

S. N	Item Description	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
	0.80 mm thick with zinc coating not less than 275 gm/m ²					41.20	RM	765	31518.00	DSR Item No- 12.7.1
21	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					50	RM	305.05	15252.50	DSR Item No- 12.41.2
	110 mm diameter									
22	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					12	Nos	129.85	1558.20	DSR Item No- 12.42.5.2
	Bend 87.5°					6	Nos	113.8	682.80	DSR Item No- 12.42.6.2
	Shoe (Plain)					48	Nos	50	2400.00	NSI
23	Providing & Fixing MS Clamp to hold wall mounted Rain water pipe in position including making necessary holes and fittings etc.					1	per cm dept h per 100 m	557.65	557.65	DSR Item No- 5.28
24	Providing and fixing in position 12mm thick bitumen impregnated fiber per cm board conforming to IS: 1838, including cost of primer, sealing compound depth per Grade-A in expansion joints.									

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S. N	Item Description	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
25	Supplying and fixing rolling shutters of approved make, made of required size M. S. laths, interlocked together through their entire length and jointed at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS. 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.									
26	80x0.90 mm M.S. laths with 0.90 mm thick top cover					15	Sqm	2654.25	39813.75	DSR Item No- 10.6.3
27	Providing and fixing ball bearing for rolling shutters					1	each	419.85	419.85	DSR Item No- 10.7
		Total of DSR Items							2916204.25	2915236.75
		Total of NSI Items							180499.20	

SI - Rs 29.15 per sqm

NSI - Rs 1.80 per sqm

S.N	Item Description	No	Qty	Unit	Rate	Amount	Item Reference
	Details of cost 3 m X 6 m and 150 mm thick area						
1	Stone Boulder 50 mm to 200 mm	1	2.7	Cum	850	2295.00	DSR_7753
2	Gravel 5 mm to 10 mm to fill voids	1	0.54	Cum	850	459.00	DSR_7754
3	Sand Filling	1	0.27	Cum	1953.05	527.32	DSR_2.27
4	Beldar to spread boulder & Gravel	1	2	Day	558	1116.00	DSR_0114
				Total		4397.32	
	Add 15% CPOH			15%		659.60	
				Total		5056.92	
				Total per Cum		1873.00	

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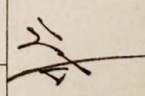
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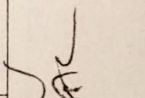
Qty Calculation of Truss (20x10)						
	10	x	20	m		
Size of shed						
No of trusses	5	Nos				
No of Bays	4	Nos				
length of bay/ purlin	5	m				
No. of purlins	12	Nos				
Width of building/ Width of truss	10	m				
No of columns per bay	2	Nos				
Length of top chord / sag rod	12.2	m				
Steel quantities of Trusses						
Description	Units	Nos.	Length m	Total length m	Weight per meter 'kg/m'	Total weight ' kgs'
Top & bottom chord (2 L 75X75X8 @17.8kg/m)	kg	5	24	120	17.8	2136
Chord members (2L 50X50X6 @ 9Kg/m)	kg	5	23	115	9	1035
purlins (MC 150 @ 16.8Kg/m)	kg	48	5	240	16.8	4032
Tie members (MC 150 @ 16.8Kg/m)	kg	22	5	110	16.8	1848
sag rod (12 dia @0.89kg/m)	kg	4	12.2	48.8	0.89	43.432
Cap plate (300x300x16thk@ 11.3kg/No)	kg	10	Nos		11.3	113
Area of GI roof sheet cover	244	sqm			Total weight of truss =	9668

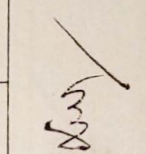
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Subwork 26: Construction of Electric Substation Shed at Processing Site

S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
1	Civil Work Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.									
	Upto 1.5 meter depth									
	For column foundation (250x300)	15	1.4	1.4	1.95	57.33				
	For PCC of Plinth Beam	1	64.32	0.43	0.25	6.91				
	Side Drain	1	77.04	0.96	0.4	29.58				
						93.83	Cum	252.3	23672.74	DSR Item No_2.8.1
2	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge.	1	20	15		300.00	Sqm	92.55	27765.00	DSR Item No_2.1.1
3	150 mm THK Well compacted stone soling voids should be filled and compacted with stone chipping and sand filling 60-90 mm stone size									
	For Grade Slab	1	20	15	0.15	45.00				
	For Entrance	2	5	3	0.15	4.50				
						49.50	Cum	1873.00	92713.50	UNIT ESTIMATE
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III); 6 graded stone aggregate 40 mm nominal size)									
	in column foundation	15	1.4	1.4	0.075	2.21				
	Below plinth beam	1	86.32	0.43	0.075	2.78				
	Plinth Protection	1	75.84	1	0.1	7.58				





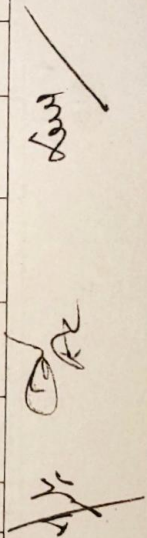




S. N	Item Description	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
	Below Side Drain	1	77.04	0.96	0.075	5.55				
	For Entrance	2	5	3	0.1	3.00				
	For Flooring over soiling	1	20	15	0.075	22.50				
						43.62	Cum	6126.25	267225.19	DSR Item No_4.1.6
3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	1	20	15		300.00	Sqm	498.35	149505.00	DSR Item No_11.3.1
4	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. "Excess/less cement used as per design mix is payable/recoverable separately).						RM	75.15	87700.05	DSR Item No_11.13.1
5										
	All works upto plinth level	15	1.2	1.2	0.35	7.56				
	Column foundation	15	0.25	0.3	1.5	1.69				
	Column 250x300	1	86.32	0.23	0.3	5.96				
	Plinth beam					15.20	Cum	7997.3	121587.59	DSR Item No_5.33.1
	All works above plinth level upto floor V level									

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S. N	Item Description	N o	Lengt h	Breadt h	Height	Qty	Unit	Rate	Amount	Item Reference
	Column (250x300) above plinth	15	0.25	0.3	6	6.75				
	Column (230x230) above plinth	6	0.23	0.23	3	0.95				
	Tie Beam	1	91	0.25	0.3	6.83				
	Chajja for Rolling shutter	2	5	0.75	0.15	1.13				
						15.65	Cum	9400.85	147143.98	DSR Item No_5.33.2
6	Centering and shuttering including strutting, propping etc. and removal of form work for Foundations, footings, bases for columns sides of foundation	15	4.8		0.35	25.2	sqm	284.85	7178.22	DSR Item No_5.9.1
	Columns, piers, abutments, pillars, posts and struts									
	Sides of column above foundation									
	Columns (250x300)	15	1.1		7.5	123.75				
	Column (230x230) above plinth	6	0.92		3	16.56				
	Lintels, beams, plinth beams, girders, bressumers and cantilevers					140.31	sqm	733.7	102945.45	DSR Item No_5.9.6
	Sides of Plinth Beam	10	86.3		0.6	51.79				
	Sides of tie beam	10	91.0		0.9	77.35				
						129.14	sqm	552.05	71292.84	DSR Item No_5.9.5
	Weather shade, Chajjas, corbels etc., including edges									
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level and above. Thermo-Mechanically Treated bars of grade Fe-500D	2	5	0.75		7.50	Sqm	766.75	5750.63	DSR Item No_5.9.19

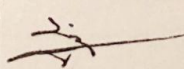
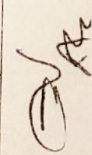





S. N	Item Description or more.	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
	Consider 1.5 % of Total volume					3633.27	Kg	83.5	303377.89	DSR Item No_5.22.6
	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in.									
	Wall-1 of Outer Drain	1	46.58	0.23	0.3	3.21				
	Wall-2 of Outer Drain	1	44.92	0.23	0.15	1.55				
						4.76	Cum	6376.25	30374.92	DSR Item No_6.1.1
8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level									
	Cement mortar 1:6 (1 cement : 6 coarse sand)									
	Center line	1	70.92	0.23	3.2	52.20				
	Deduction for Rolling shutter	2	5	0.23	3	-6.90				
						45.30	Cum	7590.45	343825.52	DSR Item No_6.4.2
9	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand) on Internal Surface									
	Internal side	1	70		3.5	245.00				
	Deduct rolling shutter opening	2	5		3	-30.00				
						215.00	Sqm	254.25	54663.75	DSR Item No_13.1.2
10	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand) in drain									
	wall-1	1	46.58		0.53	24.69				
	wall-2	1	44.92		0.53	23.81				
	Bottom	1	45.52	0.3		13.66				

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S. N	Item Description	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
11	20 mm cement plaster of mix : 1:4 (1 cement, 4 fine sand) on External Surface					62.15	Sqm	266.85	16584.99	DSR Item No_13.1.1
	External side	1	71.84		3.5	251.44				
	Deduct rolling shutter opening	2	5		3	-30.00				
12	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.					221.44	Sqm	365.25	80880.96	DSR Item No_13.3.1
13	Finishing walls with water proofing cement paint of required shade :New work (Two or more coats applied @ 3.84 kg/10 sqm)					436.44	Sqm	115.15	50256.07	DSR Item No_13.80
14	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :New work (two or more coats) over and including water thinnable priming coat with cement primer					221.44	Sqm	91.25	20206.40	DSR Item No_13.44.1
15	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete					215.00	Sqm	153.45	32991.75	DSR Item No_13.41.1
						12844.00	Kg	101.75	1306877.00	DSR Item No- 10.2

S. N	Item Description	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
16	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					335.60	Sqm	627.55	210605.78	DSR Item No- 12.50
17	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade. New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution					335.60	Sqm	138	46312.80	DSR Item No- 13.53.1
18	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work					428.13	Sqm	189.75	81238.30	DSR Item No- 13.52.1
19	Providing and Fixing Polypropylene sheet as per drawing & technical specification (1.2m x 4.8m) above bend lintel					70.00	Sqm	600	42000.00	NSI
20	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes									

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S. N	Item Description	N o	Lengt h	Breadt h	Height	Qty	Unit	Rate	Amount	Item Reference
	complete.					41.20	RM	765	31518.00	DSR Item No-12.7.1
21	0.80 mm thick with zinc coating not less than 275 gm/m ² Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.									
	110 mm diameter					50	RM	305.05	15252.50	DSR Item No-12.41.2
22	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.									
	Bend 87.5°					12	Nos	129.85	1558.20	DSR Item No-12.42.5.2
	Shoe (Plain)					6	Nos	113.8	682.80	DSR Item No-12.42.6.2
23	Providing & Fixing MS Clamp to hold wall mounted Rain water pipe in position including making necessary holes and fittings etc.					48	Nos	50	2400.00	NSI
24	Providing and fixing in position 12mm thick bitumen impregnated fiber per cm board conforming to IS: 1838; including cost of primer, sealing compound depth per Grade-A in expansion joints					1	per cm dept h per 100 m	557.65	557.65	DSR Item No- 5.28



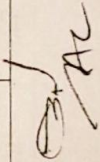
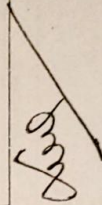


Subwork 27: Construction of Sanitary Landfill at Processing Site

S.N	Item Description	Qty	Unit	Rate	Amount	Item Reference
1	<p>Subgrade Preparation 300 mm</p> <p>Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)</p>	10231.20	Cum	<p>422.70</p> <p>746.8</p>	<p>7640660.16</p> <p>4324728.24</p>	<p>MORD 3-4</p> <p>DSR 2018, Subhead 2.0, Item No. 2.2, Page No. 76</p>
2	<p>Embankment Earthwork</p> <p>Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)</p>	<p>5502.00</p> <p>11004.00</p>	Cum	<p>53.10</p> <p>746.8</p>	<p>292156.2</p> <p>2921.56</p> <p>8217787.2</p>	<p>MORD 3-3</p> <p>DSR 2018, Subhead 2.0, Item No. 2.2, Page No. 76</p>
3	<p>Geosynthetic Clay Liner</p> <p>Procuring and laying Geo-synthetic Clay Liner (GCL) along the slopes and flat surfaces of the graded surface, conforming to the Specifications, Drawings and directions of the Engineer-in-charge including making of trench, anchoring of Geo-synthetic Clay Liner (GCL) into the trench / any other method as specified in the drawing, backfilling of trench, etc., complete with all lead and lifts including cost of Geo-synthetic Clay Liner (GCL), labour, all field lapping, Granule bonding, jointing, excavation for the trenches for anchoring, refilling & compaction of the same, all necessary field / laboratory tests, as per Standards, Specifications and as directed by the Engineer-in Charge. The physical, chemical and mechanical properties of Geo-synthetic Clay Liner (GCL), to be procured shall meet /</p>	38306.00	Sqm	244.00	9346664	NSI

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S.N	Item Description	Qty	Unit	Rate	Amount	Item Reference
4	<p>exceed the Specifications of the Geo-synthetic Research Institute (GRI). The Specifications of GRI / GCL 3, Revision 4, dated 28.03.2016.</p> <p>HDPE Liner 1.5 mm thk. Procuring and laying of 1.5mm thick HDPE Geomembrane along the slopes and flat surfaces of the graded surface, conforming to the Specifications. Drawings and directions of the Engineer-in-charge including making of trench, anchoring of Geomembrane into the trench / any other method as specified in the drawing, backfilling of trench, etc., complete with all lead and lifts including cost of HDPE Geomembrane, labour, all field lapping, thermal bonding, jointing, excavation for the trenches for anchoring, refilling & compaction of the same, all necessary field / laboratory tests, as per Standards. Specifications and as directed by the Engineer-in Charge.</p> <p>The physical, chemical and mechanical properties of 1.5 mm. thick HDPE Geomembrane, to be procured shall meet / exceed the Specifications of the Geosynthetic Research Institute (GRI). The Specifications of GRI / GM 13, Revision 14, dated 06.01.2016.</p>	38306.00	Sqm	314.00	12028084	NSI
5	<p>Geotextile 400 GSM Providing and laying needle punched and mechanically bonded non-woven geotextile 400 GSM of type II indigenously manufactured from high quality Polypropylene staple fibres on the prepared subgrade above drainage media including cost of non-woven geotextile 400 GSM, labour, all field lapping, thermal bonding, jointing, excavation for the trenches for anchoring, refilling & compaction of the same, all necessary field / laboratory tests, as per Standards. Specifications and as directed by the Engineer-in Charge.</p> <p>The physical, chemical and mechanical properties of non-woven geotextile 400 GSM, to be procured shall meet / exceed the Specifications of the Geo-synthetic Research Institute (GRI). The Specifications of GRI / GT 13 (b),</p>	73532.00	Sqm	126.00	9265032	NSI



S.N	Item Description Revision 1, dated 19.12.2012.	Qty	Unit	Rate	Amount	Item Reference
6	Drainage Layer 300 mm thick Supplying, filling, spreading & leveling gravels of size range 5mm to 10mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	10567.8	Cum	1691.00	17870149.8	Unit Estimate DSR
7	Leachet Pipe HDPE 280 mm Providing, Lowering into trenches with true to alignment, Laying & Jointing of full lengths of HDPE Pipes of specified grade as per IS:4984-1995 and specifications, with testing of pipe line including supply of jointing materials. PE-80 Grade:- 280 mm PN10	285	Rmt	4870.00 4600.00	1393650.00 1311000	UTTARAKHAND PEYJAL SANSADHAN VIKAS EVAM NIRMAN NIGAM SOR Water Supply Works 8.112
8	Leachet Pipe HDPE 110 mm Providing, Lowering into trenches with true to alignment, Laying & Jointing of full lengths of HDPE Pipes of specified grade as per IS:4984-1995 and specifications, with testing of pipe line including supply of jointing materials. PE-80 Grade:- 110 mm PN10	1214	Rmt	760.00 710.00	922640.00 861940	UTTARAKHAND PEYJAL SANSADHAN VIKAS EVAM NIRMAN NIGAM SOR Water Supply Works 8.104
9	Soil Cover 300 mm Providing earthwork in embankment with approved materials obtained from departmental land or other sources upto lead of 50 m including all lifts, laying in layers of 20cm to 30 cm thickness breaking clods, dressing to the required lines, curves, grades and sections watering and compaction with vibratory with Vsat attachment to achieve 95% of standard proctor density etc. complete	11491.80	Cum	422.70 746.8	4857583.86 8582076.24	3.4 MUMBAI DSR 2018, Subhead 2.0, Item No. 2.2, Page No 76

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S.N	Item Description	Qty	Unit	Rate	Amount	Item Reference
10	RCC pipe 450 mm Dia Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1.2 (1 cement : 2 fine sand) including testing of joints etc. complete 450 mm dia RCC pipes.	32	Rmt	2323.9	74364.8	DSR 2018 Subhead 19.0, Item No. 19.35.1, Page No. 362
11	Submersible Pump for Leachate Supply delivery at site with necessary packing, receiving, unloading, shifting, storing, installation, testing and commissioning of Non clog submersible pumping set of 2% Ni-CI Cascading, Impeller CF 8M, Shaft SS 410, mechanical seal with 10M Power & Control cable, 5M Galvanized Chain, 10M, 50mm MS galvanized Guide pipe, Duck Foot Bend, with Guide wire SS 304 etc. complete with all respect as per specification. Discharge 36 cum/hr and head 8 to 10 M	1	Nos	121900	121900	RUIDP SOR 2017, 18 1.1
	✓ SOR (PWD) - 11800163.70 =	118.00	Total of DSR items		42385038.2	
	SOR (UJN) - 2316290.00 =	23.16	Total of SOR items		2294840	
	NSI - 30761680.00 =	307.62	Total of NSI items		30639780	
	DSR - 17944514.60 or 179.45 lacs					

DSR 179.45 lacs / lead
 SOR (PWD) 118.00 lacs
 SOR (UJN) 23.16 lacs
 NSI 307.62 lacs
 Total 141.16 lacs



$(182 + 217) \times 2 = 798$
 Av. Mean from Above and

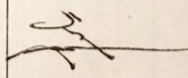
* Average length & width of embankment
 * 788 -> Perimeter of embankment

Estimation Sheet SLF - Sanitary Landfill at Lal Pani, Rishikesh						
Item no.	Description	Unit	L	B	H	Quantity
1	Subgrade Preparation 300mm	cu.m	34104.00	0.3		10231.20
2	Embankment Earthwork	cu.m	786	14		11004.00
3	GCL Layer	sq.m	38306.00			38306.00
4	HDPE Liner 1.5 mm thk.	sq.m	38306.00			38306.00
5	Geotextile 400 GSM	sq.m	73532.00			73532.00
6	Drainage Layer 300 mm thk.	cu.m	35226	0.3		10567.8
7	Leachet Pipe HDPE 280 mm	Rmt	285			285
8	Leachet Pipe HDPE 110 mm	Rmt	1214			1214
9	Soil Cover	cu.m	38306.00	0.3		11491.80
10	RCC hume pipe 450 mm	Rmt	32			32
11	Submersible Pump for Leachate	Nos.	1			1

Rate Analysis for Gravel Laying						
S.N	Item Description	No	Qty	Unit	Rate	Amount
	Details of cost 3 m X6 m and 150 mm thick area					
1	Stone Gravel 5 to 10mm	1	5.4	Cum	850	4590.00
2	Bedlar to spread and level Gravel	2	3	Day	558	3348.00
				Total		7938.00
	Add 15% CPOH			15%		1190.70
				Total		9128.70
				Total per Cum		1691.00

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Rate Analysis for 1.5 mm. thick HDPE Liner		
Ref:	M/s. MAHARSHREE GEOMEMBRANES QUOTATION dated 10.01.2020	
Sl. No.	Description	Amount
1	Basic rate	210.00
2	GST @ 18%	37.80
3	Cost of 1 Sqm. of material	247.80
4	Transportation Charges @ 2%	4.96
5	Cost of 1 Sqm. of material at site	252.76
6	Additional material including wastage, lapping & anchoring	6.00%
7	Cost of material at site (for 1 Sqm. of finished area)	267.92
8	Cost towards laying	17.85
9	Total cost of material including laying	285.77
10	Add: Contractor's profit @ 10%	28.58
11	Total cost per Sqm. of finished area	314.35
12		314.00
Note:	Prices may vary based on resin prices and freight charges prevailing at the time of procurement	



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Rate Analysis for 400 GSM Geotextile		
Ref.	M/s. MAHARSHREE GEOMEMBRANES QUOTATION dated 10.01.2020	
Sl. No.	Description	Amount
1	Basic rate	98.00
2	GST @ 12%	17.64
3	Cost of 1 Sqm. of material	115.64
4	Transportation Charges @ 2%	1.96
5	Cost of 1 Sqm. of material at site	117.60
6	Additional material including wastage, lapping & anchoring	8.00%
7	Cost of material at site (for 1 Sqm. of finished area)	105.84
8	Cost towards laying	8.33
9	Total cost of material including laying	114.17
10	Add: Contractor's profit @ 10%	11.42
11	Total cost per Sqm. of finished area	125.59
12	Say, Rs.	126.00
Note:	Prices may vary based on resin prices and freight charges prevailing at the time of procurement	

Rate Analysis for Geosynthetic Clay Liner

M/s. MAHARSHREE GEOMEMBRANES QUOTATION dated 10.01.2020

Sl. No.	Description	Amount
1	Basic rate	185.00
2	GST @ 12%	33.30
3	Cost of 1 Sqm. of material	218.30
4	Transportation Charges @ 2%	3.70
5	Cost of 1 Sqm. of material at site	222.00
6	Additional material including wastage, lapping & anchoring	8.00%
7	Cost of material at site (for 1 Sqm. of finished area)	199.80
8	Cost towards laying	22.20
9	Total cost of material including laying	222.00
10	Add: Contractor's profit @ 10%	22.20
11	Total cost per Sqm. of finished area	244.20
12	Say, Rs.	244.00

Note: Prices may vary based on resin prices and freight charges prevailing at the time of procurement

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Subwork 28: Construction of Ground Level Service Reservoir at Processing Site

Item No.	Description	Unit	Quantity	Rate		Amount (Rs.)		Item Reference
				DSR	SOR	DSR	SOR	
1	Supply of all materials, labour, T&P etc and construction of R.C.C. CWR of following capacities (in kiloliters) with M.S. ladder outside & inside of the tank, M.S. M.H. cover with locking arrangement, supply and fixing of outlet, inlet, over flow and wash out pipes with necessary sluice valves, pipe pieces (including cost of materials) flooring 0.60 M wide apron, painting on tank body vertical pipes, ladder, M.S. M.H. cover etc. complete with approved water proofing (apex) / enamel paint, testing, filling water for testing purpose etc. including supply of vertical pipes and specials, assuming bearing capacity as 8MT/M2. The Cost of CWRs of corresponding capacities has been given in Rupees.	KL	20.00		157900.00		143500.00	UTTARAKHAND PEYJAL SANSADHAN VIKAS EVAM NIRMAN NIGAM SOR Water Supply Works 28.11
2	Submersible Pump							
	Supply delivery at site with necessary packing, receiving, unloading, shifting, storing, installation, testing and commissioning of Non clog submersible pumping set of 2% Ni Cl Cascading, Impeller CF 8M, Shaft SS 410, mechanical seal with 10M Power & Control cable, 5M Galvanized Chain, 10M, 50mm MS galvanized Guide pipe, Duck FootBend, with Guide wire SS 304 etc. complete with all respect as per specification. Discharge 36 cum/hr and head 8 to 10 M	no.	1		121900		121900	RUIDP SOR 2017, 18.1.1 NSI
Sub Total							265400.00	

SI - Rs 1.58 lacs
NSI - Rs 1.22 lacs

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DSR - Nil
SOR (NSI) 1.58 lacs
NSI 1.22 lacs

Subwork 29: Construction of Leachate Drain around SLF at Processing Site

Leachate Drain Abstract Sheet - Rishikesh						
Item No.	Description	Unit	Quantity	Unit rate (Rs.)	Amount Rs.	
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil upto 1.5 m depth	cu.m	118.58	252.30	29916.47	
	DSR_2018 item 2.8.1					
2	100 mm THK Well compacted stone soling voids should be filled and compacted with stone chipping and sand filling 60-90 mm stone size	cu.m	8.55	1873.00	16014.15	
	Rate Analysis Stone Soling					
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cu.m	54.68	219.65	12009.36	
	DSR_2018 item 2.25					
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	cu.m	4.28	6788.60	29021.27	
	DSR_2018 item 4.1.3					

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Leachate Drain Abstract Sheet - Rishikesh

Item No.	Description	Unit	Quantity	Unit rate (Rs.)	Amount Rs.
5	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping out of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement, including admixture in recommended proportion as per IS:9103 to accelerate, retard setting of concrete, improve workability with out imparting strength and durability as per direction of engineer in charge (Note:- cement content considered in this item is @330 kg/cum. Excess /less cement used as per design mix is payable/recoverable separately.) All works Above plinth level floor up to Vlevel	cu.m	24.30	9400.85	228440.66
	DSR_2018_item no_5.33.2				
6	Steel reinforcement for RCC works including straining, cutting bending, placing in position and binding all complete thermo mechanically treated bars of grade fe-500 Dor more	kg	1579.50	83.50	131888.25
	DSR_2018_item no_5.22.6				
7	Centring and shuttering including strutting, propping etc. and removal of form for all heights foundation, footings, base of columns, etc. form mass concrete	sq.m	270.00	284.85	76909.50
	DSR_2018_item no_5.9.1				
	Total				524199.66

1997.30
194334.39
9400.85
228440.66

489836.89
NSI - 211 -
NSI -
NSI -
NSI -

520 MS
C Beam

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Leachate Drain Quantity Estimation - Rishikesh

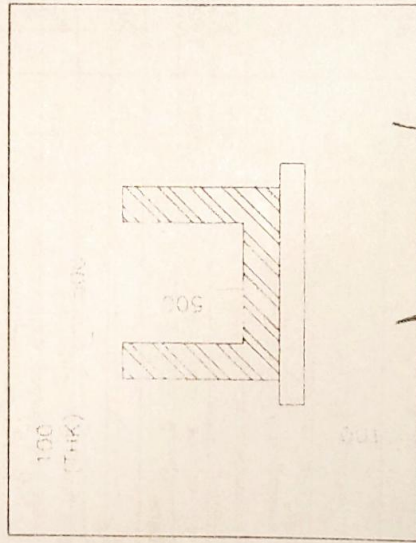
Item No.	Description	unit	L (m)	B (m)	H (m)	Quantity
1	Excavation (Lift upto 1.5m) By Mechanical Means					
	In drain trench	cu.m	90	1.55	0.85	118.575
2	Stone soling					
	For drain trench	cu.m	90	0.95	0.1	8.55
3	Filling (Contractors murrum)					
	In drain trench	cu.m	90	0.3	0.85	45.9
		cu.m	90	0.075	0.65	8.775
		cu.m	Total			54.675
4	PCC M15 With Natural sand					
	Bottom of drain trench	cu.m	90	0.95	0.05	4.275
5	RCC M25					
	Drain	cu.m	90	0.27		24.3
6	Reinforcement TMT - FE - 500					
	RCC Drain (65 kg/cu.m)	kg	65			1579.5
7	Formwork					
	Part 1 Bottom of drain	sq.m	90	1		90
	Part 2 Both sides of drain	sq.m	90	2		180
	Total	sq.m				270

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Stone Soling							Item Reference
S.N	Item Description	No	Qty	Unit	Rate	Amount	
	Details of cost 3 m X6 m and 150 mm thick area						
1	Stone Boulder 50 mm to 200 mm	1	2.7	Cum	850	2295.00	DSR 18_7753
2	Gravel 5 mm to 10 mm to fill voids	1	0.54	Cum	850	459.00	DSR 18_7754
3	Sand Filling	1	0.27	Cum	1953.05	527.32	DSR 18_2.27
4	Beldar to spread boulder & Gravel	1	2	Day	558	1116.00	DSR 18_0114
				Total		4397.32	
	Add 15% CPOH			15%		659.60	
				Total		5056.92	
				Total per Cum		1873.00	



1873.00

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Subwork 30: Electrical at Processing Site

Sl. No.	Work Description	Unit	Qty.	Rate in Rs.		Amount in Rs		Item Reference
				DSR	NSI	DSR	NSI	
1	Supplying installation testing and commissioning of LT Panel, Automatic power factor corrector panel, Essential Panel i/c Earthing, inter connecting power cables in sub- station, safety equipments.	KVA	400	9000		3600000		DSR E/M Plinth area rates 2019- sl. 1 <u>HSI</u>
2	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Light Point/Fan Points -							
	Group B	no	600	937.00		562200		DSR 18_Item No_1.1.2
3	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	m	300	265.00		79500		DSR 18_Item No_1.5
4	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.							

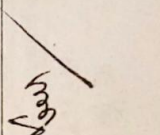
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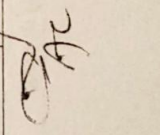


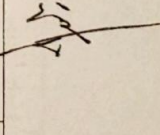
Sl. No.	Work Description	Unit	Qty.	Rate in Rs.		Amount in Rs		Item Reference
				DSR	NSI	DSR	NSI	
	5/6 A switch	No.	30	85.00 ✓		2550		DSR 18_Item No_1.24.1
	3 pin 5/6 A socket outlet	No.	30	111.00 ✓		3330		DSR 18_Item No_1.24.4
	15A Switch	No.	15	132.00 ✓		1980		DSR 18_Item No_1.24.3
	15A Socket	No.	15	175.00 ✓		2625	1665.00	DSR 18_Item No_1.24.5
				111.00				
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required	No.	70	401.00 ✓		28070		DSR 18_Item No_1.31
6	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.25mm	m	500	90.00 ✓		45000		DSR 18_Item No_1.21.2
7	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.							
	3 x 1.5 sq. mm	m	300	54.00 ✓		16200		DSR 18_Item No_1.17.3
	2x4 sqmm	m	200	86.00 ✓		17200		DSR 18_Item No_1.17.20
8	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as							

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Sl. No.	Work Description	Unit	Qty.	Rate in Rs.		Amount in Rs		Item Reference
				DSR	NSI	DSR	NSI	
	required.							
	4 X 2.5 sq. mm + 2 X 2.5 sq. mm. earth wire	m	100	339.00		33900		DSR 18_Item No_1.7.7
9	Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required							
	32A	no.	5	2,075.00		10375		DSR 18_Item No_2.1.1
	63A	no.	5	2,923.00		14615		DSR 18_Item No_2.1.2
10	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	no.	4	226.00		904		DSR 18_Item No_2.21
11	P&F of Heavy duty capacitor start 900/1400 RPM single phase ISI marked Exhaust fan, IS:2312 marked including making connections testing etc. as required.	no.	8		2,873.50		22,988.00	NSI
12	P & F of IP20 LED batten type light fixture made from CRCA sheet stile housing suitable for mounting LED tube system (integral driver). Power consumption of 18W/36W, 1500/3000 lumens, system lumen efficiency 80 lm/ watt output, life time of 50000 burning hours with 70% initial lumen maintained CCT 3000° K, 4000° K and 6000° K, 2x18W	no.	600		1,027.00		616,200.00	NSI









Sl. No.	Work Description	Unit	Qty.	Rate in Rs.		Amount in Rs		Item Reference
				DSR	NSI	DSR	NSI	
13	BULK HEAD -P & F of IP65 IK10 rated LED bulk head type light fixture made from CRCA sheet steel housing suitable for mounting LED tube system (integral driver). Power consumption of 10-15W. 500-600 lumens system lumen efficacy 70 lm/watt output suitable for 1x100 W GLS/9W CFL bulk head fixtures, life time of 50000 burning hours with 70% initial lumen maintained. CCT 3000° K, 4000° K and 6000° K. Fixture shall be in compliance with CE & KEMA standards.	no.	10	1,399.90		13,999.00		NSI
14	Supply and erection of Decorative Cast Iron pole as per approved design of following length with base plate on the cement concrete foundation of M-15 grade (1:1.5:3) with the help of anchor bolts of grade 6.8 (IS 1367 P III). The pole shall be made of Cast Iron as per IS 210:1993, precision machining and filling job to achieve good finish and a fine coat of primer on each element before assembling. After assembling of each element one coat of primer and two coats of P.U. paint are applied. Approved coloured UV resist coating of mat/ glossy/ metallic finish followed after air drying of pole. The pole shall have a weatherproof flush door and locking arrangements, two/ one arm bracket of length of 430/380mm complete in all respect. 8M	no.	60	43,462.00		2,607,720.00		NSI
15	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V. on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	no.	10	3,068.00		30680		DSR 18_Item No_2_4.1

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Sl. No.	Work Description	Unit	Qty.	Rate in Rs.		Amount in Rs		Item Reference
				DSR	NSI	DSR	NSI	
16	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	no.	50	826.00		41300		DSR 18_Item No_2_10.4
17	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	no.	4	5,308.00		21232		DSR 18_Item No_5.2
18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	m	500	57.00		28500		DSR 18_Item No_5.16
19	Terminal equipment at Consumer end including HT Cables, CTPT, meter cubicles etc.	Lot	1	150,000.00				NSI
20	Line cost - Overhead line cost	m	1000	4,000.00				NSI
21	Underground Cabling	m	10	15,000.00				NSI
				Total of DSR		4,540,161.00	93920	0.00 or 9.39Lk
				Total of NSI		7,560,907.00	1160907	

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SI (D.S.R.) - 9.39 lakhs
NSI Rs 68.61 L
NSI (D.S.R) Rs 43.00 L