

# TENDER

TENDER NOTIFICATION NO. - **FCX/19201065**

FOR

Repair/replacement of sheets/ gutters/ rain water pipes  
and accessories etc. of manufacturing blocks/process  
plants and sheds 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:

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 : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

**SUMMARY**

	Details ANNEXURE	Total Amount (Rs.)
	Total price of the package combining of <b>Annexure-I &amp; Annexure-II.</b>	

Amount in words: Rs.

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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 A : Anneuxre - I**

Name of work : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of materials by mechanical transport including loading, unloading and stacking -			
a)	1.1.1	Lime ,moorum, building rubbish-1 km	12.50	cum	0.1714
b)	1.1.11	Steel 1 km. lead	0.75	tonne	0.0091
c)	Ana.	Sheets of any type up to 1 km lead	10.00	tonne	0.1854
d)	1.1.17.1	AC pipes 100mm up to 1 km lead	45.00	metre	0.0135
e)	1.1.17.3	AC pipes 150mm up to 1 km lead	90.00	metre	0.0450
2	15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	700.00	kg	0.1522
3		Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of :			
a)	15.28.1	G.S. sheet	140.00	sqm	1.3245
b)	15.28.2	Asbestos sheet	1775.00	sqm	7.9372
4		Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :			
a)	15.42.2	100 mm dia pipe.	70.00	metre.	0.3116
b)	15.42.3	150 mm dia pipe.	205.00	metre.	0.9400
5	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).	750.00	Kg	1.9874
6	Ana. 13.50.3	Applying priming coat With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works (Excluding cost of primer which shall be issued free of cost by BHEL).	137.50	sqm	0.4683
7	Ana. 13.63.1	Painting with aluminium paint of approved brand and manufacture to give an even shade: (Excluding cost of Aluminium paint and putty which shall be issued free of cost from BHEL store ).			
		Two or more coats on new work	137.50	sqm	1.0276

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION****Price Schedule A : Anneuxre - I**

Name of work : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
8	Ana.	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:(Paint free issue from BHEL store)			
	13.61.1	Two or more coats on new work.	137.50	sqm	1.0091
					15.5823

Note:Dismantling of GI/PVC rain water down take pipes and fittings shall also be paid under item no. 4 of Annexure I.

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**  
**Price Schedule A : Anneuxre - II**

Name of work : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Fixing non-asbestos high impact Polypropylene reinforced cement 6 mm thick/ Asbestos cement corrugated sheets (as per IS : 14871 ) roofing up to any pitch and fixing with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. Plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses corrugated sheets and including cutting to size and shape wherever required(Including the cost of fixtures but excluding the cost of sheets which shall be supplied free of cost from BHEL store ).	1825.00	sqm	17.4098
	<b>Note: Cost of unscrewing of nuts, bolts etc. of adjacent sheet (if required) and screwing/ fastening of the same after replacement of sheets are included in this item. If new nuts, bolts , screw are required same is to be provided by the contractor itself.</b>			
2	Fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing sheet / A.C. sheet roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete. (Excluding cost of ridges which shall be issued free of cost from BHEL store.).			
	Corrugated serrated adjustable ridges	50.00	metre	0.3695
3	Replacement of MS/galvanised gutter at various heights in fy. Blocks and sheds including fixing of nuts, bolts , washers and making cut out for rain water pipe etc. ( Note: Only Gutter shall be provided by BHEL. )	137.50	sqm	5.6436
4	Repairing of joints of PVC pipes with solutions / chemicals up to maximum height of 30 metres (approx) (Note:- Repairing of joints shall include jointing of accessories like couplers/ bends/ tees etc.which may be found disaligned/ misplaced from their original place.But if accessories like : couplers/ bends/ tees etc.found damaged, they shall be replaced with new ones which shall be payable against respective items of this shedule.)			
	a) 110mm dia	30.00	each	0.0299

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**Price Schedule A : Anneuxre - II**

Name of work : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	b) 160mm dia	70.00	each	0.2197
	c) 200mm dia	70.00	each	0.3595
5	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:( <b>only Pipe shall be issued free of cost from BHEL</b> )			
	Pipes of all diameter	275.00	metre	3.951
6	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:( <b>Only fittings shall be issued free of cost from BHEL</b> )			
	All types of fittings with all diameter	70.00	each	2.1563
7	Labour only for laying of self adhesive waterproofing membrane consisting of self adhesive SBS (Styrene Butadiene Styrene) modified / bitumen compound covered on the top side with high density cross – laminated polyethylene film and on the underside with an easy – to- peel silicon film on the existing roof of fy.buildings/stores/sheds/ manufacturing blocks at any height upto a maximum of 35.0 M after neatly cleaning the surface and making it dry and applying primer.It is to be used for arresting any type of water leakages. <b>Self adhesive water proofing membrane and it s primer shall be issued free of cost from BHEL stores.</b> Rate is inclusive of necessary tools	275.00	sqm	4.5146
8	Making leak proof from leakage of 100mm to 200mm dia CI/ G.I./A.C./P.V.C rain water down comer pipes and specials at various heights in Fy. Blocks and sheds including cleaning old surface and applying new layers of bitumen compound/ self adhesive SBS (Styrene Butadiene Styrene) modified to stop the leakage.(Bitumen compound/ SBS (Styrene Butadiene Styrene) modified to <b>be issued by the department free of cost</b> ).	400.00	Joint	3.3215

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**Price Schedule A : Anneuxre - II**

Name of work : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
9	Fixing of polycarbonate sheet in northlight glass after cutting it to shape and size and fixing with EPDM gasket , self tapping screw etc. The above item includes the cost of labour, EPDM gasket, self tapping screw etc. but excluding the cost of polycarbonate sheet.( <b>The polycarbonate sheet shall be provided by BHEL free of cost</b> )	70.00	Sqm	5.743
10	Lowering of dismantled / loose sheets of any type lying on the roof top of the manufacturing block/ shed including stacking at designated place near the			
	Sheets of all dimensions	820.00	Each	13.4653
11	Carriage of PVC pipe up 1 KM lead as per the direction of Engineer-in-charge.	5.00	tonne	2.0479
12	Fixing of north light curve , flashings, ridges etc. in the required shape and size with self tapping screw , EPDM washers etc. complete. ( Note: North light curve ,ridges, flashings etc. of galvalume shall be provided by BHEL free of cost but cost of screw, nuts and bolts are in the scope of contractor).	327.50	metre	6.0511
13	Cleaning accumulated dirt/ dust/ rubbish including vegetation / any other obstruction from Valley gutter of factory Blocks and sheds so as to make it obstruction free to prevent spill over / overflow of water from the gutters and stacking it due to dirt, dust and rubbish etc. including collecting / lowering	18635.00	metre	19.135
	<b>Total :</b>			<b>84.4177</b>
	<b>Total = Annexure-I + Annexure-II</b>			<b>100.0000</b>



**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**  
**Price Schedule B**

Name of work : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

1	AC sheets, polycarbonate sheets	}	Free issue from BHEL store
2	Bitumen compound		
3	Red oxide primer.		
4	Structural steel		
6	Synthetic enamel paint		
7	Aluminium paint		
8	PVC pipes and fittings		
9	Galvalume Ridges/ flashings / NL curve		
10	Self adhesive SBS (Styrene Butadiene Styrene) modified / bitumen compound		

**Price Schedule C**

Name of work : Repair/replacement of sheets/ gutters/ rain water pipes and accessories etc. of manufacturing blocks/process plants and sheds inside factory area.

1	Hire charges.	}	(Subject to availability)
	i) Drill machine @ 252.00/- per day		
	ii) Jack Hammer @108.00/- per day		
2	Drill machine/jack hammer rod Rs. 100.00 per rod		
3	Electricity charges at Rs.66.00/- per M.T. of fabrication of structural steel		