

# **VOLUME 02**

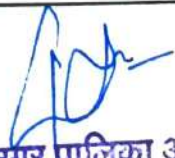


# NAGAR PANCHAYAT CHUIKHADAN (C.G.)

## ABSTRACT

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S.NO.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT (Rs.)
I	COST FOR EXISTING COMPOST PLANT				
1	COMPOST PLANT - WARD NO. - 15, NAWAGAON, CHUIKHADAN (C.G.)				
a	CIVIL WORK				
1	Rain Water Harvesting	-	-	-	32001.00
2	Windrow Compost Shed 2 TPD	-	-	-	861522.60
3	Leachate Collection Tank	-	-	-	27355.76
4	C.C. Road 3.00 m. wide	-	-	-	59510.25
	Total of (a)				980389.61
	Total of (a)				980389.61
b	NON SOR ITEMS	QTY.	UNIT	RATE	AMOUNT (Rs.)
1	Surveillance Camera - Min. 6 No. of CCTV Cameras at each plant with 5 MP cameras, DVR, night vision, and real-time monitoring. (Detailed Specification as per Annexure A)	1	Set	17813.00	17813.00
2	Wheel Barrow - 140 L wheelbarrow, 450 kg capacity, MS body with rubber tyre. (Detailed Specification as per Annexure B)	2	Nos.	5500.00	11000.00
3	Compost Sieve Machine Manual compost sieve, 200–300 kg/hr, portable MS/SS machine. (Detailed Specification as per Annexure C)	1	Nos.	47500.00	47500.00
	SUB Total				76313.00
	Total of (b)				76313.00
	Total of 1 (a+b)				1056702.61
Total of Compost Plant I					1056702.61

  
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<b>II COST FOR EXISTING SLRM/MRF PLANT</b>					
<b>1 SLRM/MRF PLANT - WARD NO. - 15, NAWAGAON, CHUIKHADAN (C.G.)</b>					
<b>a</b>	<b>CIVIL WORK</b>				
1	Revamping of SLRM Centre	-	-	-	414509.95
2	Rain Water Harvesting	-	-	-	32001.00
3	Storage for Baled & Recyclable Material	-	-	-	501222.37
4	Revamping of Toilet	-	-	-	8668.00
	<b>Total of (a)</b>				<b>956401.33</b>
<b>b</b>	<b>NON SOR ITEMS</b>	<b>QTY.</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (Rs.)</b>
1	Weigh Bridge - 10 Ton electronic pitless weighbridge with digital load cells and auto calibration. (Detailed Specification as per Annexure D)	1	Nos.	225000.00	225000.00
2	Flat Conveyor Belt - approx. 7 m long, 700 mm wide, 800 mm high, flat roller type. (Detailed Specification as per Annexure E)	1	Nos.	155000.00	155000.00
3	HDPE Wheeled Container 100 Litre HDPE container, durable, wheeled design. (Detailed Specification as per Annexure F)	10	Nos.	1375.00	13750.00
4	Bale Trolley 250 kg MS trolley, manual, with polymer wheels, rust-proof design. (Detailed Specification as per Annexure G)	3	Nos.	6800.00	20400.00
5	Surveillance Camera - Min. 6 No. of CCTV Cameras at each plant with 5 MP cameras, DVR, night vision, and real-time monitoring. (Detailed Specification as per Annexure H)	1	Set	17813.00	17813.00

  
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6	Turbine Ventilator Wind-driven turbine ventilator, 1500–2500 CFM airflow, no electricity required. (Detailed Specification as per Annexure I)	6	Nos.	2500.00	15000.00
				<b>SUB Total</b>	<b>446963.00</b>
				<b>Total of (b)</b>	<b>446963.00</b>
				<b>Total of 1 (a+b)</b>	<b>1403364.33</b>
				<b>Total of SLRM/MRF Plant</b>	<b>1403364.33</b>
				<b>Total Capital Cost (I+II)</b>	<b>2460066.94</b>
				<b>Grand Total</b>	<b>2460066.94</b>
				<b>SAY Rs.(In Lakhs)</b>	<b>24.60</b>

  
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**BOQ / COST ESTIMATION FOR EXISTING COMPOST  
PLANT AT WARD NO. - 15, NAWAGAON,  
CHUIKHADAN (C.G.)**

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**NAGAR PANCHAYAT CHUIKHADAN (C.G.)****ABSTRACT**

S.NO.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT (Rs.)
1	<b>COMPOST PLANT - WARD NO. - 15, NAWAGAON, CHUIKHADAN (C.G.)</b>				
a	<b>CIVIL WORK</b>				
1	Rain Water Harvesting	-	-	-	32001.00
2	Windrow Compost Shed 2 TPD	-	-	-	861522.60
3	Leachate Collection Tank	-	-	-	27355.76
4	C.C. Road 3.00 m. wide	-	-	-	59510.25
				<b>SUB Total</b>	<b>980389.61</b>
				<b>Total of (a)</b>	<b>980389.61</b>
b	<b>NON SOR ITEMS</b>	<b>QTY.</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (Rs.)</b>
1	Surveillance Camera - Min. 6 No. of CCTV Cameras at each plant with 5 MP cameras, DVR, night vision, and real-time monitoring. (Detailed Specification as per Annexure A)	1	Set	17813.00	17813.00
2	Wheel Barrow - 140 L wheelbarrow, 450 kg capacity, MS body with rubber tyre. (Detailed Specification as per Annexure B)	2	Nos.	5500.00	11000.00
3	Compost Sieve Machine Manual compost sieve, 200-300 kg/hr, portable MS/SS machine. (Detailed Specification as per Annexure C)	1	Nos.	47500.00	47500.00
				<b>SUB Total</b>	<b>76313.00</b>
				<b>Total of (b)</b>	<b>76313.00</b>
				<b>Total of 1 (a+b)</b>	<b>1056702.61</b>

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**NAGAR PANCHAYAT CHUIKHADAN (C.G.)**

**" RAIN WATER HARVESTING (1.00X1.00X1.20 M) "**

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soil								
	<b>(BUILDING SOR. ITEM NO.-1.1.1/9)</b>	1	1.40	1.40	1.20	2.35	CUM	185.00	434.75
2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	bottom Beam-	2	1.40	0.20	0.20	0.11			
		2	1.00	0.20	0.20	0.08			
	<b>Top Slab-</b>	1	1.40	1.40	0.10	0.20			
	<b>(BUILDING SOR ITEM NO.-3.9/24)</b>					0.39	CUM	4163.00	1623.57
3	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: 3.12.1 Thermo-Mechanically treated bars FE 415								
		Qty. as per item No.-3.2.1				0.39			
	<b>(SOR ITEM NO.-3.12.1/24)</b>	70 kg/cum				19.5	KG	54.50	1062.75
4	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	<b>(BUILDING SOR ITEM NO.-7.5.4/45)</b>	1	4.80	0.20	1.40	1.34	CUM	3263.00	4385.47

  
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5	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately)								
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	1	1.00	1.00	0.40	0.40	CUM	863.00	345.20
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	1	1.00	1.00	0.30	0.30	CUM	806.00	241.80
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	1	1.00	1.00	0.20	0.20	CUM	471.00	94.20
	(BUILDING SOR ITEM NO.-21.14/201)								
	PIPELINE-								
6	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	In all types of soil (FOR PIPELINE)	1	50.0	0.30	0.30	4.50	CUM	185.00	832.50
	(BUILDING SOR ITEM NO.-1.1/9)								
7	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	50% of Item No 1	-	-	-	-	2.25	CUM	65.00	146.25
	(BUILDING SOR ITEM NO.-1.17/11)								
8	Providing and filling in open area with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	50% of Item No 1 - Pipe Dia	-	-	-	-	2.25	CUM	371.00	834.75
	(BUILDING SOR ITEM NO.-1.18/11)								

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9	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.								
	150 mm dia	1	50.00	-	-	50.00	RM	440.00	22000.00
	(BUILDING SOR ITEM NO.-18.76.3/170)								
Total Rs.									32001.00

  
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 મુખ્ય નગર પાલિકા અધિકારી  
 નગર પંચાયત છુઈંચદાન  
 જિ.-ચૈરાગઢ-છુઈંચદાન-ગઢઈં(છ)

NAGAR PANCHAYAT CHUIKHADAN (C.G.)											
DETAILED ESTIMATE FOR CONSTRUCTION OF WINDROW SHED (2 TPD CAPACITY) AND WET TIPPING SHED (21.50 x 6.80 m.)											
Based on C. G. P.W.D BUILDING S.O.R. IN FORCE FROM 1 JAN 2015											
SN	SOR No.	DESCRIPTION OF ITEM	NO		MEASUREMENT			QTY	RATE	UNIT	AMOUNT
I	II	III	IV	V	L	B	H/D	IX	X	XI	XII
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area) including dressing 1.1.1 In all types of soils.									
		F1(1500X1500)	12		1.50	1.50	1.70	45.90			
		Beam below GL									
		X-X Wall	4		2.80	0.30	0.30	1.01			
			3		2.70	0.30	0.30	0.73			
		Y-Y Wall	2		5.00	0.30	0.30	0.90			
		total						48.54	185.00	cum	8979.35
2	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc complete.									
		Footing									
		F1(1500X1500)	12		1.50	1.50	0.10	2.70			
		Beam below GL									
		X-X Wall	4		4.00	0.30	0.10	0.48			
			6		3.90	0.30	0.10	0.70			
		Y-Y Wall	2		6.20	0.30	0.10	0.37			
		For Floor Base	1		21.10	6.40	0.20	27.01			
		total						31.26	371.00	cum	11598.20
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).									
		Footing									
		F1(1500X1500)	12		1.50	1.50	0.10	2.70			
		Beam below GL									
		X-X Wall	4		4.00	0.30	0.10	0.48			
			6		3.90	0.30	0.10	0.70			
		Y-Y Wall	2		6.20	0.30	0.10	0.37			
		For Floor Base	1		21.10	6.40	0.10	13.50			
		total						17.76	2970.00	cum	52741.26
4	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works up to plinth level excluding cost of form work									

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3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).												
	<b>F1(1500X1500)</b>		12	1.30	1.30	0.30	6.08						
	<b>Subtotal a</b>						<b>6.08</b>						
	<b>Column upto GL</b>												
	C1(300X300)		12	0.30	0.30	1.20	1.30						
	<b>Subtotal b</b>						<b>1.30</b>						
	<b>Column above GL</b>							<b>1.94</b>					
	C1(300X300)		12	0.30	0.30	0.60	0.65						
	<b>Subtotal c</b>						<b>0.65</b>						
	<b>Beam below GL</b>												
	X-X Wall		4	4.00	0.20	0.30	0.96						
			6	3.90	0.20	0.30	1.40						
	Y-Y Wall		2	6.20	0.20	0.30	0.74						
	<b>Subtotal d</b>						<b>3.11</b>						
	<b>total</b>						<b>11.14</b>	<b>4163.00</b>	<b>cum</b>		<b>46359.17</b>		
5	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal											
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.											
		<b>Footings</b>											
		F1 (1.30 + 1.30 = 2.60)	2	12	2.60	0.30	18.72						
		<b>Column upto G L</b>											
		C1 (0.30 + 0.30 = 0.60)	2	12	0.60	1.20	17.28						
		<b>Beam below GL</b>											
		X-X Wall	2	4	4.00	0.30	9.60						
			2	6	3.90	0.30	14.04						
		Y-Y Wall	2	2	6.20	0.30	7.44						
		<b>total</b>					<b>67.08</b>	<b>139.00</b>	<b>sqm</b>		<b>9324.12</b>		
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape											
		<b>Column above G L</b>											
		C1 (0.30 + 0.30 = 0.60)	2	12	0.60	0.60	8.64						
							<b>8.64</b>	<b>297.00</b>	<b>sqm</b>		<b>2566.08</b>		
6	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:											
	3.12.1	Thermo-Mechanically treated bars FE 415											
		Footing (From S.No. 04)			6.08	80.00	486.72						
		Column (From S.No. 04)			1.94	80.00	155.52						
		Beam below GL (From S.No. 04)			3.11	80.00	248.64						
		<b>total</b>					<b>890.88</b>	<b>54.50</b>	<b>Kg</b>		<b>48552.96</b>		
7	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M.											
		Excavated Qty. F1					45.90						
		<b>Deductions</b>											
		F1(1500X1500)	10	1.50	1.50	0.10	-2.25						
		PCC	10	1.50	1.50	0.10	-2.25						
		RCC	10	1.30	1.30	0.30	-5.07						
		C1(300X300)	10	0.30	0.30	1.20	-1.08						
		<b>total</b>					<b>35.25</b>	<b>65.00</b>	<b>cum</b>		<b>2291.25</b>		

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		<b>Area of Internal Plaster (From S.No. 10)</b>						24.90			24.90			
		<b>total</b>									<b>24.90</b>	<b>64.00</b>	<b>sqm</b>	<b>1593.60</b>
14	As per Amendment no 08, 05/05/202 5 item no.14.67	Providing and applying on exterior surface with ECONOMY Exterior Emulsion paint of required shades to give protective and water proof finish minimum three coats applied @ 1.43 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -2 Class D,C (Glossy /Semi Glossy finish ) (Product such as Asian Ace,Dulux Promise Exterior Berger Wall Masta ,Nerolac Suraksha Plus , Nippon Shogun Opus, One Style Power Bright) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work (With 2 Year Warranty)												
		<b>Area of External Wall (From S.No. 11)</b>												
		<b>total</b>						25.80			25.80			
		<b>total</b>									<b>25.80</b>	<b>70.00</b>	<b>sqm</b>	<b>1806.00</b>
15	9.3	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.												
	9.3.1	Electric resistance or induction butt welded tubes Grade-250												
		Pole @21.30 kg/meter 150 mm Dia	6.00	2	4.00	@	21.30	1022.40						
		Purlins 40mm dia @ 3.56Kg/meter	14.00	1	21.50	@	3.56	1071.56						
		Rafter 50mm dia @5.03Kg/meter	6.00	2	4.56	@	5.03	275.24						
		bottom chord 50mm dia @6.19Kg/meter	6.00	1	8.80	@	5.03	265.58						
		Post NB 50	6.00	2	1.20	@	5.03	72.43						
		Post NB 40	6.00	2	0.87	@	3.56	37.17						
		Post NB 40	6.00	2	0.53	@	3.56	22.64						
		Post NB 40	6.00	2	0.19	@	3.56	8.12						
		webs 32mm dia @3.10Kg/meter	6.00	2	1.45	@	3.10	53.94						
			6.00	2	1.26	@	3.10	46.87						
			6.00	2	1.13	@	3.10	42.04						
		Wind tie 32x5mm	8.00	1	21.50	@	3.10	533.20						
		Gusset Plate, Fixing Bolt and Base Plate Etc 12%	0.12					3451.19						
								414.14						
								3865.33			93.50	Kg	361408.66	

16	10.12	Supply and fixing of polymer pre-coated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while 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 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead 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.									
		Roofing		2	22.50	4.56		205.20			
		<b>total</b>						<b>205.20</b>	<b>693.00</b>	<b>sqm</b>	<b>142203.60</b>
17	10.16	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :									
	10.16.1	10.16.1 Ridges plain (500-600mm)		1	22.50			22.50			
		Ridge						<b>22.50</b>	<b>552.00</b>	<b>mtr</b>	<b>12420.00</b>
18	10.16.6	10.16.6 Gutter. (600 mm over all girth).									
		Gutter		2	22.50			45.00			
		<b>total</b>						<b>45.00</b>	<b>629.00</b>	<b>mtr</b>	<b>38305.00</b>

16	10.12	Supply and fixing of polymer precoated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while 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 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead 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.									
		Roofing		2	22.50	4.56		205.20			
		total						205.20	693.00	sqm	142203.60
17	10.16	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :									
	10.16.1	10.16.1 Ridges plain (500-600mm)		1	22.50			22.50			
		Ridge						22.50	552.00	mtr	12420.00
18	10.16.6	10.16.6 Gutter. (600 mm over all girth).									
		Gutter		2	22.50			45.00			
		total						45.00	629.00	mtr	28305.00

  
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 नगर पंचायत छुईखदान  
 जि.-खैरागढ़-छुईखदान-गंडई(छ)







# NAGAR PANCHAYAT CHUIKHADAN (C.G.)

## " PROPOSED LEACHATE TANK 1.20X1.20X1.20 M "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUN T (in Rs.)
1	Excavation for all types and sizes of foundations trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at teats 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1/9)	1	1.90	1.90	1.65	5.96	CUM	185.00	1101.95
2	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	Excavated Area-	2	1.90	0.15	1.50	0.86			
	Deduction Tank Area-	2	1.60	0.15	1.50	0.72			
	(BUILDING SOR ITEM NO.-1.17/11)					1.58	CUM	65.00	102.38
3	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	(BUILDING SOR ITEM NO.- 1.18/11)	1	1.90	1.90	0.15	0.54	CUM	371.00	200.90
4	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of from work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.1.3/23)	1	1.90	1.90	0.15	0.54	CUM	2970.00	1608.26
5	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	PCC	1	1.60	1.60	0.15	0.38			
	(BUILDING SOR ITEM NO.- 3..1.5/23)					0.38	CUM	4073.00	1564.03
6	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	Bottom Slab-	1	6.40	-	0.15	0.96			
	(BUILDING SOR ITEM NO.- 2.1.1/16)					0.96	SQ.M	139.00	133.00

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
7	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in: (SOR. ITEM NO.- 7.5.4/45) Cement Mortar 1:6 (1 cement : 6 coarse sand ) Extra for brick work in superstructure: (SOR. ITEM NO.- 7.6/45) Leachate Tank Wall	2	1.60	0.20	1.20	0.77			
		2	1.20	0.20	1.20	0.58			
						1.34	CUM	3384.00	4548.10
8	Providing and making 12mm.thick cement plaster of mix : In Cement Mortar 1:6 ( 1 Cement : 6 fine Sand) (BUILDING SOR. ITEM NO.-11.2/103) 11.1.2 ) In Cement mortar 1:4 (1 cement : 4 fine sand) Inside Plaster	4	1.20		1.20	5.76			
						5.76	SQM	91.50	527.04
9	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 3.2.1) 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). Precast Slab	1	1.80	1.80	0.15	0.49			
	(BUILDING SOR ITEM NO.- 3.2.1/23)					0.49	CUM	4163.00	2023.22
10	Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement. Precast Slab					0.49			
	(BUILDING SOR ITEM NO.-3.9/24)					0.49	CUM	469.00	227.93



S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
11	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	Precast Slab	Qty.as per item no. 5				0.49			
	(BUILDING SOR ITEM NO.-3.12.1/24)	80 kg/cum				38.88	KG	54.50	2118.96
12	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 150 mm dia pipe.								
	Leachate Drain Pipeline	1	30.00	-	-	30.00	MTR	440.00	13200.00
	(BUILDING SOR ITEM NO.- 18.76/170)								
Cost of 1 Leachate Tank Rs.									27355.76

  
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**Constrution of C.C. Road**

(As per P.W.D ROAD S.O.R. W.E.F. 01.01.2025)

S.N.	I.N.	PARTICULAR	NO	L	B	H/d	Q	UNIT	RATE	AMOUNT
1	3.2	Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.								
			1	15.00	3.00	0.15	6.75	cum	103.00	695.25
2	4.1	Granular Sub-base as per Table :- 400-1								
	A/ii	Construction of granular sub base by providing close graded material carriage of mixed material to work site, spreang in uniform layers with motor grader on prepared surface watering rolling and compacting with vibratory power roller at OMC to achive the disired density complete as per clause 401								
		For Sub-base cum drainage layer or upper sub-base (@) with								
	(ii)	Grading- IV Material	1	15.00	3.00	0.15	6.75	cum	1586.00	10705.50
3	1.1	Transportation of metal i/c loading & unloading For a lead upto   Km.								
		80% Of Excavated Qty.					5.40	cum	100.00	540.00
4	6.3	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.( For Village roads _)								
	1	P.C.C. M-10	1	15.00	3.00	0.10	4.50	cum	3449.00	15520.50
5	6.4	Providing and laying Un-reinforced Cement Concrete without Dowel bars including formwork and expansion, contraction & longitudinal joints as per design and as per IRC-62, over a prepared base a per approved mix design and finising to lines and grade as per Drawing for Pavement thickness less than 200mm in Low Volume Roads. With Cement concrete grade M-30 and minimum cement content @ 375 kg/cum								
		P.C.C. M-30	1	15.00	3.00	0.15	6.75	cum	4748.00	32049.00
<b>TOTAL</b>										<b>59510.25</b>

  
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**NAGAR PANCHAYAT CHUIKHADAN (C.G.)****ANNEXURE A - DETAILED SPECIFICATION OF SURVEILLANCE CAMERA**

PARAMETER	SPECIFICATIONS/DESCRIPTION
No. of CCTV Camera at Plant	Min. 6 No. of CCTV Cameras at each plant
8 Channel DVR	8 channels and 1 HDD DVR, Up to 12 IP cameras can be connected, Efficient compression technology
5 MP Built in Mic Bullet Camera	5 MP, 2560 × 1944 resolution, Audio over coaxial cable, built-in mic, Smart IR, up to 25 m IR distance, 4 in 1 video output (switchable TVI/AHD/CVI/CVBS)
5 MP Built in Mic Dome Camera	5 MP, 2560 × 1944 resolution, Smart IR, upto 20m, IR distance, Audio over coaxial cable, built-in mic, 4 in 1 video output (switchable TVI/AHD/CVI/CVBS)
Hard Disk 1 TB	Full Surveillance Hard Disk With 2 Year Warranty
3+1 Solid Copper Cable	Full Solid Copper, 90 Meter
Power Supply Ch-8	Burning Warranty claim
PVC Box 4x4	Solid PVC
BNC Connector	Per Camera 2 Pcs Required
DC Connector	Per Camera 1 Pcs Required

Note: CCTV surveillance system must be capable of sharing real time AV feeds, data and integration with dashboard at ULB and State Level. Internet connection may be provided by the ULB.

  
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<b>NAGAR PANCHAYAT CHUIKHADAN (C.G.)</b>	
<b>ANNEXURE B - DETAILED SPECIFICATION OF WHEEL BARROW</b>	
<b>PARAMETER</b>	<b>SPECIFICATIONS/DESCRIPTION</b>
Capacity of Wheel barrow	140 litre
Load carrying capacity	450 kg
Sheet Material	Steel sheets confirming to IS:2062
Sheet thickness	1.8 mm
Wheel material	Mild Steel with Solid or Cushioned rubber tyre
Type of bearing / bush	Cast iron bearing
Steel tube	not be drilled, light tubes confirming to IS:1239
Grey Iron Castings	Conform to IS:210
Finish of Metal parts	Two coats of black bituminous paint
Diameter of the Wheel	500 mm
Nominal width of tyre	50 mm
Hand Grips	Yes
Leg support	Yes

  
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## NAGAR PANCHAYAT CHUIKHADAN (C.G.)

### ANNEXURE C - DETAILED SPECIFICATION OF COMPOST SIEVE MACHINE

PARAMETER	SPECIFICATIONS/DESCRIPTION
Automation Grade	Manual
Material	Mild Steel with paint coating/ Stainless Steel
Screening Size/Mesh	4-6 mm
Capacity	200-300 kg per hour
Usage/Application	Any type of compost
Portability	Yes, Portable
Length	5 to 7 feet
Diameter	2 to 3 feet

  
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**BOQ / COST ESTIMATION FOR EXISTING SLRM AT  
WARD NO. - 15, NAWAGAON, CHUIKHADAN (C.G.)**



# NAGAR PANCHAYAT CHUIKHADAN

## ABSTRACT

S. NO.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT (Rs.)
1	SLRM/MRF PLANT - WARD NO. - 15, NAWAGAON, CHUIKHADAN (C.G.)				
a	CIVIL WORK				
1	Revamping of SLRM Centre	-	-	-	414509.95
2	Rain Water Harvesting	-	-	-	32001.00
3	Storage for Baled & Recyclable Material	-	-	-	501222.37
4	Revamping of Toilet	-	-	-	8668.00
	Total of (a)				956401.33
b	NON SOR ITEMS	QTY.	UNIT	RATE	AMOUNT (Rs.)
1	Weigh Bridge - 10 Ton electronic pitless weighbridge with digital load cells and auto calibration. (Detailed Specification as per Annexure D)	1	Nos.	225000.00	225000.00
2	Flat Conveyor Belt - approx. 7 m long, 700 mm wide, 800 mm high, flat roller type. (Detailed Specification as per Annexure E)	1	Nos.	155000.00	155000.00
3	HDPE Wheeled Container 100 Litre HDPE container, durable, wheeled design. (Detailed Specification as per Annexure G)	10	Nos.	1375.00	13750.00
4	Bale Trolley 250 kg MS trolley, manual, with polymer wheels, rust-proof design. (Detailed Specification as per Annexure G)	3	Nos.	6800.00	20400.00

5	Surveillance Camera - Min. 6 No. of CCTV Cameras at each plant with 5 MP cameras, DVR, night vision, and real-time monitoring. (Detailed Specification as per Annexure H)	1	Set	17813.00	17813.00
6	Turbine Ventilator Wind-driven turbine ventilator, 1500-2500 CFM airflow, no electricity required. (Detailed Specification as per Annexure I)	6	Nos.	2500.00	15000.00
				<b>SUB Total</b>	<b>446963.00</b>
				<b>Total of (b)</b>	<b>446963.00</b>
				<b>Total of 1 (a+b)</b>	<b>1403364.33</b>

  
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## Revamping of SLRM Centre

(Building SOR Items) W.E.F. - 01/01/2015

S NO.	ITEM NO.	DESCRIPTION	NO.	L	B	H/D	QTY	UNIT	RATE	AMOUNT
<b>SLRM SHED SHEET CHANGE</b>										
1	16.17	Dismantling G.I. sheet roofing including ridges hips, valleys and gutters etc. and stacking the material with 50 m lead.								
			2.00	3.00	5.80		34.80			
							34.80	sqm	33.50	1165.80
2	10.12	Supply and fixing of polymer pre-coated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while 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 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead 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.								
		Sheet work	2.00	3.00	5.80		34.80			
		Total					34.80	sqm	693.00	24116.40
3	10.16	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :								
	10.16.1	Ridges plain (500-600mm)	1.00	28.00			28.00	Rmt	552.00	15456.00
4	10.16.6	Gutter. (600 mm over all girth).	2.00	28.00			56.00			
							56.00	Rmt	629.00	35224.00
<b>RAIN WATER PIPE</b>										
5	18.76.2	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 18.76.2 110 mm dia pipe. Rain water Pipe								
			6.00	4.00			24.00	Mtr.	267.00	6408.00
<b>DEMOLISHING BRICK WORK</b>										
6	16.3	Demolishing brick masonry including arches.								
	16.3.3	In cement mortar.								
		For Washing unit	4.00	2.94	0.20	0.90	2.12			
			2.00	5.80	0.20	0.90	2.09			
		Total					4.20	cum	263.00	1105.86

**PAINTING WORK FOR SLRM CENTRE**

[illegible]



11	12.49	25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sqm and upto 0.50 sqm)							
			1	23.60	9.60		226.56		
			1	2.80	9.20		25.76		
							252.32	sqm	897.00
									226331.04
<b>PROPOSED C.C. FLOORING WORK</b>									
13	12.4	52 mm thick cement concrete flooring with under layer of 40mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer of 12 mm thick cement metallic hardener concrete mix 1:2 (1 cement hardener mix : 2 stone aggregate of 6 mm size by volume) with metallic hardening compound of approved quality mixed with cement in ratio of 4:1 (4 cement : 1 metallic floor hardening compound by weight) including finishing etc.complete.							
							140.00	sqm	441.00
									61740.00
								<b>TOTAL</b>	<b>414509.95</b>



# NAGAR PANCHAYAT CHUIKHADAN (C.G.)

## " RAIN WATER HARVESTING (1.00X1.00X1.20 M) "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soil								
	(BUILDING SOR. ITEM NO.-1.1.1/9)	1	1.40	1.40	1.20	2.35	CUM	185.00	434.75
2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	bottom Beam-	2	1.40	0.20	0.20	0.11			
		2	1.00	0.20	0.20	0.08			
	Top Slab-	1	1.40	1.40	0.10	0.20			
	(BUILDING SOR ITEM NO.-3.9/24)					0.39	CUM	4163.00	1623.57
3	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: 3.12.1 Thermo-Mechanically treated bars FE 415								
		Qty. as per item No.-3.2.1				0.39			
	(SOR ITEM NO.-3.12.1/24)		70 kg/cum			19.5	KG	54.50	1062.75
4	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.-7.5.4/45)	1	4.80	0.20	1.40	1.34	CUM	3263.00	4385.47

5	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately)								
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	1	1.00	1.00	0.40	0.40	CUM	863.00	345.20
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	1	1.00	1.00	0.30	0.30	CUM	806.00	241.80
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	1	1.00	1.00	0.20	0.20	CUM	471.00	94.20
	<b>(BUILDING SOR ITEM NO.-21.14/201)</b>								
	<b>PIPELINE-</b>								
6	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	In all types of soil (FOR PIPELINE)	1	50.0	0.30	0.30	4.50	CUM	185.00	832.50
	<b>(BUILDING SOR ITEM NO.-1.1/9)</b>								
7	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	50% of Item No 1	-	-	-	-	2.25	CUM	65.00	146.25
	<b>(BUILDING SOR ITEM NO.-1.17/11)</b>								
8	Providing and filling in open area with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	50% of Item No 1 - Pipe Dia	-	-	-	-	2.25	CUM	371.00	834.75
	<b>(BUILDING SOR ITEM NO.-1.18/11)</b>								

9	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.								
	150 mm dia	1	50.00	-	-	50.00	RM	440.00	22000.00
	(BUILDING SOR ITEM NO.-18.76.3/170)								
Total Rs.									32001.00

  
**उप अभियंता**  
 नगर पंचायत छुईखदान

  
**मुख्य नगर पालिका अधिकारी**  
 नगर पंचायत छुईखदान  
 जि.-खैरागढ़-छुईखदान-गंडई(स.प.)



# NAGAR PANCHAYAT CHUIKHADAN (C.G.)

## STORAGE AREA FOR BALED & RECYCLABLE MATERIAL (11.50X5.00 M.)

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE	AMOUNT
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and inequalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).								
		Plot Area	1	13.50	7.00	-	94.50			
						Total	94.50	Sqm	7.20	680.00
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil								
		Footing								
		F1	8	1.20	1.50	1.50	21.60			
		Ground Beam								
		X-X Wall	4	2.56	0.30	0.20	0.61			
			2	2.58	0.30	0.20	0.31			
		Y-Y Wall	2	3.10	0.30	0.20	0.37			
		For Stair	2	1.60	0.60	0.20	0.38			
						Total	23.27	Cum	185.00	4306.00
3	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		F1	8	1.20	1.50	0.10	1.44			
		Ground Beam								
		X-X Wall	4	3.56	0.30	0.10	0.43			
			2	3.58	0.30	0.10	0.21			
		Y-Y Wall	2	4.20	0.30	0.10	0.25			
		For Stair	2	1.60	0.60	0.10	0.19			
		Floor Area	1	11.10	4.60	0.20	10.21			
						Total	12.73	Cum	371.00	4723.00
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		Below Footing								
		F1	8	1.20	1.50	0.10	1.44			
		Ground Beam								

		X-X Wall	4	3.56	0.30	0.10	0.43			
		Y-Y Wall	2	3.58	0.30	0.10	0.21			
		For Stair	2	4.20	0.30	0.10	0.25			
		Floor Area	2	1.60	1.00	0.10	0.32			
			1	11.10	4.60	0.10	5.11			
						Total	7.76	Cum	2970.00	23035.00
5	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		Footing								
		F1	8	1.00	1.30	0.30	3.12			
		Column (Upto Ground Level)								
		C1	8	0.20	0.40	1.00	0.64			
		Column(Ground Lvl to Plinth Lvl)								
		C1	8	0.20	0.40	0.30	0.19	3.95		
		Column (Abv. Plinth Top to GF Slab Top)								
		C1	8	0.20	0.40	3.10	1.98			
		Ground Beams								
		Outer at Ground Lvl								
		X-X Wall	4	3.56	0.20	0.30	0.85			
		Y-Y Wall	2	3.58	0.20	0.30	0.43			
		Lintel Beam	2	4.20	0.20	0.30	0.50			
		X-X Wall	4	3.56	0.20	0.15	0.43			
		Y-Y Wall	2	3.58	0.20	0.15	0.21			
		Chajja	2	4.20	0.20	0.15	0.25			
		For Door & Window								
		X-X Wall	5	1.40	0.60	0.075	0.32			
		Slab Beam								
		X-X Wall	4	3.56	0.20	0.40	1.14			
		Y-Y Wall	2	3.58	0.20	0.40	0.57			
		Slab	4	4.20	0.20	0.40	1.34			
		All Area	1	11.50	5.00	0.125	7.19			
						Total	19.16	Cum	4163.00	79763.00
6	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		Footing Excavated Qty.					21.60			
		Deduction								
		Sand Filling					-1.44			
		Footing P.C.C. Area					-1.44			
		Footing Area					-3.95			
						Total	14.77	Cum	65.00	960.00



7	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.1	Thermo-Mechanically treated bars FE 415								
		As per Item No-	1	19.16	-	-	19.16			
						Total	19.16	Cum		
		@ 100kg /Cum of Concrete	1	19.16	x	100.00	1916.00			
						Total	1916.00	Kg	54.50	104422.00
8	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Footing								
		F1	8	4.60	-	0.30	11.04			
		Column (Upto Ground Level)								
		C1	8	1.20	-	1.00	9.60			
		Column(Ground Lvl to Plinth Lvl)								
		C1	8	1.20	-	0.30	2.88			
		Ground Beams								
		Outer at Ground Lvl								
		X-X Wall	8	3.56	-	0.30	8.54			
			4	3.58	-	0.30	4.30			
		Y-Y Wall	4	4.20	-	0.30	5.04			
						Total	41.40	Sqm	139.00	5755.00
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		Column (Abv. Plinth Top to GF Slab Top)								
		C1	8	1.20	-	3.10	29.76			
						Total	29.76	Sqm	297.00	8839.00
	2.1.13	Weather shade, chhajja, Cornices and mouldings								
		For Door & Window								
		X-X Wall	5	1.40	0.60	-	4.20			
		Side	5	2.60	-	0.075	0.98			
						Total	5.18	Sqm	294.00	1523.00
	2.1.8	Beams, lintels, cantilevers & walls								
		Lintel Beam								
		X-X Wall	8	3.56	-	0.15	4.27			
			4	3.58	-	0.15	2.15			
		Y-Y Wall	4	4.20	-	0.15	2.52			
		Slab Beam								
		X-X Wall	8	3.56	-	0.40	11.39			
			4	3.58	-	0.40	5.73			
		Y-Y Wall	8	4.20	-	0.40	13.44			
						Total	39.50	Sqm	202.00	7979.00



	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Slab								
		All Area	1	11.50	5.00	-	57.50			
						Total	57.50	Sqm	235.00	13513.00
	2.1.4	Edge of slab, breaks in floor and walls upto 200mm								
		Slab Edges at Slab Lvl	1	33.00	-	-	33.00			
						Total	33.00	Rm	34.00	1122.00
9	7.5	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		For Stair								
			2	1.60	0.50	0.10	0.16			
			2	1.60	0.25	0.10	0.08			
						Total	0.24	Cum	3263.00	783.00
10	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Above Plinth								
		X-X Wall	4	3.56	0.20	3.00	8.54			
			2	3.58	0.20	3.00	4.30			
		Y-Y Wall	2	4.20	0.20	3.00	5.04			
		Deduction								
		D	2	1.20	0.20	2.10	-1.01			
		W	3	1.20	0.20	1.20	-0.86			
						Total	16.01	Cum	3384.00	54178.00
11	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
		Slab Area	1	11.10	4.60		51.06			
		Add Extra 10 %					5.11			
						Total	56.17	Sqm	87.00	4886.00
12	11.2	Providing and making 12mm thick cement plaster of mix:								
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
		Inner Area								
		X-X Wall	2	11.10		3.00	66.60			
		Y-Y Wall	2	4.60		3.00	27.60			
		For Column	8	0.20		3.00	4.80			
		Deduction								

		D	2	1.20		2.10	-5.04			
		W	3	1.20		1.20	-4.32			
						Total	89.64	Sqm	91.50	8202.00
13	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	11.3.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
		Outer Plaster								
		X-X Wall	2	11.50	-	3.10	71.30			
		Y-Y Wall	2	5.00	-	3.10	31.00			
		Deduction								
		D	2	1.20		2.10	-5.04			
		W	3	1.20		1.20	-4.32			
						Total	92.94	Sqm	107.00	9945.00
14	12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement								
	12.3.2	50 mm thick	1	11.10	4.60		51.06	Sqm	254.00	12969.24
15	As per Ammendment no 08, 05/05/2025 item no.14.57	Providing and applying 2mm thick white cement based Acrylic grade putty with minimum 3 coats applied @ 4.0 kg/ 10Sqm as per relevant IS code 17545:2021 (Product such as Asian trucare, Berger Happy walls Putty Birla Opus One pro smooth) to make the surface smooth and even with all tools tackles and labour etc. complete for the work . (This Item to be use in heigher grade painting works Item No. 14.65)								
		As per item No-	11	-	-	-	56.17			
		As per item No-	12	-	-	-	89.64			
		As per item No-	13	-	-	-	92.94			
						Total	238.75	Sqm	95.00	22681.00
16	As per Ammendment no 08, 05/05/2025 item no.14.62	Providing and applying Acrylic washable Distemper or lite economy Plastic emulsion paint having VOC content less than 50gms/ lit Minimum two coats up to final finish applied @ 1.25 Kg/ 10Sqm as per relevant L.S. Code 428:2000 (product such as Tractor Uno, Dulux Duval, Berger Bison, Opus Style/lite economy emulsion product such as Asian Tactor Spark Dulux Pomise sheen, Neroloc Lital Master, Berger Bison Lite, Nippon Superio.) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour complete for the work.								



		As per item No-	11	-	-	-	56.17			
		As per item No-	12	-	-	-	89.64			
						Total	145.81	Sqm	64.00	9332.00
17	As per Ammend ment no 08, 05/05/202 5 item no.14.67	Providing and applying on exterior surface with ECONOMY Exterior Emulsion paint of required shades to give protective and water proof finish minimum three coats applied @ 1.43 lit / 10Sqm up to final finish as per relevant I.S, Code 15489:2013 Type -2 Class D,C (Glossy /Semi Glossy finish ) (Product such as Asian Ace,Dulux Promise Exterior Berger Wall Masta ,Nerolac Suraksha Plus , Nippon Shogun Opus, One Style Power Bright) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work (With 2 Year Warranty)								
		As per item No-	13	-	-	-	92.94			
						Total	92.94	Sqm	70.00	6506.00
18	4.21	Providing post water proofing treatment against dampness & Seepage in roof, terraces, sunken floor of toilets with reinforced acrylic breathable (polymer content 35%, elongation at break at > 100%) coating consisting of following operations: i) Removing loose material and cleaning the surface. ii) Priming in one coat with water based acrylic emulsion. iii) Three coats with reinforced acrylic breathable polymer								
		Slab Area	1	11.50	5.00		57.50			
						Total	57.50	Sqm	611.00	35133.0

  
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19	9.18	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.							
	9.18.4	Single rebate/ mullion 100mmx50mm size, 1.6mm thick sheet.							
		Door	2	6.60			13.20		
							13.20	Metre	474.00 6256.80
20	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.							
		Window	3	1.20	-	1.20	4.32		
							4.32	Sqm	
		For Qty of steel= Area x 30.00 kg/Sqm	1	4.32	x	30.00	129.60		
						Total	129.60	kg	67.50 8748.00
21	9.13	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.							
		Door	2	1.20		2.10	5.04		
		Window	3	1.20		1.20	4.32		
							9.36		
		For Qty of steel= Area x 30.0 kg/Sqm		9.36	x	30.00	280.80	kg	75.00 21060.00

22	As per Ammend ment no 08, 05/05/202 5 item no.14.72	Providing and applying Glossy finish Enamel paint mimimum 2 Coats in al surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevent I.S. code 2932: 2013 of (Product such as Asian Apcolite Premium Enamel Dulux Promise Premium Enamel Nerolac Synthatic Enamel, Opus Prime enamel ) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackle and labour etc. complete for the work.							
		On Steel work							
		Door	4	1.20		2.10	10.08		
		Window	6	1.20	-	1.20	8.64		
						Total	18.72 Sqm	120.00	2246.00
23	9.37	Providing and fixing M.S. fan clamp/ hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.							
			3	-	-	-	3.00		
						Total	3.00 Each	97.00	291.0
								Total	459837.04
									41385.33
		Electrification	0.09						
								G. Total	501222.37

  
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# REVAMPING OF TOILET

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE	AMOUNT
1	As per Ammendme nt no 08, 05/05/2025 item no.14.53	White washing/ Colour washing with lime to give an even Sqm shade in Three or more Coats for New surface as per relevant IS code 6278:1971 Consumption of lime 3.50kg /10 Sqm with all tools tackles and labour etc. complete for the work.								
		Slab	2	1.20	1.64		3.94			
			1	1.00	1.10		1.10			
			2	0.65	0.44		0.57			
		inner wall	4	1.64		2.10	13.78			
			2	1.10		2.10	4.62			
			4	0.65		2.10	5.46			
			4	1.20		2.10	10.08			
			2	1.00		2.10	4.20			
			2	0.44		2.10	1.85			
		Deduction								
		D2	3	0.75		2.10	-4.73			
		V	3	0.45		0.30	-0.41			
							40.46			
		outer wall	2	4.10		2.20	18.04			
			2	2.10		2.20	9.24			
		Deduction								
		D2	3	0.75		2.10	-4.73			
		V	3	0.45		0.30	-0.41			
							22.15			
						Total	62.61	Sqm	14.00	877.00
2	As per Ammendme nt no 08, 05/05/2025 item no.14.62	Providing and applying Acrylic washable Distemper or lite economy Plastic emulsion paint having VOC content less than 50gms/ lit Minimum two coats up to final finish applied @ 1.25 Kg/ 10Sqm as per relevant L.S. Code 428:2000 (product such as Tractor Uno, Dulux Duval, Berger Bison, Opus Style/lite economy emulsion product such as Asian Tactor Spark Dulux Pomise sheen, Neroloc Litol Master, Berger Bison Lite, Nippon Superio.) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour complete for the work.								
						Total	40.46			



3	As per Ammendme nt no 08, 05/05/2025 item no.14.67	Providing and applying on exterior surface with ECONOMY Exterior Emulsion paint of required shades to give protective and water proof finish minimum three coats applied @ 1.43 lit / 10Sqm up to final finish as per relevant I.S, Code 15489:2013 Type - 2 Class D,C (Glossy /Semi Glossy finish ) (Product such as Asian Ace,Dulux Promise Exterior Berger Wall Masta ,Nerolac Suraksha Plus , Nippon Shogun Opus, One Style Power Bright) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work (With 2 Year Warranty)								
			-	-	-	22.15				
					Total	22.15	Sqm	70.00	1551.00	
4	19.42	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank								
			1			500.00	Litre	7.30	3650.00	
								Total	8668.00	

  
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## NAGAR PANCHAYAT CHUIKHADAN (C.G.)

### ANNEXURE D - DETAILED SPECIFICATION OF WEIGH BRIDGE

PARAMETER	SPECIFICATIONS/DESCRIPTION
Bridge Type	Electronic Pitless Type
Platform material & Size	1. High Tensile Structural Steel as per IS:2062:2011
	2. Should be anti-skid type.
	3. Thickness of platform plate not less than 10 mm
	4. Size 6.6 metre and 2.5 metre (length X width)
Weighing Capacity	10 Tonne
Load cell	4 Load cell
UPS	30 minute backup
Printer	Laser Printer
Display modes	a) Indicate weight
	b) Indicate calibration-Auto zero tracking
	c) Calibration to be checked automatically every 5 minutes
Readability	2 Kg
Type/capacity of load cell	Digital Double Ended Shear Beam load cells, pre-calibrated load cells – 5000/kg (04 No.) with mounting kits
Accessories of Junction Box (01 Set)	Cables: Home run cable 20 metre & inter connections cable between load cell and junction box & weighing electronics.
Electric supply	3 Phase (440 V 50Hz)
Surface finish on metal parts	Powder coating/ paint
Surface finish on metal parts	Powder coating/ paint
Note: Weighbridge must be capable of sharing real time data of weighment and integration with dashboard at ULB and State Level. Internet connection may be provided by the ULB.	

  
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## NAGAR PANCHAYAT CHUIKHADAN (C.G.)

### ANNEXURE E - DETAILED SPECIFICATION OF FLAT CONVEYOR BELT

PARAMETER	SPECIFICATIONS/DESCRIPTION
Length of Conveyor	Approx. 7 m from End to End of conveyor
Width of Conveyor Belt	700 mm
Height of Conveyor	800 mm
Type	Flat roller type belt conveyor
Motor	3.75 kW (5 HP), 1440 RPM, TEFC (Totally Enclosed Fan Cooled) copper wire conforming to IS : 13730, 3- phase, 4- pole
Inclination	0°
Size of belt	1000 mm wide ( working width 800 mm)
Belt Specification	Plain rubber belt, 3 ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cord conforming to M 24 grade
Drive pulley for conveyor	320 mm OD with crowning surface with 65 mm shaft with rubber coating and hearing bone design
Rear pulley for conveyor	320 mm OD with crowning surface with 65 mm shaft with rubber coating and hearing bone design
Side Guard	2 mm thick MS sheet with supporting structure
Side guard skirting	2 mm thick rubber belt
Conveyor body	Manu. From IS 2062, 4 mm thickness plate framing structure
Rear pulley cover	2 mm thick MS sheet
Bearing for roller	6205 2RS type
Shaft	Precise Machined from EN-24 grade material
Guide rollers	60 mm pipe with bright bar spindle and sealed with single roll anti friction deep grooved ball bearing
Carrying & return roller	76.1 mm ID ERW pipe with CI housing, bright bar spindle and sealed with single roll anti friction deep grooved ball bearing
Bearing	Angular contact type with fitted in split housing
Idler Spacing confirming to IS 9295-1983	Carrying Idler – 600 to 800 mm,
	Return Idler - 1200 to 1500 mm



Belt join	Endless type belt
Scrappers	Driver side: Flat Scrapper
	Rear Pulley: V plough type
Take up	Screw type take up design at front side of Conveyor
Gear Box	Worm type, 20:1 ratio, Hollow input & output
Belt speed	1.2 m/sec
Pulley RPM	72 RPM
Conveyor direction	Uni- directional (One side)
VFD specification	VFD suitable for speed control of conveyor belt motor ranging from 50% to 100% of rated speed
Speed Control	0.6 to 1.2 m/sec ( using gear & VFD)

  
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 नगर पंचायत छुईखदान  
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## NAGAR PANCHAYAT CHUIKHADAN (C.G.)

### ANNEXURE F - DETAILED SPECIFICATION OF HDPE CONTAINER

PARAMETER	SPECIFICATIONS/DESCRIPTION
Capacity	100 litre
Material	High Density Polyethylene (HDPE)
Type	Injection molded
High resistance to	Heat & Chemicals
Pay load	Municipal Solid Waste
Confirming Standards	Appropriate Indian Standards
Wheels	Yes, Durable rubberized/PU/equivalent
Hand Grips	Yes

  
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## NAGAR PANCHAYAT CHUIKHADAN (C.G.)

### ANNEXURE G - DETAILED SPECIFICATION OF BAALE TROLLY

PARAMETER	SPECIFICATIONS/DESCRIPTION
Carrying Capacity	250 kg (Minimum)
Size	40" L X 20" W x 10" Height of Toe (Minimum)
Trolley Material	Mild Steel
Wheels	2 Nos to 4 Nos
Wheel Material	High quality polymer wheels (8-10 Inch dia)
Surface Finish	Powder Coated or Painted (Rust-proof)
Operating Type	Manual (Hand-operated)2
Shape	Rectangular or L-type
Load Platform Height	Approx. 10" to 12" from ground level

  
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**NAGAR PANCHAYAT CHUIKHADAN (C.G.)**

## ANNEXURE H - DETAILED SPECIFICATION OF SURVEILLANCE CAMERA

PARAMETER	SPECIFICATIONS/DESCRIPTION
No. of CCTV Camera at Plant	Min. 6 No. of CCTV Cameras at each plant
8 Channel DVR	8 channels and 1 HDD DVR, Up to 12 IP cameras can be connected, Efficient compression technology
5 MP Built in Mic Bullet Camera	5 MP, 2560 × 1944 resolution, Audio over coaxial cable, built-in mic, Smart IR, up to 25 m IR distance, 4 in 1 video output (switchable TVI/AHD/CVI/CVBS)
5 MP Built in Mic Dome Camera	5 MP, 2560 × 1944 resolution, Smart IR, upto 20m, IR distance, Audio over coaxial cable, built-in mic, 4 in 1 video output (switchable TVI/AHD/CVI/CVBS)
Hard Disk 1 TB	Full Surveillance Hard Disk With 2 Year Warranty
3+1 Solid Copper Cable	Full Solid Copper, 90 Meter
Power Supply Ch-8	Burning Warranty claim
PVC Box 4x4	Solid PVC
BNC Connector	Per Camera 2 Pcs Required
DC Connector	Per Camera 1 Pcs Required
Note: CCTV surveillance system must be capable of sharing real time AV feeds, data and integration with dashboard at ULB and State Level. Internet connection may be provided by the ULB.	

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नगर पंचायत छुईखदान  
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## NAGAR PANCHAYAT CHUIKHADAN (C.G.)

### ANNEXURE I - DETAILED SPECIFICATION OF TURBINE VENTILATOR

PARAMETER	SPECIFICATIONS/DESCRIPTION
Turbine Diameter	24" to 36" (610 mm to 915 mm)
Number of Vanes	30 to 48
Bearings	Double Ball Bearing or bearing-less spider frame
Base Plate Material	FRP (Fiber Reinforced Plastic), Polycarbonate, or Galvanized Iron (GI)
Airflow Capacity	1500–2500 CFM per unit (depends on wind speed and size)
Wind Resistance	Up to 180 km/h
Operating Principle	Wind-driven + thermal convection (no electricity required)
Roof Compatibility	RCC, metal, asbestos, GI sheet roofs
Mounting Method	Bolted or riveted with waterproof sealant

  
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# **VOLUME 03**



**DRAWING & SECTION FOR EXISTING SLRM & COMPOST  
PLANT AT WARD NO. - 15, NAWAGAON,  
CHHUIKHADAN (C.G.)**

**उप अभियंता**  
नगर पंचायत छुईखदान

  
**मुख्य नगर पालिका अधिकारी**  
नगर पंचायत छुईखदान  
जि.-खैरागढ़-छुईखदान-गंडई(उ.ग.)

PROPOSED CONVEYOR BELT  
 STORAGE AREA  
 PROPOSED KOTA STONE  
 PROPOSED TURBINE VENTILATOR  
 PROPOSED TIPPING AREA (4.00X3.50)  
 REVAMPING OF TOILET  
 PROPOSED WEIGH BRIDGE  
 PROPOSED RAIN WATER HARVESTING  
 SLOW COMPOST SHED 2 TPD  
 0. LEACHATE COLLECTION TANK



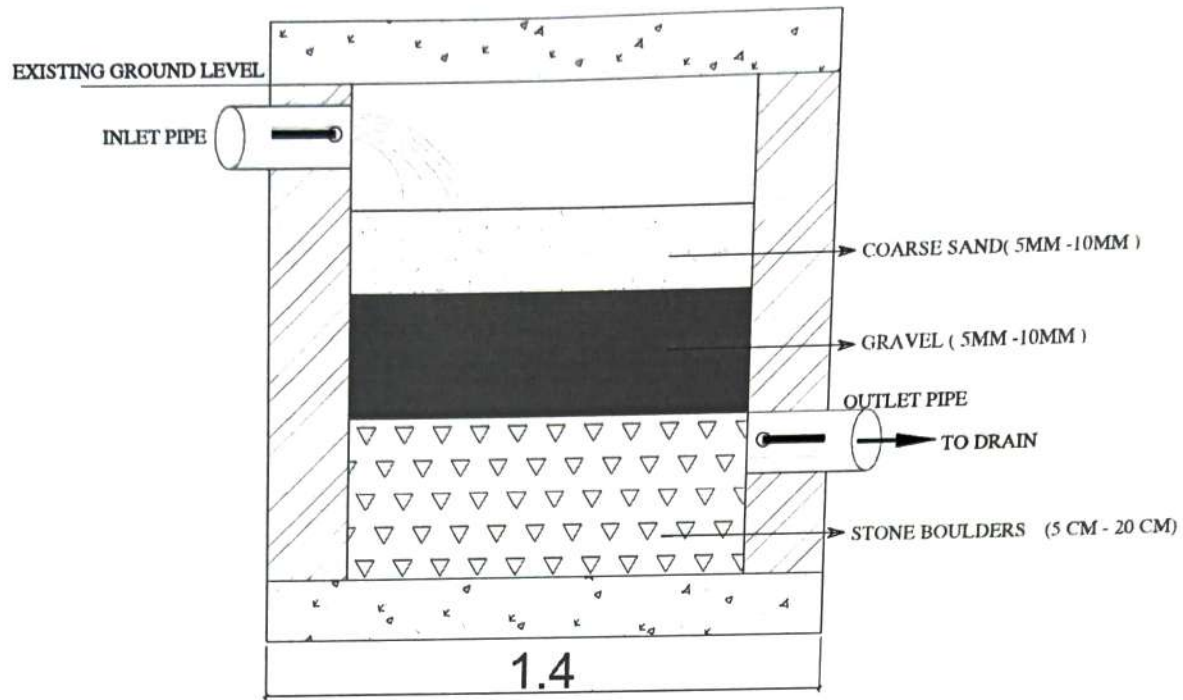
EXISTING PLAN
PROPOSED PLAN
UPGRADATION
PROPOSED INFRASTRUCTURE UNDER OTHER SCHEME
DEMOLISHED

**TITLE :-**

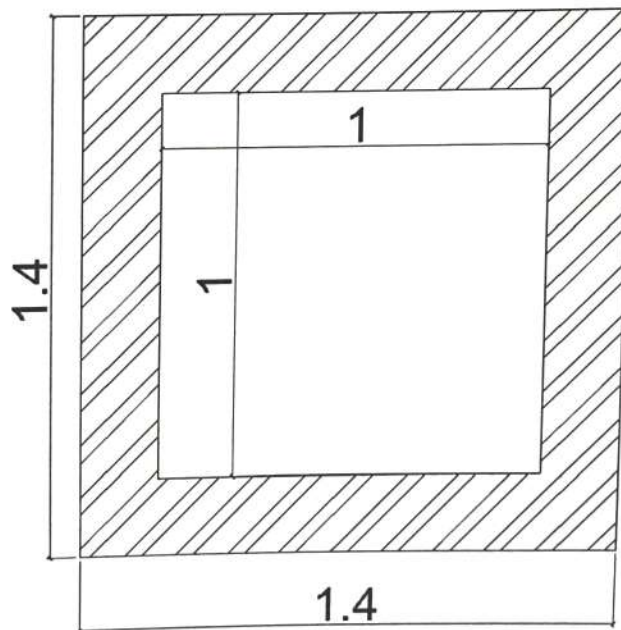
LAY - OUT PLAN AT -SLRM CENTER & COMPOST  
PLANT, WARD NO.- 15, NAWAGAON, CHUIKHADAN  
(C.G.)

उप अभियंता  
नगर पंचायत मुईखदान

मुख्य नगर पालिका अधि. १९७२  
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SECTION OF RAIN WATER HARVESTING



PLAN OF RAIN WATER HARVESTING

TITLE :-

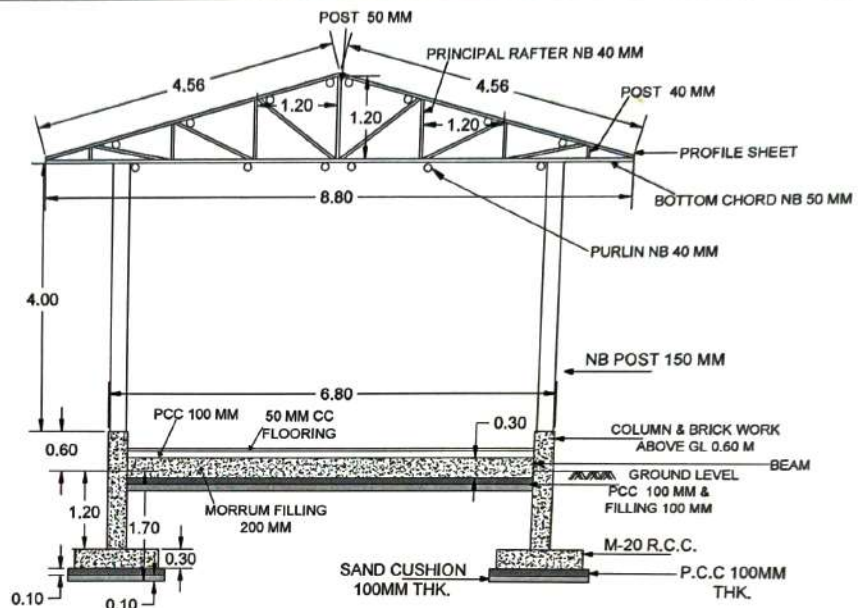
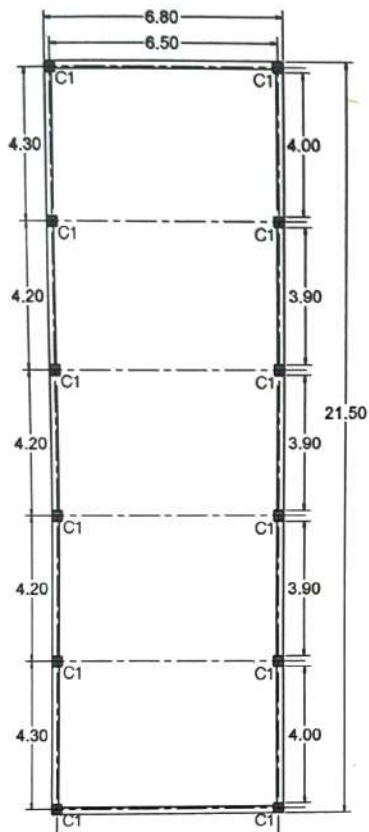
RAIN WATER HARVESTING

ARCHITECT & ENGINEER  
NAMAN BHATT & ASSOCIATES  
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SECTOR 10 BHILAI, DURG (C.G)  
PIN - 491001  
PHONE - 07882216777, 9630868978  
SURVEYOR

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नगर पंचायत छुईखदान  
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COLUMN DETAILS		
COL. TYPE	COLUMN SECTION	
	UPTO PLINTH	ABOVE PLINTH
C1 300X300	 MAIN BARS: 8NOS 12MM# RINGS: 8MM# 150C/C	 MAIN BARS: 8NOS 12MM# RINGS: 8MM# 150C/C

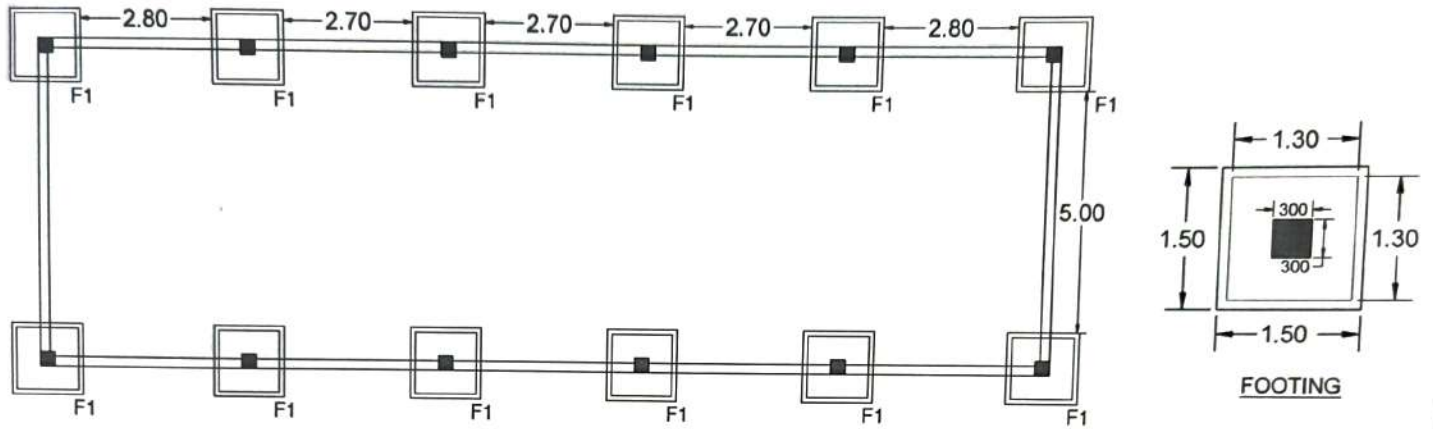
TITLE :-

PLAN & COLUMN LAYOUT DETAILS OF  
2 TPD WINDROW COMPOST PLANT

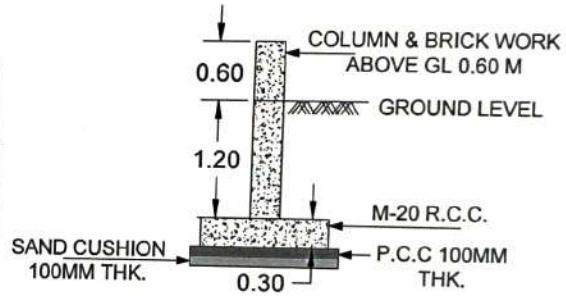
ARCHITECT & ENGINEER  
NAMAN BHATT & ASSOCIATES  
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SECTOR 10 BHILAI, DURG (C.G)  
PIN - 491001  
PHONE - 07882216777, 9630868978  
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FOOTING DETAILS						
SN	FOOTING NO.	FOOTING DETAILS			REINFORCEMENT DETAILS	
		L	B	D	ALONG B	ALONG L
1	F1	1500	1500	1700	T12@150 C/C	T12@150 C/C

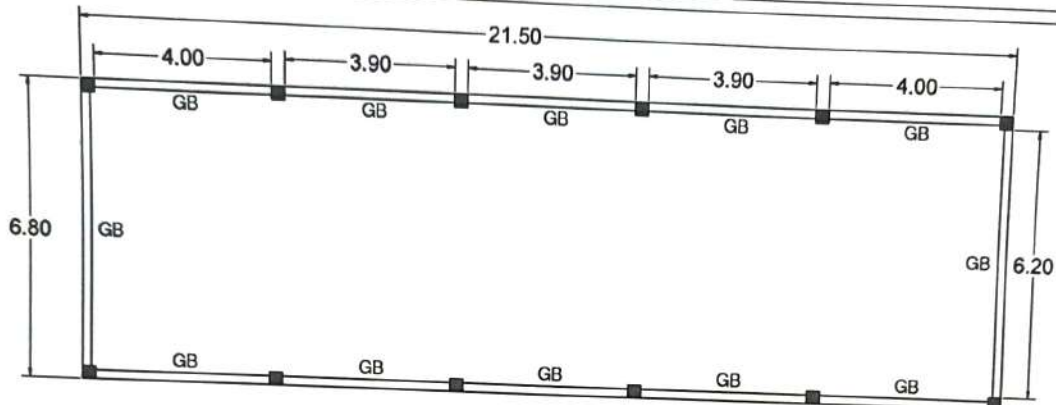


### FOOTING DETAILS

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GROUND BEAM SCHEDULE (M20:Fe500) (TYPICAL GROUND BEAM DETAILS ) SEE FIG.-2

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	BOTTOM R/F (THRU.)	BOTTOM R/F EXTRA AT MID SPAN	TOP R/F (THRU.)	TOP EXTRA R/F AT LEFT SUPPORT	TOP EXTRA R/F AT RIGHT SUPPORT	LEFT	MID SPAN	RIGHT
GB	200	300	2-T12	1-T12	2-T12	1-T12	1-T12	2L-T8@150	2L-T8@150	2L-T8@150

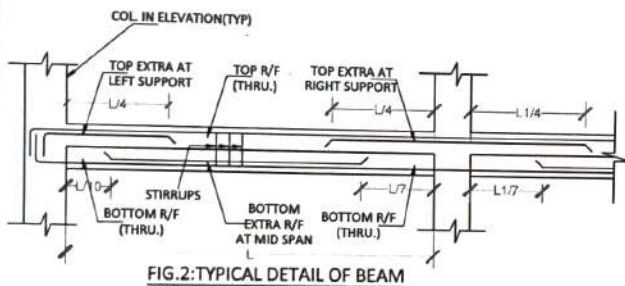


FIG.2: TYPICAL DETAIL OF BEAM

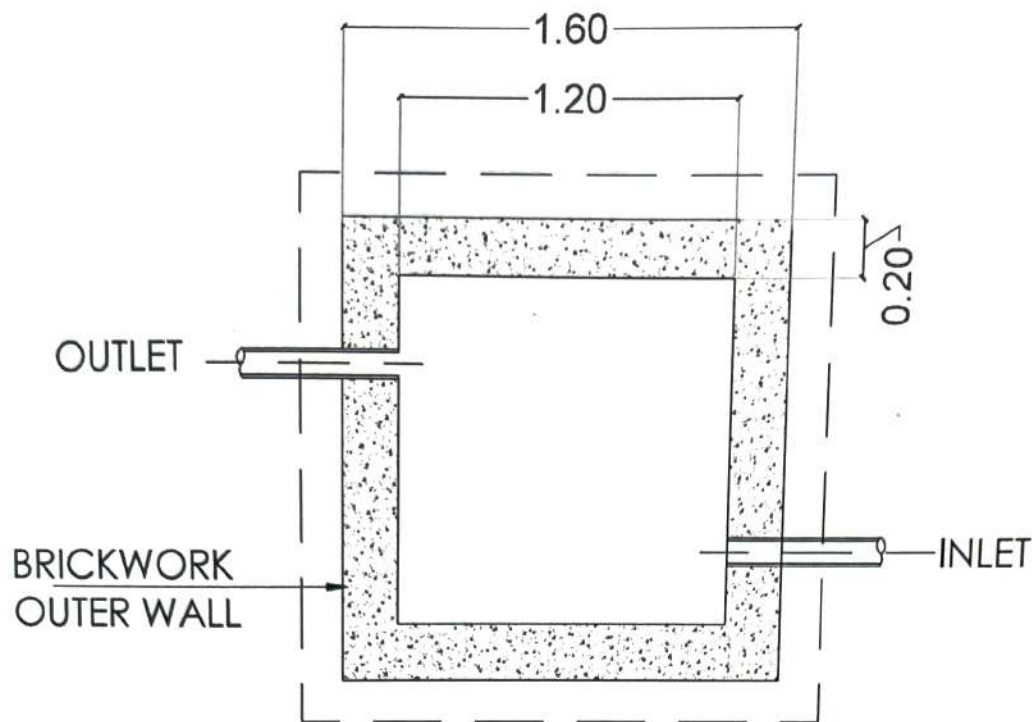
## GROUND BEAM DETAILS

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SURVEYOR

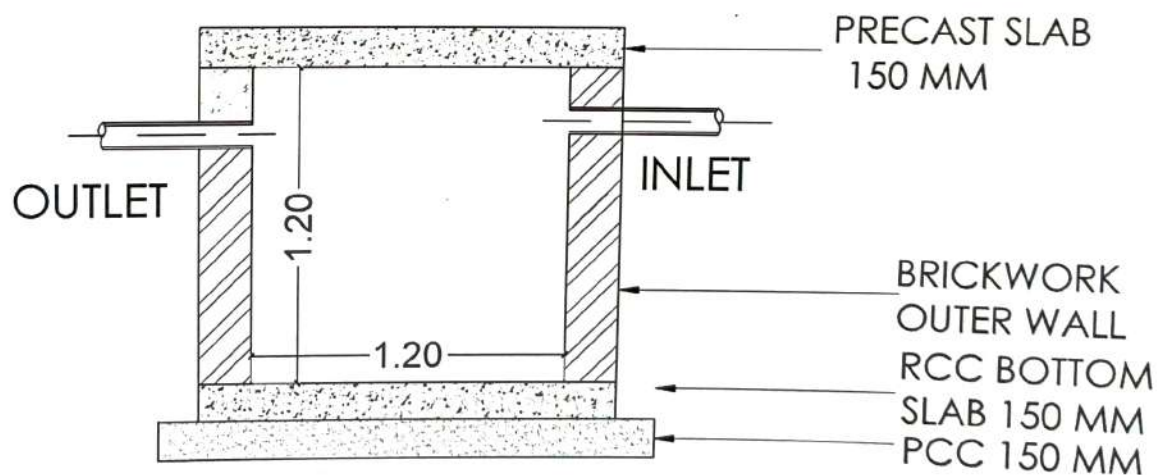
उप अभियंता  
नगर पंचायत छुईखदान

मुख्य नगरपालिका अधिकारी  
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LEACHATE TANK PLAN  
1.20 X 1.20 X 1.20 M



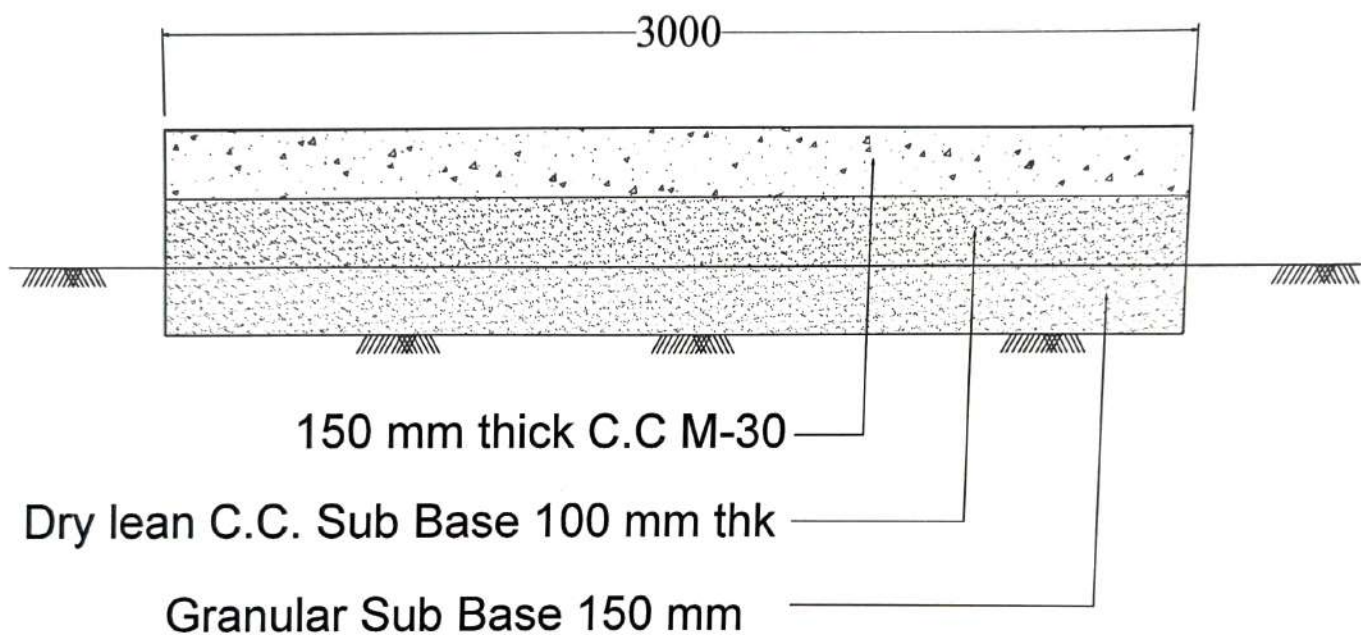
**TITLE :-**

**LEACHATE COLLECTION  
TANK**

ARCHITECT & ENGINEER  
NAMAN BHATT & ASSOCIATES  
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SECTOR 10 BHILAI, DURG (C.G)  
PIN - 491001  
PHONE - 07882216777, 9630868978  
SURVEYOR

उप अभियंता  
नगर पंचायत छुईखदान

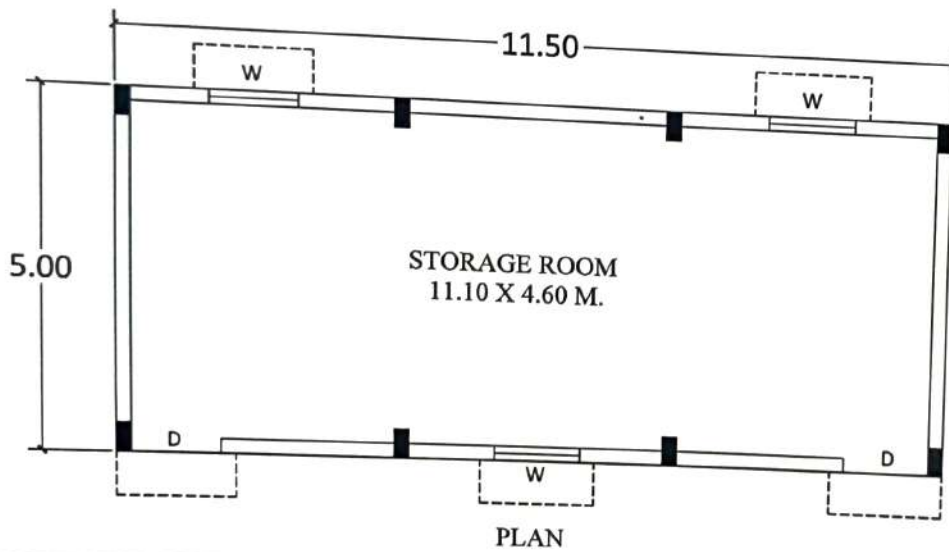
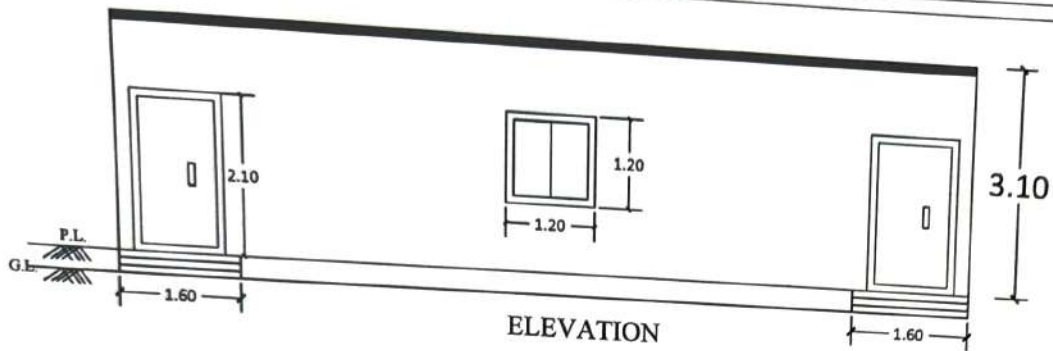
मुख्य नगरपालिका अधिकारी  
नगर पंचायत छुईखदान  
जि.-खैरागढ़-छुईखदान-गंडई (छ.ग.)



<b>PROJECT:-</b>				ARCHITECT & ENGINEER NAMAN BHATT & ASSOCIATES BESIDE MAINTENANCE OFFICE SECTOR 10 BHILAI, DURG (C.G) PIN - 491001 PHONE - 07882216777, 9630868978 SURVEYOR
PROPOSED DESIGN OF C.C.ROAD	SUB ENGINEER	ASSISTANT ENGINEER	ENGINEER ENGINEER	

  
**उप अभियंता**  
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**मुख्य नगर पालिका अभियंता**  
नगर पंचायत छुईखदान  
जि.-खैरागढ़-छुईखदान-गंडई(छ)

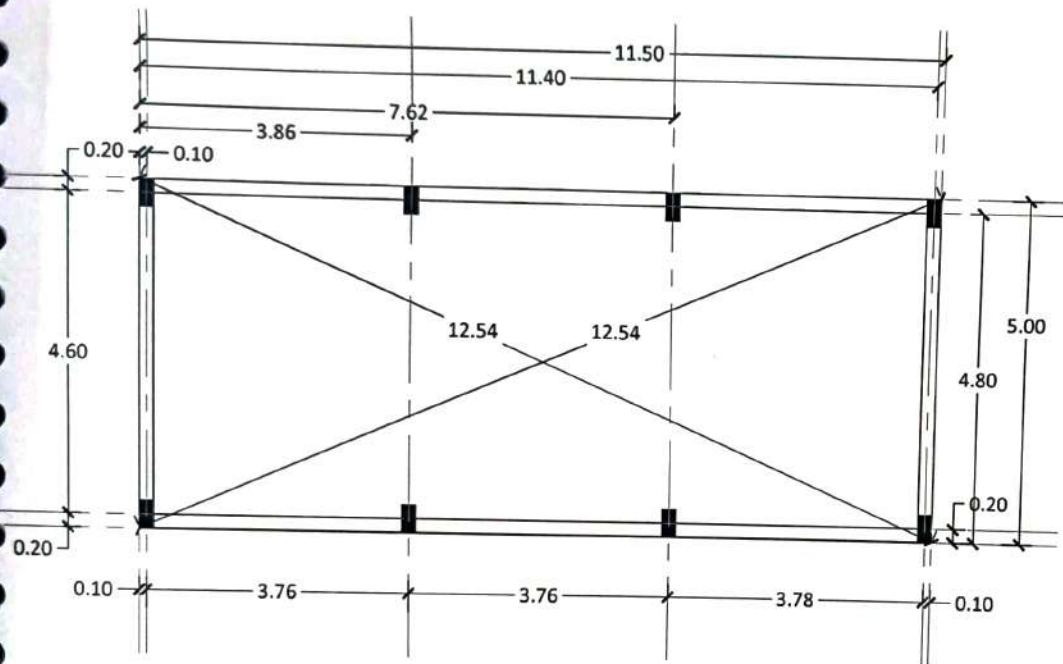


CT :-  ge Area for Beled & Recyclable rial		SCHEDULE	ARCHITECT & ENGINEER NAMAN BHATT & ASSOCIATES BESIDE MAINTENANCE OFFICE SECTOR 10 BHILAI, DURG (C.G) PIN - 491001 PHONE - 07882216777,9630868978 SURVEYOR
		DOOR - 1.20X2.10 M. WINDOW - 1.20X1.20 M.	

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नगर पंचायत छुईखदान  
जि.-खैरागढ़-छुईखदान-गंडई(उ.प्र.)



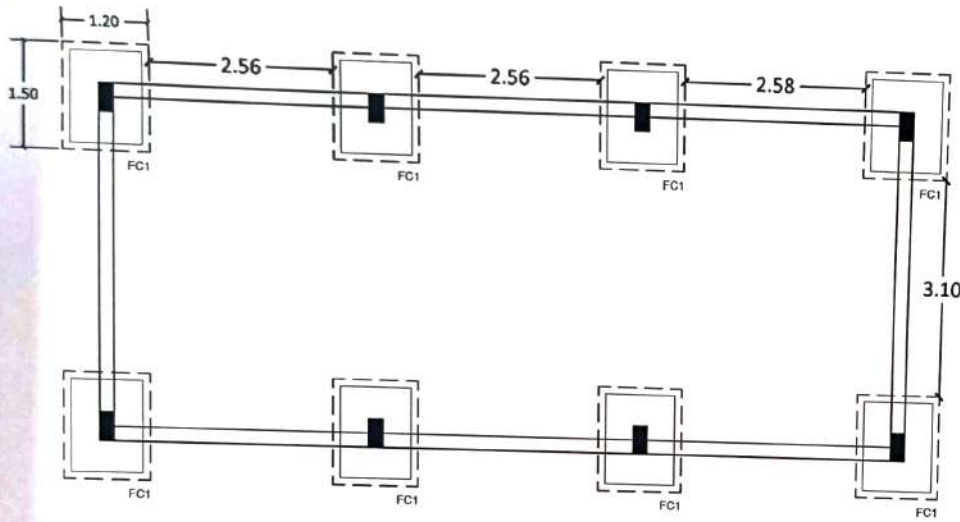


**CENTRE LINE PLAN**

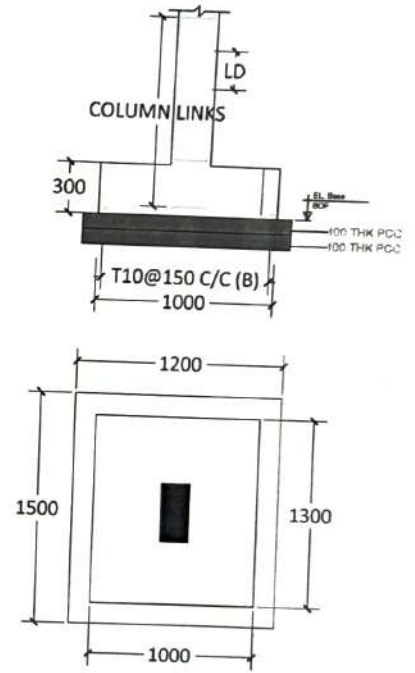
UP TO GROUND FLOOR	M20 Fe500
	LINKS
	TB@150c/c
	50MM 400 200 6-T12
COLUMN SIZE	200X400
COLUMN MARKED	C1

उप अभियंता  
नगर पंचायत छुईखदान

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नगर पंचायत छुईखदान  
जि.-खैरागढ़-छुईखदान-गंडई (C-1)



### FOOTING DETAILS



COLUMN FOOTING SECTION 1-1  
DETAIL OF FOOTING FC1

FOOTING SCHEDULE (M20:Fe500)

FOOTING NUMBERS	EXCAVATION SIZE			FOOTING DIMENSION			FOOTING REINFORCEMENT			
	L	B	D/H	L	B	D	BOTTOM		TOP	
							ALONG B	ALONG L	ALONG B	ALONG L
FC1	1.20	1.50	1.50	1.00	1.30	300	T10@150 C/C	T10@150 C/C	-	-

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नगर पंचायत छुईखदान  
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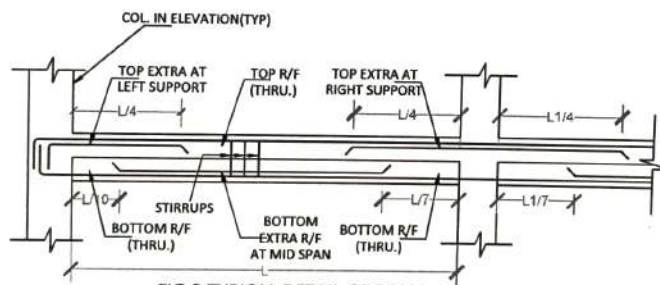
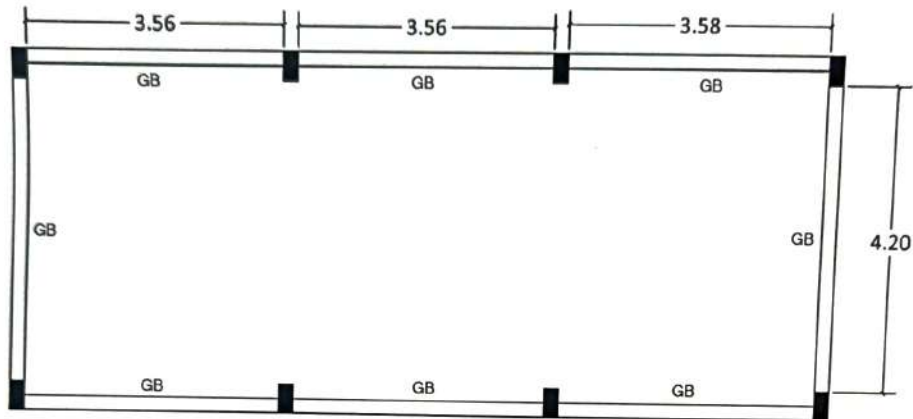


FIG.2: TYPICAL DETAIL OF BEAM

BEAM SCHEDULE (M20:Fe500) (TYPICAL GROUND BEAM DETAILS) SEE FIG.-2

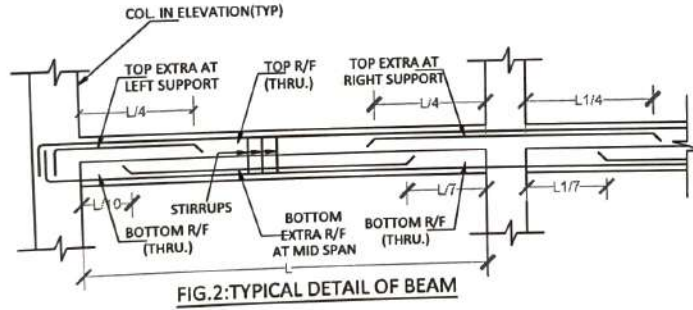
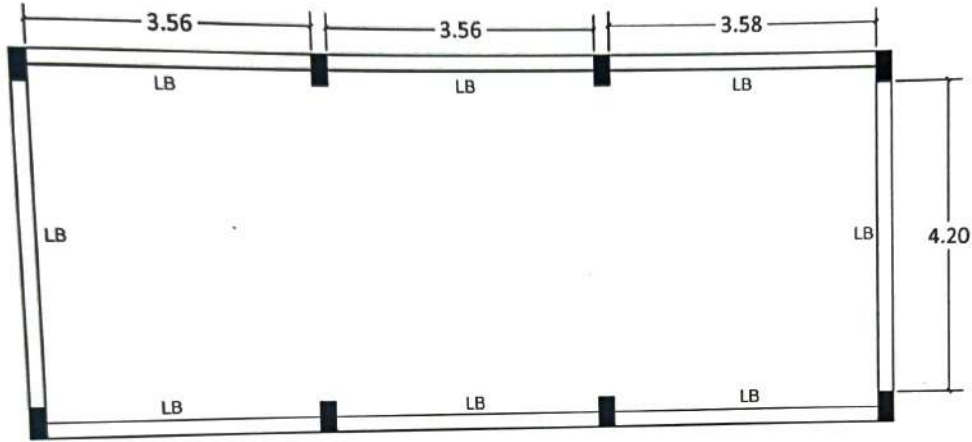
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	BOTTOM R/F (THRU.)	BOTTOM R/F EXTRA AT MID SPAN	TOP R/F (THRU.)	TOP EXTRA R/F AT LEFT SUPPORT	TOP EXTRA R/F AT RIGHT SUPPORT	LEFT	MID SPAN	RIGHT
GB	200	300	2-T12	1-T12	2-T12	1-T12	1-T12	2L-T8@150	2L-T8@150	2L-T8@150

### GROUND BEAM DETAILS

  
 उप अधीकर  
 नगर पंचायत छुईखदान

  
 मुख्य नगर पालिका अधीकर  
 नगर पंचायत छुईखदान  
 जे.-खैरागढ़-छुईखदान-गंडई(ए)





BEAM SCHEDULE (M20:Fe500) (TYPICAL LINTEL BEAM DETAILS ) SEE FIG.-2

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	BOTTOM R/F (THRU.)	BOTTOM R/F EXTRA AT MID SPAN	TOP R/F (THRU.)	TOP EXTRA R/F AT LEFT SUPPORT	TOP EXTRA R/F AT RIGHT SUPPORT	LEFT	MID SPAN	RIGHT
LB	0.20	0.15	2-T12	-	2-T12	-	-	2L-T8@150	2L-T8@150	2L-T8@150

### LINTEL BEAM DETAILS

  
 उप अभियंता  
 नगर पंचायत छुईखदान

  
 मुख्य नगर पालिका अधिकारी  
 नगर पंचायत छुईखदान  
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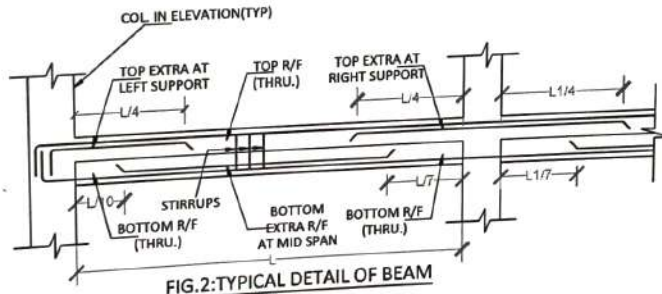
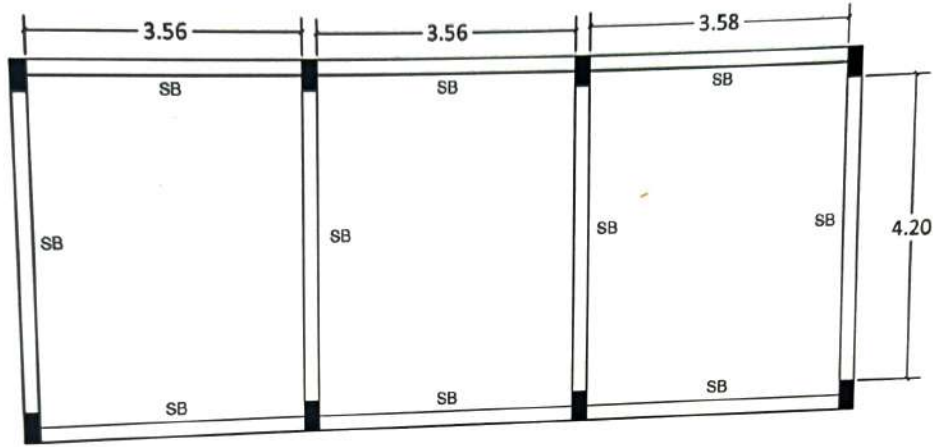


FIG. 2: TYPICAL DETAIL OF BEAM

BEAM SCHEDULE (M20:Fe500) (TYPICAL SLAB BEAM DETAILS) SEE FIG.-2

BEAM SCHEDULE (M20:Fe500) (TYPICAL SLAB BEAM DETAILS ) SEE FIG.-2

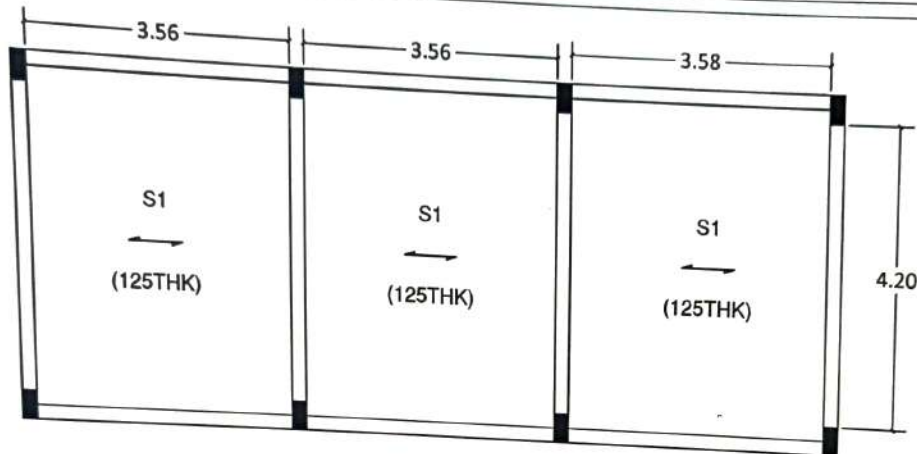
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	BOTTOM R/F (THRU.)	BOTTOM R/F EXTRA AT MID SPAN	TOP R/F (THRU.)	TOP EXTRA R/F AT LEFT SUPPORT	TOP EXTRA R/F AT RIGHT SUPPORT	LEFT	MID SPAN	RIGHT
SB	0.20	0.40	2-T16	1-T16	2-T16	1-T12	2-T12	2L-T8@150	2L-T8@150	2L-T8@150

BEAM DETAILS

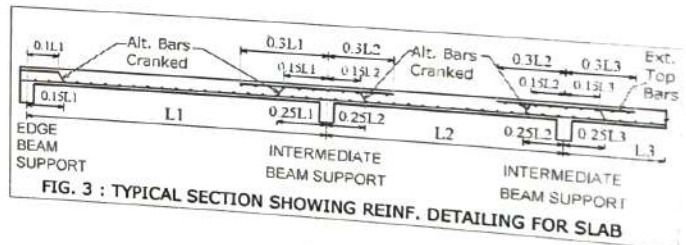
## SLAB BEAM DETAILS

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मुख्य नगर पालिका अधिकारी  
नगर पंचायत छुईखदान  
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- [1] IN SLABS, BENT UP BARS (OR EXTRA TOP BARS) SHALL BE EXTENDED UP TO 0.3L IN ADJACENT OVER CONTINUOUS SUPPORT.
- [2] AT MID-SPAN LOCATIONS, BARS NEAR THE BOTTOM FACE SHOULD BE PLACED SUCH THAT THE S ALONG SHORT SPAN ARE BELOW THE BARS ALONG LONG SPAN.
- [3] AT BEAM SUPPORT LOCATIONS, BARS NEAR THE TOP FACE SHOULD BE PLACED SUCH THAT THE S ALONG SHORT SPAN ARE ABOVE THE BARS ALONG LONG SPAN.
- [4] PROVIDE TORSION REINFORCEMENT, AS PER I.S. CODAL PROVISION (IS:456:2000).
- [5] GRADE OF CONCRETE : M20; GRADE OF STEEL : Fe500.



DETAILS OF TERRACE FLOOR SLAB REINFORCEMENT  
(SEE FIG.-3 FOR POSITIONING AND DETAILING OF SLAB REINFORCEMENT)

NAME OF SLAB	DEPTH OF SLAB IN mm	REINFORCEMENT ALONG SHORT DIRECTION		REINFORCEMENT ALONG LONG DIRECTION		DISTRIBUTION REINFORCEMENT	SLAB TYPE
		AT MID SPAN NEAR BOTTOM FACE	OVER BEAM SUPPORT NEAR TOP FACE	AT MID SPAN NEAR BOTTOM FACE	OVER BEAM SUPPORT NEAR TOP FACE		
S1	125mm	10mm # @ 150mm C/C	10 mm # @ 150mm C/C			8 mm # @ 150mm C/C	1-WAY

### SLAB DETAILS

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नगर पंचायत छुईखदान

मुख्य नगरपालिका अधिकारी  
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