

Rate Schedule

TENDER NO. BHEL: NR: SCT: GGSR BATHINDA: CIVIL: 541

SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
1.0	EXCAVATION				
1.1	Earthwork in excavation in all kinds of ordinary and hard soils (including slushy soils) up to a depth of 2.0m below G.L and stacking within a lead of 100m trimming and dressing of the sides etc. including bailing/pumping out any slush water etc. all complete as per specifications.	CUM.	110000		
1.2	----DO--- from 2.0 to 4.0m depth.	CUM.	10085		
1.3	----DO--- from 4.0 to 5m depth.	CUM.	8818		
1.4	Extra for every additional lead of 50m or part thereof.	CUM.	50		
2.0	BACKFILLING & DISPOSAL				
2.1	Earthwork in back filling & compacting around foundations, trenches, below grade slabs, as per specifications and as directed by the Engineer.				
	a) With earth obtained from stacks within a lead of 100 m .	CUM.	72079		
	b) Extra over 2.1(a) for every additional lead of 500m or part there of within battery limit.	CUM.	100		
	c) With selected earth (cohesive non- swelling/murram) obtained from borrow pits outside the battery limit within a lead of 1.0 Km. lead.	CUM.	50		
	d) Extra over 2.1 (c) for every additional lead of 1 km. or part thereof.	CUM.	40		
2.1.1	a) Providing and backfilling of fresh bought out earth from a lead of 1.0Km .	CUM.	100		
	b) Providing and backfilling of fresh bought out earth from a lead of 1.0Km to 5.0 Km or part thereof .	CUM.	100		
2.2	a) Removal of surplus earth & debris beyond battery limits. Up to 1 KM lead including transportation, loading and unloading, dumping, stacking, levelling and dressing etc. complete as per specification.	CUM.	64062		
	b) Extra over 2.2a for every additional lead between 1 km to 2 km or part thereof.	CUM.	50		
	c) Extra over 2.2a for every additional lead between 2 km to 5 km or part thereof.	CUM.	50		
2.3	Supplying and filling in sand (not below grading zone-III as per IS:383) in layers not exceeding 150 mm including compacting by mechanical means etc all complete as per specifications and as directed by the Engineer.	CUM.	13261		
3.0	CONCRETE (ONLY CEMENT WILL BE SUPPLIED BY BHEL FREE OF COST)				

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3.1	Supplying, laying in position and curing as per specification plain cement concrete of the following mix with 40mm down size aggregates below GL and up to 1.0m above GL, including consolidation of subgrade wherever required as per specifications.				
	a) 1:5:10	CUM.	3613		
	b) 1:3:6	CUM.	200		
	c) 1:4:8	CUM.	50		
	d) 1:2:4 (with 20 mm and down sized aggregates.)	CUM.	50		
	e) PCC M15 (with 40mm and down sized aggregates)	CUM.	135		
3.2	Supplying, laying in position, curing as per specifications controlled concrete (using 33 grade OPC confirming to IS:269 or 43 grade OPC confirming to IS:8112 depending upon the availability of the following grades (20mm and down size graded crushed stone aggregate) as per specifications.				
	a) for all depths below GL and 1.0 m above GL				
	i) Grade M-20	CUM.	100		
	ii) Grade M-25	CUM.	20834		
	iii) Grade M-30	CUM.	3597		
	b) for all elevations above G.L.				
	i) RCC/AGL/M25 UP TO +6.0M LVL	CUM.	4224		
	ii) RCC/AGL/M25 UP TO +12.0M LVL	CUM.	1514		
	iii) RCC/AGL/M25 UP TO +20.0M LVL	CUM.	1514		
	iv) RCC/AGL/M25 ABOVE +20.0M LVL	CUM.	1409		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
3.3	Providing and placing in position Fire proofing with RCC M25 using 10mm and down graded aggregates for encasing of steel structures including cost of Expended metal sheet, welded wire mesh, tie wire, nuts, cover plates etc. all complete as per EIL specification no. 6-68-0033.	CUM.	50		
3.4	Providing and placing in position Fire proofing with Vermiculite for encasing of steel structures including cost of Expended metal sheet, welded wire mesh, tie wire, nuts, cover plates etc. all complete as per EIL specification no. 6-68-0033.				
	a) -do- measured in area.	SQM.	18272		
	b) -do- measured in volume.	CUM.	50		
3.5. a	Providing and placing in position Reinforced concrete of grade M25 for paving including laying in approved size panels, leaving grooves for sealing joints, cost of form work, finishing of top surface but excluding cost of reinforcement etc. complete as per EIL specification no. 6-65-0019, 6-65-1019 & EIL drawing no. 7-65-0404.	CUM.	3413		
3.5.b	Providing and placing in position Reinforced concrete of grade M20 for paving including laying in approved size panels, leaving grooves for sealing joints, cost of form work, finishing of top surface but excluding cost of reinforcement etc. complete as per EIL specification no. 6-65-0019, 6-65-1019 & EIL drawing no. 7-65-0404.	CUM.	1273		
3.6	Providing and placing in position Reinforced concrete of grade M30 for paving including laying in approved size panels, leaving grooves for sealing joints, cost of form work, finishing of top surface but excluding cost of reinforcement etc. complete as per EIL specification no. 6-65-0019, 6-65-1019 & EIL drawing no. 7-65-0404.	CUM.	1519		
3.7	Supplying and mixing 'CICO' or approved equivalent brand of integral water proofing compound in cement concrete cement mortar etc. all complete as per EIL specification no. 6922-575-16-48-SP-263B.	KGS.	2000		
3.8	Providing and Fixing in position 20mm thick Bitumen Impregnated Fibre board confirming to IS:1838, Part-1 in expansion joints etc as per specifications all complete as per EIL specification no. 6922-575-16-48-SP-263B, 6-65-0019, 6-65-1019 & EIL drawing no. 7-65-0404.	SQM.	563		
3.9	Providing and Fixing in position 25mm thick Bitumen Impregnated Fibre board confirming to IS:1838, Part-1 in expansion joints etc as per specifications all complete as per EIL specification no. 6922-575-16-48-SP-263B.	SQM.	1000		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
3.10	Supplying and laying approved quality joint sealing compound conforming to IS: 1834, type-B for joints in concrete etc. complete as per EIL specification no. 6922-575-16-48-SP-263B, 6-65-0019, 6-65-1019 & EIL drawing no. 7-65-0404.				
	a) 20mm wide , 25mm deep	RM.	6812		
	b) 10mm wide , 40mm deep.	RM.	50		
3.11	Supplying and laying approved quality Polysulphide sealing compound conforming to IS: 12118 for joints in concrete etc. complete as per EIL specification no. 6922-575-16-48-SP-263B.	RM.			
	a) 20 wide, 25 deep	RM	14488		
	b) 10 wide, 40 deep	RM	10428		
3.12	Supplying and fixing 3mm thk. Aluminium sheet with brass screws in expansion joints including drilling in concrete etc. all complete as per EIL specification no. 6922-575-16-48-SP-263B to cover expansion and/or separation joints.	SQM.	20		
3.13	Fabricating and placing in position pre cast reinforced concrete trench covers of grade M25 of varying thickness including reinforcement, shuttering, lifting lugs etc. all complete including edge angles as per drawing and specifications. Reinforcement will be paid under item 5.1b and edge angles will be paid under item 6.1d.	CUM.	1509		
3.14	Supplying and installing ribbed water stops in cement concrete including laps by fixing/vulcanising joints and folds as applicable and approved by the Engineer.				
	a) Rubber water stops	RM.	50		
	b) PVC water stops ""Caliplast"" or equivalent -5 mm thick and 150m wide	RM.	14500		
	c) PVC water stops ""Caliplast"" or equivalent -5 mm thick and 230m wide	RM.	300		
3.15	Grouting under equipment bases as required, curing and finishing the exposed surfaces including all materials as per specifications, drawings and directions of the Engineer.				
	i) With 1:1:2 cement sand stone chips(6 mm and down)nominal mix by volume.	CUM.	10		
	ii) With 1:1 mortar	CUM.	10		

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	iii) With non-shrink (premix type) grout with 28days minimum cube crushing strength of 40N/sq.mm. like conbextra'GP2 or equivalent, including cost of grout etc., all complete as per drawings and EIL specifications.	CUM.	341		
3.16	Providing and placing in position HDG grating including laying in approved size panels, finishing etc. complete as per EIL drawing no. 7-65-0272 & specifications.	SQM.	1394		
4.0	FORM WORK				
4.1	Supplying, installing, dismantling and removing the following classes of form work as per drawings and specifications at all levels, using steel shuttering.				
	a) Straight	SQM.	135581		
	b) Curved in plan	SQM.	1722		
4.2	Providing pockets in concrete of sectional area less than 0.1 sqm. by fixing and removing formwork for anchor bolts, pipe sleeves etc. as per drgs. including all materials, labour etc. complete as per specification.				
	a) Up to 300 mm deep.	NOS.	2155		
	b) 301mm to 600mm deep.	NOS.	1095		
	c) 601mm to 900mm deep	NOS.	114		
	c)901mm to 1200mm deep	NOS.	72		
5.0	REINFORCEMENT (Only TMT Steel to be supplied by BHEL)				
5.1	Bending, binding transporting and placing in position following types of reinforcement of all diameters and at all locations.				
	a) Supply of MS reinforcement conforming to IS : 432.	MT.	0		
	b) HYSD TMT reinforcement conforming to IS:1786.	MT.	4960		
5.2	Supplying and fixing steel wire mesh , 3mm dia, 50X50mm mesh, 2.2 kg/sqm. as per IS:1566, for encasing steel structures.	SQM.	18272		
6.0	STRUCTURAL STEEL (structural steel i.e. Plates, Angles , channels , beams, chequered plates only are to be supplied by BHEL free of cost for structural works)				

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
6.1	Supplying (steel other than supplied by BHEL), fabricating using approved quality electrodes of 6013 or low hydrogen 7018 for plate thickness above 20mm, preheating, packing and delivering at site of the following categories of Structural steel works confirming to grade A of IS:2062 including cost of steel, all necessary bolts, nuts and washers with a shop coat of primer compatible with final paint system-complete as per drawings and specifications.				
a	Steel work consisting of portal frames, laced and plated column, beams, fabricated with standard rolled sections, plates, angles and flats & pipes (quantities indicated at 'c' and 'd') etc.	MT.	5080		
b	Steel work consisting of roof trusses with standard rolled sections, plates, angles and flats & pipes (quantities indicated at 'c' and 'd') etc.	MT.	320		
c	Steel work for 'a' and 'b' above with M S flats 50mm x 6mm and 100mm x 6mm.	MT.	10		
d	Steel work for 'a' and 'b' above with M S pipes 50mm dia etc.	MT.	5		
e	Steel work consisting of purlins, non-plated beams, grit bracings, sag rods(indicated at 'f') with anchor cleats/end plates.	MT.	123		
f	Steel work consisting of M S sag rods 16mm & 20mm for 'e'	MT.	15		
g	Miscellaneous steel work other than in items (a) to (f.).	MT.	193		
6.2	Erection of structural steel as describes in 6.1 including grouting under base etc. , all complete as per drawings & specifications.	MT.	5738		
6.3	Supplying and Erecting of raw steel sheets, transporting to work site, fabricating and fixing by welding etc., 18 gauge MS sheet to steel column including cost of steel etc., complete.	MT.	48		
6.4	Supplying and Erecting Hot dip galvanised MS floor gratings with zinc coating of 900 g/sqm and staircase steps as per EIL specification no. 6922-575-16-48-SP-263B, EIL drawing no. 7-68-0506, 7-68-0561 including all fasteners etc. all complete.	MT.	398		
6.5	Supplying, Fabricating & erecting in position of 32 (M) NB galvanised MS handrails at various elevations including cost of materials, consumables etc. all complete as per EIL specification no. 6922-575-16-48-SP-263B & EIL drawing no. 7-68-0061, 7-68-0501, 7-68-0506.	RM.	3109		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
6.6	Supplying, Fabricating & fixing in position MS inserts like channels, angles, flats, rounds plates, pipe sleeves and any other structural shape etc. including cost of steel, necessary stagings, cutting to required lengths, bolting, riveting, welding etc. as required all complete as per specifications.	MT.	229		
6.7	Supplying, fabricating and fixing in position foundation hardware such as anchor bolts, nuts, washers, anchor assembly etc. as per drgs. including fixing to proper level and alignment using templates, cost of steel etc. all complete as per specifications.	MT.	63		
6.8	Taking delivery of foundation hardware from BHEL stores, transporting and fixing to proper level and alignment using templates etc. complete. (Cost of foundation hardware excluded).	MT.	51		
6.9	Providing and installing Precoated Galvanised steel sheet of overall sheet thickness minimum 0.5mm in roof and side cladding with standard lap (min 150mm end lap) including all drilling cutting and grouting required to give a water tight finish, all bolts, nuts, washers, drilled holes to be suitably painted before erecting & fixing etc. all complete as per EIL specification 6922-575-16-48-SP-263B.	SQ.M	13437		
6.10	Same as above but with transparent fiber glass sheets.	SQM.	658		
6.11	Same as above but with Corrugated GI sheets .	SQM.	50		
6.12	Providing & installing the following precoated Galvanised steel sheet specials and roofing accessories with standard laps including all drilling, cutting & grouting required to give water tight finish with all bolts, nuts, washers, hangers, spacers, drilled holes to be suitably painted before erecting & fixing etc., complete as per EIL specification 6922-575-16-48-SP-263B.				
	a) Ridge with close fitting adjustable ridge pieces including finish.	RM.	402		
	b) Eaves gutter E30 or equivalent with accessories.	RM.	49		
	c) Half round gutter.	RM.	514		
	d) S type louver with fixtures.	SQM.	84		
	e) Barge boards with all fixtures.	RM	550		
	f) North light curves	SQM.	20		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
6.13	Providing and installing GI rain water-down comer, 150mm dia. with all heads bends, junctions, cleanout shoes, connection pieces, clamps etc., complete as per EIL specification no. 6922-575-16-48-SP-263B.	RM	802		
6.14	Providing and installing PVC rain water-down comer , 150mm dia. with all heads bends, junctions, cleanout shoes, connection pieces, clamps etc., complete as per specifications.	RM	1000		
6.15	Providing & installing of 3.15mm thick MS flashing with all fittings and fixtures complete as per drawing & instruction of the engineer.	SQM.	20		
6.16	Supplying fabricating, packing and delivering at the stores at site of the following categories of steel work (Rail) including all necessary bolts, nuts, washers etc.				
	a) CR80 Rail	MT.	10		
	b) LB90 Rail	MT.	10		
7.0	MASONARY & ALLIED WORKS				
7.1	Supplying and laying of Random rubble stone masonry in cement mortar 1:6 in foundations and basement.	CUM.	10		
7.2	Supplying and laying in position class-5.0 brick work in foundation and up to plinth in cement sand mortar (1:6) including mixing mortar, laying bricks, raking of joints, curing etc., all complete as per drawings and specifications.	CUM.	150		
7.3	Similar to 7.2 in super-structure.	CUM.	4464		
7.4	Similar to 7.3 but 375mm thk. brick wall.	CUM.	500		
7.5	Supplying and laying in position class-5.0 brickwork in half brick walls at various elevations in 1:4 cement sand mortar with 2 nos. of 6mm dia. MS bars at every fourth layer including mixing mortars, raking joints, curing etc. all complete as per drawings and specifications.	SQM.	61		
7.6	Supplying and laying damp proof course 40 mm thick with plain cement concrete M20 with 10mm down size aggregates including applying bitumen coats etc. all complete as per EIL specification 6922-575-16-48-SP-263B.	SQM.	500		
7.7	Providing 12mm thick cement-sand (1:6) plastering to the interior faces of the walls at various elevations including mixing, laying, finishing, cutting grooves wherever required, curing etc. with all materials complete as per drawings and specifications.	SQM.	500		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
7.8	Providing 15mm thick cement-sand (1:6) plastering to the interior faces of the walls at various elevations including mixing, laying , finishing, cutting grooves wherever required, curing etc. with all materials complete as per drawings and specifications.	SQM.	15439		
7.9	Providing 18mm thick plaster mixed with water proofing compound applied to the exterior faces of walls in layers at all elevations including mixing, laying finishing, cutting grooves, if required, curing etc. with all materials complete as per drgs. and specifications.	SQM.	15204		
7.10	Providing 15mm thick Cement plaster mixed with water proofing compound applied to the inside surfaces of RCC gutter at all elevations including mixing, laying finishing, cutting grooves, if required, curing etc. with all materials complete as per drgs. and specifications.	SQM.	100		
7.11	Providing 15mm thick Cement plaster mixed with water proofing compound applied to the exterior faces walls at all elevations including mixing, laying finishing, cutting grooves, if required, curing etc. with all materials complete as per drgs. and specifications.	SQM.	100		
7.12	Providing minimum 6mm thick 1:4 cement sand plaster over concrete surfaces of columns, beams, slabs, ceiling etc. similar to item 7.8 above.	SQM.	12576		
7.13	Providing 25x10mm drip course at various elevations to parapet, chajja, windows&door heads etc. with all materials complete as per drawings and directions of the Engineer.	RM.	100		
7.14	Providing 12mmX12mm rectangular grooves in plaster as per drawings.	RM.	214		
7.15	Extra over plaster for providing neat cement finish .	SQM.	50		
7.16	Providing flush pointing to rubble of brick masonry work in CM 1:2 as directed by the Engineer including raking of joints, curing etc. complete.	SQM.	10		
7.17	Providing and placing in position 50mm thick lath plaster in CM 1:4 for fins, drops etc. including providing and fixing 24 G metal lath (wire mesh) but excluding cost of reinforcement.	SQM.	214		
7.18	Providing 2mm thick plaster of paris punning over plaster at various elevations with all materials etc. complete as per specifications and directions of engineer.	SQM.	9734		
8.00	FLOORING				
8.1	Supplying and laying Granite stone flooring of approved quality and colour at various elevations including preparations of base, laying underbed & tiles with white cement based topping, curing, rubbing, polishing etc. with all materials complete as per EIL drgs., finish schedule and specifications.	SQM.	1025		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
8.2	Supplying and laying Granite stone cladding of approved quality and colour at various elevations including preparations of base, laying underbed & tiles with white cement based topping, curing, rubbing, polishing etc. with all materials complete as per EIL drgs., finish schedule and specifications.	SQM.	2776		
8.3	Providing 40mm thick acid proof tile lining of "Coromandel Prodorite" make or approved equivalent including applying one coat of Prodolacspl, conforming to IS:158, Type II over dry concrete/plastered surface followed by laying 38 mm thick A.R. tile lining using tiles of size 238X114X38 mm conforming to IS:4860 Class-II spec., bedded and jointed in cement prodor SK conforming to IS:4832 Part-I spec etc. all complete as per drawings & EIL specification no. 6-65-1062. Bed thickness will be 20 mm and joint width is about 3mm .	SQM.	50		
8.4	--- DO --- in Skirting	SQM.	10		
8.5	Same as item 8.3 but using resinous cement CNSL mortar for top 12 mm depth of joint .	SQM.	20		
8.6	Supplying and laying Cement Concrete Granolithic Flooring including preparation of base, laying underbed, finishing and rounding corners and junctions, curing etc. all complete as per drawings and EIL specification no.	SQM.	4750		
8.7	--- DO --- in Skirting as per EIL drawing. No.7-75-0002, 7-75-0003 & specifications.	SQM.	10		
8.8	Supplying and laying 50mm thk. Heavy Duty Cement Concrete Flooring including 15mm thick topping with hardener laid over a base concrete including cleaning of the base concrete curing etc all complete as per drawing & EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	6856		
8.9	Polished heavy duty cement concrete tiles (Carborundum)	SQM.	4224		
8.10	Supplying and laying 18mm thick cement skirting including preparation of base, laying underbed finishing with neat cement, rounding corners and junction, curing etc., complete as per as per EIL drawing. No.7-75-0002, 7-75-0003 and EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	202		
8.11	Supplying and laying Acid Resistant Epoxy Coating on floors and walls / skirting at different elevations including preparation of base etc. all complete as per drawing and EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	214		
8.12	Supplying & fixing of ceramic tile flooring of required size & shade, in flooring and skirting at different elevations including preparation of base, applying neoprene based adhesive etc. all complete as per EIL drawing. No.7-75-0004 and EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	1331		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
8.13	Supplying & fixing of ceramic tile skirting of required size & shade, in flooring and skirting at different elevations including preparation of base, applying neoprene based adhesive etc. all complete as per EIL drawing. No.7-75-0004 and EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	365		
8.14	a) Supplying laying and fixing Kota stone flooring at various elevations including preparation of base, laying underbed, finishing, polishing etc., as per drawings and EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	513		
	b) Supplying laying and fixing Kota stone skirting at various elevations including preparation of base, laying underbed, finishing, polishing etc., as per drawings and EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	64		
	c) -----DO----- 50mm thk Kota stone for staircase Treads with nosing.	SQM.	77		
	d) -----DO----- 30thk. for staircase risers.	SQM.	0		
8.15	Polished heavy duty cement concrete tiles (Carborundum)+Industrial vitrified ceramic tiles in pattern	SQM.	803		
8.16	Cement concrete flooring with acid resistant epoxy coating	SQM.	633		
8.17	Vertified porceilin tiles flooring	SQM.	416		
9.0	FALSE FLOORING & FALSE CEILING	SQM.			
9.1	Supplying, Erecting, fitting, & laying false flooring of approved make with necessary base plates, pedestal studs, top heads, channel stringers, floor panels of particle boards with laminated top, polyurethane coating, nuts, bolts etc. all complete as per EIL drawing no. 7-75-0047 & Eli specification no. 6922-575-16-48-SP-263B.	SQM.	2088		
9.2	Supplying, Erecting, fitting, & fixing Aluminium Panel Flase Ceiling (Luxalon) including underdeck insulation of approved make with all fittings, fixtures etc. all complete as per EIL drawing no. 7-75-0047 & EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	3736		
10.0	FINISHING AND PAINTING	SQM.			
10.1	Providing three or more coats of white/colour wash to give a smooth and even shade including cleaning and preparation of surface, scaffolding etc. all complete as per EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	50		
10.2	Providing two or more coats of cement based water proofing painting of approved make and shade including cost of paint, cleaning and surface preparation, priming coat materials, scaffoldings etc. all complete as per EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	31202		

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10.3	Painting with two or more coats of plastic emulsion paint of approved make and shade including cost of paint, cleaning and surface preparation, priming coat materials, scaffoldings etc. all complete as per EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	9202		
10.4	Painting with two or more coats of plastic emulsion paint over POP of approved make and shade including cost of paint, cleaning and surface preparation, priming coat materials, scaffoldings etc. all complete as per EIL specifications no. 6922-575-16-48-SP-263B.	SQM.	5664		
10.5	Providing complete protective coating system to structural steel work (measured in MT) with 1 coat of Inorganic zinc silicate coating @ 65 μ DFT/coat plus 2 coats of Chlorinated rubber Zinc Phosphate primer @40 μ DFT/coat with finish coat of 2 coats of Chlorinated rubber finish paint @ 40 μ DFT/Coat including surface preparation as per SSPC-SP-10 by means of Shot/grid blasting complete as per Sl.no. 8.2 of Table-8.0 of EIL specification no.6922-0642-PT-B08	MT.	5943		
10.6	Painting with two coats of synthetic enamel paint of approved make and shade over red oxide zinc chromate primer including cost of paint, cleaning and surface preparation, priming coat materials, scaffoldings etc. all complete as per specifications.	SQM.	500		
10.7	Providing and applying to interior surfaces two coats of oil bound distemper of approved make and shade over a coat of primer including preparation of surfaces, scaffolding etc. complete.	SQM.	10871		
10.8	Providing and applying the textured coating, consist of twin pack fine grade wall coating system; with fine grade silica granules/ dry flakes made of special grade of china clay / granite type flakes of ' Heritage ' or equivalent in approved shade and texture; mixed in-situ with 100% acrylic polymer bonding agent. The textured coating shall be applied over plastered surfaces. The granules/ flakes etc., bonding material, mixing, method of application surface preparation etc. all shall be as per manufacturer's recommendations and specifications.	SQM.	5105		
11.0	WATER PROOFING				
11.1	Providing and laying Polyurethane based water proofing at various elevations including laying underbed, finishing protective layer, fillets at junction of horizontal and vertical surfaces etc. with all material complete as per EIL drawing no. 7-75-0068 and EIL specification no. 6744-94-16-48-0254 & 6922-575-16-48-SP-263B.	SQM.	6187		
11.20	Under deck insulation as per EIL Standard Specification No. 6-82-2778	SQM.	5491		
12.0	DOORS, WINDOWS & VENTILATORS				

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12.1	Supplying and erecting including assembling, fitting and fixing wooden flush doors with pressed steel frames at various elevations including frames, shutters, fittings and fixtures, brass body mortise lock, handles, fixing the frames, door stoppers with heavy duty rubber shoes, vision panel of size 150mmX300mm with 4mm thk. plain glass with teak wood beading etc. all complete as per EIL drawing no. 7-75-0011 and EIL specification no.6922-575-16-48-SP-263B including painting of door frames with two coats of synthetic enamel paint over a coat of red oxide zinc chromate primer paint.				
	a) Single shutter	SQM.	20		
	b) Double shutter	SQM.	50		
12.2	Supplying and erecting including assembling, fitting and fixing wooden flush doors with pressed steel frames without vision panel at various elevations including frames, shutters, fittings and fixtures, brass body mortise lock, handles, fixing the frames, door stoppers with heavy duty rubber shoes etc. all complete as per EIL drawing no. 7-75-0011 and EIL specification no.6922-575-16-48-SP-263B including painting of door frames with two coats of synthetic enamel paint over a coat of red oxide zinc chromate primer paint.				
	a) Single shutter	SQM.	20		
	b) Double shutter	SQM.	100		
12.3	Supplying and erecting including assembling, fitting and fixing Pressed steel doors at various elevations including frames, shutters, fittings and fixtures, vision panel of size 150mmX300mm with 4mm thk. plain glass with MS beading etc. all complete as per drawings and EIL specification no. 6744-94-16-48-0254 & 6922-575-16-48-SP-263B including painting with two coats of synthetic enamel paint over a coat of red oxide zinc chromate primer paint.				
	a) Single shutter as per EIL drawing no. 7-75-0070	SQM.	10		
	b) Double shutter as per EIL drawing no. 7-75-0071	SQM.	63		
12.5	Providing and fixing approved quality hydraulic door closer conforming to IS:3564 as directed by the Engineer.	NOS.	26		
12.6	Providing and fixing in position composite, insulated type fire doors of approved make having 2 Hrs fire rating conforming to IS:3614 Part-I with all necessary fittings and fixtures including self closing hinges, locking arrangement and painting with two coats of fire proof paint over approved primer etc. complete. (contractor to obtain and furnish T.A.C. approval for supplies made).				

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	a) Single leaf.	SQM.	11		
	b) Double leaf.	SQM.	11		
12.7	Providing and fixing steel windows at various elevations including providing and fixing 4mm thick plain glass panels, approved make handles, peg stays, stoppers, hinges, etc. all complete as per EIL drawing no. 7-75-0027, 7-75-0028, 7-75-0029, 7-75-0031, 7-75-0032 & EIL specification no. 6744-94-16-48-0254 & 6922-575-16-48-SP-263B including painting of steel surfaces with two coats of synthetic enamel paint over a coat of red oxide zinc chromate primer paint.				
	a) Fixed type	SQM.	226		
	b) Openable type	SQM.	278		
12.8	Supplying and erecting including assembling, fitting and fixing steel louvers at various elevations including frames, shutters etc. as required with all materials etc. complete as per drawings and EIL specification no. 6744-94-16-48-0254 & 6922-575-16-48-SP-263B including painting of steel surfaces with two coats of synthetic enamel paint over a coat of red oxide zinc chromate primer paint.	SQM.	100		
12.9	Providing and fixing 2mm thk approved quality rubber sealing strip around doors and windows for making them air tight as per specifications and drawings.	RM.	1326		
12.10	Supplying and erecting including assembling, fitting and fixing aluminium windows at various elevations including frames and shutters, transoms, mullions, fittings and fixtures, beading, 6.3mm thk. laminated safety glass etc. all complete as per EIL drawing no. 7-75-0014, 7-75-0015 & EIL specification no. 6744-94-16-48-0254 & 6922-575-16-48-SP-263B.				
	a) Openable type	SQM.	427		
	b) Fixed type	SQM.	1837		
	c) Sliding type	SQM.	187		
12.11	Supplying and erecting including assembling, fitting and fixing aluminium ventilator at various elevations including frames and shutters, transoms, mullions, fittings and fixtures, beading, 6.3mm thk. laminated safety glass, etc. all complete as per EIL drawing no. 7-75-0014, 7-75-0015 & EIL specification no. 6744-94-16-48-0254 & 6922-575-16-48-SP-263B.	SQM.	885		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
12.12	Supplying and erecting including assembling, fitting and fixing aluminium partition frames with matching doors etc. as per drawing no. 3-38144-00008 with frames, shutters, double acting heavy duty floor springs, fittings and fixtures, mortise lock, aluminium beading, 6.3mm thk. laminated safety glass, 12mm thick twin laminated particle board of Gypsum board make or equivalent to aluminium partitions and doors framework etc. all complete.	SQM.	522		
12.13	Supplying and erecting including assembling, fitting and fixing aluminium glazed doors including shutters, springs, fittings and fixtures, 6.3mm thk. laminated safety glass, door closer, tower bolts, beading etc. all complete as per EIL drawing no. 7-75-0014 & EIL specification no. 6922-575-16-48-SP-263B.				
	a) Single shutter	SQM.	68		
	b) Double shutter	SQM.	200		
12.14	Supplying and erecting medium density fibre(MDF) board for partition as per EIL Spec No 6922-575-16-48-SP-263B.	SQM.	214		
12.15	Supplying and erecting gypsum board painted with plastic emulsion paint for partition as per EIL Spec No 6922-575-16-48-SP-263B.	SQM.	214		
12.16	Supplying , fitting and fixing the following glazing specials at various elevation including cost of all materials etc. completed as per drawings and spec.				
	5.5 mm thk toughened glass	SQM.	2500		
	6.3 laminated safety glass	SQM.	692		
	Supplying, fitting and fixing 3mm aluminium sheet on top and bottom of floor and both side of column with brass screws. Provision of movement to be kept on one side with slotted holes.	SQM.	43		
12.14	Supplying, fitting and fixing 300X38X6mm MS hold fasts to wooden door frames with screws and grouting with 1:2:4 cement concrete at various elevations with all materials etc. complete.	NOS.	10		
13.0	ROLLING SHUTTERS :				
13.1	Supplying and erecting including assembling, fitting and fixing rolling steel shutters and accessories from approved manufacturers including all fixtures, locking arrangements electric, wiring for motor drive, wiring for drive shutters, shop coating of anti-corrosive paint and two coats of epoxy paint of approved brand and shade after erection etc. all complete as per drawings & EIL specification no. 6922-575-16-48-SP-263B.				
	a) Electrically operated.	SQM.	310		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	b) Manually operated.	SQM.	10		
14.0	SANITATION / PLUMBING				
14.1	Supplying and erecting HDPE cylindrical and vertical water tank with closed top of SINTEX or approved equivalent of following capacity				
	a) 1500 LTR	NOS.	1		
	b) 2000 LTR	NOS.	1		
14.2	Supplying, fitting and fixing cast iron "Roof Drain" pipes at various elevations including shoe bends, junctions, sockets, adapters, brackets, hangers, supports etc jointing, caulking. Prime coat of painting with anticorrosive paint including all materials etc complete as per drawings and specifications.				
	a) 100 mm dia.	RM.	720		
	b) 150 mm dia.	RM.	1289		
14.3	Supplying, fitting and fixing Roof drain head various elevations, including connecting to roof drain pipes, caulking with lead supports, hangers etc, prime coat of painting with anti-corrosive paint with all materials as per drawings and specifications.				
	a) Fabricated from 6 mm M.S plates for				
	I) 100 mm pipe.	NOS.	10		
	II) 150 mm pipe.	NOS.	8		
	b) Alternate with C.I heads for				
	I) 100 mm pipe.	NOS.	8		
	II) 150mm pipe.	NOS.	71		
14.4	Supplying, fitting and fixing PVC "Roof Drain" pipes at various elevations including shoe bends, junctions, sockets, adapters, brackets, hangers, supports etc jointing, caulking. Prime coat of painting with anticorrosive paint including all materials etc complete as per drawings and specifications.				

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	a) 100 mm dia.	RM.	58		
	b) 150 mm dia.	RM.	463		
14.5	Supplying, fitting fixing the following best quality sanitary fixtures of approved make at various elevations as per specifications and drawings including all necessary accessories, cutting and making good openings, all connecting head pipes and bends with all materials etc. all complete.				
	a) Wash down type water closet and low level earthenware 10litre discharge capacity cistern including fittings, flush bends, supply connections syphon , front open, plastic seat with cover with integral `S' or `P' trap, painting with synthetic enamel paint with red oxide zinc chromate primer over exposed metallic surface etc. all complete as per EIL drawing no. 7-75-0062 and as per specification no. 6922-575-16-48-SP-263B.	NOS.	3		
	b) Indian type water closet "Orissa Pan" with integral footrest; 10litre capacity high level flushing cistern including valveless fittings, flush bends, supply connections syphon , front open, plastic seat with cover with integral `S' or `P' trap, painting etc. all complete as per EIL drawing no. 7-75-0060 and as per specification no. 6922-575-16-48-SP-263B.	NOS.	3		
	c) 610x400x380mm half stall type urinals with high level earthenware automatic cistern including fittings, flush bends, supply connections, concealed hangers and brackets, concealed piping work, waste fittings, MS channel trap, painting with synthetic enamel paint with red oxide zinc chromate primer over exposed metallic surface etc all complete as per EIL drawing no. 7-75-0063 and as per EIL specification no. 6922-575-16-48-SP-263B.	NOS.	12		
	d) Supplying and fixing 5 litres capacity Automatic flushing glazed earthenware high level cisterns for urinal including fixtures & fitting etc. all complete as per EIL specification no. 6922-575-16-48-SP-263B.	NOS.	5		
	e) -do- but 10 litre capacity	NOS.	2		
	f) -do- but 15 litre capacity	NOS.	2		
	g) 550 x 400 mm wall hung flat back wash basin including brackets, CP brass pillar cock, CP brass stop cock, waste pipe,fitting, fixing and making inlet & outlet connection for stop cock, painting with synthetic enamel paint with red oxide zinc chromate primer over exposed metallic surface etc. all complete as per EIL drawing no. 7-75-0064 & EIL specification no. 6922-575-16-48-SP-263B.	NOS.	6		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	h) Supply & fixing Chromium plated liquid soap container as per drawings & specifications.	NOS.	10		
	i) Supply & fixing 400mm X 550 mm X 5.5mm thk. round edge mirror with necessary fixtures as per drawings & specifications.	NOS.	10		
	j) Supply & fixing 600mmX120mmx4mm thk. clear glass shelves with CP brass brackets, guard rails etc. complete as per drawings & specifications.	NOS.	10		
	k) Supply & fixing chromium plated brass towel rail with all fittings etc, complete as per drawings & specifications.	NOS.	10		
	j) 12 mm dia CP. Brass ablution tap with all fittings complete.	NOS.	10		
	l) Supply & fixing marble partition with all fittings etc, complete as per drawings & specifications.	NOS.	6		
14.6	Supplying, fitting and fixing 100 mm dia inlet and 80/100 mm dia outlet SS floor drain with trap and with screwed or hinged CP brass gratings.	NOS.	10		
14.7	Providing gully trap chamber including supplying and fixing square mouth gully trap, gratings, CI frame and cover, cost of materials etc. all complete as per EIL drawing no. 7-65-0214 & specifications..	NOS.	10		
14.8	Providing inspection chamber including supplying and fixing manhole cover, grouting of pipes, cost of materials etc. all complete as per EIL drawing no. 7-65-0215 & specifications.	NOS.	2		
14.9	Providing neutralisation pit including supplying and fixing chequered plate cover, grouting of pipes, acid proof tile lining, rungs, hooks, cost of materials etc. all complete as per EIL drawing no. 7-65-0310 & specifications.	NOS.	1		
14.10	Providing septic tank with capacity for 25 persons including excavation and back filling at all depths, disposal of spoils with a lead of 1 KM; including dressing and levelling the same, masonry, concrete, reinforcement, shuttering, plastering, all fittings, heavy duty covers etc with all materials complete as per drawing no. 3-38144-00009 .	NOS.	2		
14.11	Construction of circular soak pit with 450 mm square dry brick honey comb shaft, surrounded by annular shafts of brick bats and brick ballast of 40 mm to 80mm nominal size including excavations, packing etc.all complete as per drawing no. 3-38144-00003 .	NOS.	2		
14.12	Supply and fixing of Gun Metal valves as per drawings & EIL specification no. 6-65-1070.				
	a) 12 mm dia.	NOS.	2		
	b) 19 mm dia.	NOS.	2		
	c) 25 mm dia.	NOS.	2		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	d) 32 mm dia.	NOS.	2		
	e) 50 mm dia.	NOS.	2		
	f) 75 mm dia.	NOS.	2		
14.13	Supply and fixing of CS gate valves as per drawings & specifications.				
	g) 150 mm dia.	NOS.	2		
	h) 200 mm dia.	NOS.	2		
	i) 250 mm dia.	NOS.	2		
	j) 300 mm dia.	NOS.	2		
14.14	Supplying, laying, fitting, fixing, jointing concealed GI pipes "J2A" for water lines at various elevations with all fittings stop cock, valves bends, elbows, tees, reducers etc including excavation, back filling, concrete supports, hangers, straps with all materials etc., complete as per EIL specification no. 6-65-1027, 6-65-1070 and drawings.				
	a) 12 mm	RM.	200		
	b) 19 mm	RM.	200		
	c) 25 mm	RM.	221		
	d) 32 mm	RM.	221		
	e) 50 mm	RM.	185		
	f) 75 mm	RM.	50		
14.15	Same as above but with insulation , laying on pipe racks including clamps, screws etc. all complete as per EIL specification no. 6-65-1027, 6-65-1070 and drawings.				

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	a) 12 mm	RM.	20		
	b) 19 mm	RM.	20		
	c) 25 mm	RM.	20		
	d) 32 mm	RM.	50		
	e) 50 mm	RM.	50		
	f) 75 mm	RM.	50		
14.16	Supplying, paying, fitting, fixing and jointing HCI pipes confirming to IS:3486 soil and drain pipes underground with all fittings bends, teas, reducers etc. including excavation, back filling, supports, caulking, chases, grooves, hangers, supports, straps etc. painting as specified all complete as per specification and drawings.				
	a) 100 mm dia.	RM.	250		
	b) 150 mm dia.	RM.	250		
	c) 200mm dia.	RM.	20		
14.17	Same as above but over ground , including vent pipes confirming to IS:1729 and cowls.				
	a) 100 mm dia.	RM.	50		
	b) 150 mm dia.	RM.	50		
	c) 200mm dia.	RM.	50		
14.18	Supplying and fixing CI heavy duty man hole cover of 50 cm dia of approved brand as per specification.	NOS.	20		
14.19	Supplying and fixing 4" dia. Vent pipes in OWS manholes including fixing the pipe on pipe racks at various elevations, necessary clamps, screws etc. all complete EIL specification no. 7-65-0212, 7-65-068 & as per specification.	RM.	200		
15.0	ROADS/PAVEMENTS				

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
15.1	Consolidating of sub base before providing stone soling/WBM with road roller including water if required to obtain 95% of lab dry density as per IS:2720, part-VIII including making good undulations etc. complete, as per EIL specification no. 6-65-0020, 6922-575-16-47-DB01, 6-65-1018.	SQM.	30279		
15.2	Supplying, laying and rolling, soling stones of consolidated thickness 200mm in 2 layers including spreading, binding materials, watering and rolling with road roller etc. complete as per specifications.	SQM.	60		
15.3	Supplying and laying WBM Gr-II in 75mm consolidated thickness with dry & wet rolling etc complete as per EIL specification no. 6922-6-65-0020, 6922-575-16-47-DB01, 6-65-1018.	SQM.	21166		
15.4	Supplying and laying WBM Gr-I in 100mm consolidated thickness with dry & wet rolling etc complete as per EIL specification no. 6922-6-65-0020, 6922-575-16-47-DB01, 6-65-1018.	SQM.	10000		
15.5	Providing and laying 50mm compacted thickness of bituminous macadam finish with 20mm thk. premix carpet (using hot mix plant) over WBM surface including provision of a tack coat & a seal coat, using bitumen of appropriate grade confirming to IS:73, preparation of surfaces, rolling etc. complete as per EIL specification no. 6922-6-65-0020, 6922-575-16-47-DB01, 6-65-1018.	SQM.	6292		
15.6	Supplying, laying and setting precast concrete edging blocks 300 X150mm (at base) and a min. length of 450mm (except at curves) in M20 grade concrete including cutting of trench and packing exterior face of blocks with stone chips and murrum including pointing the joints with CM1:4 etc. complete.	RM.	4000		
16.0	SURFACE AND UNDERGROUND DRAINS				
16.1	Supplying and installing of UPVC pipes of following diameter as per specifications and drawings, for cable ducts.				
	a) 100 mm dia.	RM.	300		
	b) 150 mm dia.	RM.	300		
	c) 200mm dia.	RM.	300		
16.2	Same as above but with pipe bends of required diameter.				
	a) 100 mm dia.	RM.	50		
	b) 150 mm dia.	RM.	50		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	c) 200mm dia.	RM.	50		
16.3	Supplying and installing of GI pipes of following diameter in concrete as per specifications and drawings, for cable ducts.				
	a) 100 mm dia.	RM.	150		
	b) 150 mm dia.	RM.	150		
	c) 200mm dia.	RM.	200		
16.4	Same as above but with pipe bends of required diameter.				
	a) 100 mm dia.	RM.	10		
	b) 150 mm dia.	RM.	10		
	c) 200mm dia.	RM.	10		
16.5	Providing and installing RCC Hume pipes of class P1 at all depths including bedding, jointing complete of the following diameters (excavation and back filling to measure separately) as per EIL specification no. 6-65-1035, 6-65-1030, 6-65-1042 and drawings.				
	a) 150 mm dia.	RM.	571		
	b) 200mm dia.	RM.	100		
	c) 250mm dia.	RM.	651		
	d) 300mm dia.	RM.	200		
	e) 450mm dia.	RM.	200		
	f) 600mm dia.	RM.	140		
16.6	Same as above but with class P2 pipe.				

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	a) 450 mm dia.	RM.	150		
	b) 600 mm dia.	RM.	150		
16.7	Supplying, laying and commissioning carbon steel pipe line below GL including coating and wrapping , joint testing, cost of materials etc. all complete as per EIL specification no. 6922-575-16-47-DB01, 6-65-1035, 6-65-1030, 6-65-1036, 6-79-0011 and drawings. (Earthwork excavation and back filling to be measured separately).				
	a) 100 mm dia.	RM.	50		
	b) 150 mm dia.	RM.	500		
	c) 200 mm dia.	RM.	1000		
	d) 300 mm dia.	RM.	1000		
	e) 400 mm dia.	RM.	500		
	f) 600 mm dia.	RM.	100		
16.8	Coating and wrapping of 150mm dia CS pipe including cost of materials etc. all complete as per EIL specification no. 6-79-0011.	RM.	100		
16.9	Supplying and fixing M.S drain funnels of following diameter as per EIL drawing no. 7-65-0266 and specifications.				
	a) 150mm dia.	NOS.	10		
	b) 200mm dia.	NOS.	10		
	c) 250mm dia.	NOS.	5		
17.00	MISCELLANEOUS ITEMS				
17.01	Supply, fabricating and fixing in position transformer gate/fencing as per drg. no. 1-38144-00006 including painting with aluminium paint two coats over suitable primer etc. complete. excavation, post etc to be measured separately.	SQM.	494		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
17.02	Supplying, fabricating and fixing in position G.I. MS rungs bent to shape/size as indicated on drgs. and specs.	KG	1000		
17.03	Supplying and spreading 40 mm size broken stone metal in transformer yards.	CUM.	4494		
17.04	Supplying and laying single layer brick flat soling including filling interstices with sand on compacted soil etc. completed.	SQM.	150		
17.05	Providing anti termite treatment of Chloropyrifos emulsifiable concentrates (1%) confirming to IS:8944 of buildings as per drawing no. 4-38144-00004, specs. and directed by the Engineer.	SQM.	10539		
17.06	Providing and laying bitumen sand carpet 50mm thk. in two layers of 30mm & 20mm for tank pads including finishing to correct slopes, light rolling etc. complete as per EIL specification no. 6-65-1022 & directions of the Engr.	SQM.	278		
17.07	Supplying, fitting and fixing Anchor Fastener (HILTI make or equivalent) of following diameter. Including Staging, Scaffolding at heights as per the site requirement required, all inclusive.				
	a) 6 mm diameter.	NOS.	50		
	b)10 mm diameter.	NOS.	50		
	c)12mm diameter.	NOS.	50		
	d)16mm diameter.	NOS.	50		
	e)20 mm diameter.	NOS.	50		
	f) 25 mm diameter.	NOS.	50		
17.08	Supplying and laying Fire Clay Brick (Type-1) 75mm thk. in two layers using high alumina cement @ fireclay grog (less than 1mm size) including cost of all materials etc. all complete as per EIL specification no. 6-79-03.	SQM.	509		
17.09	Supplying and laying GI pipe 200 mm dia including cost of all materials etc. all complete as per EIL specification	RM.	5000		
17.10	Laying buried pipe (approx dia 56 inch supplied by BHEL) including excavation, backfilling etc. all complete as per EIL specification.	RM.	1500		
18.0	FENCING				

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
18.1	Supplying and fixing chain link mesh conforming to IS:2721 , both ends bent type, mesh size 40mm, dia. of mesh wire 3.15 mm , with 2 nos line wire 4 mm dia. including tying to RCC /STEEL posts neatly with GI wire including cost of all materials etc. complete as per specifications.	SQM.	1000		
18.2	Supplying and fixing barbed wire fencing of approved quality, including tying to RCC / STEEL postd neatly with GI wires including cost of all materials etc. complete as per specifications.	RM.	2000		
18.3	GI Angle post	MT.	3		
18.4	Precast concrete poles	CUM.	10		
19.00	DISMANTLING OF STRUCTURES BY MECHANICAL/PNUMETIC HAMMER.				
19.1	Dismantling and removal before modification of the following items in the existing structures with all labour, tools, transport ,staging,scaffolding etc. at different heights ,all complete including delivering as directed by Engineer.				
	i) Height up to 5m high starting from 2.5M below ground.				
	a) Concrete (plain).	CUM.	600		
	b) Concrete (rein forced).	CUM.	80		
	c) Brickwork.	CUM.	80		
	d) Doors, windows, ventilators & rolling shutters.	SQM.	10		
	e) 50 Thk. premix carpet.	SQM.	5000		
	f) Pipe hand rail.	RM.	10		
	g) Structural steel.	MT.	50		
	ii) Height from 5m to 18m.				
	a) Concrete (rein forced).	CUM.	20		
	b) Brickwork.	CUM.	20		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	c) Doors, windows, ventilators & rolling shutters.	SQM.	10		
	d) Pipe hand rail.	RM.	10		
	e) Structural steel.	MT.	50		
20.00	GROUNDING				
20.1	Drawing from BHEL stores fabricating,erecting,testing ground conductors including cost of excavation, backfilling welding, construction of masonry chambers with MS covers (for electrodes),filling with sand, charcoal and salt (for test pits),labour, material etc. complete All ground conductors will be issued by BHEL free of cost.				
	a) Earth strip 1 no. 75x10 GI flat	R.M	15000		
	b) Earth rises 1 no.75x10 mm GI strip	R.M	5000		
	c) Test pit electrode treated earth pits as per drg. No.GT 57191 sheet 10 of 37.(Ref. specs)	Nos.	200		
	d) Laying Direct driven electrode as per drg. No.GT 57191 sheet 11 of 37.(Ref. specs).	Nos.	100		
21.00	RCC CHIMNEY				
21.01	Supplying, laying in position, compacting, curing as per specifications controlled concrete (using OPC/PPC) of the following grades (graded coarse aggregates of 20mm down,12mm down shall be used wherever applicable). (Cement to be supplied by BHEL free of cost as per SCC).				
	i) Grade M25 for shell including making recesses for platform support	CUM	1,650		
	ii) Grade M25 for platforms and landings	CUM	334		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
21.02	Halting the slipform at each corbel level & Construction of corbels by Supplying, laying in position, compacting, curing as per specifications Controlled concrete (using ordinary portland cement 43 grade conforming to IS:8112 of the following grades (graded coarse aggregates of 40mm down, 20mm down, 12mm down shall be used wherever applicable). Reinforcement item to be paid as: a) MS reinforcement conforming to IS:432. (Contractor to supply M S reinforcement conforming to IS432) and b) HSD reinforcement conforming to IS:1786 of minimum grade Fe 415/500. (BHEL will supply reinforcement TMT bar free of cost as per SCC). (Cement will be supplied by BHEL free of cost as per SCC).	NOS.	6		
21.03	Supplying, installing, dismantling and removing Slip form work for shell for all elevations above GL of form work as per drawings and specifications at all levels, using steel / plywood / wood shuttering.	SQ.M.	13,000		
21.04.A	Supplying & fabrication of structural steel work for internal support/restraint/ access plat forms / landings at different levels and steel staircase / ladder up to 100 m level including cost of steel, necessary staging, fixing to proper level etc. including supply and fixing with anchor fastener wherever required complete. (BHEL will supply rolled steel sections such as beams, channels, plates, angles, free of cost as per SCC).	MT	135		
21.04.B	Supplying & fabrication of structural steel work for internal support/restraint/ access plat forms / landings at different levels and steel staircase / ladder up to 100 m level including cost of steel, necessary staging, fixing to proper level etc. including supply and fixing with anchor fastener wherever required complete. (All steel materials to be supplied by contractor).	MT	5		
21.05	Supplying, fabrication and erection of structural steel work for rectangular / transition flue duct, ash hopper etc. made of plates with stiffeners and supporting structure at base. ie below 15m including cost of steel, necessary staging, fixing to proper level etc. complete as per drawings and specification. (BHEL will supply rolled steel sections such as beams, channels, plates, angles, free of cost as per SCC).	MT	10		
21.06	Supplying, fabrication and erection of mild steel flue conforming to IS : 2062 Grade A for chimney including one inner coat of primer, cost of steel, fixing etc. all complete as per drawings and specification. (BHEL will supply rolled steel sections such as beams, channels, plates, angles, free of cost as per SCC)	MT	350		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
21.07	Supplying, fabrication and erection of stainless steel flue conforming to AISI type 316L for top 6m of chimney including cost of steel, fixing etc all complete as per specification.	MT	35		
21.08	Supplying & fabrication of structural steel work hot dip galvanised for strakes including cost of steel, fixing to chimney shell at top with anchor fasteners etc. all complete as per drawings and specifications. (Contractor to supply all materials including galvanising).	MT	1		
21.09	Supplying and Erecting anti skid G.I floor gratings , Hand Welded type-2 (hot dip galvanised)and staircase steps all including all fasteners etc. complete as per drawings and specifications. (Contractor to supply all materials including galvanising).	M.T	10		
21.10	Supplying, fabricating and fixing G.I. hand rail including surface preparation and painting with synthetic enamel paint over red oxide primer. (Contractor to supply all materials including galvanising).	R.M	250		
21.11	Supplying laying and fixing 25mm thk. Acid resistant tiles over acid resistant mortar of average thickness 50 mm at various elevations including preparation of base, laying underbed, finishing, polishing etc., as per drawings and specifications.	SQ.M.	100		
21.12	Providing one coat of approved sodium silicate solution of brushable consistency to give a smooth and even shade on the inner surface of shell including cleaning and preparation of surface, scaffolding etc. all complete at all heights.	SQ.M.	5,000		
21.13	Providing complete protective coating system to outer surface of shell (measured in SQM) with 2 coats of high build epoxy finish coating cured with polyamide hardener @ 100µ DFT/coat to obtain 2x100=200µ DFT shall be applied after making surface preparation by means of shot blasting complete as per Table-8.0 of EIL specification no.6922-0642-PT-B08	SQ.M.	5,000		
21.14	Providing complete protective coating system to Flues (measured in SQM) with 3 coats of heat resistant synthetic medium based Aluminium paint @ 20µ DFT/coat over one coat of two component inorganic silicate coating primer @ 65µ DFT/coat shall be applied after making surface preparation by means of shot blasting complete as per Table-8.0 of EIL specification no.6922-0642-PT-B08	SQ.M.	8,500		
21.15	Providing complete protective coating system to structural steel work (measured in MT) with finish coat of 2 coats of Chlorinated rubber finish paint @ 40µ DFT/Coat including surface preparation by means of blasting complete as per Sl.no. 8.2 of Table-8.0 of EIL specification no.6922-0642-PT-B08	MT	140		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
21.16	Supplying and erecting and fixing on flues manholes 800 mm square made with twin 8 mm thick MS Plates with a gap of 75 mm and stiffener plates with necessary hinges, handles, lugs for fixing removable insulation etc. all complete as per drawings and specifications	NOS.	8		
21.17	Supply and erection of roof access cover with frame made of 6 mm thick stainless steel of type 316 L with locking lever and counter balance mechanism on both sides all complete as per drawing and specifications. (All steel materials to be supplied by contractor).	NOS.	2		
21.18	Supplying, fitting and fixing 150mm dia cast iron "Roof Drain" pipes at various elevations including drain head, shoe bends, junctions, sockets, adapters, brackets, hangers, supports etc jointing, caulking. Prime coat of painting with anticorrosive paint including all materials etc complete as per drawings and specifications.	RM	200		
21.19	Same as item 6.14 with 150 dia UPVC pipe with all UPVC fittings and fixtures as required	RM	200		
21.20	Supplying, transporting to site and fixing of preformed mineral wool insulation sheets of minimum thickness of 50 mm (25 mm in two layers) (Density 80kg/m ³) conforming to IS:8183 on the external surface of the flue including all operations such as lapping staggering, securing by means of studs of minimum thickness of 10 gauge, wrapping with 20 gauge wire mesh of 25 mm hexagonal pattern conforming to IS:3150, speed washers and binding with 16 gauge GI wire (over lapping for insulation over stiffeners and joint flanges will not be paid extra) all complete as per specification / drawings	SQM	4,000		
21.21	Same as 21.20, but for providing 6 layers (Density 250kg/m ³) of (25 mm thick each) insulation instead of two layers for the portion of the flue extending beyond the roof level all as per specification/drawings.	SQM	300		
21.22	Same as 21.20 but for providing each additional layer of 25 mm	SQM	150		
21.23	Supplying and fixing SS Cladding over SS Flue Can with all bolts, washers, fixtures etc. complete as per specification and drawings.	MT	6		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
21.24	Supplying, transporting to site, fabricating and erecting in position as per the manufacturer's requirement non-metallic expansion compensators (3000 mm ID and 550mm long flange to flange) including testing for impermeability and resistance to flue gas, with instructions for storage, fitting instructions, spare accessories, tools for installation etc. complete as per the specifications and manufacturer's recommendations. Expansion joint material shall be as per specification and shall be of High neck centre break design with Bolster and extended sleeve and bolster filled with glass fabric stuffed with glass felt B86of type KE FLUAFLEX 25X (Pre-assembled on steel parts)supplied by KELD ELLETOFT or approved equivalent.	NOS.	4		
21.25	Spares for item 21.24	Nos.	4		
21.26	Supplying, detailing, fabricating, transporting to site and erecting in position the following additional material required for flue support brackets, restraint/ support arrangements at all levels, including supporting ducting at flue inlet wind shield, etc all complete, as per specification/ drawings. (Contractor to supply all materials).				
	(a) 10 thick stainless steel plates, conforming to 304L for wear plates, bearing including CS screws of stainless steel etc.	MT	1		
	(b) 50 thick load bearing insulation blocks/sheets preset on MS plates as required.	SQM	5		
	(c) 75 thick load bearing insulation blocks/sheets preset on MS plates as required.	SQM	5		
	(d) Supplying, transporting and providing 25 dia 100 long dowels fabricated from load bearing insulation block materials.	Nos.	93		
	(e) Supplying, transporting and placing dumped 5 thick polytetra fluoro ethylene film on recessed bearing surfaces with approved adhesive.	SQM	5		
	(f) Supplying, transporting and placing 3 mm thick preformed lead sheets on bearing surfaces.	SQM	5		
21.27	Supplying and fixing removable sheeting of colour coated galvalume sheet 0.6 mm thick fixed on structural steel frame work with all bolts, washers, fixtures etc. complete as per specification and drawings.	SQM	27		
21.28	65 NB pipe sleeve 300 long with flange and blank plate, welded to steel flue for gas sampling	Nos.	7		
21.29	Providing and fixing in position 300 dia. S.S. air outlet pipes including lugs etc. all complete	Nos.	40		
21.30	Supplying and fixing S.S. insert plate in RCC slab at all ht. Including lugs etc. all complete	MT	2		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
21.31	Supplying and erecting in position the following additional materials at all levels etc all complete, as per specification/ drawings.				
	(a) SS 316 L stud M12x35 with nut	Nos.	200		
	(b) SS 316 L screw M12x20	Nos.	300		
	(c) SS 316 csk screw M10x15	Nos.	200		
	(d) SS 316/304L csk screw M6x20	Nos.	800		
	(e) M16x50 with helical spring locking	Nos.	2,400		
	(f) M16x50 with helical spring locking washer with nut and washer (All H.T. grade 8.8)	Nos.	600		
	(g) MS stud M16x55 with nut	Nos.	100		
	(h) MS stud M12x325 with 2 nuts	Nos.	40		
21.32	Supplying and erecting in position H.T. Bolt, nut and washer (8.8 grade) at all levels etc all complete, as per specification/ drawings				
	(a) M20x50	Nos.	400		
	(b) M20x55	Nos.	200		
	(c) M20x60	Nos.	20		
	(d) M20x65	Nos.	50		
	(e) M24x210	Nos.	50		
	(f) M24x55	Nos.	60		
	(g) M24x60	Nos.	250		
	(h) M24x65	Nos.	170		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
	(i) M24x70	Nos.	140		
	(j) M24x75	Nos.	160		
	(k) M24x80	Nos.	420		
	(l) M24x85	Nos.	50		
	(m) M24x90	Nos.	50		
	(n) M24x95	Nos.	50		
	(o) M24x165	Nos.	50		
21.33	Surface grinding of MS plate / SS plate (SS 316/304)	SQ.M	5		
21.34	Providing and fixing in position S.S. insert / plug embedded in load bearing insulation block including lugs etc. all complete	Nos.	150		
21.35	Miling on 32mm plate	SQ.M.	5		
22.00	ELECTRICAL WORK FOR CHIMNEY				
	Supply, installation, testing and commissioning of the following Items of approved quality as per specification / IS : Codes				
22.1	Lightning Protection & Earthing System Work shall be carried out as per EIL spec 7-51-0503 R2 (Copy enclosed)				
a.	70 sq.mm lead coated copper conductor	RM	50		
b.	Vertical air terminal (25 mm dia 2000 mm long copper rods lead coated)	Nos.	2		
c.	Test Link	Nos.	2		
d.	Erection hardware like Saddles with clamp for cleating lightning conductor	Lot	1		
e.	25 x 3 GI flat	RM	450		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
f.	12 SWS GI wire	RM	220		
g	Earth electrode with earth pit complete as per IS : 3043(Electrodes will be supplied by BHEL)	Nos.	0		
22.2	Lighting system				
a.	Twin Cluster LED type medium intensity (40W min) flashing lamps, maintenance free aviation lights as per aviation regulations and norms suitable for A.C . Mounting of aviation lamps & accessories shall be as per typical installation standard No.7-51-0220 Rev 02. (attached). Supply shall include twin cluster aviation lights/fixtures, G.I Pipe, Reducers, Suitable J.B, U Bolts etc	Set	9		
b.	Photo electric controller for aviation lighting	No.	1		
c.	Flash controller unit & all sub items for aviation lighting	No.	1		
d.	Non integral Industrial type, well glass dust tight with 70W HPSV lighting fixtures with external reflector	Nos.	150		
e.	Wall mounting bracket (1.5 m long 40 GI conduit with clamps) for 70 W HPSV light fixtures including fixing works	Lot	1		
f.	Hand rail mounting bracket (2.5 m long 40 GI conduit with clamps) for 70W HPSV lighting fixtures	Lot	1		
g.	240V, 1 phase, 32A weather proof power receptible with interlock switch	Nos.	12		
22.3	Junction Boxes & Panels				
a.	4 Pole MCB for aviation lighting in a box	No.	1		
b.	Junction boxes for aviation lighting & light fixtures	No.	10		
c.	Lighting distribution board with 63A TPN MCB isolator as incomer & adequate no.of outgoing feeders for controlling the lighting fixtures provided with suitable rating outgoing MCBs. Loading of outgoing feeders maximum to 1000W & 25% of outgoing feeders to be left as spares.	No.	2		
d.	Power distribution board with 63A TPN MCB isolator as incomer & no.of outgoing feeders of suitable rating MCBs for the control of power receptacles. Loading of outgoing feeders to maximum to 1000W & 25% of outgoing feeders to be left as spares.	No.	2		
22.4	Cabling System :				
a.	4C x 2.5sqmm Cu. (1100 V grade HRPVC insulated armoured cable)	mtr	500		

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
b.	4C x 4sqmm Cu. (1100 V grade HRPVC insulated armoured cable)	mtr	350		
c.	Cable glands & lugs	Lot	1		
	Note :				
1)	All accessories shall be provided by contractor(like junction boxes, clamps etc.) including cables as required for the approval of the Owner / Consultant and other statutory authorities. The contractor shall estimate the requirement and provide for the same in the price for the items for which the quantity is given as 'LOT'				
TOTAL		Rs.			

NOTES:

1	Unless indicated otherwise all items shall be inclusive of supply of material, labour consumables etc. Complete.
2	Earthing strips and electrodes will be supplied by BHEL, Hyderabad.
3	Painting on structural steel shall include surface preparation by SSPC-SP-10.
4	Quantities indicated for Tor steel and structural steel are actual requirement on work based on theoretical unit weights.
5	The quantities indicated for excavation is assuming 600 mm clearance beyond foundation dimensions.
6	The quantities indicated for back filling is assuming excavated earth from stack with in 100m lead will be used for back filling. If excavated earth is not suitable for back filling and if site conditions do not allow stack within 100m distance item at 2.1.1 a and b shall be operable for additional lead and use of bought out earth for back filling.
7	The quantity indicated against disposal of surplus earth is assuming back filling is done using excavated earth ie. Disposal quantity = excavated quantity - back filling quantity. In case site conditions do not permit use of excavated earth for back filling applicable rates shall be applicable for disposal.
8	Rate for excavation shall be inclusive of dewatering ground water.
9	Rates for windows, doors and partitions are including glazing.
10	This BOQ does not include fire proofing of structural steel work for Bypass stack, Inlet air filter etc.
11	This BOQ includes for miscellaneous civil works connected with Mechanical and Electrical packages such as A/C & Ventilation etc.
12	This BOQ includes for miscellaneous fabrication works such as for pipe cross over, monorail beams, handrails, walk ways and platforms around skids, base frames for Control Panels etc.
13	RCC quantity assumed in this BOQ are all in situ mix. If Pre mix concrete is required, contractor to take care for the same.
14	BHEL PSNR shall supply free cement, TMT/ Rebars, Angles, Channels, Beams, Plates and Chequered plates only. Supply of all other required materials shall be in the scope of bidder.

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SL.NO	DESCRIPTION	UNIT	QUANTITIES	UNIT RATE IN (RS.)	TOTAL AMOUNT IN (RS)
15	BHEL reserves its right either to incorporate grounding work (item no 20) in this contract or withdraw from the scope of this contract from total price of the contract as shown in schedule of Items & Rates/Prices.				
16	In case of omission in quoting any rate, the evaluation will be done considering the highest quoted rate obtained against that item but the work, if awarded, will be on the lowest quoted rate obtained against that item.				
17	The rate shall be entered in figures as well as in words. In case of difference in rates between words and figures, the lesser of the two will be treated as valid rate.				
18	The bidders shall enter both 'Unit Rate' & 'Amount'. In case of any mismatch between 'Total Amount based on Unit Rate' & 'Total Amount as quoted', the lower of the two shall be considered for evaluation and award.				
19	In the event of an error occurring in the amount column of schedule of quantities as a result of wrong calculation of the unit rate and quantity, the unit rate shall be regarded as firm and calculation shall be amended on the basis of the rate				
20	The quantities indicated against each item above are tentative and are liable to vary depending upon the site requirement. The contractor has to supply / install actual quantities as per advice of BHEL Engineer and accordingly the final contract price shall be adjusted on the basis of quantities actually erected at site & payment will also be regulated accordingly for the same. The contractor confirms that unit rate quoted above takes care of such variations during execution stage.				
21	Evaluation of the bids shall be done based on total price quoted				

(Signature and seal of the bidder)