

# **RECONSTRUCTION OF BOUNDARY WALL**

**TENDER No: - HERP/CIVIL/CAP/120/17-18  
(Part-II – Price Bid)**



**CIVIL MAINTENANCE DEPARTMENT  
HEAVY EQUIPMENT REPAIR PLANT  
BHARAT HEAVY ELECTRICALS LIMITED  
VARANASI – 221003 (U.P)**

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## BOQ & Price Break up

**Tender No:- HERP/CIVIL/CAP/120/17-18**

**Name of Work:- Reconstruction of Boundary Wall**

Sl. No	Item Code	Description of work	Rate	Unit	Quantity	Amount
<b>(A) Scheduled Items (DSR-16 items)</b>						
1		Carriage of material up to 1 km lead by Mechanical transport including, loading, unloading & stacking of -				
(i)	1.1.1	Lime, Moorum, Building rubbish	78.68	cum	100.00	7868.00
(ii)	1.1.2	Earth	98.34	cum	900.00	88506.00
(iii)	1.1.8	Bricks	209.80	1000 No	100.00	20980.00
(iv)	1.1.10	Cement, stone blocks, G.I., C.I., A.C. & C.C. pipes below 100mm dia and other heavy materials	69.93	Ton	10	699.30
(v)	1.1.11	Steel	69.93	Ton	1	69.93
2	2.6.1	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 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil.	125.95	cum	1000	125950.00
3	2.8.1	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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of Soil	166.40	cum	100.00	16640.00
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations, etc. in layers not exceeding 20 cm in depth : consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5m.	125.75	cum	300.00	37725.00
5	2.27	Supplying and filling in plinth with Ganga sand under floors including watering,ramming,consolidating and dressing complete.	917.75	cum	140.00	128485.00
6	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:- 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size ).	4927.00	cum	130.00	640510.00
7		Centering and shuttering including strutting, propping, etc. and removal of form for:				
(i)	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	193.95	sqm	240.00	46548.00

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(ii)	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	378.60	sqm	2800.00	1060080.00
(iii)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	342.90	sqm	660.00	226314.00
(iv)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	467.85	sqm	720.00	336852.00
8	5.22.6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level:- Thermo Mechanically Treated bars of grade Fe-500D or more.	56.60	kg	31000.00	1754600.00
9	5.22A.6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level:- Thermo Mechanically Treated bars of grade Fe-500D or more.	56.60	kg	40000.00	2264000.00
10	5.37	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of engineer in charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately)				
(i)	5.37.1	All works upto plinth level	6713.60	cum	380.00	2551168.00
(ii)	5.37.2	All works above plinth level upto floor V level.	7517.20	cum	450.00	3382740.00
11	6.4.1	Brickwork with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes & sizes in :cement mortar 1:4 (1 cement: 4 coarse sand).	5801.50	cum	350.00	2030525.00
12	8.2.2.2	Providing and fixing 18 mm thick gang saw cut mirror polished pre moulded and pre polished machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1 : 4 (1 cement : 4 coarse sand) joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give Granite of any colour and shade high gloss finish etc. complete at all levels. Area of slab over 0.50 sqm	3113.30	sqm	10.00	31133.00
13	8.3.2	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc., complete as per design approved by Engineer-in-charge. Granite Work	245.70	Metre	10.00	2457.00

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14	8.6	Mirror polishing on marble work/Granite work /stone work where ever required to give high gloss finish complete.	231.50	sqm	10.00	2315.00
15	10.25.2	Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works.	85.95	kg	400.00	34380.00
16	11.1.1	Brick on edge flooring with bricks of class designation 75 including cement slurray etc. complete in cement mortar with F.P.S. bricks: 1:4 (1 cement: 4 coarse sand).	675.95	sqm	100.00	67595.00
17	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,bottel 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 shed complete.	744.80	sqm	30.00	22344.00
18	11.37	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 colours such as white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement:4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	688.35	sqm	10.00	6883.50
19	11.41.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's 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:- Size of Tile 60x60 cm	1119.40	sqm	20.00	22388.00
20	13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	255.55	sqm	4000.00	1022200.00
21	13.50.3	Applying priming coat: - With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanized iron/steel works.	29.10	sqm	200.00	5820.00
22	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.	87.35	sqm	4000.00	349400.00

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23	13.82.2	Wall painting with exterior acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour:- Two coats	73.90	sqm	4000.00	295600.00
24	13.85.3	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	36.95	sqm	4000.00	147800.00
25	15.2.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge:- 1:3:6 or richer mix.	997.05	cum	25	24926.25
26	15.3	Demolishing R.C.C. 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.	1454.55	cum	80	116364.00
27	15.7.4	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. In cement mortar.	842.75	cum	740.00	623635.00
28	15.8.3	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured) :from brick work in cement mortar.	2798.60	1000 No	100	279860.00
29	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.	2.40	kg	600	1440.00
30	15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	15.05	kg	825	12416.25
31	16.3.3	Supplying and stacking at site:- 53 mm to 22.4 mm size stone aggregate	1542.25	Cum	80.00	123380.00
32	16.3.7	Supplying and stacking at site:- Stone screening 11.2 mm nominal size	1462.05	Cum	30.00	43861.50
33	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	449.10	Cum	40.00	17964.00
34	16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes up to 10 mm dia etc. complete.	62.05	kg	1500.00	93075.00

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35		Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				0.00
(i)	16.31.2.1	On W.B.M / W.M.M. @ 0.4kg/sqm	13.20	Sqm	280.00	3696.00
(ii)	16.31.2.2	On bituminous surface @ 0.25kg/sqm	8.75	Sqm	280.00	2450.00
36	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	255.00	metre	600.00	153000.00
37	16.55.1	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge. 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.5 0% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	5708.05	cum	40.00	228322.00
38	16.57.1	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge. 40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	7863.85	Cum	15.00	117957.75

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39	16.78.2	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineerin- Charge. With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	2080.15	Cum	80.00	166412.00
40	20.3.1	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) : 300 mm dia piles	2143.05	metre	860.00	1843023.00
<b>Total Amount on Scheduled Items (A)</b>						<b>20582358.48</b>
<b>(B) Non - Scheduled Items (Based on Market Rate) :-</b>						
41	NSI-1	Brickwork with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes & sizes in :cement mortar 1:4 (1 cement: 4 coarse sand). (Note:- Available & Reusable Old Bricks will be used by the contractor for which dismantling & removing mortar shall be paid separately in respective items.)	3219.49	Cum	93.50	301021.89
42	NSI-2	Providing and Aapplying primer coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.75 kg/sqm using Mechanical means.	23.19	Sqm	280.00	6493.20
43	NSI-3	Supply and fixing Aluminium Composite Panel (ACP) 3 mm thick of approved colour complete with necessary fittings and approved structural sealant (weather proof) complete in all respect. All work are to be executed on building, height up to 10 m, and as per instruction of engineer - in - charge.	1667.50	Sqm	80	133400.00
44	NSI-4	Providing, erecting and fixing of SMP color coated Galvolume Sheet (approved Make & profile) 0.45 to 0.55 mm thick sheeting in its place with the fasteners of high quality corrosion resistant provided with suitable cap fixed at the rate not more than 1.5 m - 1.8m center to center.	885.07	sqm	80.00	70805.60

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45	NSI-5	RE-Fabrication and Erection of refabricated steel works comprising angle, channel, plate, beam, bars etc including all connections, cleat, gusset including cutting, welding and painting two coat of red oxide primer before two coat of synthetic enamel paint of approved colour and brand complete in all respect as per direction of Engineer incharge. (Note:- Contractor has to arrange cutting & refabrication of existing Steel section/ member which shall be available within Factory/ Tarna Township area on "As is where is" basis)	26.94	Kg	280.00	7543.20
<b>Total on Non-Scheduled Items (B)</b>						<b>519263.89</b>
<b>Total on Scheduled and Non-Scheduled Items (A+B)</b>						<b>21101622.37</b>
<b>GST @ 18%</b>						<b>3798292.03</b>
<b>Total cost on Scheduled and Non-Scheduled Items including GST</b>						<b>24899914.40</b>

**Contractor is to quote their rate with respect to overall estimated cost of Rs. 24899914/- (Rupees Two Crore Forty Eight Lacs Ninety Nine Thousands Nine Hundred Fourteen Only) including 18% GST in respective field hereunder:-**

**(Please quote your rate in % and strike out among "Above, At par and Below" whichever is not applicable)**

	Above on total Rs. 24899914/-
	At Par on total Rs. 24899914/-
	Below on total Rs. 24899914/-

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