



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 M 20 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	2	30			203694.46	Rm	537.8	32268	Morth Block 33 Doiwala Item No_ 8-2-A
	TOTAL					214,802.63				1,72,492.98
	TOTAL at 4 places					1718421.04				or Rs 1726000

for 4 places 172x42 6.88  
 Sand  
 SI (PWB 2002) 6.88 bars  
 NSI — MI —  
 SI (SOF) = Rs 8.16 bars  
 NSI  
 ROR For 4 nos shed x 4 = 8.16  
 GMR Rs 2.04 bars  
 SI (PWB 2002) 6.88 bars  
 NSI — MI —



Size, 5.00 x 1.80 m

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

S. N	Item Description	No	Length h	Breadth h	Height t	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				
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).									DSR Item No. 2.8.1
	For Column foundation	2	1.65	1.65	0.075	0.41				
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)									DSR Item No. 4.1.6
	For Column foundation	2	1.65	1.65	0.075	0.41	Cu	6126.25	2501.81	
3.1	All works upto plinth level	2	1.5	1.5	0.3	1.35				
	Column foundation									

*[Handwritten signatures and initials]*



S. N	Item Description	No	Length h	Breadth h	Height t	Qty	Unit	Rate	Amount	Item Reference
	Column above foundation upto plinth	2	0.3	0.3	0.7	0.13	Cu m	7997.3	11804.0	DSR Item No_5.33.1
						1.48			1	
3.2	All works above plinth level upto floor V level									
	Column above plinth	2	0.3	0.3	1.5	0.27	Cu m	9400.8 5	2538.23	DSR Item No_5.33.2
						0.27				
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
	sides of column foundation									
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
	sides of column									
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					174.6 0	Kg	83.5	14579.1 0	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	19361.2 5	DSR Item No_10.1
	Total								57160.6	
	Total at 4 places									

55284-8  
228642.4  
SL-B 2.29.04  
WSR 11-

*[Handwritten signatures and initials]*

Subwork 8: Construction of Barbed Wire Fencing at Dry waste collection Centre at 4 places in Rishikesh

Per

104.00 Rupee

26226 by Gov

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 struttled 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					DSR_Item No 16.17
	With G.I. barbed wire	440.27	Mtr	12	5283.2	DSR_Item No 16.17.1
	TOTAL				99367.81	
	TOTAL at 4 Places				794942.48	

397471.24

Sum EIR

4 for 4 nos places  
SI - Rs 3,96 lacs  
NSI - -

AK

AK

02-RS 0.99 lacs each

**Subwork 9: Construction of Leachate Tank at Dry waste collection Centre at 4 places in Rishikesh**

S. N	Item Description	No	Length	Breadth	Height/Depth	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-II) : 8 graded stone aggregate 40 mm nominal size)	1	2.5	2.5	0.1	0.625	Cu m	57896	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				
						2.078	Cu m	94706	19679.91	DSR_Item No_5.33.2 + 5.34.1

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S. N	Item Description	No	Length	Breadth	Height/Depth	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 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	284.85	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 6 places								58898.04	

for 6 places  
Each

~~471184.32~~  
23592.16

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ATC  
Kewal Bhatt

for 4 nos places = 2.36 nos

SI - B 2.36 nos  
MS 1 - NIL

Subwork 10: Construction of Dry waste segregation bins at Dry waste collection Centre at 4 places in Rishikesh

Sr.No.	Description	Unit	Quantity	Unit Rate	Amount in Lakhs Rs.
1	Mesh bins for segregated dry waste	nos	28	8101.22	2.27
	Total				2.27
	Total at 4 places				

Rate Analysis for Mesh bins for segregated dry waste

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

~~18.16~~  
9.07

SI - Nil  
MSI - Rs 9.07 lacs

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	
8	Total Weight of angle	54	kg	IS 808:1989, Section 5 (equal leg angles) (Pg.8)
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)
11	Total cost of steel	6820.63	Rs.	

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## SUBWDK 11:

## Measurement Sheet for Site Development and Barbed Wire Fencing (Rishikesh)

Sl No.	Reference	Description of item	Unit	L	B	H	Qty
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	400	250		100000
2	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					
2.1	DSR_Item No 2.33.1	Beyond 30 cm girth upto and including 60 cm girth	Each				5
2.2	DSR_Item No 2.33.2	Beyond 60 cm girth upto and including 120 cm girth	Each				3
3	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 particles, stone, suitable for backfilling as per Indian standard.	Cum	400	250	0.6	<del>60000</del>
4	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	(400+250+400+250)/3*(0.45*0.45*0.6)			52.65

AW

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TCE.



5	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	32.00
6	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	52.65
7	DSR_Item No 16.15.1	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).	Cum	31.20
8	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 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		
8.1	DSR_Item No 16.17.1	With G.I. barbed wire	metre	5503.33

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

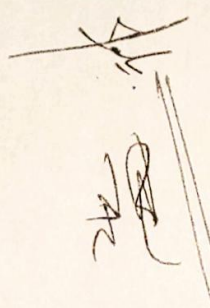
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SI No	Reference	Description of Item	Unit	Qty	Rate		Amount	
					DSR	SO R	DSR	SO R
A	Civil Work							
1	DSR_Item No 2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at 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	100000	12.55	✓	1255000	
2	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	Each	5	380.6	✓	1903	
2.1	DSR_Item No 2.33.1	Beyond 30 cm girth upto and including 60 cm girth	Each	3	1694.4	✓	5083.2	
2.2	DSR_Item No 2.33.2	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 particle, stone, suitable for backfilling as per Indian standard.	Cum	60000	45	✓	2700000.00	
4	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	52.65	252.3	✓	13283.60	

TRW  
TCE

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Sr. No.	Description	Value	Unit	Reference
12	Cost Index Rishikesh	0.00		
13	Total Cost	6820.63		
12	Fabrication cost (15% extra)	1023.09	Rs.	
13	Half day blacksmith	257.50	Rs.	
13	Total cost of Bin	8101.22	Rs.	

  
 AR  
 Km  
 12

Bin  
cost



SI No	Reference	Description of Item	Unit	Qty	Rate			Amount		
					DSR	SO R	NS I	DSR	SO R	NSI
5	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	32.00	219.65			7028.80		
6	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	52.65	6126.25			322547.06		
7	DSR_Item No 16.15.1	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)	Cum	31.20	26754.35			834735.72		
8	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 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	metre	5503.33	12		66040			
8.1	DSR_Item No 16.17.1	With G.I. barbed wire					2505621.38			27000000 \$/m
		TOTAL								

\$/m

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SI - Rs 25.06 lacs for Each  
NSI - Nil

Subwork 12: Construction of Internal Road with KC drain at Processing Site

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	1465	3.75	0.1	549.375	cu m	1818.8	999203.25	MORD Block 33 Doiwala_item No 4-7-1-B
					0.15	922.5			1219814.88	
	Grading 2 By Mechanical Means	1	1465	3.75	0.1	549.375	cu m	1897.6	1042494	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									

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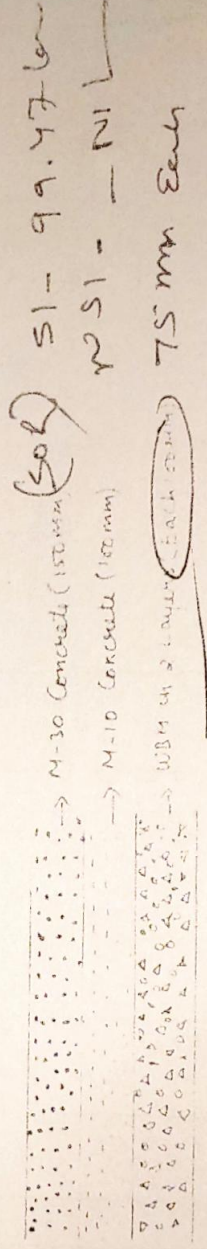
S. No	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	MORD	Item Reference
1	Construction of Un-reinforced, Cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type PCC Grade M-30, coarse and fine aggregates conforming to IS: 383, 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	1465	3.75	0.1	549.375	cu m	4445.8	2442411.375		Block 33 Doiwala Item No_ 11-4-1-1
						824.0625	cu m	5,375.40	4429665.563		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 M 20 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	1465			2930	Rm	537.8	1575754	Morth Block 33 Doiwala Item No_ 8-2-A
	<b>TOTAL</b>								<u>10,489,528.19</u>	99,46,631.27

00 B 99.47 Lines



TYPICAL CROSS SECTION OF ROAD

By: *[Signature]* SFC. *[Signature]* *[Signature]* *[Signature]*

Subwork 13: Construction of Entrance Gate at Processing Site (Entrance and Exit)

S. N	Item Description	No	Length h	Breadth h	Height t	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
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				

*[Handwritten signatures and initials]*





S. No.	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
3.2	All works above plinth level upto floor V level					1.48	Cu m	7997.3	11804.01	DSR Item No_5.33.1
	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
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
									57160.60	or B.S. 5.33.1
									114321.2	1.14 bars
	Total									
	Total at 2 sides (Entrance and Exit)									

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*Handwritten notes:*  
 SI - B.S 1.14 bars  
 NSI - NIL  
 1.14 bars

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 5.00 x 1.80  
 or 25 mm dia

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.									
	Main chamber	1	3.96	2.76	2	21.86				
	Cleaning chamber	1	1.36	1.13	2	3.07				
						<b>24.93</b>	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				
						<b>11.68</b>	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									
						<b>13.25</b>	cum	219.65	2909.92	DSR item 2.25
4	Providing and laying in position cement concrete of 1:2:4 (1Cement :2 course and sand (zone-II));4 graded stone aggregate 20 mm nominal size) excluding the cost of centring shuttering-All work up to plinth level									

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S.N	Particulars of items	No	Length	Breadth	Height/Depth	Qty	Unit	Rate	Amount	Item Reference
	Main chamber	1	2.76	1.56	0.2	0.86				
	Cleaning chamber	1	1.36	1.13	0.2	0.31				
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)					1.17	cum	6788.6	7932.34	DSR_item no_4.1.3
	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	28321.44	DSR_item no_6.1.2
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).					40.00	SQM	266.85	10672.93	DSR_item no_13.1.1
	Baffle Wall -1	1	1.4	0.04	0.3	0.02				
	Baffle Wall -2	1	1.4	0.04	1.26	0.07				
	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

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S.N	Particulars of items	No	Length	Breadth	Height/Depth	Qty	Unit	Rate	Amount	Item Reference
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			71462.66	
						Total of NSI			3966.67	

SI - Rs 0.71 lacs
   
 NSI - Rs 0.04 lacs

**Subwork 15: Construction of Weigh Bridge at Processing Site**

Item No.	Description	Nos.	L (m)	B (m)	H (m)	Quantity	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. All kind of soil	3	4.1	2	1.95	47.97	cum	181.85	8723.34	DSR item 2.6.1
	For footing									
	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. Beyond 1.5 meter. Upto 3.0 meter	3	4.1	2	0.45	11.07	cum	90.4	1000.73	DSR item 2.26.1
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 upto 50 m									
3	300 mm THK Well compacted stone soling voids should be filled and compacted with stone chipping and sand filling 60-90 mm stone size					18.00	cum	219.65	3953.70	DSR item 2.25
	For footing	3	4.1	2	0.3	7.38				
	Between Pedestal	2	4.1	2.2	0.3	5.41				
	For Ramp	2	4.57	4.1	0.3	11.24				
						24.03	cum	1873.00	45016.06	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 : 1:4:8 (1 Cement : 4 coarse sand (zone-II) : 8 graded stone aggregate 40 mm nominal size)									
	For footing	3	4.1	2	0.1	2.46				

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Item No.	Description	Nos.	L (m)	B (m)	H (m)	Quantity	Unit	Rate	Amount	Item Reference
	Between Pedestal	2	4.1	2.2	0.1	1.80				
	For Ramp	2	4.57	4.1	0.1	3.75				
	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-II) : 4 graded stone aggregate 20 mm nominal size)					8.01	cum	5789.6	46382.80	DSR item 4.1.8
5	For Ramp 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	2	4.57	4.1	0.15	5.62	cum	6680.2	37550.07	DSR item 4.1.4
	For raft footing	3	3.9	1.8	0.45	9.48				
	For Pedestal	6	1.2	0.8	1.5	8.64				
	For Ramp	2	4.57	4.1	0.15	5.62				
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo-Mechanically Treated bars of grade Fe-500D or more.					23.74	cum	7997.3	189840.71	DSR item 5.33.1
6	1.8% of total volume due to heavy load					3354.19	cum	83.5	280075.16	DSR item 5.22.6

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Item No.	Description	Nos.	L (m)	B (m)	H (m)	Quantity	Unit	Rate	Amount	Item Reference
7	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete	3	7.8		0.45	10.53	Sqm	284.85	2999.47	DSR item 5.9.1
	Columns, Pillars, Piers, Abutments, Posts and Struts	6	4		1.5	36.00	Sqm	733.7	26413.20	DSR item 5.9.6
8	Providing and supplying, fixing, weighbridge of 20-50 MT load with micro controller based fully electronic weigh bridge are equipped with high precision hi-tech sensoritics make double ended shear beam type load cells enriched by sophisticated indicator and strong rugged platform thus assuring and reliability of the product.	1				1.00	Nos	569,000	569000.00	NSI
									641,226.47	
									641955.24	
						Total of DSR Items			569000.00	
						Total of NSI Items				

JK

SAR

Area  
15%

S1- 6.41 lacs  
NSI - 13 5.69 lacs

Subwork 16: Construction of Weigh Bridge Cabin at Processing Site

S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
	<b>Civil Work</b>									
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.									
1.1	Upto 1.5 meter depth	4	1.2	1.2	1.1	6.34				
1.2	For column foundation	1	9.12	0.38	0.35	1.21				
1.3	For Plinth Beam					7.55	Cu m	252.3	1904.60	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).									
2.1	in column foundation	4	1.2	1.2	0.1	0.58				
2.2	Below plinth beam	1	13	0.38	0.1	0.49				
	Main Entrance	1	1.8	1.5	0.15	0.41				
						1.48	Cu m	6126.25	9036.22	DSR Item No_4.1.6

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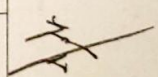




S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
3	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete 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									
3.1	Column foundation	4	1	1	0.35	1.40				
3.1	Column above foundation	4	0.23	0.23	0.65	0.14				
3.1	Plinth beam	1	13	0.23	0.3	0.90				
						2.43	Cum	7997.3	19469.75	DSR Item No. 5.33.1
3.2	All works above plinth level upto floor V level									
	Column above plinth	4	0.23	0.23	3.5	0.74				
	Roof Beam in Y direction	2	3.5	0.23	0.3	0.48				
	Roof Beam in X direction	2	3.2	0.23	0.3	0.45				
	Roof Slab	1	4.06	4.56	0.125	2.31				
	Lintel for D1	1	1.3	0.23	0.23	0.07				
	Lintel for W1	1	2.1	0.23	0.23	0.11				
	Chajja over W1	1	2.1	0.45	0.1275	1.93				
	Chajja over D1	1	1.3	0.6	0.1275	0.10				
						6.19	Cum	9400.85	58197.37	DSR Item No. 5.33.2

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S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
4	Centering and shuttering including strutting, propping etc. and removal of form work for Foundations, footings, bases for columns	4	4		0.35	5.6	sqm	284.85	1595.16	DSR Item No_5.9.1
4.1	sides of foundation									
4.2	Columns, piers, abutments, pillars, posts and struts									
	Sides of column above foundation upto floor two level	4	0.92		4.15	15.272				
						15.272	sqm	733.7	11205.07	DSR Item No_5.9.6
4.3	Lintels, beams, plinth beams, girders, bressumers and cantilevers									
	Sides of Plinth Beam	1.0	13.0		0.6	7.80				
	Roof Beam in Y direction	2.0	3.5		0.8	5.81				
	Roof Beam in X direction	2.0	3.2		0.8	5.36				
	Lintel for D1	1.0	1.3		0.7	0.90				
	Lintel for W1	1.0	2.1		0.7	1.45				
						21.32	sqm	552.05	11768.49	DSR Item No_5.9.5
4.4	Suspended floors, roofs, landings, balconies and access platform									
	Roof Slab	1	4.06	4.56		18.51				
						18.51	Sq m	693.05	12830.85	DSR Item No_5.9.3
4.5	Weather shade, Chajjas, corbels etc., including edges									
	Chajja over W1	1	2.1	0.45		0.95				
	Chajja over D1	1	1.3	0.6		0.78				
						1.73	Sq m	766.75	1322.64	DSR Item No_5.9.19


  
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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 and above.									
	Thermo-Mechanically Treated bars of grade Fe-500D or more.					1121.27	Kg	83.5	93626.44	DSR Item No_5.22.6
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in:									
	Cement mortar 1:6 (1 cement : 6 coarse sand)	1	13.92	0.23	3.2	10.25				
	Center line for Ground floor	1	1.0	0.2	2.1	-0.48				
	Deduction for D1	0								
	Deduction for W1	0	1.8	0.2	1.2	-0.50				
7	20 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand) on External Surface									
	Exterior wall	1	14.84		3.5	51.94				
	Deduction for D1	0	1.0		2.1	-2.10				
	Deduction for W1	0	1.8		2.1	-3.78				
8	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand) internal surface									
	Center line	1	13		3.2	41.6				
	Deduction for D1	1	1		2.1	-2.10				
	Deduction for W1	1	1.8		1.2	-2.16				
						46.06	Sq m	365.25	16823.42	DSR Item No_13.3.1

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S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
9	6 mm cement plaster of mix : Ceiling Plaster 1:3 (1 cement : 3 fine sand)					37.34	Sq m	254.25	9493.70	DSR Item No_13.1.2
	Roof Slab	1	3	3.5		10.50	Sq m	227.35	2387.18	DSR Item No_13.16.1
10	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.					93.90	Sq m	196.73	18470.13	DSR Item No_13.26
11	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					47.84	Sq m	153.45	7341.05	DSR Item No_13.41.1
12	Finishing walls with Acrylic Smooth exterior paint of required shade .New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)					46.06	Sq m	164.7	7586.08	DSR Item No_13.46.1
	<b>Flooring</b>									
13	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	3	3.5	0.15	1.58	Sq m	498.35	784.90	DSR Item No_11.3.1
	WEIGH BRIDGE CABIN									

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S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
14	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) ; Powder coated aluminium (minimum thickness of powder coating 50 micron)	1 0				7.44				
	For D (1000x2100)	1 0				7.2				
	For W (1800x1200)	1 0				14.64	Kg	456.3	6680.23	DSR Item No. 21.1.1.2
15	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)									
	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-					7.32	Kg	546.3 5	3999.28	DSR Item No. 21.1.2.2
16										

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S. N	Item Description	No	Length	Breadth	Height	Qty	Unit	Rate	Amount	Item Reference
17	Pre-laminated particle board with decorative lamination on both sides	10	1.0		1.1	1.05	Sq m	1046.9	1099.25	DSR Item No_21.2.2
18	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item). With float glass panes of 5.50 mm thickness	10	1.0		1.1	1.05				
	For D (1000x2100)	10	1.0		1.1	1.05				
	For W (1800x1200)	10	1.8		1.2	2.16				
19	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.					3.21	Sq m	1296.4	4161.44	DSR Item No_21.3.2
20	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete					6.48	KG	183.5	1189.08	DSR Item No_9.48.2
21	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Powder coated minimum thickness 50 micron aluminium					1	each	458.55	458.55	DSR_item no_21.13
						20	each	71.55	1431.00	DSR_item no_21.15.2

