

# TENDER

TENDER NOTIFICATION NO. - **FCX/19201062**

FOR

**Structural modification work at 132 KV switchyard at GPX and other area inside factory area.**

**PRICE BID**



**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**BHARAT HEAVY ELECTRICALS LIMITED**

**(A Government of India Undertaking)  
BHOPAL – 462 022 (M.P)**

## PREAMBLE OF PRICE BID

**1.0** This Price Bid consists of Three Schedule:

### **1.1 Schedule A**

Schedule A consists of **One** Annexure:

Total price of the package consisting of **Annexure I** to be quoted by the bidders which shall form the basis for comparison for deciding lowest bid. For further processing and award, total quoted amount by the L1 (lowest) bidder for the package shall be used for deriving individual item rate by BHEL based on % (percentage) weightage specified at **Annexure I** of Price Schedule.

### **1.2 Schedule B**

It consists of details of free issue materials by BHEL.

### **1.3 Schedule C**

It consists of details of tools & tackles provided by BHEL either on higher basis or on free of cost basis which are mentioned in price bid.

**2.0** The work to be carried out under the contract shall, except as otherwise provided in tender conditions, include all labour, materials, tools, plant, equipment, and transport which may be required in preparation of and for full & entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles as laid down in Technical Specification & elsewhere in Tender Specification.

**3.0** The price bid should not contain any condition. Conditional price Bids shall be summarily rejected.

**4.0** The bidder should not leave any column blank in Price Schedules.

**5.0** Price Quoted shall include all taxes, & duties except **GST**.

**6.0** Unless otherwise specified in the items involving cement, reinforcement steel or structural steel, these items shall be issued free of cost by BHEL.

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

**Price Schedule**

Name of work : Structural modification work at 132 KV swithchyard at GPX and other area inside factory area.

**SUMMARY**

	Details ANNEXURE	Total Amount (Rs.)
	Total price of the package consisting of <b>Annexure-I</b> .	

Amount in words: Rs.

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Total price of the package consisting of **Annexure-I** to be quoted by the bidders which shall form the basis of comparison for deciding lowest bid.

For further processing & award total quoted Amount for the package by the L1 (lowest) bidder shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at **Annexure-I** of Price Schedule.

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - I

Name of work : Structural modification work at 132 KV switchyard at GPX and other area inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Carriage of material by Mechanical transport including, loading, unloading & stacking of..			
(a)	Lime, moorum, building rubbish 1 km lead	10.00	cum	0.1330
(b)	Earth - 1 Km lead	80.00	cum	1.3294
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m; disposed earth to be levelled and neatly dressed.			
	All kinds of soil.	20.00	cum	0.5193
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	10.00	cum	0.1682
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:(Cement free issue by the Deptt.)			
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	16.25	cum	8.4044
5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work upto plinth level. <b>(cement which shall be supplied free of cost by BHEL)</b>			
	1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	65.00	cum	35.1803

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - I

Name of work : Structural modification work at 132 KV switchyard at GPX and other area inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
6	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : <b>(Cement free issue by BHEL)</b>			
	1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	4.00	cum	2.7359
7	Centering and shuttering including strutting, propping etc. and removal of form for :			
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	10.00	sqm	0.3122
(b)	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses, etc.	40.00	sqm	2.1998
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. <b>(Reinforcement bars will be supplied free of cost from BHEL store).</b>			
	Thermo-Mechanically Treated bars.	300.00	Kg	0.4457
9	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. <b>(Structural steel &amp; primer will be issued free of cost from BHEL stores).</b>			
		15500.00	Kg	40.6055
10	20 mm cement plaster of mix: <b>(excluding cost of cement which shall be supplied free of cost by BHEL)</b>			
	1 : 6 (1 cement : 6 coarse sand).	100.00	sqm	2.7201

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - I

Name of work : Structural modification work at 132 KV switchyard at GPX and other area inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
11	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	50.00	sqm	0.6795
12	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sqm and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead: <b>(Excluding the cost of cement)</b>			
	With cement mortar 1 : 4 (1 cement : 4 coarse sand).	50.00	sqm	1.5633
13	Removing dry or oil bound distemper by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches, etc. complete.	40.00	sqm	0.0602
14	Finishing walls with Premium Acrylic Smooth exterior paint with Silicon additive of required shade :			
	Old work (Two or more coat applied @ 1.43 ltr/10sqm) over existing cement paint surface.	175.00	sqm	1.9040
15	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.			
a)	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	2.00	cum	0.2694
b)	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	2.00	cum	0.1660

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - I

Name of work : Structural modification work at 132 KV switchyard at GPX and other area inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
16	Demolishing RCC work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	2.00	cum	0.3930
17	Dismantling steel work manually / by mechanical means in built up sections without dismembering and stacking within 50 meters lead. as per direction of Engineer-in-charge.	1000.00	Kg	0.2108
	Total of Annx-I			100.0000

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule B**

Name of work : Structural modification work at 132 KV swithchyard at GPX and other area inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement Steel.
- 3 Structural steel
- 4 Red oxide zinc chromate primer

**Price Schedule C**

Name of work : Structural modification work at 132 KV swithchyard at GPX and other area inside factory area.

- 1 Electricity charges at Rs.66.00/- per M.T. of fabrication of structural steel

Hire charges.

i) Drill machine @ 252.00/- per day      ii) Jack Hammer @108.00/- per day      } (Subject to availability)

Drill machine/jack hammer rod Rs. 100.00 per rod