



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

**TCN - 01**

Ref: PSER:SCT:KLN-C1831:TCN-01

Date: 03-06-2017

Sub	TCN-01
Job	Design, Engineering, Manufacture, supply, installation and handing over of pre-fab structure for field hostel, residential quarters, Site office & Covered store with all necessary electrical fittings, supply and installation of furniture and furnishings etc. as per specification at 2x660 MW Maitree, Rampal, Bangladesh.
Ref	1.0 Tender no PSER:SCT: KLN-C1831:17
	2.0 BHEL's NIT, vide reference no PSER:SCT:KLN-C1831:5711 Date: 22-05-2017
	3.0 All other pertinent issues till date.

With reference to above, following points/ documents, relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Introduction of (IT) Technical specification, KLN-C1831-VOLUME-II-TS-IT.
- 2.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 3.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,  
for BHARAT HEAVY ELECTRICALS LTD

SR ENGR (SCT)

Encl : As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211691, 23211798, 23211796

**2X660MW MAITREE RAMPAL PROJECT, BANGLADESH**

JOB:-Construction of Filed Hostel & BHEL Office with associated electrical work as per specification including supply of all materials etc. at 2x660 MW Maitree Rampal Project, Bangladesh

**IT SPECIFICATION**

<b>SL</b>	<b>DESCRIPTION</b>	<b>ANNEXURE NO.</b>
1	LAN at Bangladesh Maitree Project ( for BHEL Office)	ANNEXURE 1
2	LAN at Bangladesh Maitree Project ( For Field )	ANNEXURE 2
3	Schematec diagram for Wired & Wireless LAN facility at BHEL Office Building	ANNEXURE 3
4	Intercom System for Office	ANNEXURE 4
5	Fax Machine	ANNEXURE 5

## Annexute-01

**BOQ for LAN at Bangladesh Maitree Project  
(For BHEL office )**

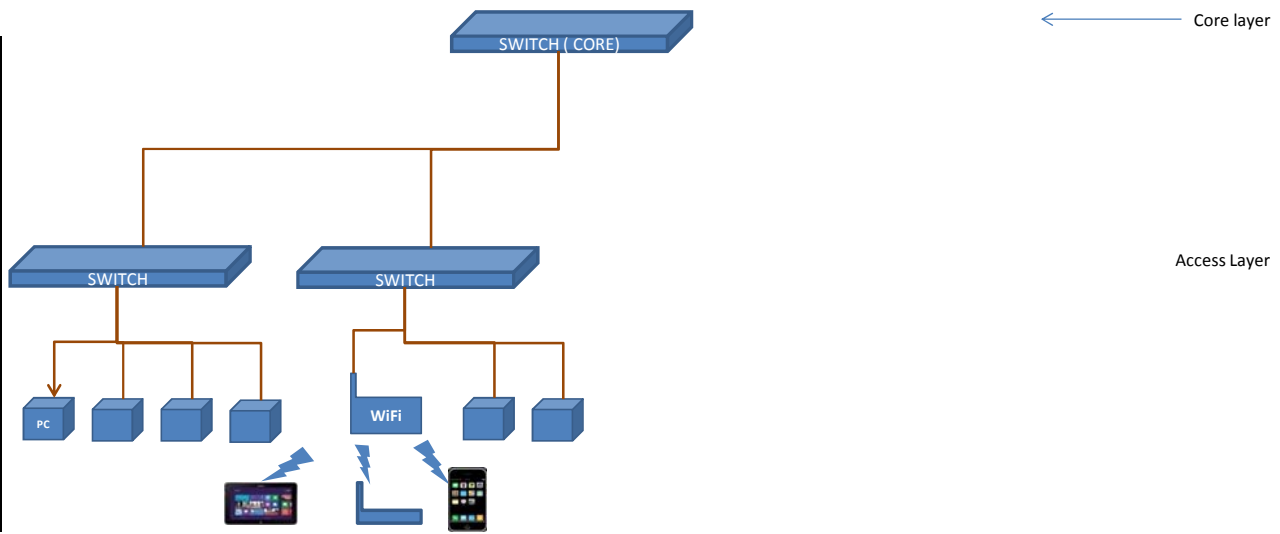
SL. NO.	DESCRIPTION	Quantity	UOM
01	24 PORT MANAGED L2 SWITCH ( Similar to Cisco Managed L2 Switch with 3 Year Inbuilt warrantee)	3	Nos
02	CAT 5E UTP CABLE ( BOX - 305 MTR)	5	Box
03	INFORMATION OUTLET FOR DATA	70	Nos
04	PATCH CORD (7 FT.)	70	Nos
05	MOUNTING CORD (3 FT.)	70	Nos
06	24 PORT JACK PANEL WITH I/O	3	Nos
07	WALL MOUNTED RACK 9U	1	Nos
08	WALL MOUNTED RACK 6U	2	Nos
09	FACE PLATE & FIXING BOX	70	Nos
10	PVC CONDUIT (INDOOR)	500	Nos
11	RJ-45 CONNECTOR	100	Nos
12	WiFi Access point ( 802.11n)	4	Nos
13	LAYING OF PVC CONDUITS (INDOOR)	500	Mtrs
14	LAYING OF CAT 5E UTP CABLE (INDOOR) Including accessories	1500	Mtrs
15	TERMINATION TESTING & DOCUMENTATION OF CAT 5E CABLE	70	Nos

## Annexute-02

**BOQ for LAN at Bangladesh Maitree Project  
(For Filed Hostel)**

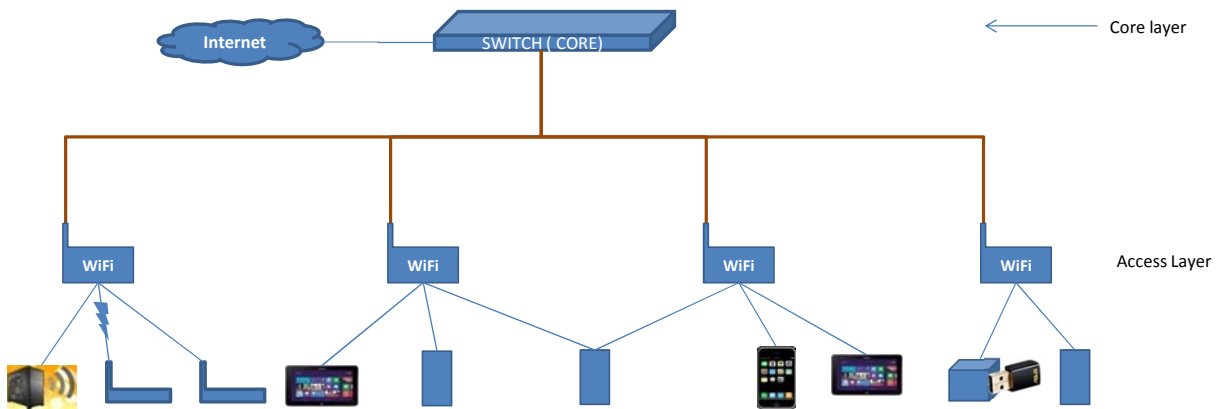
SL. NO.	DESCRIPTION	Quantity	UOM
01	24 PORT MANAGED L2 SWITCH ( Similar to Cisco Managed L2 Switch with <b>3 Year Inbuilt warrantee</b> )	1	Nos
02	CAT 5E UTP CABLE ( BOX - 305 MTR)	1	Box
03	INFORMATION OUTLET FOR DATA	7	Nos
04	PATCH CORD (7 FT.)	7	Nos
05	MOUNTING CORD (3 FT.)	7	Nos
06	24 PORT JACK PANEL WITH I/O	1	Nos
07	WALL MOUNTED RACK 9U	1	Nos
08	WALL MOUNTED RACK 6U	1	Nos
09	FACE PLATE & FIXING BOX	70	Nos
10	PVC CONDUIT (INDOOR)	500	Nos
11	RJ-45 CONNECTOR	100	Nos
12	WiFi Access point ( 802.11n)	4	Nos
13	LAYING OF PVC CONDUITS (INDOOR)	200	Mtrs
14	LAYING OF CAT 5E UTP CABLE (INDOOR) Including accessories	200	Mtrs
15	TERMINATION TESTING & DOCUMENTATION OF CAT 5E CABLE	7	Nos

Schematec diagram for Wired & Wireless LAN facility at BHEL Office Building

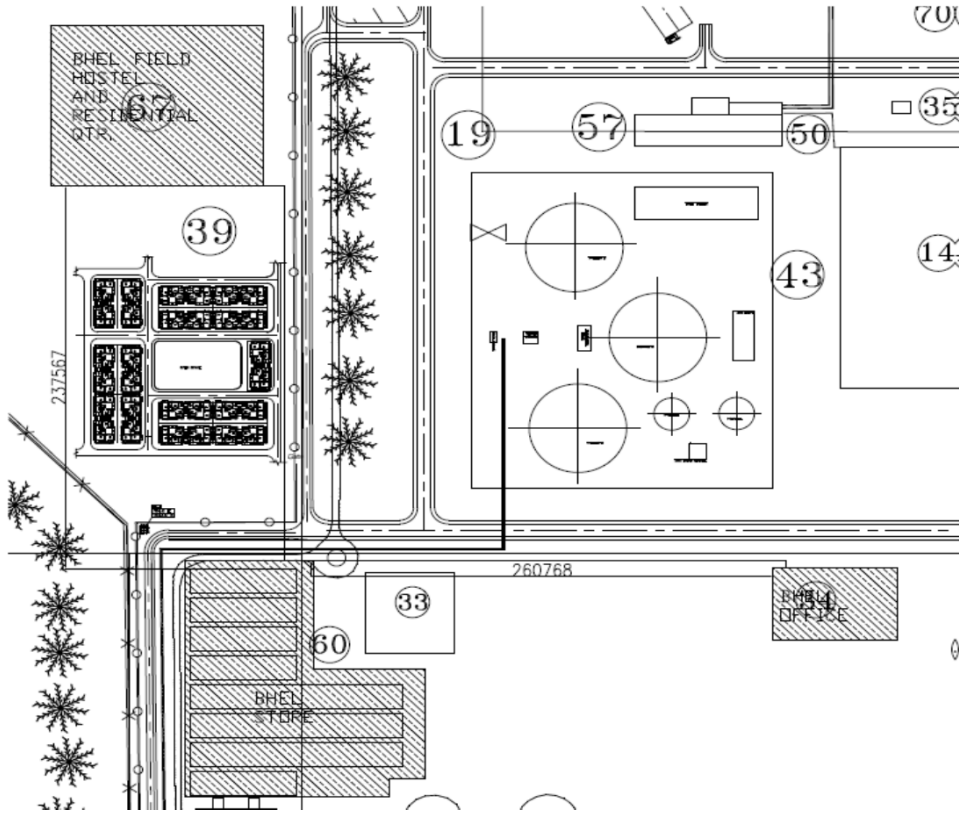


Schematec of Table - 1 & Table 2.2  
All individual clients are connected over physical LAN Cable  
Additional WiFi facility as addon Wifi service in small scale

Schematec Diagram for LAN facility at FIELD HOSTEL ( Wireless LAN facility)



MAITREE SITE LAYOUT PLAN



### Approx. BOQ for Intercom System

<b>Table-1</b>			
<b>Automatic Telephone Exchange for 60 users</b>			
Sl.	Description	Qty	UOM
A	<b>EPABX system</b>	1	Set
1	<b>Supply of EPABX system for intercomm ( SIP Enable) with minimum</b>		
	8 / 10 / 12 Trunk port for PSTN Line		
	1/2 Digital Extensions port		
	1 Sip Trunk port		
	01 Operator console with DSS .		
	100 SIP License ( Minimum)		
2	<b>SIP Telephone handset ( Included in Table3)</b>		
B	<b>Installation Job</b>		
1	Installation & configuration of SIP EPABX system	1	No
C	Power backup		
3	<b>2 KVA online UPS for 4 Hour battery backup</b>	1	No
D . 1	<b>2 KVA online UPS for 4 Hour battery backup</b>	1	
<b>Table-3</b>			
<b>Supply &amp; installation of Land phone/Desk phone</b>			
		QTY	UOM
1	<b>SIP Telephone handset</b>	60	Nos

## FAX machine AT OFFICE

	Description	Quantity	UOM
	Suuply & Installation of FAX machine with hand se	1	Nos
	Model - samsung SF -710p or		
	or Brother FAX 2810		
	Or Equivalent		

**FORMAT FOR NO DEVIATION CERTIFICATE**  
**(To be submitted in the bidder's letter head)**

BHARAT HEAVY ELECTRICALS LIMITED,  
Power Sector - Eastern Region,  
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,  
Kolkata – 700 091

<b>Sub</b>	<b>No Deviation Certificate.</b>	
<b>Job</b>	Design, Engineering, Manufacture, supply, installation and handing over of pre-fab structure for field hostel, residential quarters, Site office & Covered store with all necessary electrical fittings, supply and installation of furniture and furnishings etc. as per specification at 2x660 MW Maitree, Rampal, Bangladesh.	
<b>Ref</b>	1.0	Tender no PSER:SCT: KLN-C1831:17
	2.0	BHEL's NIT, vide reference no PSER:SCT:KLN-C1831:5711 Date: 22-05-2017
	3.0	BHEL's TCN-01, vide reference PSER:SCT:KLN-C1831:TCN-01, dated 03-06-2017.
	4.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized  
representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION DJ-9/1, SECTOR-II, SALTLAKE CITY, KOLKATA - 700 091

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