


कार्यालय अधीक्षण अभियन्ता विद्युत पारेषण परिकल्पना मण्डल उ०प्र० पावर ट्रान्समिशन कारपोरेशन लि० शक्ति भवन विस्तार, 10 ^{वाँ} तल, 14-अशोक मार्ग, लखनऊ- 226 001 (भारत)		OFFICE OF THE SUPERINTENDING ENGINEER ELECTRICITY TRANSMISSION DESIGN CIRCLE UP POWER TRANSMISSION CORPORATION LTD. (UP GOVERNMENT UNDERTAKING) Shakti Bhawan Extn., 10 th Floor, 14-Ashok Marg, Lucknow- 226 001 (INDIA) Tele: (0522) 2286759, 2218645 Ext.8645 Fax.0522-2287872 E-Mail: seetdc@upptcl.org
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Dt: July 31, 2015

No. 2906/ETDC/4/ TD-395/EMC

Sub- Letter of Intent for construction of 290 Km 220/132 KV DC/SC lines under Package-1 of Tender Spec. No. TD-395/15.

Regd.

M/S EMC Limited,
 Constantia Office Complex,
 South Block, 8th Floor,
 11, Dr U N Brahmchari Street,
 Kolkata- 700 017

Email:- adhar@emcpower.com

Dear Sirs,

In reference to your offer no. M/UPPTCL/132 KV Lines/256 dt. 01.07.15 against Tender Specn. no. TD-395/15, we hereby place letter of intent for construction of following 220/132 KV DC/SC lines on turnkey basis (excluding supply of conductor and earthwire) as per details given below:

Package-1

S.No	Name of Line	Approx. Length (Km)	Rate /Km (Rs. in Lacs)	Total Amt. (Rs. in Lacs)
1.	LILO of 132 KV Mirzapur-Zigna II @ 132 KV Lalganj S/S	40	24.86	994.40
2.	132 kV DC Sirathu-Bharwari	35	24.86	870.10
3.	132 kV SC Deoria (220)-Purnachapar	40	22.92	916.80
4.	LILO of 220 kV Sarnath (400)-Sahupuri @ 220 KV S/S Bhadaura	85	39.47	3354.95
5.	LILO of 132 kV Jamania-Ghazipur @ 220 KV S/S Bhadaura	25	24.86	621.50
6.	132 kV SC Bhadaura-Kundeser	25	22.92	573.00
7.	132 kV SC Rudrapur-Deoria	20	22.92	458.40
8.	Unidentified 132 KV DC lines	20	24.86	497.20
	TOTAL	290.0		8286.59

Total value of order is about Rs. 82.87 Crores [extra for special works/ supply of material of specialised nature mentioned as per Schedule Q-4(a) & 4(b)] and price variation as applicable.

1.0 RATES:

Rates are given at enclosed price schedules as per details hereinafter: -

S.No.	Item	Schedule Reference
1	Rates for supply of towers and tower accessories	Q-1(132 KV DC), Q-1(132 KV SC), Q-1(220 KV DC)
2	Rates for supply of line material	Q-2(132 KV DC), Q-2(132 KV SC), Q-2a (220 KV DC)
3	Rates for supply of OPGW and it's hardware	Q-2b (220 KV DC)

4	Rates for construction of line	Q-3(132 KV DC), Q-3(132 KV SC), Q-3(220 KV DC)
5	Unit rates for special item of works	Q-4(a)
6	Unit rates for special supply item	Q-4(b)

Accordingly, total cost for supply and erection shall work out as under: –

S. N	Type of line	Apprx Qty. (Km)	Tower & Tower accessories (Rs.)	Line Material (including OPGW and it's hardware for 220 KV lines) (Rs.)	Erection (Including Service Tax) (Rs.)	Total cost (Rs.)
1	220 KV DC	85	16,27,52,954.45	6,36,24,072.00	10,91,41,975.10	33,55,19,001.55
2	132 KV DC	120	15,64,34,095.50	3,63,09,216.00	10,56,05,797.20	29,83,49,108.70
3	132 KV SC	85	10,86,56,676.48	1,35,00,915.00	7,26,33,650.31	19,47,91,241.79
Total			42,78,43,726.43	11,34,34,203.00	28,73,81,422.61	82,86,59,352.04

2.0 SCOPE OF WORK :

2.1 SUPPLY

- 2.1.1 Fabrication , Galvanizing inspection, routine testing & supply of tower including stub and stub setting, templates, tower extensions, gantries, special structures like river crossing and anchor towers, if any, D-Shackles, U-Bolts, hangers, extension links etc. based on drawings and Bill of Material provided by the purchaser. The tower members like U-Bolt, D-Shackle, hangers, extension links etc. shall be supplied complete with required number of bolts, nuts, washers , split pins etc. The structural drawings and BOM shall be provided by UPPTCL. However, the contractor shall have to develop shop drawings themselves. Fabrication of proto type towers, its assembly and proto inspection is also covered in the scope. Necessary quantities of steel of tested quality and zinc for fabrication and galvanizing of tower parts shall have to be arranged by the contractor themselves and UPPTCL shall in no way be responsible for arranging the same and will not accept any responsibility and liability in this connection.
- 2.1.2 Supply of Bolts Nuts and Washers, anti theft bolts & nuts, step bolts, spring washers conforming to relevant ISS, including wastage, if any.
- 2.1.3 Supply of all type of towers and its accessories like, phase plates, danger plates, number plates, anti climbing devices, circuit plates & earthing material etc.
- 2.1.4 Supply of all line materials i.e. Insulators, , conductor hardware & accessories, OPGW and it's hardware, earthwire hardware & accessories from approved vendors.
- 2.1.5 The tentative quantities to be supplied against this contract have been mentioned in the schedules Q-1, Q-2, Q-2(a), Q-2(b), Q-3 & Q-4(a&b). However, the contractor will have to supply the materials as per actual quantities required for construction of the transmission line.
- 2.1.6 The contractor shall be responsible for coordinating and arranging inspection and testing of items to be supplied by him including proto assembly inspection of all types of towers with extensions , templates and stubs at the manufacturer's works in presence of purchaser's representatives.

- 2.1.7 The design of special structures including river crossing towers and anchor towers, if any, and their foundations other than those supplied by the owner encountered if any, during erection of line shall also be under the scope of contract.

2.2 CONSTRUCTION OF LINE(S)

- 2.2.1 Survey (preliminary and final), profiling, tower spotting and preparing tower schedule, peg marking, excavation, stub setting, concreting, erection of all types of towers, gantry structures, special structures like structures for river crossing, if any, Including supply and application of Zinc rich primers and two coat of enamel paint at tack welding points, fixing of accessories, installation of hardware and insulator strings, stringing of conductor and it's hardware and accessories with the help of tension stringing equipment, fixing of conductor, stringing of OPGW and it's hardware, testing of OPGW, testing and commissioning of erected line (s). The contractor has to completely erect, test and commission the line(s).
- 2.2.2 Unloading and taking delivery of all materials to be supplied by your suppliers, transporting them to your depots, sorting and stacking them in proper storage sheds and yards, safe custody of all materials.
- 2.2.3 Soil investigation, Auger, soil, metal, sand, concrete and earth resistivity test etc whenever/wherever required by the purchaser.
- 2.2.4 Distribution of all material to the respective tower sites.
- 2.2.5 Supply of cement, stone, metal, sand, stone pad etc. to be used in foundation work shall be arranged and supplied by the contractor without any extra cost to UPPTCL.
- 2.2.6 Supply of reinforcement bars conforming to the relevant ISS for R.C.C. foundations.
- 2.2.7 Tools and Plants required for construction of the transmission lines at various stages shall be arranged by the contractor at his own cost.
- 2.2.8 Storage-cum-erection insurance of all material used / to be used on line as well as complete insurance of stores.
- 2.2.9 Erection, testing and commissioning of the line.
- 2.2.10 Safe custody and proper maintenance of completed transmission lines till the same is taken over by the purchaser.
- 2.2.11 Return of stub setting template and all surplus materials to UPPTCL nearest departmental stores.
- 2.2.12 Any other material, tools and plants, equipment etc. as may be necessary for construction of the transmission line (s) which have not been specifically mentioned in this contract but are necessary for the successful operation of the lines are deemed to be included in the scope.
- 2.2.13 Other necessary provisions, rules & regulations of Indian Govt. relating to construction of such lines, navigation, aviation, Railways, Roads, highways, forest, PTCC etc. are to be complied by the contractor.
- 2.2.14 The erection and installation of aviation requirements materials conforming to IS 5613 shall be in the scope of contractor.
- 2.2.15 Casting of well and pile foundation is not in scope of contractor. However, contractor shall be responsible of all necessary co-ordination with special foundation contractor during stub setting and erection of Anchor towers.

- 2.2.16 Supply & erection of other items not specifically mentioned in the specification but are essential for successful erection, testing & commissioning of transmission line, unless specifically excluded under the scope of the tender, shall also be responsibility & liability of the contractor.

3.0 **PRICE VARIATION:**

- 3.1 The quoted prices of supply & erection shall be variable without ceiling on either side as per price adjustment formula given in clause 2.3 (Part-II/SCC/Sec.2/Prices) of tender specification.
- 3.2 Ruling date of base prices of raw material shall be the 1st working day of preceding month of the date of opening of the tender, i.e. 1st June, 2015.
- 3.3 Within completion schedule of the line the price variation shall be granted as per actual date of inspection offer / completion of work. After completion schedule the UPPTCL liability of upward price variation shall be limited to the lower of price variation amount that applicable on the actual date of inspection offer / completion of work or that applicable on the last date of schedule completion date. But, in case of negative price variation the price variation as applicable on the actual date of inspection offer / completion of work shall be admissible.
- 3.4 No price variation shall be admissible on the component of packing & forwarding, freight and insurance charges. Freight, Insurance and P & F charges shall remain firm. As the Ex works rates are inclusive of P & F and insurance charges, therefore for purpose of arriving at the Ex works rates, P & F and insurance charges shall be de-loaded at the following rates- Packing and forwarding- 1%
Insurance (Transit +Storage)- 1%,
The PV shall be applicable on de-loaded prices. Updated prices after PV, shall again be added with de-loaded component of insurance, freight and P & F.

4.0 **TERMS OF PAYMENT :**

Payment terms shall be as per clause-25 of Form-A. However, payment for supplies shall be done only after completion of minimum erection works as detailed below:

Sl No	Detail of Supplies (Quantity wise)	Minimum Erection required for payment of supplies
1	50% Stubs and 100% Templates	On start of survey
2	Beyond 50% Stubs	70% of Survey and Profiling
3	25% Towers	After completion of 10% foundation work
4	25% to 50% Towers	After completion of 50% foundation & 10% erection work
5	Beyond 50% Towers & up to 75% Towers	After completion of 65% foundation & 25% erection work
6	Beyond 75% Towers & up to 100% Towers	After completion of 80% foundation, 50% erection work & start of stringing work
7	Line material	After completion of 25% Tower Erection work

The contractor has to provide all details of completed works along with visual charts for claiming the payments.

5.0 **TAXES & DUTIES :**

- 5.1 Taxes and duties shall be as per schedules enclosed.