



**BHARAT HEAVY ELECTRICALS LIMITED
CENTRALISED STAMPING & FABRICATION PLANT
Jagdishpur**

**Tender for CABLE LAYING, SUPPLY AND ERECTION OF PLATE
EARTHING, ROUTE MARKER, MARKING END TERMINATION,
ERECTION OF DOUBLE ARM POLE AND DEMOLISHING OF RCC
WORK etc
at CS & FP, BHEL Jagdishpur**

Tender Enquiry No: BHEL/CS&FP/WEX/17-18/01

SECTION III

SPECIAL TERMS AND CONDITIONS OF CONTRACT

**BHARAT HEAVY ELECTRICALS LIMITED
(A GOVERNMENT OF INDIA UNDERTAKING)
CS & FP
Industrial Area
Jagdishpur (UP) 227817**



SECTION-III
Special Terms and Conditions

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A: Essential Criteria for Techno-Commercial Acceptance of Bid

S.N.	Particulars	To be filled by Bidder
1.1	The bidder should have the experience of carrying out LT electrical work as mentioned in scope of work in a manufacturing industry.	
1.2	Experience Certificate for successfully completed LT Electrical works during immediate last 7 years as mentioned below: One work not less than Rs. 8.12 Lakhs OR Two works of not less than Rs.4.5 Lakhs OR Three works of not less than Rs.3.6 Lakhs (Copy of Completion certificate from the organization where the work is executed to be enclosed. Submission of Work Order copy is not adequate).	
1.3	Average Turn Over of the last three years (not less than Rs. 2.7 Lakhs) audited profit & loss and balance sheet for 3 years is required.	
1.3.1	Turnover - Previous financial year	Rs.
1.3.2	Turnover - 1 year before previous financial year	Rs.
1.3.3	Turnover - 2 years before previous financial year	Rs.
1.4	The bidder should possess valid electrical contractor license	
1.5	The bidder should meet all statutory requirement of Central/ State Govt. Like PF, ESI, PAN, GST Registration etc. as may be applicable. Self attested photocopy of the relevant documents to be submitted by the bidder in fulfillment of this criterion	
1.6	Self Certificate / Declaration that the bidder is not blacklisted / under hold / banned or delisted by any unit / region / office of BHEL on the date of tender. Self Declaration that he is not guilty by a Court of Law in India for any offence involving fraud, dishonesty and moral turpitude as per annexure-I.	

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B: COMPLETION PERIOD

Completion period will be 2 months from the date of issue of WO.

C: SCOPE OF BHEL

BHEL shall provide following items for the works listed in this tender:

1. PVC insulated cables of following sizes:
 - a. 3 ½ Core X 185 Sq. mm
 - b. 3 ½ Core X 35 Sq. mm
 - c. 4 Core X 16 Sq. mm
 - d. 3 Core X 2.5 Sq. mm
2. MS Pipe for road crossing if required.
3. Distribution Board
4. Street Light pole and Junction box
5. Street light feeder
6. LED street Lights

E: SCOPE OF CONTRACTOR

1. The scope of work includes following activities:

SN	Type of Work	Work Description
1	Pole Erection	Erection of street light pole of 11 meter length double arm up to 1.8 mtrs. by excavation of earth (size 0.5 m x 0.5 m x 1.8 m. depth) with depth below ground level 1.8 m. and fixing the given cable connector Junction box in the street light pole, in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation, refilling and fitting of LED light, Junction box etc
2	RCC pipe NP2 class	Providing, laying and fixing 300 mm dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. as required.
3	Earthing with Copper earth plate (3 meter deep)	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.
4	Earthing with G.I Earth pipe	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.
5	GI wire for loop earthing	Providing and fixing 6 SWG dia G.I. wire for loop earthing of street light poles
6	Cable Laying (800 mm deep X 300 mm width)	Placing of existing one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 185 sq. mm and upto 400 sq. mm. , direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.

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7	Cable Laying (800 mm deep X 300 mm width)	Placing of existing one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 185 sq. mm and upto 400 sq. mm. , direct in ground in the same trench (CABLE-1 Trench) in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required
8	Cable Laying (800 mm deep X 300 mm width)	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Upto 35 sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.
9	Cable Laying (800 mm deep X 300 mm width)	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 95 sq. mm and upto 185 sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.
10	Cable Laying (800 mm deep X 300 mm width)	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 185 sq. mm and upto 400 sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.
11	Cable Laying (800 mm deep X 300 mm width)	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 185 sq. mm and upto 400 sq. mm direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.
12	Cable Laying	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 95 sq. mm and upto 185 sq. mm in the existing RCC/ HUME/ METAL pipe as required.
13	Cable Laying	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 185 sq. mm and upto 400 sq. mm in the existing RCC/ HUME/ METAL pipe as required.
14	Cable Laying	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp) on wall surface
15	Cable Laying	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size- Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp) on wall surface
16	Route Marker	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.
17	Supply and making End Termination	Supplying and making end termination with brass compression gland and aluminium lugs for size- 4 X 16 sq. mm (28mm) of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required
18	Supply and making End Termination	Supplying and making end termination with brass compression gland and aluminium lugs for size- 3½ X 35 sq. mm (32mm) of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 kV grade as required
19	Supply and making End Termination	Supplying and making end termination with brass compression gland and aluminium lugs for size- 3½ X 185 sq. mm (57mm) of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required

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20	Supply and making End Termination	Supplying and making end termination with brass compression gland and aluminium lugs for size- 3½ X 300 sq. mm (70 mm) of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required
21	Supply and making straight joint	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for size- 3½ X 300 sq. mm of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.
22	Demolition of RCC work	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge. (Cutting of RCC road for cable crossing)
23	Miscellaneous	Hydra Hiring
24	Work etc.	Manpower

2. Material handling from any BHEL stores at CS&FP Jagdishpur to working site will be in contactor scope.
3. Tools and tackles to carry out operation and maintenance activities to your staff and equipments.
4. Deployment of adequate tools and tackles and calibrated measuring instruments.
5. Attending activities, maintaining records in ensuring statutory and regulatory requirements.
6. Co- ordination with any external agencies for execution of the work.
7. The test certificate of earthing material of GI pipe base and plate earthing from OEM is required. The testing of earthing should be done at site and parameters should be within permissible limit. The test report of earthing will be submitted.
8. The lugs and jointing kit should be as per Indian Standard and the test certificate of the material should be provided.
9. The test certificate of RCC NP-2 pipe and GI wire should be provided.
10. Cable joint and end terminal failure within one year of work completion should be repaired/ replaced with own cost by the contractor without charging to BHEL.
11. Guarantee for cable laying work, erection of poles and earthing should be for a period of one year.

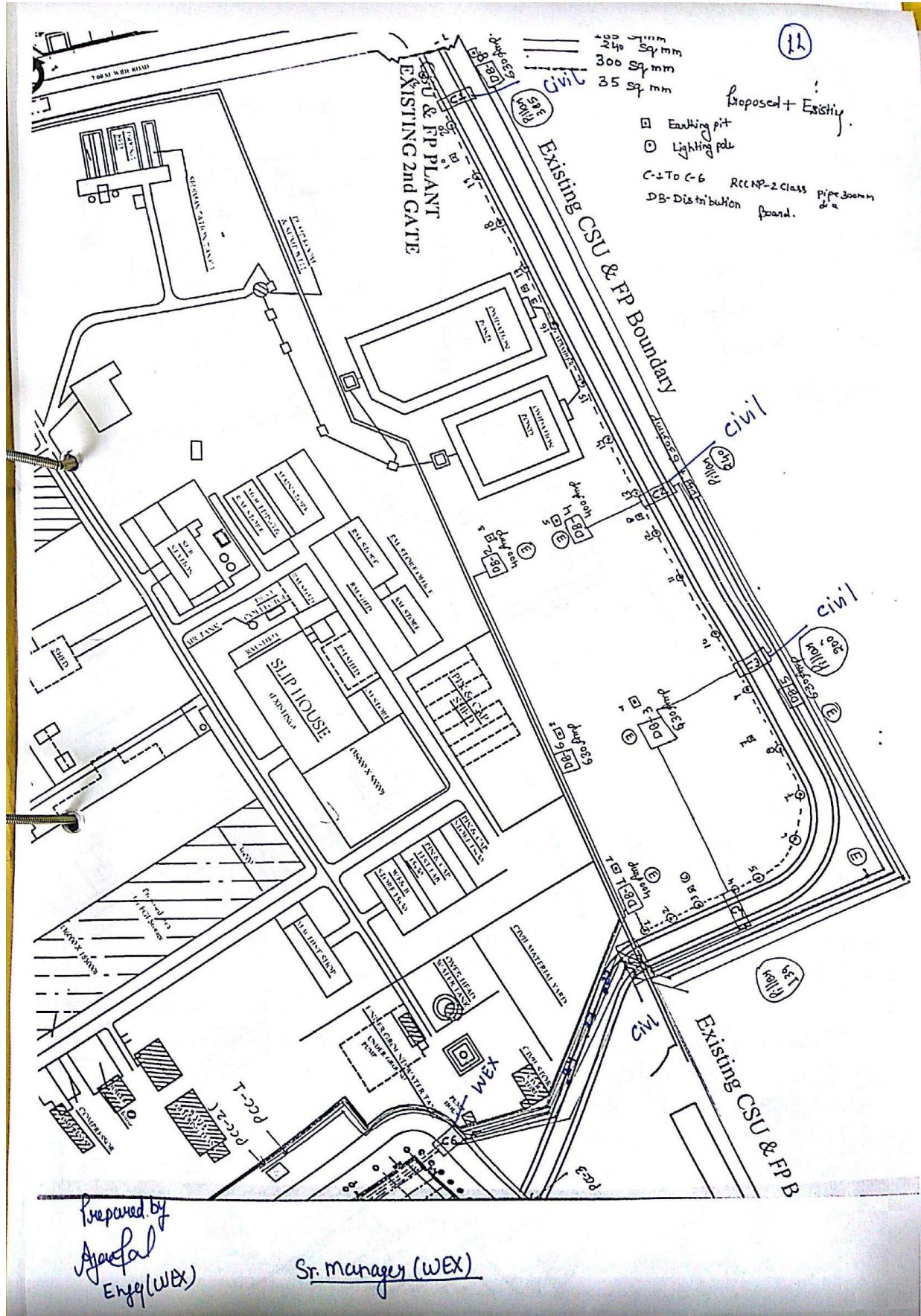
F. OTHER TERMS AND CONDITIONS:

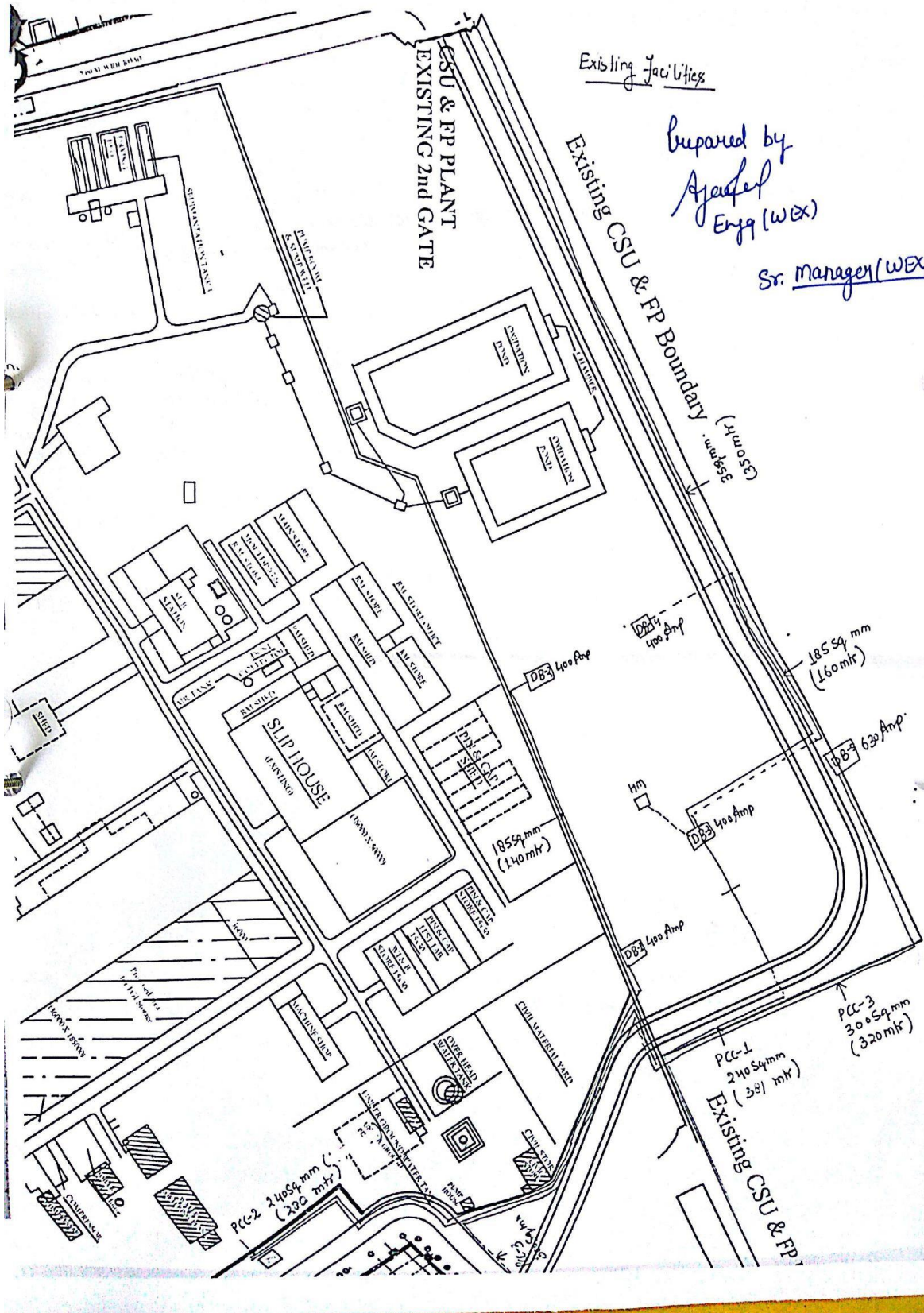
1. Quantity variation: Quantity may vary limited to $\pm 15\%$ of the contract value.
2. Penalty: Contractor shall be liable to pay penalty for delay in completion of work @ 0.5% of the awarded/extended value for every week of delay or part thereof, subjected to a maximum of 10% of the awarded/extended value of without BHEL being required to establish and prove the actual loss /damage suffered by BHEL on account of such delay.
3. Payment terms: Within 45 days after completion of Work. For other payment terms refer general terms and conditions.
4. Offer validity: 90 days from the date of opening of Part I – (Technical bid)

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G. DRAWINGS FOR CABLE LAYOUT:





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