

TENDER

TENDER NOTIFICATION NO. - FCX/19201018

FOR

Renovation & Modification work at GPX 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 Two Annexures:

Total price of the package combining of Annexure I & Annexure II 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 & Annexure II 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

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 & MAINTENANCE DIVISION

NIT No. :FCX/19201018

Price Schedule

Name of work:- : Renovation & Modification work at GPX inside factory area.

SUMMARY

Details ANNEXURE	Total Amount (Rs.)
Total Amount of ANNEXURE- (I) + ANNEXURE- (II)	

Amount in words: Rs.

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Total price of the package for Annexure-I & Annexure-II to be quoted by the bidders which shall from the basis of 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 & Annexure-II of Price Schedule.

Seal & Signature of Contractor

Dy.Manager (FCX/PLG)

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

NIT No. FCX/19201018

Price Schedule A - Annexure: I

Name of work:- : Renovation & Modification work at GPX inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of material by Mechanical transport including, loading, unloading & stacking of.....			
	1.1.1	a) Lime, moorum, building rubbish 1 km lead	10.00	cum	0.1691
	1.1.11	e) Steel - 1 Km lead	1.00	tonne	0.0150
2		Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :			
	2.1.1	All kinds of soil.	100.00	sqm	0.9668
3		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.			
	2.8.1	All kind of soil	7.00	cum	0.2337
4	2.25	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.	7.00	cum	0.1498
5		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: (cement which shall be supplied free of cost by BHEL)			
	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	5.00	cum	3.2886
	4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	5.00	cum	3.2278
6		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. (cement which shall be supplied free of cost by BHEL)			
	5.1.3	1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	9.00	cum	6.3556
7		Centering and shuttering including strutting, propping etc. and removal of form for :			
	5.9.1	a) Foundations, footings, bases of columns, etc. for mass concrete.	10.00	sqm	0.3970
	5.9.3	c) Suspended floors, roofs, landings, balconies and access platform.	50.00	sqm	3.8459

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	5.9.5	d) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	10.00	sqm	0.6415
	5.9.6	e) Columns, pillars, piers, abutments, posts and struts.	15.00	sqm	1.3384
8	Ana. 5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. (Reinforcement bars will be supplied free of cost from BHEL store).			
		Thermo-Mechanically Treated bars.	500.00	Kg	0.9446
9		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with (Excluding the cost of cement and stone which shall be supplied free of cost by BHEL):-			
	Ana 7.7.1	Cement mortar 1:6 (1 cement : 6 coarse sand).	14.00	cum	9.8444
10		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with (Excluding the cost of cement which shall be supplied free of cost by BHEL):-			
	7.7.1	Cement mortar 1:6 (1 cement : 6 coarse sand).	4.00	cum	1.8870
11	9.84	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws, etc. complete.	5.00	each	1.0671
12	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	5.00	each	0.7114
13		Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than Grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws, etc. complete:			
	9.95.6	75x63x4 mm	20.00	each	0.3234
14		Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws, etc. complete:			
	9.97.4	150x10 mm.	5.00	each	0.0644

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Price Schedule A - Annexure: I

Name of work:- : Renovation & Modification work at GPX inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
15		Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with necessary screws, etc. complete.			
	9.101.1	Single rubber stopper.	5.00	each	0.0312
16	Ana. 10.2	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. (Structural steel & primer will be issued free of cost from BHEL stores).	1050.00	Kg	3.4980
17	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	30.00	kg	3.7259
18	**	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc. complete. :(Excluding cost of cement which shall be supplied free of cost by BHEL)			
	11.41.2	Size of Tile 600x600 mm	45.00	sqm	12.6987
19	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles. (Excluding cost of cement which shall be supplied free of cost by BHEL)	45.00	sqm	-3.2907
20	11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	45.00	sqm	3.7054

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Price Schedule A - Annexure: I

Name of work:- : Renovation & Modification work at GPX inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
21	**	12 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.4.2	1 : 6 (1 cement : 6 coarse sand) .	55.00	sqm	1.3928
22	**	15 mm cement plaster on rough side of single or half brick wall of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.5.2	1 : 6 (1 cement : 6 coarse sand).	55.00	sqm	1.6056
23	**	20 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.6.2	1 : 6 (1 cement : 6 coarse sand).	53.00	sqm	1.8333
24	**	6 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.16.1	1 : 3 (1 cement : 3 fine sand).	48.00	sqm	0.9729
25		Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer, of required shade and color complete as per Manufacturer's specification.			
	13.42.1	Two or more coats on new work	55.00	sqm	0.5034
26	Analysis 13.80	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.	110.00	sqm	1.9011
27		White washing with lime to give an even shade :			
	13.37.1	New work (three or more coats)	48.00	sqm	0.1403
28		Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer, of required shade and color complete as per Manufacturer's specification.			
	13.42.1	Two or more coats on new work	55.00	sqm	0.5034
29		Painting with synthetic paint of approved brand and manufacture of required colour to give an even shade:(Synthetic paint free issue by BHEL store)			
	Ana 14.54.1	One or more coats on old work.	247.00	sqm	1.5512

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Price Schedule A - Annexure: I

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
30		Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge:			
a)	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	2.00	cum	0.3426
b)	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	5.00	cum	0.5280
31	15.3	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	0.4998
32		Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :			
	15.7.4	In cement mortar.	5.00	cum	0.7232
33		Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge:			
	15.9.2	In cement mortar	14.00	cum	2.4162
34	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	200.00	Kg	0.0791
35		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS : 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately).			
a)		For fixed portion.			

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	60.00	kg	5.2094
b)		For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately.)			
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	30.00	kg	2.7847
36	21.2	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/stainless steel screws, etc. complete as per architectural drawings and directions of Engineer-in-charge:			
	21.2.2	Pre-laminated particle board with decorative lamination on both side .	10.00	sqm	2.0058
37	21.13	Providing and fixing 100 mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2.00	each	0.1507
Total: (Annexure-I)					80.9835

Seal & Signature of Contractor

Dy.Manager (FCX/PLG)

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

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Price Schedule A - Annexure: II

Name of work:- : Renovation & Modification work at GPX inside fac

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Brick work with Ghol bricks of class designation 50 and above in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6 (1 cement : 6 coarse sand).(Cement free issue by the Deptt.)	13.00	cum	19.0165
Total: (Annexure-I)				19.0165
Grand Total:(Annexure-I+Annexure-II)				100.00

Seal & Signature of Contractor

Dy.Manager (FCX/PLG)

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SCHEDULE-B

Name of work:- : Renovation & Modification work at GPX inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement Steel.
- 3 Stone for C.R.Masonry against item no 9 of Annexure-I
- 4 Structural steel
- 5 Red oxide zinc chromate primer
- 6 Synthetic enamel paint

Seal & Signature of Contractor

Dy.Manager (FCX/PLG)

SCHEDULE-C

Name of work:- : Renovation & Modification work at GPX 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

Seal & Signature of Contractor

Dy.Manager (FCX/PLG)