

TENDER

TENDER NOTIFICATION NO. - **FCX/20211012**

FOR

Renovation & Modification of Annexe -1B 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** Annexure:

The evaluation currency for this tender shall be INR. Total price of the package combining **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 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 & MAINTENANCE DIVISION

Price Schedule

Name of work : Renovation & Modification of Annexe -1B inside factory area

SUMMARY

	Details ANNEXURE	Total Amount (Rs.)
	Total price of the package combining of Annexure-I & Annexure-II.	

Amount in words: Rs.

.....
.....

The evaluation currency for this tender shall be INR. Total price of the package combining of Annexure-I & Annexure-II 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 & Annexure-II of Price Schedule.

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of material up to 1 km lead by Mechanical transport including, loading, unloading & stacking -			
	1.1.1	Lime, Moorum, Building rubbish	15.00	cum	0.0349
2		Providing and laying in position cement concrete of specified grade excluding the cost of centering, shuttering- All work up to plinth level: .(excluding cost of 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	0.4521
3		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 free issue by the Deptt.)			
	5.1.2	a) 1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	5.00	cum	0.4730
4		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.	30.00	sqm	0.1600
	5.9.2	b) Walls (any thickness) including attached pilasters, butteresses, plinth and string courses, etc.	30.00	sqm	0.2884
5	Ana. 5.22A.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).			
		b) Thermo-Mechanically Treated bars.(TMT bars)	500.00	kg.	0.1298

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
6		Providing & Fixing 18 mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen plateforms, vanity counters, window sills, facias and sillilar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1 : 4 (1 cement : 4 course sand) joints treated with white with cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all level. (Cement free issue from BHEL store)			
		Granite of any colour and shade (The colour of granite shall be Zed black or Lakka Red)			
	8.2.2.2	Area of slab over 0.50 sqm	50.00	sqm	4.5782
7		Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :			
	9.66.1	125 mm	25.00	each	0.0180
8	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	10.00	each	0.2934
9		Providing and fixing aluminium sliding door 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 nuts and screws, etc., complete.			
	9.96.2	250 x 16 mm.	10.00	each	0.0512

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
10		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.	10.00	each	0.0177
11		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.			
	9.101.2	Twin rubber stopper.	10.00	each	0.0213
12	9.113	Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door with necessary screws etc complete as per direction of Engineer - in - charge.	10.00	each	0.1245
13	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).	2500.00	kg	1.1449

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
14	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. (excluding cost of cement which shall be supplied free of cost by BHEL)	50.00	sqm	1.0335
15		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 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.			
	11.41.2	Size of Tile 600x600 mm	420.00	sqm	16.2931
16	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles. (Cement Free Issue)	420.00	sqm	-4.2221
17	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.	420.00	sqm	4.7542

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
18	11.38	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in all colours, shades, except White, Ivory, Rey, Fume Red Brown laid on 20mm thick bed of Cement Mortar 1:4(1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete. (excluding cost of cement which shall be supplied free of cost by BHEL)	50.00	sqm	1.0659
19		Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion			
		(i) Single socketed pipes:			
(a)	12.41.1	75 mm dia.	20.00	metre	0.0790
(b)	12.41.2	110 mm dia.	20.00	metre	0.1287
20		Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion:			0.0000
		1) Coupler			
	12.42.1.1	a) 75 mm	10.00	each	0.0301
	12.42.1.2	b) 110 mm	10.00	each	0.0400
		2) Single tee with door.			
	12.42.3.1	a) 75x75x75 mm	10.00	each	0.0628
	12.42.3.2	b) 110x110x110 mm.	10.00	each	0.0910
		3) Single tee without door			
	12.42.4.1	a) 75x75x75 mm.	10.00	each	0.0559
	12.42.4.2	b) 110x110x110 mm.	10.00	each	0.0731
		4)Bend 87.5 degree			

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	12.42.5.1	a) 75 mm bend.	10.00	each	0.0322
	12.42.5.2	b) 110 mm bend.	10.00	each	0.0479
		5) Shoe (Plain)			
	12.42.6.1	a) 75 mm Shoe.	10.00	each	0.0498
	12.42.6.2	b) 110 mm Shoe.	10.00	each	0.0865
21		Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1 : 4 (1 cement : 4 coarse sand) and making good the wall etc. complete:			
(a)	12.43.1	75 mm.	20.00	each	0.0852
(b)	12.43.2	110 mm.	20.00	each	0.0956
22		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	704.00	sqm	0.8852
23	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.	704.00	sqm	1.6724
24		Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters 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 50metres lead : (excluding cost of cement which shall be supplied free of cost by BHEL)			
	14.1.2	With cement mortar 1:4 (1cement: 4 coarse	100.00	sqm	0.5466

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
25		Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground.			
	14.4.1	For door/ window/ clerestory window.	2.00	sqm	0.0257
26	14.46	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches, etc. complete.	704.00	sqm	0.1853
27	Analysis	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade (Paint shall be provided free of cost form BHEL)			
	14.54.1	One or more coats on old work	100.00	sqm	0.0848
28		Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.			
	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent	5.00	cum	0.1177
29		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	10.00	cum	0.1988
30		Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :			
	15.12.1	Of area 3 sq. metres and below	50.00	Each	0.1785

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
31		Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :			
	15.39.1	Up to 10 mm thick	80.00	sqm	0.0481
32		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : (excluding cost of cement which shall be supplied free of cost by BHEL)			
	17.2.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	2.00	Each	0.1323
33		Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : (excluding cost of cement which shall be supplied free of cost by BHEL)			
		Kitchen sink without drain board			
	17.10.2.1	610x510 mm bowl depth 200 mm.	2.00	Each	0.2386
34		Providing and fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anticorrosive bitumastic paint, cutting chases and making good the wall (excluding cost of cement which shall be supplied free of cost by BHEL)			
	18.11.1	15 mm dia nominal bore	100.00	RM	0.7295
35		Providing and fixing brass stop cock of approved quality :			
	18.16.1	15 mm nominal bore	10.00	Each	0.0618

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
36		Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931			
	18.49.1	15 mm nominal bore.	10.00	Each	0.1192
37		Providing and fixing PTMT grating of approved quality and colour.			
		Circular type:			
	18.58.1.1	100 mm nominal dia.	10.00	each	0.0132
38		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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :			
	21.1.1	For fixed portion.			
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	2238.00	kg	25.0522
39		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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)			
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	714.00	kg	9.1108

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
40		Providing and fixing 12 mm thick prelaminated particle board flate pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II in panelling fixed 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 sides.	218.00	sqm	6.0109
41		Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-Charge. (Cost of aluminium snap beading shall be paid in basic item):			
	21.3.1	With float glass panes of 4.0 mm thickness	127.00	sqm	2.8427
		Annexure : I			75.9241

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - II

Name of work : Renovation & Modification of Annexe -1B inside factory area.

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).(excluding cost of cement which shall be supplied free of cost by BHEL)	20.00	cum	4.2444
2	Providing and fixing in true horizontal level 600 mm x 600 mm false ceiling system manufactured by M/s. Armstrong World Industries using hot dipped galvanized steel section, exposed surface with pre-coated capping, main tee of size 15 x 32 mm., having 0.27 mm gauge at every 1200 mm. centre to centre maximum and rotary stitched cross tee of size 15 x 32 mm, having 0.27 mm gauge at every 600 mm. c/c. and sub cross tee of size 15 x 32 mm, having 0.25 mm gauge at 1200 mm c/c. and wall angle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 1200mm c/c. in both directions using 2.0 mm. thick pre-straightened GI wire laying <u>ORCAL LAY-IN STANDARD PERFOARTED MICROLOOK EDGE METAL TILE WITH ACCOUSTICAL FLEECE</u> manufacture and punched in single process by M/s. Armstrong world Industries, of size 600mm x 600mm x 0.5 mm having NRC 0.70 , light reflectance of >61% (WT), with standard Perforation of 2.5 mm dia. (16% open space), having fire performance CLASS 0 / CLASS 1 (BS 476), surface having global white- baked polyster paint over the formed grid complete. SPECIFICATION FOR ACCOUSTICAL FLEECE- The Acoustical Fleece(Fabric Backing) to be used in case of perforated metal ceiling system should be "Soundtex" acoustic nonwoven C 1986 SP as manufactured by M/s. Freudenberg, Germany.	420.00	Sqm	19.8315
Annexure : II				24.0759
Total : Annexure I + Annexure : II				100.0000

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : B

Name of work : Renovation & Modification of Annexe -1B inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Structural Steel
- 3 Red oxide zinc chromate primer
- 4 Synthetic enamel paint

Price Schedule : C

Name of work : Renovation & Modification of Annexe -1B inside factory area.

Renovation & Modification of Annexe -1B 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 | } (Subject to availability) |
| ii) Jack Hammer @108.00/- per day | |

Drill machine/jack hammer rod Rs. 100.00 per rod