

**BHARAT HEAVY ELECTRICALS LTD**  
**HEAVY PLATES & VESSELS PLANT**  
**VISAKHAPATNAM-12**  
**OUTSOURCING DEPARTMENT**

Ref: OPS/OS/AMC/2017-18/40/047

Date: 18.09.2017

**CORRIGENDUM 01**

**Sub:** AMC for Civil Maintenance of Factory Buildings in BHEL-HPVP, Visakhapatnam - Reg.

**Tender Enquiry No:** OPS/OS/AMC/2017-18/40/047, Dated: 08.08.2017

The following changes are effected in the above refereed NIT instead of existing clauses:

Sl. No.	Description	Existing	Read As
1	Estimated Value	₹ 21.20 Lakhs	₹ 18.82 Lakhs
2	EMD Amount	₹ 42,400/-	₹ 37,640/-
3	Eligibility Criteria	<p>I) Average annual turnover of the contractor during the last 3 years ending 31<sup>st</sup> March 2017 should be at least 30% of the estimated value. (i.e. ₹ 6.36 Lakh)</p> <p>II) The Contractor should have experience of completing similar works during last 7 years ending 31<sup>st</sup> July 2017 as given below:</p> <p>a) Three similar completed works costing not less than the amount equal to 40% of the estimated value (i.e. ₹ 8.48 Lakh each)</p> <p style="text-align: center;">OR</p> <p>b) Two similar completed works costing not less than the amount equal to 50% of the estimated value. (i.e. ₹ 10.60 Lakh each)</p> <p style="text-align: center;">OR</p> <p>c) One similar completed work costing not less than the amount equal to 80% of the estimated value. (i.e. ₹ 16.96 Lakh)</p>	<p>I) Average annual turnover of the contractor during the last 3 years ending 31<sup>st</sup> March 2017 should be at least 30% of the estimated value. (i.e. ₹ 5.65 Lakh)</p> <p>II) The Contractor should have experience of completing similar works during last 7 years ending 31<sup>st</sup> July 2017 as given below:</p> <p>a) Three similar completed works costing not less than the amount equal to 40% of the estimated value (i.e. ₹ 7.53 Lakh each)</p> <p style="text-align: center;">OR</p> <p>b) Two similar completed works costing not less than the amount equal to 50% of the estimated value. (i.e. ₹ 9.41 Lakh each)</p> <p style="text-align: center;">OR</p> <p>c) One similar completed work costing not less than the amount equal to 80% of the estimated value. (i.e. ₹ 15.06 Lakh)</p>

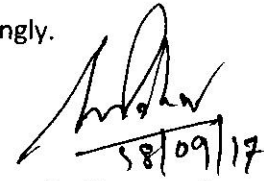
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**CORRIGENDUM 01**

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Sl. No.	Description	Existing	Read As
4	Clause No. 1 of Annexure - II	The Contractor shall pay the minimum wages to the contract labour as notified by the Central Government from time to time. The Government Order indicating the present rate of minimum wages is enclosed at Annexure - III.	The Contractor shall pay the minimum wages to the contract labour as notified by the HR dept. of BHEL - HPVP, Visakhapatnam from time to time. The present rate of minimum wages is enclosed at Annexure - III (A).
5	Minimum Wages w.e.f. 01.04.2017	As per Annexure - III.	As per Annexure - III (A) as enclosed.
6	Part II (Price Bid)	As per Annexure - VIII.	As per Annexure - VIII (A) as enclosed.
7	Last Date for Offer Submission & Opening of Bids	22.08.2017. The due date was extended up to 06.09.2017 & further up to 18.09.2017	14:00 Hrs. on 27.09.2017

Bidders are requested to note the above changes and submit the offer accordingly.



Sr. Manager (Outsourcing)

**ANNEXURE-III (A)**

Ref: OPS/OS/AMC/2017-18/40/047

Date: 18.09.2017

**MINIMUM WAGES & STATUTORY BENEFITS PAYABLE TO THE CONTRACT  
LABOUR AS NOTIFIED BY THE HR DEPT. OF BHEL – HPVP, VISAKHAPATNAM  
W.E.F. 01.04.2017**

All values are in ₹

<b>Sl. No.</b>	<b>Description</b>	<b>Unskilled</b>	<b>Semi Skilled</b>	<b>Skilled</b>
1	Minimum Wage	<b>312.00</b>	<b>365.71</b>	<b>448.85</b>
2	PF @ 13.61%	42.46	49.77	61.08
3	ESI @ 4.75%	14.86	17.37	21.32
4	Bonus @ 8.33%	25.98	30.46	37.38
5	Leave Wages (18 days / Year)	18.00	21.09	25.89
6	Terminal Benefit for (15 days / year)	15.00	17.58	21.57
7	Holidays for 10 days per year	10.00	11.72	14.38
	<b>TOTAL</b>	<b>438.26</b>	<b>513.70</b>	<b>630.47</b>

**SIGNATURE OF THE TENDERER WITH SEAL**

# **PART – II**

**(PRICE BID)**

**BHARAT HEAVY ELECTRICALS LIMITED  
HEAVY PLATES & VESSELS PLANT  
VISAKHAPATNAM – 530 012**

**NAME OF WORK: AMC for Civil Maintenance of Factory Buildings in BHEL-HPVP, Visakhapatnam.**

**Tender Enquiry No: OPS/OS/AMC/2017-18/40/047, Date: 08.08.2017**

- 1) Tenderers are requested to visit the site before submitting their tenders and go through the site conditions, nature and quantum of the job to be done and in general shall themselves obtain all necessary information as to risks, safety precautions, contingencies and other circumstances. A tenderer shall be deemed to have full knowledge of the site, whether he inspects it or not, no claim shall be allowed.
- 2) Contractor shall pay the minimum wages to the contract labour as notified by Central Government from time to time.  
  
In addition to the above the contractor has to comply with the entire statutory requirement such as PF, ESI, Bonus, Leave wages, Retrenchment compensation etc.
- 3) The quantities provided in the schedule are only provisional & may vary according to exigency of the work and no extra claim can be entertained on this score.
- 4) The supply of the cement is in the contractor's scope. The cement used should be of the Grade – 43 /53 OPC conforming the IS 8112/1269 cement consumption should strictly be as per CPWD Specification.
- 5) The supply of Reinforcement Steel is also in the scope of contractor. The mild steel reinforcement bar should conform to IS 432 Gr. I and high yield deformed reinforcement bar to conform to IS 1786 or IS 1139.
- 6) In General all the materials are in the scope of contractor. Only water and power will be provided at a point free of charge and subsequent lines will be drawn by contractors at their own cost.
- 7) Before procurement of the materials, approval of the Engineer-in-charge regarding required quality and make/brand should be obtained.
- 8) Tenderers should have accidental insurance in favour of their work man.
- 9) All rates should be inclusive of scaffolding/staging or the full height of building so as to carry out the complete work. No additional payment will be made for the scaffolding work.
- 10) **The quoted prices shall be inclusive of all applicable taxes & duties as applicable as on date of tender submission except GST.** However, GST as applicable shall be payable by the contractor and same will be reimbursed by BHEL on submission of proof of payment.
- 11) **The quoted rate shall be fixed & firm throughout the contract period. No cost escalation will be paid on any account throughout the contract period for any item.**
- 12) **L1 shall be evaluated based on quoted total price.**
- 13) **Offered discount / Increase will be considered for calculation of unit rate & total amount for each item.**

**SIGNATURE OF THE TENDERER WITH SEAL**

**BHARAT HEAVY ELECTRICALS LIMITED**  
**HEAVY PLATES & VESSELS PLANT**  
**VISAKHAPATNAM – 530 012**

**NAME OF WORK:** AMC for Civil Maintenance of Factory Buildings in BHEL-HPVP, Visakhapatnam.

**Tender Enquiry No:** OPS/OS/AMC/2017-18/40/047, Date: 08.08.2017

**SCHEDULE OF QUANTITY FOR THE WORK**

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
1	Earth work in excavation in foundation or drains (not exceeding 1.5 m in width or 10 Sq.m. on plan) in all types of ordinary & Hard soil up to 1.50 m depth including getting out the excavated soil, dressing of sides and ramming of the excavated soil and disposal of surplus excavated soil as directed with in a lead of 50 m and neatly dressed. Rate also includes bailing or pumping out water during excavation due to sub soil water, rain water etc.				
1 a	All kinds of soil except rock.	Cu.m.	200	81.12	16,224.00
1 b	Same as item No.1 above in all kinds of soil for depths between 1.50 meter to 3.00 meter.	Cu.m.	50	111.54	5,577.00
1 c	Same as item No.1 above in all kinds of soil for depths between 3.00 meter to 4.50 meter.	Cu.m.	50	121.68	6,084.00
1 d	For Hard rock excavation at depth up to 4.50 meters.	Cu.m.	5	223.08	1,115.40
2	Earth work in surface dressing and leveling in all kinds of soil not exceeding 30 cm in depth but exceeding 1.50 m width as well as 10 sq.m on plan including disposal of surplus waste material.	Sq.m	3500	6.08	21,294.00
3	Back filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc., in layers not exceeding 20 cm in depth, consolidating the filled earth deposited, in layer by ramming watering, lead up to 50 m etc., complete.	Cu.m	100	45.63	4,563.00
4	Supplying and filling Fine sand in plinth, under floors including watering, ramming, consolidating and dressing complete with all material, labour, tools and tackles as per specifications and direction of Engineer - in - charge.	Cu.m	5	1,106.16	5,530.80
5	Supply and filling quarry dust in plinth, under floors including watering, ramming, consolidating and dressing complete with all material, labour, tools and tackles as per specifications and direction of Engineer-in-charge.	Cu.m	10	351.96	3,519.60

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
6	Conveyance of surplus earth / debris materials by mechanical transport, loading, unloading and rough dressing complete as directed from any place to any area within BHEL premises.	Cu.m	500	135.76	67,878.00
7	Providing and laying plain cement concrete 1:5:10 (1 cement: 5 coarse sand: 10 graded granite stone aggregate of 40 mm nominal size) including cost of centering and shuttering in foundations, plinth and in flooring.	Cu.m	8	3,620.16	28,961.28
8	Providing and laying Reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded granite stone aggregate of 20 mm nominal size) in Foundation, Footing, bases of column and lintel etc. excluding cost of centering and shuttering and reinforcement steel <b>NOTE: REINFORCEMENT STEEL WILL BE ISSUED AT FREE OF COST FROM STORES.</b>	Cu.m	8	6,335.28	50,682.24
9	Providing and laying plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) excluding cost of centering and shuttering in foundations plinth, jacketing concreting, concrete for projection of steel stanchion bases etc., including finishing to a smooth and even surface complete as directed.	Cu.m	10	6,536.40	65,364.00
10	Providing and laying cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate of 12.5 mm nominal size) excluding cost of centering and shuttering for roof leak arresting screed concreting works and also for water proofing works in roof slabs/terrace area, including cost of water proofing chemical "Conplast X 421 IC" of fosroc chemical as per manufacturers specification, finishing with cement mortar (1:3) to a smooth and even surface complete as directed.	Cu.m.	10	6,234.72	62,347.20
11	M.S or RTS Reinforcement for RCC works including bending, binding and placing in position etc. complete excluding cost of steel but Rate includes cover blocks, cost of binding wire, and conveyance of MS/RTS bars from BHEL stores to site of work and for working in all heights.	MT	2	7,542.00	15084.00

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
12	Providing and Fixing Centering and Shuttering including strutting, propping etc., and removal of form work for :				
	(a) Foundation and Plinth	Sq.m.	25	195.04	4,875.90
	(b) Lintel, beams & Slabs etc.	Sq.m.	5	424.66	2,123.32
	c) For wooden pockets in machine foundation.	Sq.m.	2	1,257.00	2,514.00
13	Providing and Laying second class brick work in cement mortar 1:6 (1 cement : 6 coarse sand) below plinth and above ground level for all heights for wall repair work and manhole chambers.	Cu.m.	15	4,223.52	63,352.80
14	Providing and laying half brick masonry work in cement mortar 1:4 (1 cement : 4 coarse sand) using second class brick with hoop iron 25 mm x 1.6 mm or equivalent reinforcement at every third coarse embedded in cement mortar at all elevations / heights.	Sq.m.	35	538.50	18,847.46
15 a	Repairing the compound walls and drain by removing the old Cement mortar and making the wall good with fallen / slipped Random Rubble stones with CM 1:6 ( 1 Cement : 6 Fine sand ) complete as directed.	Cu.m.	15	2,212.32	33,184.80
15 b	Providing and laying Random Rubble masonry compound wall with hard stone in foundation, plinth and in Super structure with cement mortar 1:6 (1 cement : 6 coarse sand) including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded granite stone aggregate 10 mm nominal size) at all levels.	Cu.m.	12	2,312.88	27,754.56
16	Removing of chowkats and Fixing new chowkats for windows including cutting masonry for hold fasts, embedding hold fast in cement concrete blocks with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded aggregate 20 mm nominal size) and making good the damages to walls and floors complete including disposal of rubbish to the dumping ground within 50 mts. lead. (Window chowkats will be supplied by BHEL)	Each	3	532.47	1,597.40

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
17	Removing of old chowkats and Fixing new chowkats for doors including embedding chowkats in floor, cutting masonry for hold fasts in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) and making good the damages to walls and floors complete including disposal of rubbish to the dumping ground within 50 mts. lead (Door Chowkats will be supplied by BHEL).	Each	3	857.48	2,572.43
18	Providing and laying 8 mm thick Vitrified Floor Tiles of first quality approved make and in all colours of required sizes in flooring etc., laid over a bed of cement slurry @ 3.30 Kg/Sq.m and a backing layer of 20 mm thick cement mortar 1:4 finished with flush pointing in white cement using appropriate colour pigment etc. complete all as per standard specifications.	Sq.m	50	1136.33	56,816.40
19	Providing and fixing quality 6 mm thick glazed tiles for walls/ flooring including removal of old tiles and jointing with cement slurry mixed with pigment to match the shades of tiles.	Sq.m	100	905.04	90,504.00
20	Providing and fixing quality 6 mm thick glazed curved / channel type tiles for walls/ flooring including removal of old tiles and jointing with cement slurry mixed with pigment to match the shades of tiles.	RM	15	100.56	1,508.40
21	Providing and laying 6 mm thick cement plaster in cement mortar 1:3 (1 cement: 3 fine sand) in ceiling and other RCC structures.	Sq.m	100	100.56	10,056.00
22	Providing and laying 12 mm thick cement plaster in cement mortar 1:6 (1 cement: 6 coarse sand).	Sq.m	200	90.50	18,100.80
23	Providing and laying 20 mm thick cement plaster in cement mortar 1:6 (1 cement: 6 coarse sand) for outside Buildings.	Sq.m	10	100.56	1,005.60
24	Providing and laying flush pointing on stone work with cement mortar 1:3 (1 cement: 3 fine sand).	Sq.m	200	130.73	26,145.60

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
25	Demolishing, Chipping, cutting etc and stacking of serviceable material and disposal of unserviceable material complete within BHPV premises as directed.				
	a) RCC works including plastering.	Cu.m	5	1,474.91	7,374.57
	b) PCC works including plastering.	Cu.m	5	1,011.01	5,055.04
	c) RR Masonry in Cement mortar.	Cu.m	5	162.24	811.20
	d) Brick work and Cement mortar.	Cu.m	5	202.80	1,014.00
	e) Glazed Tiles in floor and dado.	Sq.m	160	15.21	2,433.60
	f) Cement Plaster / skirting.	Sq.m	50	10.14	507.00
26	Dismantling of lime concrete surkhi terracing for an average of 15 cm. Thick on roof including disposal of rubbish to the ground. The dismantling/chipping shall be carried out by Electrically operated breaking/chipping by contractor's own machine. Power only will be provided by dept, free of cost.	Cu.m	20	353.18	7,063.52
27	Hacking of concrete and preparing the surface including disposal of rubbish within BHEL Premises as directed by the Engineer-in-charge.	Sq.m	400	1.52	608.40
28	Removing the existing road side kerb stones and re-fixing the same by excavating the earth to required level and laying 75 mm PCC 1:2:4 as per levels and plastering the same with cement mortar 1:4 (1 cement: 4 coarse sand) including removal of old plaster and finishing the kerb stone side with concrete where ever required to complete as directed by the Engineer-in-charge.	RM	50	100.56	5,028.00
29	Providing Precast Cement concrete kerb stone blocks and manhole covers etc.. with cement concrete 1:2:4 (1 Cement : 2 Coarse sand : 4 Graded stone) aggregate of 20 mm nominal size for road side kerb stone works including cost of necessary centering and shuttering for precast mould and stacking the same in position after necessary curing etc., complete as directed.	Cu.m	3	4,525.20	13,575.60

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
30	Maintenance of all masonry work, minor repair patch works, plastering and refractory brick works including requisite helping hands. One operation comprises of <b>1 Mason (SSW) and 1 Helper (USW)</b> along with all necessary tools and tackles and the work is to be executed as directed by the Engineer - in- charge. <b>(The rate quoted shall be excluding cost of materials which will be issued at free of cost)</b>	Per Opertn.	160	999.00	1,59,840.00
31	Maintenance of all carpentry works such as doors & windows & cupboards repair, door locks repair minor wood works and repair of chairs, minor polishing works etc., including requisite helping hands. One operation comprises of <b>1 carpenter (SSW) and 1 Helper (USW)</b> along with all necessary tools and tackles and the work is to be executed as directed by the Engineer - in- charge.	Per Opertn.	303	999.00	3,02,697.00
32	Cleaning open storm water drains by removing the earth and rubbish and disposal of removed material up to lead of 50 M and rough leveling the same as directed.	RM	3,000	3.04	9,126.00
33	Cleaning of silt in closed drains and inside the pipe culverts including getting out the excavated soil and disposal of surplus excavated soil as directed within BHEL plant Premises.	RM	50	10.14	507.00
34	Cleaning of Aluminum & steel window and door glass panes with soap water up to third floor height and as directed by Engineer-in-charge	Sq.m	500	2.01	1005.60
35	Providing wood work in frames of doors, windows and other frames wrought, framed and fixed in position in first class country wood (Vegisa or Sal wood).	Cu.m	0.50	72,403.20	36,201.60
36 a	Providing and fixing 25 mm thick flush door shutter interior grade, commercial type, core of block board construction, with frame of first class hard wood and well matched commercial ply veneering with vertical grains or cross bands and face veneer on both faces of shutters with all necessary fittings like hinges, tower bolts and handles etc., complete.	Sq.m	20	1,206.72	24,134.40
36 b	Providing and fixing 30 mm thick flush door shutter interior grade, commercial type, core of block board construction, with frame of first class hard wood and well matched commercial ply veneering with vertical grains or cross bands and face veneer on both faces of shutters with all necessary fittings like hinges, tower bolts and handles etc.,	Sq.m	5	1,860.36	9,301.80

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
37	Providing and fixing pin headed glass panes of 4 mm thick with clips and metal putty for steel shutters and wooden beading for wooden shutters including removing of old broken glass panes and cleaning etc. complete.	Sq.m	50	692.91	34,645.43
38	Providing and fixing plain glass panes of 4 mm thick with clips and metal putty for steel shutters and wooden beading for wooden shutters including removing of old broken glass panes and cleaning etc. complete.	Sq.m	6	905.04	5,430.24
39	Providing and fixing plain glass panes of 5.5 mm thick with clips and metal putty for steel shutters and wooden beading for wooden shutters including removing of old broken glass panes and cleaning etc. complete.	Sq.m	5	1,206.72	6,033.60
40	Removing dry or oil bound distemper by scraping, sand papering and preparing the surface smooth including necessary repairs to scratches etc., complete	Sq.m	25	10.86	271.51
41	Providing and white washing with white cement for one or more coats to give an even shade over old/new wall, ceiling considering all safety precautions, thorough sand papering, cleaning etc., with all labours, materials, tools & tackles as per specifications and instructions of Engineer - in - charge, at all elevations.	Sq.m	4,000	15.08	60,336.00
42	Providing and painting with water proofing cement paint of approved make and shade over a coat of primer if required to give an even shade as per manufactures instructions including necessary scaffolding, working platform considering all safety precautions, thorough sand papering, cleaning, repair of surface etc., with all labours materials, tools and tackles, curing, complete as per specifications and direction of Engineer - in - charge for walls at all height.				
	a) For one or more coats	Sq.m	500	29.16	14,581.20
	b) For two or more coats	Sq.m	500	35.20	17,598.00

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
43	Providing and applying interior surfaces with water bound distemper paint of "Berger / Asian" make or equivalent approved brand and shade over a coat of primer if required to give an even shade as per manufacturers specifications including sand papering, cleaning the surface etc., with all materials, labours, scaffolding, tools and tackles etc., complete as per direction of Engineer-in-charge for walls at all heights.				
	a) For one or more coats	Sq.m	100	35.20	3,519.60
	b) For two or more coats	Sq.m	100	45.25	4,525.20
44	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.	Sq.m	50	50.28	2,514.00
45	Providing and applying one or more coats of cement primer of approved brand and manufacture on wall surface.	Sq.m	100	43.24	4,324.08
46	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture.	Sq.m	10	45.25	452.52
47	Providing and applying French or Spirit polishing two or more coats including a coat of wood filler wherever necessary as per manufacture's specifications including and papering, cleaning surface etc., with all materials, as per direction of Engineer-in-charge for all labours, scaffoldings, tools and tackles complete for all heights	Sq.m	70	50.28	3,519.60
48	Providing and applying plastic emulsion (Vinyl wall paint) of "Berger / Asian" make or equivalent approved brand and shade over a coat of primer if required on walls to give an even shade as per manufacture's specifications including sand papering, cleaning surface etc., with all materials, labours, scaffoldings, tools and tackles complete as per direction of Engineer-in-charge for all heights.				
	a) For one or more coats	Sq.m	300	40.22	12,067.20
	b) For two or more coats	Sq.m	300	52.29	15,687.36
	c) Providing and applying exterior plastic emulsion wall paint of "Berger / Asian" make or equivalent approved brand and shade two or more coats on walls to give an even shade as per manufacture's specifications including sand papering, cleaning surface etc., with all materials, as per direction of Engineer-in-charge for all labours, scaffoldings, tools and tackles complete for all heights.	Sq.m	100	118.66	11,866.08

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
49	Providing and applying Synthetic Enamel Paint of "Berger / Asian make" or equivalent approved brand and shade over new/old doors and windows etc., to give an even shade as per manufacturers specification including cleaning, scrapping, sand papering etc., complete to suit for painting with all labours, materials, scaffoldings, working platform, tools & tackles etc., as per specifications and direction of Engineer-in-charge, at all elevations.				
	a) For one or more coats	Sq.m.	400	50.28	20,112.00
	b) For two or more coats	Sq.m.	150	72.40	10,860.48
50	Providing and Fixing PVC pipe of 4 kg/cm <sup>2</sup> of approved standard make for Rain water piping work on wall face including all required specials, clamps & jointing with solution as per manufacturers specification and as per the direction of Engineer-in-charge.				
	(a) 100 mm dia pipe	RM	10	50.28	502.80
	(b) 150 mm dia pipe	RM	10	583.25	5,832.48
51	Supply and Applying metal putty for Steel windows by removing the old putty. Cost including supply of Pins, putty and required scaffolding etc., to complete the job at all elevations.	Sq.m	50	20.11	1,005.60
52	Providing and fixing steel window and ventilators in walls with lugs 10 cm x 16 mm x 3.16 mm embedded in cement concrete block 15 x 10 x 10 cm size of CC 1:3:6 (1 cement : coarse sand : 6 stone aggregate 20 mm and down graded) or with wooden plugs and screws or royal plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of 4 mm thick glass panes with glazing clips and special metal sash putty of approved make or metal beading with screws.	Sq.m.	8	804.48	6,435.84

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
53	Providing and fixing glazed, anodized aluminum frames walls of cabin with doors, using 49x44.45x2 mm box section for frame work of partition walls, 101.50 x 44.45 x 2.5 mm for bottom style, 85 x 44.45 for vertical style 49 x 44.45 x 2 mm thick section for intermediate frame work of doors 5.5 mm thick glass panel in upper/middle portion of door/walls panels and commercial plywood sheet of 12 mm thick laminated or veneer on both sides on lower /top portion of door/walls panels upto 1 meter height. Rate includes all items complete with necessary medium duty 1.5 mm thick aluminum beading, cadmium coated iron screws, rubber linings for air tightness, all Aluminium fittings all fixtures fittings arrangement. Heavy type hinges if required, decorative handles, locks & keys suitable for aluminium portion frame work, door stopper, aluminium plates for rails and kicking plates all anodized as per approved manufacturer's specifications & direction of Engineer-in-charge.	Sq.m	4	3,519.60	14,078.40
54	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. With 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete	Sq.m	4	2,916.28	11,664.96
55	Providing and fixing 12 mm thick pre-laminated particle board Pre-laminated particle board with decorative lamination on both sides flat pressed three layer or graded wood particle board conforming to IS : 12823 Grade I Type II, in paneling fixed in aluminum doors, windows shutters and partition frames with C.P. bras / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.	Sq.m	5	382.18	1,910.64
56	Drilling 15/20mm diameter holes upto half of thickness or minimum 40 mm depth into slab as per physical requirement along the cracks in RCC beam / Slab / Wall at 1 meter center to center or as suitable, fixing PVC/Aluminium/GI nipples as suitable in position using rapid setting mortar RENDEROC PLUG or PIDI GROUT or equivalent as per manufacturer's specification, including pressure grouting with Non shrink cement slurry, cutting the grout pipe and finishing the grout hole, wire brushing, cleaning the surface etc., with all materials, chemicals, labours, machinery, scaffolding tools and tackles as per manufacturer's specification and direction of Engineer-in-charge to make the surface leak proof.	Sq.m	100	40.22	4,022.40

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
57	Drilling of holes for the following sizes in Industrial Reinforced cement concrete floor/in machine foundations using power drilling machines, grouting and anchoring of bolts as per standard specification and instructions of Engineer in charge. The scope of work includes supply of chemical grout like BOSLIC or any other approved brand, grouting in to the holes before fixing the anchor bolts using mechanical gun and anchoring the bolts at proper position, level and alignment to the satisfaction of Engineer in charge. The rate quoted shall include cost of chemical grout and adhesives if any, labour charges for drilling by machine, cleaning the holes, chemical grouting with machine gun, and other tools and plants required, loading, leading and other incidental charges etc., complete but excluding cost of anchor bolts. Power and compressed air which will be provided by BHPV at free of cost				
	(a) For 10 - 18 mm dia bolts	Each	75	130.73	9,804.60
	(b) For 20 - 25 mm dia bolts	Each	10	150.84	1,508.40
58	Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 20/40 or pidigrout 5M/10 M or Flogrout 40/60 or Conbextra GP 1/ GP 2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.	Cu.m	0.50	9,050.40	4,525.20
59	Supplying of power (diesel) road roller of 8 to 12 Tonne capacity for consolidation / compaction works as per the direction of Engineer-in-charge. The quoted rate shall be inclusive of fuel, driver etc.	Hours	50	400.00	20,000.00
60	Supply of tractor attached with mechanical dozer for earth leveling work the quoted rate shall including cost of fuel & driver etc.	Hours	50	550.00	27,500.00
61	Providing and fixing white vitreous china Orissa pattern W.C. pan of size 580 x 440 mm with integral type foot rests (Indian type W.C pan) with 100 mm sand cast iron P or S trap, 10 litre low level white PVC flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required.	Each	5	3,318.48	16,592.40

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
62	Providing and fixing white vitreous china pedestal type water closet pan with ISI marked white solid plastic (European type W.C. pan) seat and lid, 10 litre low level white P.V.C. flushing cistern, including slush pipe, with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required.	Each	5	4,223.52	21,117.60
63	Providing and fixing white vitreous china flat back single half stall urinal of size 580 x 380 x 350 mm with white PVC automatic flushing cistern, fittings, standard size C.P. brass flush pipe, spreaders with union and clamps (all in C.P. brass) with waste fitting and outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required	Each	3	4,525.20	13,575.60
64	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.				
	a) White vitreous china wash basin size 630 x 450 mm with a single of 15 mm C.P. brass pillar taps.	Each	5	3,117.36	15,586.80
	b) White vitreous china wash basin size 550 x 400 mm with a pair of 15 mm C.P. brass pillar taps.	Each	5	3,016.80	15,084.00
65	Supplying Hydraulic Door Closers of ISI mark Everite / Godjeje or equivalent make and approved by Engineer-in-charge	Each	5	1,500.00	7,500.00
66	Supplying of the following construction materials free from rubbish and other foreign materials as directed by Engineer-in-charge with all materials, transportations, loading, unloading, stacking properly, all taxes and royalties etc., complete.				
	a) Brick of good quality.	Each	2000	4.00	8,000.00
	b) Coarse River Sand.	Cu.m.	6	1,500.00	9,000.00
	c) Supply of Cement OPC - 43 or 53 grade of approved brand confirming to relevant IS 8112/1269	Bags	30	310.00	9,300.00
	d) Providing and Fixing Rectangular shape 453x357 mm Mirror with Plastic moulded frame	Each	5	500.00	2,500.00

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
67	Supply of PVC Specials of ISI quality for Plumbing works.				
a	15 mm dia PVC pillar cocks	Each	30	248.00	7,440.00
b	15 mm dia PVC stop cocks	Each	15	160.00	2,400.00
c	15 mm dia PVC bib cocks	Each	50	200.00	10,000.00
d	15 mm dia PVC connections 50 mm long	Each	40	65.00	2,600.00
68	Supply of heavy duty specials of ISI quality for plumbing repair works				
a	15 mm dia CP push cocks	Each	70	220.00	15,400.00
b	15 mm dia brass bib cocks	Each	15	450.00	6,750.00
c	15 mm dia CP pillar cocks	Each	15	450.00	6,750.00
d	15 mm dia GM gate valves	Each	15	220.00	3,300.00
e	20 mm dia GM gate valves	Each	10	260.00	2,600.00
f	25 mm dia GM gate valves	Each	10	450.00	4,500.00
g	15 mm dia GI bends	Each	50	15.00	750.00
h	15 mm dia Elbows	Each	40	13.00	520.00

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
i	15 mm dia GI socket	Each	50	7.00	350.00
j	15 mm dia GI nipple of 50 mm long	Each	50	8.00	400.00
k	15 mm dia GI nipple of 75 mm long	Each	25	8.00	200.00
l	20 mm dia GI nipple of 75 mm long	Each	25	9.00	225.00
69	Supply of following materials of approved make				
a	6 mm thick soft rubber sheet	Kg	25	80.00	2,000.00
b	Hacksaw blades ( TP – 24 )	Each	50	9.00	450.00
c	12" pipe wrench	Each	2	300.00	600.00
d	10" pipe wrench	Each	2	250.00	500.00
e	Teflon tape 20 mm size	Each	150	11.00	1,650.00
f	40 mm dia PVC urinal waste pipes	Each	70	35.00	2,450.00
70	Supply of following materials of approved make				
a	½ " Pillar cck spindle heavy duty	Each	100	55.00	5,500.00
b	1 ½ " GM gate valve	Each	10	700.00	7,000.00
c	1 ¼ " GM gate valve	Each	10	550.00	5,500.00
d	2" GI elbow heavy duty	Each	10	85.00	850.00

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
e	1 ½" GI Elbow heavy duty	Each	10	56.00	560.00
f	1 ¼" GI Elbow heavy duty	Each	10	43.00	430.00
g	1" GI Elbow heavy duty	Each	20	28.00	560.00
h	¾" GI Elbow heavy duty	Each	50	18.00	900.00
i	2" GI Union heavy duty	Each	10	160.00	1,600.00
j	1 ½" GI Union heavy duty	Each	10	105.00	1,050.00
k	1 ¼" GI Union heavy duty	Each	10	86.00	860.00
l	1" GI Union heavy duty	Each	15	60.00	900.00
m	¾" GI Union heavy duty	Each	25	44.00	1,100.00
n	½" GI Union heavy duty	Each	25	32.00	800.00
o	1 ½" x 4" long GI Nipple heavy duty	Each	20	26.00	520.00
p	1 ¼" x 4" long GI Nipple heavy duty	Each	10	22.00	220.00
q	1 ¼" x 2" long GI Nipple heavy duty	Each	25	11.00	275.00
r	1" x 4" long GI Nipple heavy duty	Each	15	15.00	225.00
s	½" 4" long GI Nipple heavy duty	Each	20	10.00	200.00
t	2" x 3" long GI Nipple heavy duty	Each	10	27.00	270.00

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
u	1 ½" x 3 long GI Nipple heavy duty	Each	10	21.00	210.00
v	1" x 3" long GI Nipple heavy duty	Each	15	12.00	180.00
w	2" x 2 ½" long GI Nipple heavy duty	Each	10	25.00	250.00
x	1 ½" x 2 ½" long GI Nipple heavy duty	Each	10	30.00	300.00
y	1" x 2 ½" long GI Nipple heavy duty	Each	15	20.00	300.00
z	¾" x 2 ½" long GI Nipple heavy duty	Each	10	32.00	320.00
71	Supply of following materials of approved make				
a	½" x 2 ½" long GI Nipple heavy duty	Each	50	17.00	850.00
b	2" x 2" long GI Nipple heavy duty	Each	10	18.00	180.00
c	1 ½" x 2" long GI Nipple heavy duty	Each	10	14.00	140.00
d	1" x 2" long GI Nipple heavy duty	Each	50	8.00	400.00
e	¾" x 2" long GI Nipple heavy duty	Each	50	6.00	300.00
f	2" GI Bend heavy duty	Each	10	90.00	900.00
g	1 ½" GI Bend heavy duty	Each	10	60.00	600.00
h	1 ½" x 2" GI Reducer Elbow heavy duty	Each	10	95.00	950.00
i	¾" x ½" Reducer Elbow heavy duty	Each	10	20.00	200.00

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Rate in ₹ Fig.	Amount in ₹
j	1 ½" x 2" GI Reducing Socket	Each	10	70.00	700.00
k	1" x ¾" GI Reducing Elbow	Each	10	30.00	300.00
l	½" GI Pipe Heavy duty (TATA)	RM	90	140.00	12,600.00
m	¾" GI Socket	Each	20	17.00	340.00
72	Bituminous compound for water proofing as per IS:1580–1991, preferably Tar Plastic by STP	kg	20	200.00	4,000.00
	<b>Total amount in ₹</b>				<b>18,82,035.15</b>
	<b>Discount / increase offered by Bidder on above total amount in %</b>				
8	<b>Total Offered amount after Discount / increase in ₹</b>				

**TOTAL AMOUNT IN WORDS:**

**SIGNATURE OF THE TENDERER WITH SEAL**