.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
3.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
3.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
3.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
3.6	SFP-10G-LR=	10GBASE-LR SFP+ Module	2
3.7	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
3.8	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
3.9	CAB-7KACU	AC Power Cord (UK)	2
3.10	WS-X4302-GB	Catalyst 4000 Gigabit Ethernet Module, 2-Ports (GBIC)	1
3.11	WS-X4548-GB-RJ45	Catalyst 4500 Enhanced 48-Port 10/100/1000 Base-T (RJ-45)	1
3.12	WS-G5486	1000BASE-LX/LH long haul GBIC (singlemode or multimode)	1
3.13	X2-10GB-LR	10GBASE-LR X2 Module	2

Sl. No.		Location	Type
4		Building 53 Distribution Switch	Distribution Switch - Type A
Item No.	Part No.	Description	Quantity
4.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
4.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
4.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
4.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
4.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
4.6	SFP-10G-LR=	10GBASE-LR SFP+ Module	2
4.7	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
4.8	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
4.9	CAB-7KACU	AC Power Cord (UK)	2
4.10	WS-X4302-GB	Catalyst 4000 Gigabit Ethernet Module, 2-Ports (GBIC)	1
4.11	WS-X4548-GB-RJ45	Catalyst 4500 Enhanced 48-Port 10/100/1000 Base-T (RJ-45)	1
4.12	WS-G5486	1000BASE-LX/LH long haul GBIC (singlemode or multimode)	2
4.13	X2-10GB-LR	10GBASE-LR X2 Module	2

Sl. No.		Location	Type
5		Building 79 Distribution Switch	Distribution Switch - Type A
Item No.	Part No.	Description	Quantity
5.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
5.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
5.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
5.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
5.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
5.6	SFP-10G-LR=	10GBASE-LR SFP+ Module	2
5.7	WS-C4507R	Catalyst 4500 Chassis (7-Slot),fan, no p/s, Red Sup Capable	1
5.8	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
5.9	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
5.10	CAB-7KACU	AC Power Cord (UK)	2

Sl. No.		Location	Type
6		Building 5 Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
6.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
6.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
6.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
6.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
6.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
6.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
6.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1
6.8	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
6.9	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
6.10	CAB-7KACU	AC Power Cord (UK)	2
6.11	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	3

Sl. No.		Location	Type
7		Building 6 Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
7.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
7.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
7.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
7.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
7.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
7.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
7.7	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
7.8	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
7.9	CAB-7KACU	AC Power Cord (UK)	2
7.10	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	2

Sl. No.		Location	Type
8		Building 3 Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
8.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
8.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
8.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
8.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
8.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
8.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
8.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1
8.8	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
8.9	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
8.10	CAB-7KACU	AC Power Cord (UK)	2
8.11	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	2

Sl. No.		Location	Type
9		Building 91 Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
9.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
9.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1

9.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
9.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
9.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
9.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
9.7	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
9.8	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
9.9	CAB-7KACU	AC Power Cord (UK)	2
9.10	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	2

Sl. No.		Location	Type
10		Building 50 Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
10.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
10.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
10.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
10.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
10.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
10.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
10.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1
10.8	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
10.9	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
10.10	CAB-7KACU	AC Power Cord (UK)	2
10.11	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	4

Sl. No.		Location	Type
11		Building TPS Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
11.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
11.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
11.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
11.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
11.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
11.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
11.7	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
11.8	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
11.9	CAB-7KACU	AC Power Cord (UK)	2
11.10	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	5

Sl. No.		Location	Type
12		Building HRDC Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
12.1	WS-C4503-E=	Cat4500 E-Series 3-Slot Chassis fan no ps	1
12.2	WS-X45-SUP7L-E=	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
12.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
12.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
12.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
12.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
12.7	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
12.8	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
12.9	CAB-7KACU	AC Power Cord (UK)	2
12.10	GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	2

Sl. No.		Location	Type
13		Building 108 Phase II Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
13.1	WS-C4503-E	Cat4500 E-Series 3-Slot Chassis fan no ps	1
13.2	WS-X45-SUP7L-E	Catalyst 4500 E-Series Supervisor 7L-E 520Gbps	1
13.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
13.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
13.5	C4500E-IPB-S	Catalyst 4500E IPB license for Spare Supervisor	1
13.6	WS-X4648-RJ45-E=	Catalyst 4500 E-Series 48-Port 10/100/1000 (RJ45)	1
13.7	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1
13.8	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
13.9	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
13.10	CAB-7KACU	AC Power Cord (UK)	2

Sl. No.		Location	Type
14		Building 78 Distribution Switch	Distribution Switch - Type A
Item No.	Part No.	Description	Quantity
14.1	WS-C4507R+E=	Catalyst4500E 7 slot chassis for 48Gbps/slot fan no ps	1
14.2	WS-X45-SUP7-E=	Catalyst 4500 E-Series Supervisor 848Gbps	2
14.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	2
14.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
14.5	C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	2
14.6	WS-X4612-SFP-E	Catalyst 4500E Series 12-port GE (SFP)	1
14.7	PWR-C45-1300ACV	Catalyst 4500 1300W AC Power Supply (Data and PoE)	1
14.8	CAB-AC-2800W-INT	International Power Cord	2
14.9	PWR-C45-1300ACV/2	Catalyst 4500 1300W AC Power Supply (Data and PoE)	1
14.10	CAB-CON-C4K-RJ45	Console Cable 6ft with RJ-45-to-RJ-45	1
14.11	WS-X4548-GB-RJ45	Catalyst 4500 Enhanced 48-Port 10/100/1000 Base-T (RJ-45)	1

Sl. No.		Location	Type
15		Building 2&4 Distribution Switch	Distribution Switch - Type B
Item No.	Part No.	Description	Quantity
15.1	WS-C4503-E	Cat4500 E-Series 3-Slot Chassis fan no ps	1
15.2	WS-X45-SUP7-E	Catalyst 4500 E-Series Supervisor 7-LE 520Gbps	1
15.3	S45EUK9-35-1521E	CAT4500e SUP7-E/SUP7L-E Universal Crypto Image	1
15.4	C4500E-LIC-PAK	PAK license SKU for spare sup configuration	2
15.5	C4500E-IPB	Paper IP Base License	1
15.6	WS-X4306-GB	Catalyst 4000 Gigabit Ethernet Module, 6-Ports (GBIC)	1
15.7	PWR-C45-1000AC	Catalyst 4500 1000W AC Power Supply (Data Only)	1
15.8	PWR-C45-1000AC/2	Catalyst 4500 1000W AC Power Supply Redundant (Data Only)	1
15.9	CAB-7KACU	AC Power Cord (UK)	2
15.10	WS-X4506-GB-T	Catalyst 4500 6-port 10/100/1000 PoE or SFP(optional)	1

Sl. No.		Location	Type
16		Various locations	Edge Switch
Item No.	Part No.	Description	Quantity
16.1	WS-C2960S-24PS-L	Catalyst 2960S 24 GigE PoE 370W 4 x SFP LAN Base	20
16.2	CAB-IND-10A	10A Power cable for India	20
16.3	PI-MSE-PRMO-INSRT	^Insert Packout - PI-MSE	20
16.4	PWR-CLP	Power Retainer Clip For Cisco 3560-C and 2960-C Compact Switch	20

Sl. No.		Location	Type
17		Various locations	Fibre Module
Item No.	Part No.	Description	Quantity
17.1	GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module SMF 1310nm DOM	8
17.2	GLC-LH-SMD=	1000BASE-LX/LH SFP transceiver module SMF 1310nm DOM	49
17.3	XENPAK-10GB-LR	10GBASE-LR XENPAK Module	1
17.4	GLC-LH-SM	GE SFP, LC Connector LX/LH Transceiver	8
17.5	WS-G5486	1000BASE LX/LH long haul GBIC (Single mode / Multi mode)	8
17.6	X2-10GB-LR	10GBASE-LR X2 Module	2

## 7 SERVICE LEVEL AGREEMENT (SLA)

1. Bidder shall be responsible for continuous and smooth operation of the materials covered under the scope of this tender for the entire lease period.
2. Maintenance and services shall cover services, repairs and replacements necessary to keep the hardware and software in good working condition.
3. Bidder shall maintain sufficient stocks of spares, in BHEL Trichy to ensure immediate attention in case of breakdown.
4. The bidder shall produce proof of agreement with the OEM, for support of the equipment during the entire lease period.
5. Payment will be made at the end of every quarter based on the uptime certificate given by the BHEL.

## 8 CRITERIA FOR NETWORK UPTIME

1. The entire network is categorized as two segments viz. backbone zone and non-backbone zones.
2. The Core switches (2 No.), Distribution Switches (Type A – 4 No. and Type B – 9 No.) form the backbone zone.
3. All other switches under the scope of this tender are categorized as the non-backbone zone.
4. Penalty on non-availability of network for both zones on monthly basis, is computed as follows:

### For the backbone zone.

- A. For non-availability of any switch in the backbone zone, it will be taken as total network not available and all the switches under the total scope of maintenance will be taken for effecting payment cut.
- B. If the cumulative breakdown in a month is less than 4 hours, no payment cut will be effected.
- C. If the cumulative breakdown is more than 4 hours but less than 24 hours, payment cut will be effected on hourly pro-rata basis, as per the scope specified above.
- D. If the cumulative breakdown exceeds 24 hours then payment cut effected will be twice that of hourly prorated charges.

For the non-backbone zone:

- A. For non-availability of any single switch in the non-backbone zone, it will be taken as that segment affected by the faulty switch for effecting payment cut. The segment specified herein is the faulty switch as well as the switches downstream of this switch which are under scope of maintenance of the contractor.
  - B. If the cumulative breakdown, in a month is less than 8 hours, no payment cut will be effected.
  - C. If the cumulative breakdown is more than 8 hours but less than 24 hours, payment cut will be effected on hourly pro-rata basis, as per the scope specified as above.
  - D. If the cumulative breakdown exceeds more than 24 hours then payment cut effected will be twice that of hourly pro rata charges.
5. If non availability of an item affects availability of other items, then all such items will also be treated as down for downtime calculation.
  6. If any single breakdown either on backbone zone or on non-backbone zone exceeds 24 hours, BHEL reserves the right to rectify and restore the network and debit the expenditure incurred from the rental payable to the contractor.
  7. The payment cut will be calculated based on the quarterly lease rental charges in the original PO.
  8. In case a service engineer is absent without the approval of BHEL, pro-rata penalty will be levied.

9      OTHER TERMS & CONDITIONS

1. Delivery is to be completed **within 8 weeks from the data of PO** and installation and commissioning shall be completed **with 4 weeks** from the date of delivery completion.
2. Commissioning certificate will be issued after completion of the installation and configuration of the switches.
3. The bidder shall comply with all the welfare regulations (PF no. and ESI no. / Medical policy) for the labors involved in executing the contract.
4. Maintenance during the lease period shall not be sub-contracted. The maintenance engineers posted at site shall be direct employees of the bidder.
5. Bidder shall arrange for a visit of BHEL Team to a site where a similar high availability network has been implemented by the bidder.
6. During the period of lease rental all defective parts/modules shall be replaced/rectified free of cost without any cost implication on BHEL.
7. Any part/module that becomes faulty shall not be blamed to be the fault of BHEL. The faulty parts/modules shall be repaired within the scope of the contract.
8. BHEL reserves the right to opt for continuation of maintenance support for the hardware and software at end of 5 year lease period by way of awarding AMC contract to bidder at the rate equal to maintenance charges paid per quarter during the original lease contract. Bidder shall agree to provide the AMC service for at least two years after the expiry of the 5 year lease period. The Technical terms of AMC shall be same that of maintenance support during the lease period. The payment for AMC will be made quarterly at the end of the each quarter.
9. BHEL reserves the right to retain the hardware, software and other items supplied in this procurement at the end of the lease period on payment of Re. 1/- (Rupee One only).

# **BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI**

## **CAPITAL PURCHASE**

2651400027 DT:12.09.14

Annexure-A

### **ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE BIDDERS.**

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the bidder does not confirm acceptance to the terms and conditions proposed, BHEL reserves the right to reject such offer)

#### **CHECK-LIST FOR BIDDERS**

SI No	DESCRIPTION
1.	<p>The Bidders shall submit the offer in single stage with <b>TWO INNER ENVELOPES</b> as indicated below which shall be sealed in one outer envelope.</p> <p><b><u>ENVELOPE-I: "PART-I: TECHNO - COMMERCIAL PART"</u></b></p> <p><b>Envelope I:</b> This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "<b>Part I - Technical and commercial bid</b>", indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder.</p> <p>All the Bidding Document in original, duly stamped and signed on each page along with un priced bid with indicating applicable taxes &amp; duties, (ii) Techno-Commercial details including all supporting documents and duly signed and stamped in each page.</p> <p><b><u>ENVELOPE-II: "PART- II: PRICE PART".</u></b></p> <p><b>Envelope II:</b> This sealed envelope should contain <b>price details</b>. This envelope should be clearly marked "<b>Part II - Price bid</b>", indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder. This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part I.</p> <p>The Bidder shall submit only price/ Rates as per Schedule of Rates without any condition. Condition indicated, if any, in the Price part shall not be taken cognizance of and such bid may be rejected without assigning any reasons thereof. Overwriting or use of correction fluid shall not be accepted. Any correction shall be signed by the authorised signatory.</p> <p>All the two envelopes ( Part I&amp;II ) shall be put in one cover, duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening</p> <p>The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered. Tender should not be addressed to any Individual's name but only by designation to:</p> <p style="text-align: center;"><b>SDGM / CAPITAL PURCHASE /MM / RM</b>  <b>24 Building, IVth Floor</b>  <b>BHARAT HEAVY ELECTRICALS LIMITED</b>  <b>HIGH PRESSURE BOILER PLANT</b>  <b>TIRUCHIRAPALLI - 620 014</b>  <b>TAMIL NADU, INDIA</b></p> <p>Tenders should be free from <b>CORRECTION AND ERASURES</b>, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. In case of any difference between amount quoted in words and figures, amount quoted in words shall prevail.</p>
2.	<p><b><u>OPENING OF TENDERS</u></b></p> <p><b>The Part I - Technical &amp; commercial bid</b> would be opened on the Tender opening date.</p> <p><b>Part II - Price bid</b> of technically and commercially suitable Bidders alone would be opened after complete evaluation of Part-I. Hence the Bidders are required to submit their best competitive price in the price bid in a sealed cover (Part-II). In case of necessity BHEL reserves the right to go for a Reverse Auction (RA) instead of opening the submitted sealed price bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in this Annexure-A (Point no.17). Date and time of Price Bid (Part-II) opening / RA conducting date shall be intimated to the technically and commercially acceptable bidders only. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - price bid/ (RA)</p>
3.	<p><b><u>Taxes and Duties :</u></b></p> <p>All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST &amp; TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 &amp; BHEL ECC No. AAACB4146PXM012, Service Tax Reg No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.</p> <p><b><u>Income Tax applicable</u></b></p> <p>Any service charges payable towards supervision of E&amp;C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. Applicable service tax on E&amp;C charges will be payable extra. The liability of depositing the same to the Govt. will be of the bidder.</p> <p>Income tax depreciation will be claimed by BHEL</p>

4.	<p><b><u>Stage-I: Evaluation of Technical &amp; Un-priced Commercial Bids</u></b></p> <ul style="list-style-type: none"><li>Only those Bidders who have meet all the requirements as per Eligibility Criteria for Bidders will be considered for further evaluation.</li><li>During the Technical Evaluation of the bid, BHEL Trichy may ask for additional information / resources to validate the bid. These may include technical documents / white papers from OEM or third party, references, demonstration of a proof of concept or solution, visit to OEM's lab or their clients reference site, etc.Failure to furnish information as required or to submit a bid not substantially responsive to the bidding documents may result in rejection of the bid.</li><li>There shall be no deviation from the technical specification. <b>"No Deviation Certificate"</b>as per the format shall be submitted.</li><li>Prior to price opening of bids, BHEL will determine whether each bid is accompanied by required commercial terms &amp; conditions, fulfils the qualifying requirement stated in Bidding Document and compliance to the requirement of the Bidding Document.</li></ul> <p><b><u>Stage -II: Evaluation of the Price Bid:</u></b></p> <p>The evaluation of tenders will be as follows:</p> <ul style="list-style-type: none"><li>Technically cleared offers will be considered for price evaluation</li><li>Evaluation of the offer will be based on L1 of the total value for the entire scope of work. The total value referred here is the total rental of the actives for 5 years including AMCs.</li><li><b>The contract will be awarded to a single party for the total scope</b>, based on the above evaluation.</li><li>If some discrepancies are found between the rate given in words and figures, the rate in words shall be taken as correct.</li><li>Price shall quote as per model price bid format <b>(Annexure-B)</b> for financial lease &amp; <b>(Annexure-C)</b> for outright purchase.</li><li>BHEL reserves the right to go for a Reverse Auction (RA) instead of opening the submitted sealed price bid, which will be decided after techno-commercial evaluation. Information and general terms and conditions governing <b>RA as per point 17.</b></li></ul>	
<b>No row shall be left blank. Please indicate NA, in case the item is "not applicable"</b>		<b>Vendor's confirmation</b>
5.	Maintenance during the lease period shall not be sub-contracted. The maintenance engineers posted at site shall be direct employees of the bidder.	
6.	<p><b>Validity:</b></p> <p>Validity of the offer should be 180 days from the date of tender opening. BHEL reserves the right not to consider offers from bidders with validity less than 180 days from the date of tender opening.</p>	
7.	<p><b>Terms of Payment:</b></p> <ul style="list-style-type: none"><li>➤ Purchase Order will be released on the successful bidder.</li><li>➤ Successful bidder shall sign Bipartite Lease Agreement as per BHEL format.</li><li>➤ Lease period will start after issue of Commissioning Certificate by BHEL Trichy.</li><li>➤ Quarterly lease rental charges become payable at the end of each quarter after certification by BHEL Trichy.Bidder shall submit the invoice after each quarter. 100% quarterly payment will be made after 45 days from the date of certification by BHEL</li><li>➤ Bidder shall submit the invoice in triplicate for processing the bills.</li><li>➤ Deduction for non-availability as per SLA will be made from the quarterly rental.</li></ul>	
8.	<p><b>Liquidated damages (LD):</b></p> <p>The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in 'Supply' and/or 'I&amp;C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'I &amp;C'. Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.</p> <p>The rate of LD for delayed E&amp;C shall be @ 0.5% per week of delay of total PO value (Supply + I &amp;C) subject to a maximum of 10% of total PO value (Supply + I&amp;C).</p> <p>For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.</p> <p>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p>	

9.	<b>Risk Purchase:</b> Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
10.	<b>Force Majeure clause:</b> If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.	
11.	<b>Delivery terms and evaluation process:</b> Bidders should submit their offer for <b>FORDestination basis</b> . Packing & Forwarding and Freight & Insurance charges from works to BHEL, Destination to be inclusive of basic rate. Applicable % of taxes & duties should be clearly indicated. <b>Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL)</b>	
12.	<b>DELIVERY SCHEDULE:</b> Delivery is to be completed <b>within 8 weeks from the data of PO/LOI</b> Installation and commissioning shall be completed <b>within 4 weeks</b> from the date of delivery completion.	
13.	<b>Guarantee:</b> (1) During the period of lease rental / AMC all defective parts / modules shall be replaced / rectified free of cost without any cost implication on BHEL. (2) Any part / module that becomes faulty shall not be blamed to be the fault of BHEL. The faulty parts/modules shall be repaired within the scope of lease rental / AMC. <u>Offers from bidders not accepting the requested guarantee period/Warranty will be rejected.</u>	
14.	<b>Short shipment / Warranty replacement:</b> In case of any short shipment in the main equipment / spares, customs duty levied on such supplies, shall be borne by the bidder. Any warranty replacement during the lease period shall be on FOR/ BHEL-Destination basis.	
15.	<b>Inspection &amp; Testing:</b> All goods shall be subject to inspection by BHEL or its authorized representatives at bidder's works (or) at BHEL destination or at any other place in India indicated by BHEL as the case may be. The bidder will not charge for the facilities provided for inspection of goods. The final inspection and acceptance of the project will be carried after installation of the equipment at BHEL, Destination.	
16.	<b>Test certificates / Operating and Maintenance manuals :</b> The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost	
17.	<b>Reverse Auction (RA):</b> BHEL reserves the right to conduct on-line internet Reverse Auction ie. ONLINE BIDDING (THROUGH A SERVICE PROVIDER) for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA are shown below Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry. 1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate. 2. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet. 3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained. 4. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance. 5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event. 6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for	

	<p>each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction</p> <p>7. Reverse auction will be conducted on scheduled date &amp; time.</p> <p>8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.</p> <p>9. The lowest bidder has to Fax/e-mail the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.</p> <p>10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.</p> <p>11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price Bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.</p> <p>12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction</p> <p>13. <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u></p> <p>14. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.</p> <p>In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.</p>	
<b>18. Ethical Standard</b>	<p>Bidders are expected to observe the highest standard of ethics during the procurement and execution of this contract. In pursuance of this policy, BHEL will reject a proposal for award if it determines that the bidder being considered for award has engaged in corrupt or fraudulent practices in competing for the contract. For the purposes of this provision, the terms set forth below are defined as follows:</p> <p>a) "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action in the procurement process or in contract execution; and</p> <p>b) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process including collusive practices designed to establish bid prices at artificial, non-competitive levels to deprive the benefits of competition to BHEL.</p> <p>By signing the bid forwarding letter, the bidder represents that for the software it supplies, it is the owner of the intellectual property rights. Willful misrepresentation of these facts shall be considered a fraudulent practice without prejudice to other remedies that BHEL take.</p>	
<b>19. Non Disclosure Agreement</b>	<p>The bidder shall sign a Non Disclosure Agreement (NDA) with BHEL. By signing the NDA, the bidder agrees not to disclose any confidential information, business or proprietary, as covered by the agreement. The proforma for the Non Disclosure Agreement is attached as <b>Annexure-III.</b></p>	
<b>20. INDEMNITY</b>	<p>The contractor hereby undertakes to indemnify BHEL against all actions, suits, proceedings, claims, losses, damages etc., which may arise under Minimum Wages Act, Fatal Accident Act, Workmen Compensation Act, Shops &amp; Establishment Act, Family Pension &amp; Deposit Linked Insurance scheme or any other Act or statutes not herein specifically mentioned but having any direct or indirect application for the person(s) engaged under this contract by him.</p> <p>The Contractor shall defend, indemnify and hold BHEL harmless from any liability, which may be imposed by the Central, State or local authorities and also from all claims, suits arising out of or by reason of the work provided by this contract including any liability that may arise out of accident, whether brought by the employees/ labourers of the Contractor or by the third parties or by the Central or State Government authority or any sub-division thereof.</p> <p>BHEL shall not be responsible for any claim/compensation that may arise due to damages/injuries/pilferage to the contractor's employee(s)/ staff/labourers under any circumstances while an employee(s) / labourer is engaged in the BHEL's duty under the contract.</p> <p>The contractor shall make regular and full payment of wages/salaries including overtime/night halt allowance etc. as applicable as per rules in force and any other payments due to his employees/labourers and furnish necessary proof whenever required by BHEL.</p>	
<b>21. INSURANCE POLICIES</b>	<p>The Contractor shall at his own cost take insurance and maintain at all times until the close out of the Contract, insurance policies in respect of equipment and workmen engaged by him for providing services under this Contract.</p>	
<b>22. TERMINATION OF THE CONTRACT</b>	<p>BHEL reserves the right to terminate the Contract, at any stage during the period of the Contract based on the contractor's performance, by giving 30 days notice in writing.</p> <p>BHEL shall have the right to terminate this contract if:</p> <ol style="list-style-type: none"> <li>1. The contractor fails to provide services or contractual obligations in accordance with the SLA.</li> <li>2. The contractor suspends the performance of all or part of the services, or</li> <li>3. The contractor abandons the services, or</li> </ol>	

	<p>4.Thecontractor becomes bankrupt or goes into receivership(or)liquidation or makes an assignment for the benefit of his creditors.</p> <p>In the event of termination of contract, the amount due to the Contractor as per contractual provisions after recovery of dues (from Contractor's pending invoices/ Security Deposit, as the case may be), shall be released to them.</p>	
<b>23.</b>	<p><b>ARBITRATION</b></p> <p>All disputes or differences whatsoever which may arise at any time during execution of the Contract shall be mutually settled by BHEL and Contractor as per provision of the Contract. However, in the event such disputes cannot be settled mutually, such disputes shall be settled as per the Arbitration and reconciliation Act, 1996 of the Govt. of India and it's subsequent amendments. In case of disputes with the Central PSUs, the same shall be settled at Tiruchirapalli as per the Guidelines of the Govt. of India.</p> <p>However, during the period such disputes are settled either by mutual discussions between the parties or by legal means, Contractor shall continue to do the work as per terms &amp; conditions of Contract.</p>	
<b>24.</b>	<p><b>Amendment of bidding documents</b></p> <p>BHEL Trichy may at its sole discretion amend the Bidding Documents at any time prior to the deadline for submission of bids. However in case of such amendment, the bid submission date may be extended at the discretion of BHEL Trichy.</p> <p>Amendments made prior to submission of bid will be provided in the form of addenda / corrigendum to the bidding documents and will be posted only on the BHEL website (<a href="http://www.bhel.com">http://www.bhel.com</a>&amp;<a href="http://www.tenders.gov.in">http://www.tenders.gov.in</a>) in tender notification section. Hence the bidders are requested to visit the web pages regularly for updates.</p>	
<b>25.</b>	<p><b><u>For Micro and Small Enterprises (MSE)</u></b></p> <p>MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed <b>Annexure - IV</b>) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier</p>	
<b>26.</b>	<p><b>General Conditions</b></p> <ul style="list-style-type: none"> <li>➤ Point by point confirmation for the Technical Specification enclosed to be provided. Offers received without confirmation to our specification will be liable for rejection. If needed additional sheets shall be used.</li> <li>➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipments will not be accepted."Newness"certificate from OEM shall be furnished for all items.</li> <li>➤ Insurance documents for all the items.</li> <li>➤ Make, Model, Product No and Details of each Item must be mentioned clearly</li> <li>➤ All the Items must be supplied in full and complete</li> <li>➤ Proper documentation, labeling and tagging shall be carried out for all the equipments used in the entire landscape for easy management and maintenance</li> <li>➤ <b>Fixed price:</b>Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order.</li> <li>➤ The Bidder shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.</li> <li>➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units.</li> <li>➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.</li> <li>➤ All Equipments / Services including Personnel for carrying out the installation and commissioning of the Equipment shall be arranged by the bidder. If any Services is availed from BHEL, it is only on chargeable basis unless otherwise specified.</li> </ul>	

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	<ul style="list-style-type: none"> <li>➤ The bidder shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost.</li> <li>➤ Vendor shall arrange for boarding, lodging and logistics of onsite commissioning engineer and operations engineers.</li> <li>➤ The quarterly leased rental payment will commence only after: <ul style="list-style-type: none"> <li>➤ Successful commissioning of the actives and signing of commissioning certificate, and supply and installation of passives</li> <li>➤ Signing of Bipartite Lease Agreement</li> <li>➤ Proof of maintenance contract with OEM for the total duration of 5 years.</li> </ul> </li> <li>➤ Any replacement during lease period shall be supplied free of charge on <b>FOR BHEL</b>, Trichy.</li> </ul>			
<b>27.</b>	<b>Company Details &amp; Contact</b>			
	Full Address of the company:  (Copy of address proof & PAN card shall be attached along with Part-I)			
	Company Email ID:		Phone No.:	
	Fax No		Pan No	
	CST /TIN No		Service Tax No.	
	Name of the contact person		Mobile No.:	
	e-mail ID			
For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail < <a href="mailto:pgavictor@bheltry.co.in">pgavictor@bheltry.co.in</a> >				

NOTE:-

a) Your specific acceptance to our Payment terms, LD & Risk Purchase Clause are essential for consideration of your offer. Otherwise your offer is liable for rejection.

b) No row shall be left blank. Please indicate NA, in case the item is “not applicable”

**Declaration:-**

We have gone through and understood the ‘General guidelines & instructions to bidders for submitting offer’ enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

5YEARS FINANCE LEASE FOR ENQ.No. 2651400027 DT:12.09.14										ANNEXURE-B	
PRICE BID FORMAT FOR 5 YEARS FINANCIAL LEASE_ FOR BHEL TIRUCHIRAPPALI											
Sino	Item Description	Item Qty	Quarterly Principal value for TOTAL Qty.	Quarterly Interest %.	Quarterly Interest for TOTAL Qty in Value	Quarterly Maintenance Charges for TOTAL Qty	% Lease Tax	% Service tax	Quarterly Lease tax for TOTAL Qty.	Service tax on Maintenance charge + 10% of Qtrly intrestValue *	Total Quarterly Rental charge including Tax
			A	B	C=B x A	D	E	F	G=E x (A+C)	H=( (10%*C)+ D ) *F	I=A+C+D+G+H
1	Core Switch (Item Sl. No. 1, 2 in BOM)	2									
2	Distribution Switch - Type A (Item Sl. No. 3, 4, 5, 14 in BOM)	4									
3	Distribution Switch - Type B (Item Sl. No. 6, 7, 8, 9, 10, 11, 12, 13, 15 in BOM)	9									
4	Edge Switch (Item Sl. No. 16 in BOM)	20									
5	Fibre Module (Item Sl. No. 17 in BOM)	1									
	Total	xxxx		xxxx			xxxx	xxxx	xxxx		
							Total Rental Charge for 5 years including all taxes (J) =Ix4 x5				
							Less Service Tax (K) =sum of Hx20				
							Total Netcash outflow =J-K				
Sl.no.	Quarterly AMC charges from 6th year onwards, valid for 2 years	Amount(Rs.) excluding taxes & duties									
* Service tax@12.36% is mandatorily applicable on 10% of quarterly interest value											
Part-I, Technical bid shall be submit along with unpriced price bid format ( both-Lease & outright purchase) with indicating % of all taxes & duties (Cell shaded in yellow colour only shall be fill up by vendor and submitted along with technical bid. And also take care the following point, while entering the taxes& duties..) 1. Indicate the quarterly interest in % 2.Mention the type of taxes & duties (Whether CST/VAT & Service taxes) 3.In columns, wherever CST/VAT & service tax both are applicable, split up of the the tax structure and should be given in separate row.											

**OUTRIGHT PURCHASE FOR ENQ.No. 2651400027 DT:12.09.14**
**ANNEXURE-C**
**PRICE BID FORMAT FOR OUTRIGHT PURCHASE (Including AMC upto 5th year)\_FOR B HEL TIRUCHIRAPPALLI**

Slno	Item Description	Item Qty	Price for total qty. with standard warranty excluding taxes	Std.Warranty period in no. of years	% Tax & Duties	Tax Value for total quantity	AMC value for total qty. after warranty period upto end of fifth year excluding taxes	% Service Tax	Total Tax value for AMC	Total Price including Taxes, Duties and AMC for total qty
			A	B	C	D=AxC	E	F	G=Fx E	H=(A+D+E+G)
1	Core Switch (Item Sl. No. 1, 2 in BOM)	2								
2	Distribution Switch - Type A (Item Sl. No. 3, 4, 5, 14 in BOM)	4								
3	Distribution Switch - Type B (Item Sl. No. 6, 7, 8, 9, 10, 11, 12, 13, 15 in BOM)	9								
4	Edge Switch (Item Sl. No. 16 in BOM)	20								
5	Fibre Module (Item Sl. No. 17 in BOM)	1								
	<b>Total</b>	xxx		xxx	xxx			xxx		
							<b>TOTAL OUTRIGHT VALUE INCLUDING ALL TAXES (J) =sum of H</b>			
							<b>LESS SERVICE TAX (K) =Sum of G</b>			
							<b>TOTAL NETCASH OUTFLOW=J-K</b>			
Sl.no.	Quarterly AMC charges from 6th year onwards, valid for 2 years		Amount(Rs.) excluding taxes & duties							
<b>Part-I, Technical bid shall be submit along with unpriced price bid format ( both-Lease &amp; outright purchase) with indicating % of all taxes &amp; duties</b> <b>(Cell shaded in yellow colour only shall be fill up by vendor and submitted along with technical bid. And also take care the following point, while entering the taxes&amp; duties..)</b> <b>1. Indicate the quarterly interest in %</b> <b>2.Mention the type of taxes &amp; duties (Whether CST/VAT &amp; Service taxes)</b> <b>3.In columns, wherever CST/VAT &amp; service tax both are applicable, split up of the the tax structure and should be given in separate row.</b>										

**Annexure-II**

**No Deviation Certificate**  
(To be given in bidder's letter head)

**Ref:** BHEL's Enquiry No. \_\_\_\_\_ Dated \_\_\_\_\_

It is Certified that the offered solution vide Enquiry No. \_\_\_\_\_ dated \_\_\_\_\_  
\_\_\_\_\_ in response to BHEL's enquiry mentioned under reference has no Technical deviation  
from the requirement of BHEL, Trichy given vide the Technical Specification (Requirement).

Date:

Bidder's Signature with seal

**Annexure-IV**

**Past Experience of Similar Executed Projects**


SL N O.	DESCRIPTION OF WORK	POSTAL ADDRESS OF CLIENT & NAME OF OFFICER IN CHARGE	CONTRA CT VALUE	STARTI NG DATE	E-mail	Fax Number

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

**Annexure-III**

 BHEL - TRICHY	THIRD PARTY NON-DISCLOSURE AGREEMENT		Doc.No. : ISMS-04/TP/011
			Ver. No: 2.0    Rev. No: 00
			Date : 01 - 10 - 09

**THIRD PARTY NON-DISCLOSURE AGREEMENT**

I, \_\_\_\_\_, on behalf of the \_\_\_\_\_ (Name of Company), acknowledge that the information received or generated, directly or indirectly, while working with BHEL, Trichy on contract is confidential and that the nature of the business of the BHEL, Trichy is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL, Trichy Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.
- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to BHEL, Trichy all documents and property of BHEL, Trichy, including: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL, Trichy's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL, Trichy and are reasonable given the nature of the business carried on by the BHEL, Trichy I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Dated at \_\_\_\_\_, this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Name

Company

Signature

**Certificate by Chartered Accountant on letter head**

This is to Certify that M/S .....  
(hereinafter referred to as 'company') having its registered office at .....  
is registered under MSMED Act 2006, (Entrepreneur  
Memorandum No (Part-II) ..... dtd:.....,  
Category: ..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on  
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost  
excluding land and building and the items specified by the Ministry of Small Scale Industries vide its  
notification No.S.O.1722(E) dated October 5, 2006 :  
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and  
furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED  
Act, 2006:  
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of  
Rs.....Lacs for .....Micro / Small (Strike off which is not applicable)  
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant