

Price Bid

CIVIL AND STRUCTURAL CONSTRUCTION WORK PERTAINING TO INSTALLATION & COMMISSIONING OF RAW WATER TREATMENT

Sl. No.	DESCRIPTION OF ITEM	UNIT	Qty	Bhopal Rate	
				Rate	Amount
1	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering (but excluding special type of dewatering viz. well point method) , shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead up to 500 m, spreading/levelling of disposed materials etc all complete for following depths below ground level.				
a	Depth from ground level but not exceeding 2 m	CUM	3985.00		
b	Depth exceeding 2 m but not exceeding 4 m	CUM	2673.00		
c	Depth exceeding 4 m but not exceeding 6 m	CUM	5.00		
2	Earth work in excavation in soft rock (rock without any recovery of excavated materials in the form of hard stone/boulder) including weathered rock which can be excavated by means of crow bar, pick axe, pneumatic rock breaker attachment with excavator machine etc but does not require chiselling or blasting including setting out, levelling, dewatering (wherever required), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead up to 500 m, spreading / levelling of disposed materials etc all complete for following depths below ground level.				
a	Depth from ground level but not exceeding 2 m	CUM	50.00		
b	Depth exceeding 2 m but not exceeding 4 m	CUM	20.00		
3	Back filling up to any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 200 mm thickness using/with selected materials from compulsorily excavated soil available within a lead up to 500m and compacted as specified including re-excavation of stacked earth, watering, ramming/compaction by manual/mechanical means, dressing etc all complete. for the following.				
a	Each layer compacted so as to achieve at least 90% maximum dry density as per IS-2720 (Part-VII)	CUM	1995.00		
4	Back filling up to any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 200 mm thickness using/with selected materials directly from excavation and compacted as specified including watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.				
a	Each layer compacted so as to achieve at least 90% maximum dry density as per IS-2720 (Part-VII)	CUM	690.00		

5	Extra over ST No. 101 and 103 to 107 for carriage of excavated earth/selected materials for every 1 km or part thereof beyond an initial lead of 500m.	CUM	3698.00		
6	Back filling up to any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 200 mm thickness using/with approved borrowed soil from borrow areas and compacted as specified including supplying borrowed soil, royalty (if any), watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.				
a	Each layer compacted so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VII)	CUM	798.00		
7	Supplying and filling sand up to any depth under floors, around foundations, plinths etc. in layers not exceeding 300mm thickness and compacted so as to achieve at least 85% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	CUM	10.00		
8	Supplying and filling sand up for Ring Wall foundation (shall be either by river sand or crushed Stone Sand) not exceeding 250mm thickness and compacted so as to achieve at least 95% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete as per customer specifications 6987-00-16-48-DB01 clause 12.0	CUM	106.00		
	Providing and placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating and curing, (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.				
	Note: 1) Cement for all concrete works shall be ordinary Portland Cement, 43 grade conforming to IS: 8112. The engineer in charge may permit the use of ordinary Portland cement (53 grade) or Portland puzzolana cement (fly ash/calced based) conforming to is: 1489 or Portland slag cement conforming to is: 455 or sulphate resisting Portland cement conforming to IS: 12330 or high alumina cement conforming to is: 6452 without any extra cost. 2) The consumption of cement (per cum. of concrete) shall be as per recommended/approved concrete design mix subject to minimum requirement of IS 456/EIL Specifications/ Approved drawing (whichever is higher). However no extra claim shall be entertained on account of excess cement consumption as per the actual design mix to achieve required target strength & other parameters.				

	3) Bipolar Corrosion Inhibiting Admixture shall be used for All Reinforced Concrete Works As Per EIL Approved Manufacturer's Recommendation / Customer Specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6; clause no. 4.5 of Doc. No. 6987-046-16-48-JS-01 of Section-C 4.6; Doc.no.6987-000-16-48-4201 of E-6 & Approved construction drawing. 4) Admixture for corrosion inhibiting shall be paid separately under item no 1802.				
9	Plain Cement Concrete of grade M 5 (1 part cement, 5 part sand, 10 parts of 40 mm graded aggregate by volume) as filling course at any depth below finished floor level, under and around foundations/floors, mass fill etc as per customer specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing.	CUM	187.40		
10	Plain Cement Concrete of grade M 7.5 (1 part cement, 4 part sand, 8 parts of 40 mm graded aggregate by volume) as filling course at any depth below finished floor level, under and around foundations/floors, mass fill etc as per customer specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing.	CUM	5.00		
11	Concrete of grade M10 (1 part cement, 3 part sand, 6 parts of 40 mm graded aggregate by volume) as lean concrete, levelling course , mud mat under and around foundations/floors at any depth below finished floor level etc. as per customer specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing.	CUM	135.60		
12	Plain Cement Concrete of grade M15 (1 part cement, 2 part sand, 4 parts of 40 mm graded aggregate by volume) under masonry wall foundation as per customer specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing.	CUM	28.00		
13	Plain Cement Concrete of grade M20 (1 part cement, 1.5 part sand, 3 parts of 40 mm graded aggregate by volume) under masonry wall foundation as per customer specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing.	CUM	35.00		
14	Reinforced Cement Concrete (with corrosion inhibiting admixture) under floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level as per customer specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing .				
a	M20 Grade	CUM	211.00		
15	Providing and laying Design Mix cement concrete (with corrosion inhibiting admixture) conforming to IS:456 & IS 10262-2009 for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc at any level below finished floor level , any shape, position or thickness etc complete including use of plasticizer/ super plasticizer conforming to IS:9103 (latest) to achieve required slump in concrete all complete as per customer specifications customer specifications : clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing.				
a	M30 Grade	CUM	1152.00		

b	M35 Grade	CUM	355.00		
16	Providing and laying Design Mix cement concrete (with corrosion inhibiting admixture) conforming to IS:456 & IS 10262-2009 for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in superstructure at any level above finished floor level, any shape, position or thickness etc complete including use of plasticizer/ super plasticizer conforming to IS:9103 (latest) to achieve required slump in concrete all complete as per customer specifications clause no. 8.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6 & drawing .				
a	M30 Grade	CUM	23.00		
b	M35 Grade	CUM	2.00		
17	Providing and encasing of structural steel member with concrete using nominal aggregate size of 12.5mm down. Encased member shall be wrapped with welded wire mesh/chicken wire mesh with proper lap etc. complete as per customer specifications :clause no. 9.3 of Doc. No. 6987-00-16-48-DB01 of Section-C 3.6; drawing .				
a	M25 grade	CUM	10.00		
18	Providing and laying Design Mix cement concrete as per IS:456 & IS 10262-2009 for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajas, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with M30 grade concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate (20/12.5/10 mm).				
a	M 30 grade	CUM	3.50		
b	M 35 grade	CUM	152.00		
19	Providing and laying Design Mix cement concrete as per IS:456, IS 3370 & IS 10262-2009 for reinforced concrete works using graded aggregate for Concrete in water retaining/conveying structures including addition of suitable plasticizer cum waterproofing cement additives confirming to IS 9103 latest to achieve a slump more than 125 mm in concrete as per manufacturers recommendation and conforming to limits of permeability as per IS 2545 and as per customer specifications in clause no. 8.0 of 6987-00-16-48-DB01 of section C 3.6				
a	M 30 grade	CUM	5.00		
b	M 35 grade		345.00		
20	Dismantling concrete work for all types of structures at all levels including stacking of serviceable material to a lead of 500 m and disposal of unserviceable material up to a lead of 2 km, cutting of reinforcement, labour, equipment, safety precautions etc all complete as per drawings, specification and instructions of engineer in charge.				
a	Plain cement concrete of all grades	CUM	5.00		
b	Reinforced cement concrete of all grades	CUM	5.00		

21	Chipping of concrete in reinforced concrete work , at all levels and according to shapes, disposal of waste materials up to a lead of 2 km as directed by engineer including equipment, safety precautions, making good the broken surface etc all complete as per specification, drawing, instructions of engineer in charge but excluding cutting of reinforcement .	CUM	2.00		
22	Extra over and above St No 216 for cutting of reinforcement, all sizes and types including labour, equipment, return of cut reinforcement to store etc all complete as per specification, drawings and instructions of engineer in charge. Measurement shall be on the cross sectional area of reinforcement cut.	SQCM	15.00		
23	Cutting Reinforced concrete with mechanised tools like Core drilling machine etc. for cutting pockets, holes, cores in slab, beam, column or foundation as per direction of engineer in charge.	CUDM	500.00		
	Providing, fixing and removing formwork at any elevations for all structures, as per specifications and including all labour, material, scaffoldings and centering complete including pockets etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.				
24	Providing and fixing fairface steel form work of required thickness and smoothness below finished ground floor level for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc.complete as per customer specification : clause no.6.1 of Doc. no.6987-017-16-48-JS-01 of section C 4.6	SQM	3992.00		
25	Providing and fixing fairface steel form work of required thickness and smoothness above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches, circular overhead tanks etc. for all heights	SQM	636.00		
26	Providing and fixing following fairface form work of required thickness and smoothness including preparation of scheme, designing, submission and approval of staging drawing with sufficient props, braces and ties at every tier of height of approx. 4m for all heights				
a	fairface laminated Ply wood Form work	SQM	10.00		
b	fairface steel form work	SQM	10.00		
27	Providing, fixing and removing formwork in block-outs/pockets and openings (below 0.1 sqm plan area) at all elevations including cutting, formation of all shapes and all other operations required for making the required shape and size all complete				
a	Up to 150 mm depth	Each	300.00		
b	Pockets of depths more than 150mm and up to 300 mm depth	Each	328.00		
c	Pockets of depths more than 300mm and up to 600 mm depth	Each	2.00		
d	Pockets of depths more than 600mm and up to 1000 mm depth	Each	15.00		
28	Fairface plywood / Steel with filmface/laminated formwork above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches, circular overhead tanks etc. for all heights where ever specifically mentioned in the drawing.	SQM	5.00		

29	Taking delivery of steel from BHEL stores / stock yard loading, transporting and unloading at site, straightening, cutting, bending, placing in position at any level, binding in position of steel reinforcements of TMT steel of grade Fe-500 confirming to IS:1786 including cost of binding wire, labour, scaffolding, transportation to & from stores etc complete all as per customer specifications in clause no. 8.0 of 6987-00-16-48-DB01 of section C 3.6 & clause no. 4.6.2 of Doc. no. 6987-017-16-48-JS-01 of Section C 4.6. Reinforcement shall be provided by M/s BHEL free of cost.	MT	182.50		
30	Taking delivery of steel from BHEL stores / stock yard loading, transporting and unloading at site, straightening cutting, bending, placing in position at any level, binding of mild steel reinforcements in brickwork including cost of reinforcement and binding wire, labour, scaffolding etc. Reinforcement shall be provided by M/s BHEL free of cost.	MT	0.10		
	Water proofing works including all labour, material, equipment, transportation, handling, curing, sampling, testing etc at any level as per specification, drawings and as directed by engineer - in - charge.				
31	Providing and laying under bed grading plaster with cement mortar 1:4 (1 cement : 4 sand) up to thickness of 25 mm including preparation of surface, batching, mixing, levelling etc. all complete as per customer specifications : Clause no. 3.5 of Doc. no.6987-017-16-49-SP-01 of Section C 4.7 and as directed by Engineer-in-charge.	SQM	10.00		
32	Providing and laying under bed grading plaster with screed concrete 1:2:4 for thickness greater than 25mm including preparation of surface, batching, mixing, levelling etc. all complete as per customer specifications : Clause no. 3.5 of Doc. no.6987-017-16-49-SP-01 of Section C 4.7 , EIL standard specifications : 7-75-0068-Rev03.	CUM	10.00		
33	Providing and mixing water proofing compound conforming to IS:2645 in concrete or cement mortar all complete as per customer specifications : Cl. No. 4.8 of Doc. No. 6987-017-16-48-JS-01	KG	25.00		
34	Providing and applying Atactic Polypropylene modified bituminous waterproofing membrane over item nos. 501.a and 501.b. All complete as per customer specifications : Clause no. 3.5 of Doc. no.6987-017-16-49-SP-01 of Section C 4.7 (Water Proofing shall have 10 years performance guarantee)	SQM	10.00		
35	Providing and laying 24 / 20 SWG Chicken wire mesh to slope in panels not exceeding 6 sq.m area over roof slab, encasing of steel structures. All complete as per customer specifications :	SQM	10.00		
	Joints & fillers including all labour, material, equipment, transportation, handling etc at any level as per specification, drawings and as directed by engineer - in - charge.				
36	Supplying & installation of bitumen impregnated fibre board confirming to IS 1838 as joint filler at joints in concrete including nailing, coating of both faces with coal tar pitch/bitumen etc. all complete as per EIL standard specification 6-65-0019 Clause 10.2				
a	20 mm wide joints.	SQM	5.00		

b	25 mm wide joints	SQM	300.00		
37	Providing and applying polysulphide based sealant conforming to IS:12118 in expansion joints in concrete including cleaning of joints, raking out groove, application of primer, scaffolding etc. all complete as per customer specification CI.No.4.13 of Doc.no. 6987-017-16-48-JS-01 of section C-4.6				
a	25mmX25mm	RM	5.00		
b	50mmX25mm	RM	5.00		
38	Providing and fixing PVC water stops in joints conforming to IS 12200 & IS 15058 all complete as per customer specifications : CI.No. 4.9 of Doc. no.6987-017-16-48-JS-01 of section C 4.6				
a	230 mm wide and 6 mm thick	RM	495.00		
	Embedments including all labour, material, equipment, transportation, handling etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
39	Supply, fabricating and fixing of mild steel embedments , inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc. including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete.	MT	10.00		
40	Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel foundation bolt assembly conforming to IS:2062 and grade 1 of IS:432 in concrete along with nuts, lock nuts (as per IS:1363, 1364 and IS:3138), washers, anchor plates, stiffener plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all complete.	MT	3.35		
41	Supplying, fabricating, erecting and installing following items in concrete/brick wall for all kind of works, including setting material in concrete, layout, scaffolding, cutting, forming, grinding, drilling, bolting, welding, jointing, testing etc. all complete.				
a	MS pipes of all diameters	Quintal	0.10		
	PVC pipes / conduits of all diameters	Quintal	0.10		
	UPVC pipes / conduits of all diameters	Quintal	0.10		
42	Expansion fasteners (mechanical galvanised) of HILTI make or equivalent of safe tensile capacity as specified below for brick work with expansion sleeve of A6 polyamide:				
a	Up to 250 kg	Each	5.00		
43	Expansion fasteners (mechanical galvanised) of HILTI make or equivalent of safe tensile capacity as specified below for concrete work with expansion sleeve of stainless steel:				
i	Up to 250 kg	Each	5.00		
ii	Beyond 250 Kg and up to 500 kg	Each	5.00		
iii	Beyond 500 Kg and up to 750 kg	Each	5.00		
	Grouting including all labour, material, equipment, roughening surface, cleaning, ramming, curing etc. at any level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.				

44	Providing & grouting of pocket holes, pipe sleeves under base plates, machinery, pipe supporting structures not exceeding 1.5m height, small operating platforms not exceeding 2m height& not supporting any equipment with ordinary cement sand mix 1:2 (1 cement :2 sand). All complete as per customer specifications : Cl. no. 6.5 of Doc. no. 6987-00-16-48-DB01 of section C 3.6	CUM	0.10		
45.0	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing etc. all complete with ConbextraGP-1 or equivalent. (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	CUM	0.10		
46	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing, etc. all complete with Conbextra GP-2 or equivalent. (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	CUM	8.00		
	Doors, windows, ventilators, louvers, roof ventilators, rolling shutters, partitions including all labour, material, equipments, transportation, handling, preparation of working drawings etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
47	Providing and fixing steel windows/ventilator with steel sections as per IS:1038, IS:1361 & IS:7452 latest revision.including all fittings, metal beadings, hold fasts, shop and final painting ,glazing etc. all complete. (Glazing shall be paid separately).				
a	Openable Type	SQM	120.00		
48	Providing and fixing anodised aluminium work of Jindal, Hindalco or other equivalent approved make for door frames, windows, ventilators, partitions, railing etc with extruded standard tubular and other sections including all fittings & fixtures and accessories of approved make conforming to IS733 and IS1285, electro statically powdered coated (min 30 microns) to required shade, fixed with rawl plugs, expansion fasteners, SS screws or with fixing clips, including necessary filling of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt for bi-metallic protection etc.including preparation of working drawings, aluminium cleat angle, aluminium snap-on-beading for glazing/panelling, stair case tread nosing, with all fittings and fixtures (like tower bolts, handles, door stopper with rubber shoes, 'L' drops, stays, floor springs, hydraulic door closures etc.), CP brass/stainless steel screws, providing and fixing hinges/pivots, and making provision for fixing of fitting wherever required including cost of PVC/neoprene gasket, all complete as per drawing, specification and instructions of engineer in charge (Glazing and panelling shall be paid separately). Weight of aluminium section only shall be measured. All complete as per customer specifications : clause no 3.3.1 of Doc. no. 6987-017-16-49-SP-01 of section C 4.7.	Kg	10.00		
49	Providing and fixing of door closers as per IS 3564 ,of approved make & quality all complete of following type :				

a	Over head hydraulic door closures	Each	1.00		
50	Providing, fixing and fitting of glazing of first grade class in steel/aluminium/wooden frames, wherever required, cleaning after fixing including hardware, gaskets, clips, beadings etc. all complete.				
a	5.5 mm thick clear float glass	SQM	141.50		
51	Supplying and erecting including assembling fitting and fixing best quality electrostatic Powder coated Pressed steel doors of 18 gauge MS sheets, with 16 gauge pressed steel frames at various elevations including frames, shutters, fittings and fixtures, CP mortice lock cum handle mastic caulking, grouting the frames, painting with 2 coats of approved quality epoxy paint over approved primer/ min. 30 micron DFT per coat etc. complete as per EIL specifications clause no 3.3.2 of Doc. no. 6987-017-16-49-SP-01 of section C 4.7 and drawing				
a	a) Single shutter	SQ.M.	3.00		
b	b) Double shutter	SQ.M.	12.00		
	Brickwork masonry including all labour, material, equipment, transportation, handling, scaffolding etc. at all levels as per specification, drawings and as directed by engineer - in - charge.				
52	Providing brick work in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions below plinth including raking out joints, curing, scaffolding etc. complete excluding plastering and painting.				
a	Using burnt clay bricks of class designation 5.0 of nominal dimension	CUM	114.80		
53	Providing brick work in cement mortar 1:6 (1 cement 6 coarse sand) in walls, chambers etc. in thickness 230mm at all heights, places and position above plinth including raking out joints, curing, scaffolding etc complete as per customer specifications: Clause no. 10.0 of Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 4.7 of Document no. 6987-046-16-48-JS-01 (Part A) of Section C 4.6 (excluding plastering and painting)				
a	Using burnt clay bricks of class designation 5.0 of nominal dimension	CUM	120.00		
54	Providing brick work in cement mortar 1:4 (1 cement 4 coarse sand) in partition walls, chambers etc. in thickness 115mm at all heights, places and position above or below plinth/graded level including providing two nos. 6 mm diameter MS bars at every third layer, raking out joints, curing, scaffolding etc complete as per customer specifications: Clause no. 10.0 of Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 4.7 of Document no. 6987-017-16-48-JS-01 (Part A) of Section C 4.6 (excluding plastering and painting)				
a	Using burnt clay bricks of class designation 5.0 of nominal dimension	SQM	5.00		
55	Breaking of existing brick work at all levels including plastering, removing the rubbish up to a distance of 500 m including transportation, loading, unloading etc. all complete as directed by the engineer.	CUM	5.00		

56	Providing and encasing of structural steel member with masonry work around flanges, webs etc. and filling the gap between steel and masonry by minimum 12mm thick mortar. Encased member shall be wrapped with chicken wire mesh with 50mm lap/mild steel wire fabric etc. complete as per specification. (Chicken wire mesh/mild steel wire fabric to paid separately).	CUM	5.00		
57	Making openings in existing brick wall or partition wall including making good the broken edges/surface with cement mortar etc. complete.	CUM	5.00		
	Supply and placing in position mild steel wire fabric of square mesh 25 mm size and wire diameter of 2 mm for encasing of steel sections in concrete including cutting, bending, fixing etc. complete.	SQM	0.00		
58	Filling existing brick wall/ partition wall opening at all level including making good the broken edges/surface with cement mortar, painting, finishing to match with existing finishing, scaffolding/supporting at any level, removal of debris up to a lead of 1 km including loading, unloading, transportation etc. all complete.	SQM	5.00		
59	Providing and filling brick bats in soak pits all complete.	CUM	5.00		
			0.00		
	Damp proof course including all labour, material, equipment, transportation, handling, shuttering, centering, curing etc at any level as per specification, drawings and as directed by engineer - in - charge.		0.00		
60	Providing Damp Proof Course 40mm thick M20(1:1.5:3) cement concrete (10mm and down graded aggregate) with 2% of approved admixture of water proofing compound all complete as per IS:2645. Two layers of hot bitumen coating 85/25 grade as per IS:702 @ 1.7Kg./sqm shall be applied one before & one after the DPC all complete as per customer specifications : Cl.no.5.0 of Doc. no. 6987-017-16-48-JS-01 of section C 4.6	SQM	85.00		
	Cement mortar plaster including making grooves wherever required including all labour, material, scaffolding, curing etc at any level as per specification, drawings and as directed by engineer - in - charge.				
61	Providing 18mm thick plaster in two layers outside the building/boundary wall in cement mortar 1:6 on walls, finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete.	SQM	1.00		
62	Providing 12mm thick plaster inside (smooth side) the building wall in cement mortar 1:4 on walls finished to a smooth finish all complete as per customer specifications : Clause no. 3.4 of Document no. 6987-017-16-49-SP-01 of Section C 4.7.	SQM	464.50		
63	Providing 15mm thick plaster in cement mortar 1:4 on walls with rough finish all complete as per customer specifications : Clause no. 3.4 of Document no. 6987-017-16-49-SP-01 of Section C 4.7.	SQM	470.00		
64	Providing 6mm thick plaster on ceiling in cement mortar 1:4 finished to a smooth all complete as per customer specifications : Clause no. 3.4 of Document no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	1.00		

65	Providing 12mm thick plaster in walls, drains/culverts with a paste of neat cement @ 1kg/sqm and rubbed smooth with trowel etc. all complete.	SQM	5.00		
	Finishes, painting to concrete, plastered surfaces including all labour, material, equipment, surface preparation, scaffolding etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
66	Providing and applying two or more coats of oil bound destemper as per IS 428 of approved brand, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface all complete as per customer specifications : Clause no. 2.0 of Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.6.1 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	235.50		
67	Providing and applying 3 coats of water proof cement based paint as per IS:5410 of approved make and color on exterior surface at all heights including material, labour, scaffolding, curing etc including primer coat all complete as per customer specifications : Clause no. 2.0 of Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.6.6 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	403.00		
68	Providing and applying 2 mm thick plaster of paris punning on walls including preparation of surface, staging, etc. to achieve a smooth even surface all complete as per customer specifications : Clause no. 2.0 of Doc. no. Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.6.3 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	5.00		
69	Providing and applying 2 or more coats of acid/alkali resistant epoxy paint of approved brand and colour to floors, walls and ceiling including preparation of surface to receive paint, providing and applying bitumen primer conforming to IS 158 complete all as per manufacturer's recommendations and as approved by engineer, at all heights above or below grade level, complete as per specifications. Clause no. 2.0 of Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.6.6 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	105.00		
	Two or more coats of plastic emulsion paint of approved brand and manufacture. All complete as per customer specification Clause no. 2.0 of Doc. no. Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.6.2 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	0.00		
	Flooring and skirting at any level including base layer, labour, material, equipments, transportation, handling, curing, polishing etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
70	Providing and laying 50 mm thick heavy duty cement concrete in flooring and skirting with metallic hardener all complete as per customer specifications : Clause no. 2.0 of Doc. no. Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.23 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	1053.10		

71	Providing and laying Ceramic Tiles (Matt Finish) of size 300x300mm and 8mm thick of reputed / approved manufacturer (Kajaria,jhonson,Spartek or equivalent) of approved finish, shade and colour in flooring. Dado will be laid in tiles of size 100 x 200 x 6mm or 300 x 200 x 6mm. The tiles shall be conforming to IS: 13753 and shall be laid with Under bed with an average 42mm thk of 1 cement : 2 sand : 4 stone aggregates by volume and brought to proper level including cement mortar all complete as per customer specifications : Clause no. 2.0 of Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.2.5 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	5.00		
72	Providing & fixing Acid / Alkali resistant (Chemical resistant) tiles conforming to IS:4457 in flooring/Dado and shall be laid over bitumastic lining of min 12mm thick (to be laid in layers of 6mm each) further services all complete as per customer specifications : EIL standard specifications 6-65-0062 and Clause no. 3.2.5 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7				
a	20mm thick	SQM	5.00		
b	38mm thick	SQM	877.00		
	Roofing / side cladding work including all labour, material, equipment, transportation, handling, scaffolding, laps, hooks, washers, corner pieces etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
73	Precoated Zinc Aluminium Steel sheet roofing / Cladding: The base metal of the roofing shall be Cold Rolled Steel Sheet conforming to IS:513.It shall be zinc aluminium coated by Hot-dip process as per AS:1397 / IS:277. The bottom unexposed surface shall then be coated with alkyd backer of minimum 5 microns over a 5 micron coat of primer. Top exposed surface shall have primer of minimum 5 microns followed by SMP / Super Polyester top coat of minimum 20 microns of specified colour.The profiles shall have a depth of not less than 28 mm at a pitch of 195 to 255mm (with intermediate ribs). Overall total coated thickness shall be minimum 0.55mm having base metal thickness of 0.50mm. Minimum weight (supply width) shall be 5.00 Kg/ SqM. All roofing accessories like ridge, flashing, north light curves etc. shall be fabricated out of the approved pre-coated sheet as per drawing. Metallic self drilling self tapping fasteners for fixing shall be corrosion proof meeting performance standard as per AS : 3566, Class-III having neoprene washers. Sealants shall be neutral cure type and cold setting variety. All complete as per customer specifications : Clause no. 3.7.1 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	2693.00		

74	Providing & laying profiled polycarbonate 2mm thk sheet accoustically designed with accoustic insulation to reduce noise level from 110dbA to 85dbA out side at 1m from the face of building for roofing and wall cladding. fixed as per manufacturer's specifications with nuts & screws , bitumen washers including overlapping of sheets (up to a pitch of 60 degree) excluding the cost of purlins, rafters, ties etc. complete as specified in drawing and directed by Engineer-in-Charge Clause no. 3.7.1 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	SQM	141.00		
	False ceiling including all labour, material, equipment, transportation, handling, suspension system etc at any level as per specification, drawings and as directed by engineer - in - charge.				
75	Providing and fixing glass fibre reinforced gypsum plaster board (GRG) ceiling (having gypsum core mixed with glass fibre) system consisting of metal supporting grid system forming panels of specified size, suspended from RCC slab/structural steel or catwalkway grid above with 4 mm (minimum) galvanised wires (rods) with special height adjustment clips, including preperation of working drawing, providing openings for AC ducts, return air grills, light fixtures etc (but excluding the cost of catwalkway grid) all complete as per drawings, customer specification and instructions of the engineer.				
a	12 mm thick GRG board with galvanised light gauge steel load bearing supporting GI frame and finished flat (seamless).	SQM	36.00		
	Rain water down take pipes including all labour, material, transportation, 2 coats of approved paint over one primary coat, fixtures, accessories etc at any level as per specification, drawings and as directed by engineer - in - charge.				
76	Providing and fixing CI down take pipes of 150mm dia with water tight lead joint etc. all complete as per customer specifications : Clause no. 2.6.11 of Doc. no. 6987-00-16-48-DB01 of section C 3.6 & Clause no. 3.7.2 of Doc. no. 6987-017-16-49-SP-01 of Section C 4.7	RM	280.00		
77	Providing and fixing GI down take pipes conforming to IS:1239 /IS:3589 of medium duty all complete for following diameters.				
a	150 mm Dia	RM	10.00		
	Miscellaneous works including all labour, material, equipment etc. at any level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.				
78	Providing and Filling in trenches, plinths, area paving and other underground structures with graded stone aggregate of size range 63 mm to 45 mm in layers not exceeding 230 mm in thickness including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.	CUM	255.40		

79	Providing and mixing approved Bipolar Concrete penetrating Corrosion inhibiting admixture (from EIL's approved manufacturer) in concrete as per Customer specification/ manufacturer recommendation etc. all complete.	Kg	3000.00		
80	Anti termite chemical treatment of soil with Chlorpyriphos/Lindane E.C. 20% with 1% concentration conforming to IS:8944 and as per IS 6313 all complete. (Plinth area of building at ground floor only shall be measured for payment)	SQM	2000.00		
81	Providing 50mm thick anti corrosive layer laid to required slope consisting of clean & well graded coarse sand mixed with A90 grade bitumen for softening point up to 45 degree Celsius or A65 grade bitumen for softening point above 45 degree Celsius as per IS: 73 or its equivalent quality 8 to 10% by volume and rolled or compacted all complete.	SQM	35.00		
82	Providing and fixing weep holes in Drains consisting of 100 mm dia HDPE pipe sleeves with single side covering for the pipe mouth with galvanised welded wire fabric of 20 mm sq. opening covered with 40 mm downgraded aggregates in 300 X 300 mm sq. and 300 mm deep size all complete.	EACH	50.00		
83	Providing and fixing GI rungs in concrete/brick walls having zinc coating of minimum 900 g/sqm etc. all complete.	Kg	200.00		
84	Providing and fixing HDPE pipes in concrete/ brick work of following sizes including cutting, fixing and levelling in position etc. all complete.				
a	150 mm dia	RM	1.00		
85	Cutting of groove of 10mm X 40mm size with groove cutting machine in concrete paving all complete.	RM	50.00		
86	Supply and laying approved quality Stone aggregate 40mm size in transformer yards.	CUM	30.00		
87	Dismantling old existing reinforced/non-reinforced brickwork/block work/stone masonry work in mud/lime/ cement mortar at any level including clearing/cleaning, stacking the serviceable materials at plant site and disposal of unserviceable materials within a lead upto1km all complete.	CUM	1.00		
88	Dismantling old existing structural steel work at any level including plates, bolts, cutting rivets, welding, dismembering and stacking the dismantled materials within a lead up to 1km etc all complete.	MT	1.00		
89	Providing and Filling below foundations with random rubble stone in layers including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.	CUM	1042.00		
	Fencing and gates including all labour, material, equipment etc at any level as per specification, drawings and as directed by engineer - in - charge.				

90	Supplying and erecting in position 2.4 m high galvanised chain linked fencing conforming to IS 2761 of 10G hot dip galvanised steel wires woven in the form of zig-zag mesh giving an opening size of 50 mm square. GI barbed wire fencing of height of 600 mm conforming to IS 298 at top of chain link fencing shall be provided with 4 strands of barbed wire hot dip galvanised wire of 12G comprising of 2 ply of wires with barbs of 16G spaced at 100mm. Cost to include for GI hook bolts, rings & washers, hot dip galvanised tension wires, 25X6 mm GI flat stretcher bar at end posts, accessories etc. all complete. (Structural post shall be separately under ST No. 2007)	RM	10.00		
91	Supply and fixing of hot dip galvanised mild steel posts for fencing. Rate of zinc coating shall not be less than 710 g/m ² on steel posts.	MT	0.20		
92	Supply, fabrication and installing in position and testing galvanised MS Gates out of channels, joists, angles, flats, plates, pipes, welded steel wire mesh & sheets including stiffeners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels, paintings etc. all complete as per customer specifications : Clause no. 3.10.1 of Doc. no. 6987-046-16-48-JS01 (Part-B) of section C 4.6 & EIL standard specifications : 7-75-0051, 7-75-0052	MT	0.50		
	Water supply work including men, material, equipment etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
93	Providing and fixing in position tested heavy duty type chromium plated (CP) brass long neck bib cocks including sockets, union, nuts etc all complete - 15mm nominal bore.	EACH	2.00		
94	Providing and fixing in position heavy duty brass stop cock of approved quality including all specials etc all complete - 15mm nominal bore.	EACH	2.00		
95	Providing and fixing GI pipes conforming to IS:1239 pipes. All complete as per customer specifications : Clause no. 2.7.2.2 of Doc. no. 6987-00-16-47-DB-01 & EIL standard specifications : 6-65-0027				
	15 mm nominal bore.	RM	0.00		
a	20 mm nominal bore.	RM	80.00		
	25 mm nominal bore.	RM	0.00		
96	Providing and fixing 600mmx450mmx5.5mm min) thk mirror from reputed mirror manufacturer. Mirror shall be mounted with glass adjustable revolving CP brackets with CP screws etc all complete as per specifications. Clause no. 3.8.4 of Doc. no. 6987-046-16-48-JS01	EACH	1.00		
97	Providing and fixing 610mmx127mmx6mm thk clear glass with C.P Guard rails and mounted on C.P. brackets etc all complete.	EACH	1.00		
98	Providing and fixing 20 mm diameter C.P. brass towel rails (600mm X 20mm) all complete as per specifications. Clause no. 3.8.4 of Doc. no. 6987-046-16-48-JS01	EACH	1.00		
99	Providing and fixing 20mm dia chromium plated M.S. pipes wall mounted towel rod with C.P. Brackets etc all complete.	EACH	1.00		
100	Providing and fixing C.P. soap holder mounted with C.P. screws etc all complete. Clause no. 3.8.4 of Doc. no. 6987-046-16-48-JS01	EACH	1.00		

101	Providing and fixing stainless steel / C.P. liquid soap dispenser. Dispenser shall be round and easily revolving with removable threaded nozzle and mounted on C.P. brackets etc all complete.	EACH	1.00		
102	Providing and fixing glazed vitreous wall mounted paper holder with suitable cover cum cutter fitted with CP screws etc. all complete as per specifications.	EACH	1.00		
103	Providing and fixing chromium plated brass shower rose with 15 or 20 mm inlet all complete.	EACH	1.00		
104	Providing & fixing in position P.V.C. water tank of Syntex or approved equivalent including making all necessary inlet & outlet pipes, fixture, ball cocks, valves etc all complete for following capacities. GI pipes shall be paid separately under ST No. 2105.				
a	2000 litres capacity	EACH	1.00		
105	Providing and fixing approved stainless steel sink with integrated drain board as per IS:13983 of size 915x460x178mm with CI brackets, stainless steel chain with rubber plug 40mm, cp brass waste trap with necessary union complete including painting the fittings, cutting and making good the wall where required etc. all complete.	EACH	1.00		
	Sanitary work including all labour, material, equipment etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
106	Supply and fixing of counter top type wash Basins with granite counter top with required number of tap holes & conforming to IS : 2556 part 4 of size 550x480mm.Each wash basin shall be provided with 15mm dia pillar cock of approved make,rubber plug with CP brass chain, 32mm CP waste fitting of standard pattern with 32mm dia G.I pipe,CP Brass bottle trap, CP brass 15mm dia stop cock etc. the top of rim of the wash basin shall be fixed at 800mm above finished floor level,unless otherwise specified. all complete with all related accessories,fittings and fixtures as per customer specifications: Clause no 3.8.4 of DOC no.6987-046-16-48-JS01 of section C 4.6 & EIL specifications: 7-75-0064 Rev 03				
a	Coloured	EACH	1.00		
107	Providing and fixing colour glazed vitreous china European type water closet conforming to IS: 2556 part-11 with siphon,open front solid plastic seat and plastic cover,low level manually operated 10 liter Vitreous china flushing system conforming to IS:774 with valve less fittings,necessary C.P connections etc all complete as per customer specifications: Clause no:3.8.5 of Doc no.6987-046-16-JS01(part-B) of section C 4.6				
a	Wall mounted	EACH	1.00		
108	Providing and fixing black flat glazed vitreous china bowl type urinals of size 430x260x380 mm with photo voltaic control flusing system as per IS: 2556 (part 6,section 1) with flush pipes, lead pipes,gratings,traps and necessary C.P white marble partitions slabs of size 1000x600x100mm conforming to IS :2566(part 6/sec.4) shall be used. All complete as per customer specifications : Clause no.3.8.3 of Doc no. 6987-046-16-48-JS01 (Part- B) of Section C 4.6 & EIL standard specifications : 7-75-0063- Rev 03	EACH	3.00		

109	Providing and fixing cast iron pipes fittings and accessories conforming to IS: 1729 and 3989 respectively shall be used for all sanitary works above G.Level. Pipes shall be coated with coal tar by hot dipping process for both inner and outer surface. All complete as per customer specifications: Clause no. 2.8.7of Doc. no. 6987-00-16-47-DB01 of Section C 3.6				
a	110mm dia pipes	RM	20.00		
110	Providing and fixing RCC pipes of class P1 (as per IS:458) Socket and spigot, rubbering joints. All complete as per All complete as per customer specifications: Clause no. 2.8.7 of Doc. no. 6987-00-16-47-DB01 of Section C 3.6				
a	150mm dia	RM	100.00		
111	Providing and fixing C.I Manhole heavy duty cover of size 600mmx450mm including frame from reputed manufacture etc. all complete.	EACH	1.00		
112	Providing and fixing square mouth minimum 65cm S.W Gully trap grade 'A' complete with CI grating, brick masonry chamber and water tight CI cover with 300x300mm (inside). The weight of cover to be not less than 4.53 Kg and frame to be not less than 2.72 Kg etc all complete as per specifications.				
a	150x150mm P or S Type.	EACH	1.00		
	Structural steel works including all labour, material (other than BHEL supplied materials), equipments, transportation, handling etc. at any level as per specification, drawings and as directed by engineer - in - charge.				
113	Supply of steel from loading , transportation, unloading, Fabrication and erection of structural steel with mild steel rolled section / built up section / combination of both conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052, mild steel rounds, monorails, stays, safety chains, ladders, MS grating etc. in columns, beams, gantry girders, bunkers, silos, hoppers, roof trusses, portals, laced purlins, space frames, hangers, struts, monorails, galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles, base plates, splice plates, chequered plate flooring, decking and seal plates, steel frame grid over false ceiling, walkway platforms, ladders, stairs, stringers, treads, landings etc including 2 coats of red oxide zinc-chromate primer (one coat at shop and one coat after erection), connection design & preparation of fabrication drgs, collection of steel from stores, fabrication, straightening, cutting, bending, rolling, grinding, machining, drilling, welding, electrodes and other consumables, alignment, erection bolts & nuts (weight of erection bolts, nuts and welds not payable), assembly, edge preparation, preheating (min preheat and interpass temperature of 20o C for welding over 20				

	mm and up to 40 mm & 66o C for welding over 40 mm and up to 63 mm & 110o C for thickness over 63 mm & use of low hydrogen/ radiogenic electrodes), post heating, testing of welders, inspection of welds, visual inspection, non destructive and special testing, rectification and correction of defective welding works, production test plate, inspection and testing, erection scheme, protection against damage in transit, stability of structures..... contd				
contd installation of temporary structures, setting column bases, surface preparation by means of manual or mechanical power tools as per IS:1477 part 1, touch-up painting, rectification, dismantling and removal of all temporary structures (weight of temporary structures not payable), return of surplus / waste steel materials to store etc, including appointment of a separate agency, approved by BHEL, for review and approval of fabrication drgs, in consultation with BHEL. All complete as per customer Specifications : Cl.no. 9.0 of Doc. no. 6987-00-16-48-DB01 of Section C 3.6, Cl.no. 3.7 of Doc. no. 6987-046-16-48-JS-01 (Part-A) of Section C 4.6, Cl.no.4.6.3 of Doc. no. 6987-046-16-48-JS-01 (part-A) of Section C 4.6 & Cl.no.3.6.5 of Doc. no. 6987-046-16-48-JS01 (part-B) of Section C 4.6				
a	Fabrication	MT	88.30		
b	Erection, alignment, welding	MT	88.30		
114	Extra over ST NO. 2301 for shot blast cleaning of steel structures to near white metal surface(Sa 2 1/2) using abrasives like copper slag / Al2o3 particles/chilled cast iron and steel and applying epoxy based zinc phosphate primer in coats of minimum 25 micron (DFT) at shop and 25 micron (DFT) after erection, instead of primer coat of red oxide zinc-chromate, including touch-up painting etc all complete. as per EIL spec. no. 6987-0642-PT-F09, clause 8.2 of table no 8.0.	MT	88.30		
115	Providing and applying two coats of Chlorinated rubber paint with minimum 40 micron total dry film thickness (DFT) of approved make and shade to achieve an even shade over steel sections already having primer coats and keeping overall DFT with primer not less than 110 microns including protection and cleaning, scaffolding etc. All complete as per customer Specifications : Clause no. 1.0-k of Doc. no. 6987-046-16-48-SP01 of section C 1.8 & EIL standard specification 6987-0642-PT-F09	MT	88.30		
116	Supplying, fabrication, erection and alignment of factory made electroforged galvanised grating units (having minimum galvanisation of 610 g/sqm) with mild steel conforming to IS:2062 in flooring, platforms, drain and trench covers, walkways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. All complete as per customer specifications : Clause no. 9.0 of Doc. no. 6987-00-16-48-DB01 of Section C 3.6, Clause no. 3.7 of Doc. no. 6987-046-16-48-JS-01 (part-A) of Section C 4.6 & EIL; Standard specifications : 7-68-0202 Rev 05	MT	5.00		

117	Providing and fixing in position of permanent mild steel bolts (class 4.6 as per IS : 1367 and grade `C' as per IS: 1363) and nuts, washers etc. up to and inclusive of 39 mm diameter and up to 300mm long for structural steel work etc. All complete as per customer Specifications : Clause no. 4.6.4 of Doc. no. 6987-046-16-48-JS-01 (Part-A) of Section C 3.6	Quintal	5.00		
	PROVIDING ROAD WORK INCLUDING SUPPLY OF MATERIAL, COST OF LABOUR, MACHINERY ETC ALL COMPLETE AS PER SPECIFICATION, DRAWING, RELEVANT IRC & IS CODES AND AS DIRECTED BY THE ENGINEER FOR THE FOLLOWING				
118	Preparation of sub grade by earth work(excavation or filling) to required depth for all types of soil/ rock, dressing to camber and consolidating the base including making good the undulation etc . Subgrade below road/pavement shall be compacted to 95% of Modified Proctor Density as per IS: 2720 part-VIII and slope of sub-grade shall be same as top of the pavement slope.	CUM	210.30		
119	Providing & laying water bound macadam grade II base course in two layers of 75mm thickness with stone aggregate 63mm to 40mm size, stone screening and blinding material including screening sorting, spreading to template and consolidation with road roller including carriage, spreading and consolidation of blinding material moorum etc all complete as per EIL specification 6-65-0018.	SQM	1190.00		
120	Providing, mixing & laying premix carpet (as per IRC-14) of compacted 25mm thickness in a single course composed of suitable small size aggregate premixed with a bituminous binder on a prepared base including mixing, applying, rolling etc as per IRC specification all complete.	SQM	35.00		
	Supply & laying (400mmx150mmx350mm deep) precast concrete kerb stone of grade M-20 with 20 mm aggregate and of shape as per detailed drawing including fixing in 13mm thk cement mortar 1:2 in joints, finishing of joints with neat cement paste, making drainage opening where required etc all complete.	RM	0.00		
121	Providing, laying, cutting & testing NP3 class R.C.C. pipes at road crossing spigot or with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) complete in all respects as per specifications & drawings.				
a	500 mm dia RCC pipe	RM	100.00		
122	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
a	i) All kinds of soil	SQM	1000.00		
123	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	SQM	200.00		
124	Providing and fixing soil, waste and vent pipes				
i	i) 100 dia Sand cast iron S&S pipe as per IS:1729.	RM	1.00		
ii	ii) 75 dia Sand cast iron S&S pipe as per IS:1729.	RM	1.00		

125	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
i	i) 75 dia pipe	EACH	1.00		
ii	ii)100 dia pipe	EACH	1.00		
126	Providing and fixing C.P. brass angle valve for basin mixer and eyser points of approved quality conforming to IS:8931: 15 mm nominal bore	EACH	2.00		
127	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
i	i) 25 mm nominal bore.	NOS	1.00		
128	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				
i	i) M.S. tube.	KG	100.00		
129	Providing & fixing partly paneled & partly glazed partition using anodised aluminium section (Minimum anodic coating of grade AC 15) of 100mmx 44mm x12 gauge with glazing of 5.5 mm thick toughened glass and panelling of 12 mm thick prelaminated Nova Pan particle board grade I, type II conforming to IS:12823 with necessary rubber gasket, aluminium beading clips etc. The rate also includes cost for providing all necessary fittings screws cleats etc. all complete as per specifications and drawing. All hardwares like clamps holding down bolts shall be as per specifications.	SQM	15.00		
Sub Total					
	Value of free issue materials				11929000.00
	Sub Total				
	Service Tax				
	Grand total including Service Tax but excluding value of free issue materials (Total cost to BHEL)				

	Special Conditions:
	1. The Tenderer has to quote for the individual items both in figures as well as in words.
	2. Items of works other than those mentioned in Bill of Quantities will have to be carried out at the rates to be fixed by this organisation in line with General Conditions of Contract (GCC).
	3. Few of the above items may / may not be operated. The tenderer / Contractor shall have no claims in this regard.
	4. Safety precautions should be taken while doing the work. You will have to follow all safety requirements to carry out the work inside the factory premises.
	5. TAXES & DUTIES:
	5a) The tenderer shall have been registered under Excise, Sales, VAT, Service Tax regulations if applicable and provide a copy of such registration to BHEL as part of the tender document.
	5b) Service Tax shall be paid by the tenderer as per Service Tax rules.
	5c) If due to deficiency in the document submitted, BHEL could not avail CENVAT, VAT Credit, the credit amount will be recovered from the amount due to the contractor.
	5d) If payment of statutory dues are not made in accordance with the applicable provisions of the relevant Act within the time specified and Penalty, interests etc., paid / payable by the contractor, the same shall not be reimbursed by BHEL and the entire implication is only to be born by the contractor. The tenderer shall clearly indicate the rate of applicable taxes and duties for the work to be executed.
	5e) The quote submitted shall include all taxes and duties of whatsoever in nature but exclusive of Service Tax, which shall be quoted separately as applicable. After tender opening addition of any taxes and duties are not admissible.
	6. The tenderer / contractor has to make their own arrangement for required water, power, compressed air etc. No extra claim shall be entertained on this account.
	7. All materials shall conform to the latest IS / IRC specifications and EIL specifications wherever specified.
	8. Once the work is completed the contractor should remove all the unwanted materials from the site time to time and it should be disposed off as per the instructions of Engineer - in - charge without any delay.
	9. Time is the essence of the contract. Any delay beyond the delivery date will be subjected to Liquidated Damage.