

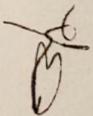


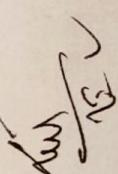
S. N	Item Description	No	Length h	Breadth h	Height	Qty 0	Unit	Rate	Amount	Item Reference
16	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per 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.									
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		244.00				Sqm	627.55	153122.20	DSR Item No- 12.5
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		244.00				Sqm	138	33672.00	DSR Item No- 13.53.1
19	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 complete.		322.27				Sqm	189.75	61150.10	DSR Item No- 13.52.1

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S. N	Item Description	No	Lengt h	Breadt h	Height	Qty	Unit	Rate	Amount	Item Reference
	Deduct rolling shutter opening	1	5		3	-15.00	Sqm	254.25	41951.25	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				
						62.15	Sqm	266.85	16584.99	DSR Item No_13.1.1
11	20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) on External Surface									
	External side	1	61.84		3	185.52				
	Deduct rolling shutter opening	1	5		3	-15.00				
						170.52	Sqm	365.25	62282.43	DSR Item No_13.3.1
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.									
						335.52	Sqm	115.15	38635.13	DSR Item No_13.80
13	Finishing walls with water proofing cement paint of required shade :New work (Two or more coats applied @ 3.84 kg/10 sqm)									
	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									
						170.52	Sqm	91.25	15559.95	DSR Item No_13.44.1
14										
						165.00	Sqm	153.45	25319.25	DSR Item No_13.41.1
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									
						9668.0	Kg	101.75	983719.00	DSR Item No-10.2

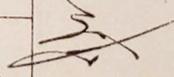








S. No	Item Description	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
16	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per 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.					0				
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					244.00	Sqm	627.55	153122.20	DSR Item No- 12.5
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					244.00	Sqm	138	33672.00	DSR Item No- 13.53.1
19	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 complete.					322.27	Sqm	189.75	61150.10	DSR Item No- 13.52.1


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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
20	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
21	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
22	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
23	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

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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	

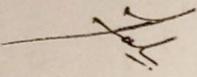
Qty Calculation of Truss of Open Shed (20x10)							
Size of shed	10	x	20				
No of trusses	5	Nos					
No of Bays	4	Nos					
length of bay/ purlin	5	m					
No. of purlins	12	Nos					
Width of building/ Width of truss	10	m					
No of columns per bay	2	Nos					
Length of top chord / sag rod	12.2	m					
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			0.89	43.432	
Cap plate (300x300x16thk@ 11.3kg/No)	kg	10	Nos	48.8	11.3	113	
Area of GI roof sheet cover	244	sqm			Total weight of truss	9668	

Subwork 6: Construction of Internal Road and KC Drain at Dry waste collection center at 2 places in Doiwala

S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
1	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 1 as per Technical Specification Clause 404.	1	30	3.75	0.1	11.25	cum	1818.8	20461.5	MORD Block 33 Doiwala_item No_4-7-1-B
					0.15	16.88			30692.25	
	Grading 2 By Mechanical Means	1	30	3.75	0.1	11.25	cum	1897.6	21348	MORD Block 33 Doiwala_item No_4-7-2-B
2	Concrete with cement, coarse sand and 40 mm gauge stone ballast in proportion 1:3:6 in foundations and floors including supply of all material, labour and T&P etc. required for proper completion of the work. as per drawings and technical specifications Clause 802, 803, 1202 & 1203	1	30	3.75	0.1	11.25	cum	4445.8	50015.25	MORD Block 33 Doiwala Item No_11-4-1-1

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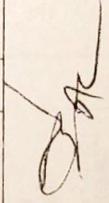
S. N	Item Description	N	Length h	Breadth h	Height t	Qty	Uni t	Rate	Amount	Item Reference
3	Construction of Un-reinforced Cement concrete pavement thickness as per design, over a prepared sub base with 43 grade cement or any other type PCC Grade M-30, coarse and fine aggregates conforming to IS- 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (Steel channel, laying and fixing of wedges, steel plates including levelling the formwork and laying and fixing of 125 micron thick polythene film, as per drawing), spreading the concrete with shovels rakes, compacted using needle and plate vibrators, finished in continuous operation and curing of concrete slabs for 14 days, using curing compound where specified and water finishing to lines and grade as per drawings and technical specifications	1	30	3.75	0.15	16.875	cum	5,375.40	90709.875	Misc Block 33 Doriwala Item No_2-3

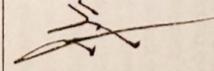




Subwork 7: Construction of Entrance Gate at Dry waste collection Centre at 2 places in Doiwala

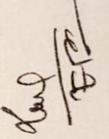
S. N	Item Description	No	Length h	Breadth h	Height	Qty	Unit	Rate	Amount	Item Reference
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift 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	2	1.65	1.65	1.075	5.85				
						5.85	Cu m	252.3	1476.81	DSR Item No_2.8.1
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).									
	For Column foundation	2	1.65	1.65	0.075	0.41				
						0.41	Cu m	6126.2 5	2501.81	DSR Item No_4.1.6





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S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
3	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)									
3.1	All works upto plinth level									
	Column foundation	2	1.5	1.5	0.3	1.35				
	Column above foundation upto plinth	2	0.3	0.3	0.7	0.13				
3.2	All works above plinth level upto floor V level									
	Column above plinth	2	0.3	0.3	1.5	0.27				
4	Centering and shuttering including strutting, propping etc. and removal of form work for :									
4.1	Foundations, footings, bases for columns									
	sides of column foundation	2	6		0.3	3.60	sqm	284.85	1025.46	DSR Item No_5.9.1
4.2	Columns, piers, abutments, pillars, posts and struts									
	sides of column	2	1.2		2.2	5.28	sqm	733.7	3873.94	DSR Item No_5.9.6




S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.									
5.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.					174.60	Kg	83.5	14579.10	DSR Item No_5.22.6
5.2	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.									
						225	Kg	86.05	19361.25	DSR Item No_10.1
	Total								57160.6	
	Total at 2 places								114321.2	


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Subwork 8: Construction of Barbed Wire Fencing at Dry waste collection Centre at 2 places in Doiwala

S.N	Item Description	Qty	Unit	Rate	Amount	Item Reference
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift 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.	4.21	Cum	252.3	1062.688	DSR Item No_2.8.1
2	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.	2	Cum	219.65	439.3	DSR Item No_2.25
3	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).	4.21	Cum	6126.25	25803.77	DSR Item No_4.1.6
4	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar ribs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	2.50	Cum	26754.35	66778.86	DSR_Item No 16.15.1
5	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar ribs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used	440.27	Mtr	12	5283.2	DSR_Item No 16.17.1
	With G.I. barbed wire				99367.81	
	TOTAL				198735.6	

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NSI → NIL

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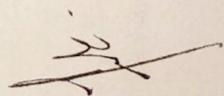
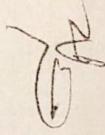
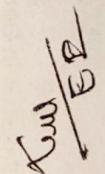
Subwork 9: Construction of Leachate Tank at Dry waste collection Centre at 2 places in Doiwala

S. N	Item Description	No	Lengt h	Breadt h	Height/Dept h	Qty	Unit	Rate	Amount	Item Reference
	Size		1.5	1.5	1.5					
	Wall thick		0.2							
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. Upto 1.5 meter depth	1	2.5	2.5	1.5	9.375	Cu m	181.85	1704.844	DSR_Item No_2.6.1
2	Beyond 1.5 meter upto 3.0 meter	1	2.5	2.5	0.3	1.875	Cu m	271.89	509.7938	DSR_Item No_2.6.1 +2.26.1
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1.4.8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	1	2.5	2.5	0.1	0.625	Cu m	5789.6	3618.5	DSR_Item No_4.1.8
4	Providing and laying in position machine batched and machine mixed design mix M-30 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.									
	Bottom of tank	1	2.3	2.3	0.2	1.058				
	Wall-1	2	1.7	0.2	1.5	0.51				
	Wall-2	2	1.7	0.2	1.5	0.51				

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S. N	Item Description	No	Length h	Breadth h	Height/Dept h	Qty	Unit	Rate	Amount	Item Reference
						2.07 8	Cu m	9470. 6	19679.91	DSR_Item No_ 5.33.2 + 5.34.1
5	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 or more.									
	Consider 1.5 % of Total volume					245	Kg	83.5	20431.16	DSR Item No_ 5.22.6
6	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Foundations, footings, bases of columns, etc. for mass concrete									
	Sides of Foundation	2	4.6		0.2	1.84	Sq m	284.8 5	524.124	DSR Item No_ 5.9.1
7	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.									
	Wall-1	4	1.7		1.5	10.2				
	Wall-2	4	1.7		1.5	10.2				
	Total					20.4	Sq m	609.3	12429.72	DSR Item No_ 5.9.2
	Total at 2 places								58898.04 117796.0 8	


 31- Rs 1.18 lacs
 Nil - Nil -

 Nil


Subwork 10: Construction of Dry waste segregation bins at Dry waste collection Centre at 2 places in Doiwala

Sr.No.	Description	Unit	Quantity	Unit Rate	Amount in Lakhs Rs.
1	Mesh bins for segregated dry waste	nos	28	8258.10	2.31
	Total				2.31
	Total at two places				4.62

Rate Analysis for Mesh bins for segregated dry waste

Length of Bin	2000	mm
Width of Bin	1000	mm
Height of Bin	1000	mm

Sr. No.	Description	Value	Unit	Reference
1	Cross Section area of wire (4mm)	1.25714E-05	sq.m	
2	Length of wire	256	m	
3	Volume of wire	0.003218	cu.m	
4	Density of steel wire	7850	kg/cu.m	
5	Weight of wire	25.264	kg	
6	Length of Angle (50mm*50mm*4mm)	18	m	
7	Weight of angle	3	kg/m	IS 808:1989, Section 5 (equal leg angles) (Pg.8)
8	Total Weight of angle	54	kg	
9	Total weight of steel	79.264	kg	
10	Cost of steel	86.05	Rs./kg	CPWD DSR Volume 1, 2018: Subhead 10.0 Steel Work, 10.1 (Pg 183)

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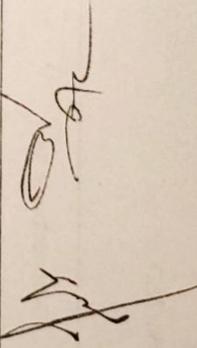
Sr. No.	Description	Value	Unit	Reference
11	Total cost of steel	6820.63	Rs.	
12	Cost Index Doiwala	2.00		
13	Total Cost	6957.04		
12	Fabrication cost (15% extra)	1043.56	Rs.	
13	Half day blacksmith	257.50	Rs.	
13	Total cost of Bin	8258.10	Rs.	

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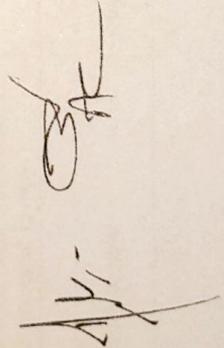
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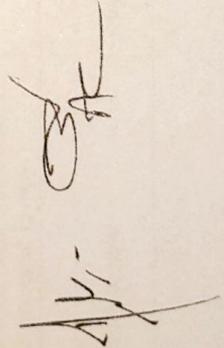
Subwork 11: Site Development and Barbed Wire Fencing at Processing Site

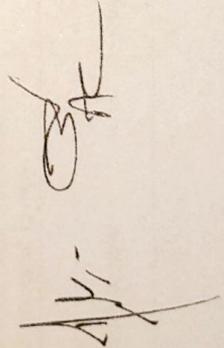
SI No	Reference	Description of Item	Unit	Qty	Rate			Amount			
					DSR	SOR	NSI	DSR	SOR	NSI	
A	Civil Work										
1	DSR_Item No 2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	SQM	1655.5	12.55			20776.525			
2	DSR_Item No 2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared	SQM	1655.5	6.4			10595.2			
3	DSR_Item No 2.33	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material									
3.1	DSR_Item No 2.33.1	Beyond 30 cm girth upto and including 60 cm girth	Each	5	380.6			1903			
3.2	DSR_Item No 2.33.2	Beyond 60 cm girth upto and including 120 cm girth	Each	3	1694.4			5083.2			
4	NSI	Filling excavated earth brought from outside (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. Earth shall be free from any wood partial, stone, suitable for backfilling as per Indian standard	Cum	993.3			450				446,985.00


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Sl No	Reference	Description of Item	Unit	Qty	Rate			Amount		
					DSR	SOR	NSI	DSR	SOR	NSI
5	DSR Item No_2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift 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.	Cum	14.42	252.3			3637.66		
6	DSR Item No_2.25	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.	Cum	12.00	219.65			2635.80		
7	DSR Item No_4.1.6	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).	Cum	14.42	6126.25			88328.27		
8	DSR Item No 16.15.1	R.C.C. Standards post/struts/rails/ piles of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar ribs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	Cum	8.54	26754.35			228589.17		



 Dy. - 

 By 



Sl No	Reference	Description of item	Unit	Qty	Rate			Amount		
					DSR	SOR	NSI	DSR	SOR	NSI
9	DSR_Item No 16.17	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately). - Payment to be made per metre cost of total length of barbed wire used	metre	1507.07	12			18084.8		
9.1	DSR_Item No 16.17.1	With G.I. barbed wire						379633.62		446985
		TOTAL								

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ER*

SI - R 380 3.80 lacs
NSI - Nil -

Subwork 12: Construction of Internal road with KC Drain at Processing Site

S. N	Item Description	No	Lengt h	Breadt h	Heigh t	Qty	Uni t	Rate	Amount	Item Reference
1	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 1 as per Technical Specification Clause 404.	1	120	3.75	0.1	45	cum	1818.8	81846	MORD Block 33 Doiwala_item No_4-7-1-B
		1	120	3.75	0.1	45	cum	1897.6	85392	MORD Block 33 Doiwala_item No_4-7-2-B
2	Grading 1 By Mechanical Means Grading 2 By Mechanical Means Concrete with cement, coarse sand and 40 mm gauge stone ballast in proportion 1:3:6 in foundations and floors including supply of all material, labour and T&P etc. required for proper completion of the work. as per drawings and technical specifications Clause 802, 803, 1202 & 1203	1	120	3.75	0.1	45	cum	4445.8	200061	MORD Block 33 Doiwala Item No_11-4-1-1

0.15 6750 ✓ 122769.00

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S. No	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
3	Construction of Un-reinforced, Cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type PCC Grade M-30, coarse and fine aggregates conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (Steel channel, laying and fixing of wedges, steel plates including levelling the formwork and laying and fixing of 125 micron thick polythene film, as per drawing), spreading the concrete with shovels, rakes, compacted using needle, and plate vibrators, finished in continuous operation and curing of concrete slabs for 14 days, using curing compound where specified and water finishing to lines and grade as per drawings and technical specifications	1	120	3.75	0.15	67.5	cum	5,375.40	362839.5	Misc Block 33 Doiwala Item No_ 2-3

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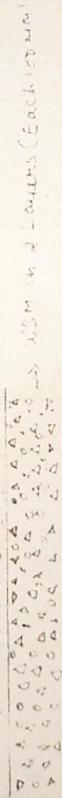


S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
4	Construction of cement concrete kerb with channel with top and bottom width 115 and 165 mm respectively, 250 mm high in M20 grade PCC on M10 grade foundation 150 mm thick, kerb channel 300 mm wide, 50 mm thick in PCC M20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 408 Using Concrete Mixer	2	120			240	Rm	537.8	129072	Morth Block 33 Doiwala Item No_ 8-2-A
	TOTAL								859,210.50	814741-50

SI (SOR) - Rs 8.15 (per)

→ M-10 Concrete (150mm)
→ M-10 Concrete (100mm)

MSI - NI

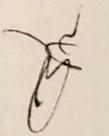
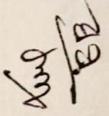


TYPICAL CROSS SECTION OF ROAD

For [Signature] Ac [Signature] $\frac{Rup}{ER}$

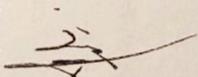
Subwork 13: Construction of Entrance Gate at Processing Site

S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift 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	2	1.65	1.65	1.075	5.85				
						5.85	Cu m	252.3	1476.81	DSR Item No_2_8_1
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).									
	For Column foundation	2	1.65	1.65	0.075	0.41				
						0.41	Cu m	6126.25	2501.81	DSR Item No_4_1_6
3	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).									
3.1	All works upto plinth level	2	1.5	1.5	0.3	1.35				
	Column foundation									



S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
	Column above foundation upto plinth	2	0.3	0.3	0.7	0.13				
						1.48	Cum	7997.3	11804.01	DSR Item No_5.33.1
3.2	All works above plinth level upto floor V level	2	0.3	0.3	1.5	0.27				
	Column above plinth					0.27	Cum	9400.85	2538.23	DSR Item No_5.33.2
4	Centering and shuttering including strutting, propping etc. and removal of form work for :									
4.1	Foundations, footings, bases for columns	2	6		0.3	3.60	sqm	284.85	1025.46	DSR Item No_5.9.1
4.2	Columns, piers, abutments, pillars, posts and struts	2	1.2		2.2	5.28	sqm	733.7	3873.94	DSR Item No_5.9.6
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.									
5.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.					174.60	Kg	83.5	14579.10	DSR Item No_5.22.6
5.2	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete									
						225	Kg	86.05	19361.25	DSR Item No_10.1
							Total		57160.60	



 S1 - Rs 0.57 lacs

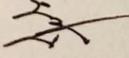
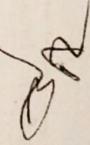
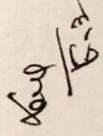
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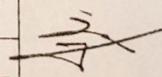
Subwork 14: Construction of Septic Tank at Processing Site

Quantity Calculation of Septic Tank for 20 Users				
Description	L	B	H	Wall Thick
Internal size of Main chamber	2.3	1.1	1.8	0.23
Cleaning Chamber	0.9	0.9	1.8	0.23

S.N	Particulars of items	No	Length	Breadth	Height/Depth	Qty	Unit	Rate	Amount	Item Reference
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.	1	3.96	2.76	2	21.86				
	Main chamber	1	1.36	1.13	2	3.07				
	Cleaning chamber					24.93	cum	181.85	4534.03	DSR item 2.6.1
	Disposal of excavated									
	Main chamber	1	2.76	1.56	2	8.61				
	Cleaning chamber	1	1.36	1.13	2	3.07				
						11.68	cum			
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 upto 50 m					13.25	cum	219.65	2909.92	DSR item 2.25

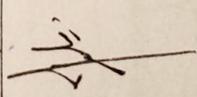




S.N	Particulars of items	No	Length	Breadth	Height/Depth	Qty	Unit	Rate	Amount	Item Reference
4	Providing and laying in position cement concrete of 1:2:4 (1Cement : 2 course and sand (zone-III); 4 graded stone aggregate 20 mm nominal size) excluding the cost of centring shuttering-All work up to plinth level									
	Main chamber	1	2.76	1.56	0.2	0.86				
	Cleaning chamber	1	1.36	1.13	0.2	0.31				
						1.17	cum	6788.6	7932.34	DSR_item no_4.1.3
5	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)									
	wall-1 of Main chamber c/c	2	2.53	0.23	1.8	2.09				
	wall-2 of Main chamber c/c	2	1.33	0.23	1.8	1.10				
	wall-1 of cleaning chamber c/c	2	1.015	0.23	1.8	0.84				
	wall-2 of cleaning chamber c/c	1	1.36	0.23	1.8	0.56				
6	12 mm thick Inside & Outside Plaster CM (1:4)									
						4.60	cum	6157.45	28321.4	DSR_item no_6.1.2
						40.00	SQM	266.85	10672.9	DSR_item no_13.1.1
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III); 3 graded stone aggregate 20 mm nominal size).									
	Baffle Wall -1	1	1.4	0.04	0.3	0.02				
	Baffle Wall -2	1	1.4	0.04	1.26	0.07				


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 A.K.
 B.N.



S.N	Particulars of items	No	Length	Breadth	Height/Depth	Qty	Unit	Rate	Amount	Item Reference
	Top slab	1	2.76	1.56	0.15	0.65				
	Deduction for Manhole cover	2	0.6	0.6	0.15	-0.11				
						0.63	cum	7718.25	4825.45	DSR_item no_5.1.2
8	Steel reinforcement for RCC works including straining, cutting bending, placing in position and binding all complete thermo mechanically treated bars of grade fe-500D or more					62.52	KG	83.5	5220.42	DSR_item no_5.22.6
9	Centering and shuttering including strutting, propping etc. and removal of form work for : Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.									
	Baffle Wall -1	2	1.4		0.3	0.84				
	Baffle Wall -2	2	1.4		1.26	3.53				
	Top slab	1	2.76	1.56		4.31				
	Deduction for Manhole cover	2	0.6	0.6		-0.72				
						7.95	SQM	609.3	4846.13	DSR_item no_4.3.2
10	Plastic encapsulated M.S. foot rest 30x20x15 cm					20.00	Nos	110	2200	DSR_subhead 19.0_7354
11	Manhole cover 600x600					2.00	Nos	933.3	1866.67	NSI
12	Manhole cover 900x900					1.00	Nos	2100	2100	NSI
						Total of DSR Items			71462.7	
						Total of NSI			3966.67	



 Key $\frac{1}{2}$

 SI Rs 0.71 lacs

 NSI 0.04 lacs

Subwork 15: Construction of Admin Building at Processing Site

S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
	Civil Work									
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift 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 (1200x1200)	6	1.35	1.35	2.1	22.96				
	For PCC of Plinth Beam	1	12.12	0.38	0.25	1.15				
						24.11	Cum	252.3	6084.19	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	5.95	2.84		16.90	Sqm	92.55	1563.91	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 flooring	1	5.95	2.84	0.15	2.53				
	For Entrance	1	1.2	3.0	0.15	0.54				
	In Plinth protection	1	21.82	0.6	0.15	1.96				
						5.04	Cum	1873.00	9437.11	UNIT ESTIMATE
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).									

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S. N	Item Description	No	Length h	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
	For column foundation (1200x1200)	6	1.35	1.35	0.075	0.82				
	Below plinth beam	1	19.68	0.38	0.075	0.56				
	For Entrance	1	1.2	3.00	0.1	0.36				
	Above soiling	1	5.95	2.84	0.075	1.27				
	For Plinth Protection	1	21.82	0.60	0.1	1.31	Cum	6126.25	26450.42	DSR Item No_4.1.6
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 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).	6	1.2	1.2	0.35	3.02				
	All works upto plinth level	6	0.23	0.3	1	0.41				
	For column foundation. (1200x1200)	1	19.68	0.23	0.25	1.13	Cum	7997.3	36544.46	DSR Item No_5.33.1
	Column above foundation upto plinth level					4.57				
	Plinth beam									
	All works above plinth level upto floor V level	6	0.23	0.3	3.1	1.28				
	Column (230x300)	2	5.95	0.23	0.25	0.68				
	Roof Beam 1	3	2.84	0.23	0.25	0.49				
	Roof Beam 2	1	7.01	3.9	0.125	3.42				
	Roof Slab	2	1.5	0.23	0.23	0.16				
	Lintel for D1									

Key

BAZ

4/4