

BUDGET FOR CONSTRUCTION OF DIFFERENT STRUCTURE FOR SOLID WASTE MANAGEMENT PROJECT

Capital Expenditures(C)

Sl. No.	Particular	Total no of Item	Unit	Rate (in Rs.)	Estimated Cost (in Rs)	Fund Source
1	Waste Bin for the Household (8 L)	5600	Nos	85	476000.00	MNB
2	Waste Bin for the Institutions & Shop(10 L)	550	Nos	100	55000.00	MNB
3	Waste Bin for the Market (50 L)	40	Nos	350	14000.00	MNB
4	Construction of Central Process Unit & Office room & bath room	Ref-Estimate			1099334.00	MNB
5	Cow dung pit & Non Biodegradable Pit	Ref-Estimate			91779.00	MNB
6	Water Facility (submersible with tank & pipeline)	Ref-Estimate			126307.00	MNB
7	Motorized Tri Cycle	4	Nos	75000	300000.00	CFC
8	Shade for Tri Cycle	Ref-Estimate			37714.00	MNB
9	Hand Cart	2	Nos	5000	10000.00	MNB
10	Fencing	Ref-Estimate			90551.00	MNB
11	Live fencing for near future			L.S	35000.00	MGNREGA
12	Mechanized chopping machine			L.S	15000.00	MNB
13	Electrification			L.S	20000.00	MNB
14	Safety Equipment	10	Nos	1000	10000.00	MNB
15	PMBSY	10	Nos	12	120.00	MNB
16	Tools & accesoties (Spade, Belcha, Jhari, Gunny Bags, pipe, weight machine etc.)			L.S	10000.00	MNB
17	Plastic sheets for inner lining at land filling site	20	Nos	200	4000.00	MNB
18	Vermi with pot for mother culture	5000	Nos	1	5000.00	MNB
19	I.E.C			L.S	5000.00	OSR
20	Concrete road near CPU	Ref-Estimate			154800.00	CFC
TOTAL					2559605.00	

Recurring Expenditures(R)

Sl. No.	Particular	Total no of Item	Unit	Rate (in Rs.)	Estimated Cost (in Rs)	Fund Source
1	Labour Charges for 6 months (L labour x Rs R x 6) for Collector	4	Nos	4000	96000.00	OSR
2	Labour Charges for 6 months (L labour x Rs R x 6) for CPU.	2	Nos	4000	48000.00	OSR
3	Labour Charges for 6 months (L labour x Rs R x 6) for Supervisor.	1	No	5000	30000.00	OSR
4	Tri Cycle maintenance for 6 months			L.S	1000.00	OSR
5	Electricity bill for 6 months	350	Nos	10	3500.00	OSR
6	Office management cost for 6 months(Including Table,Chair & Bench)			L.S	6000.00	OSR
7	Medicine for labour for 6 months	10	Nos	50	500.00	OSR
8	Cow dung & Uria for 6 months			L.S	1000.00	OSR
9	Any other (if)					
TOTAL ESTIMATED BUDGET					186000.00	

TOTAL BUDGET(C+R)

2745605.00

Recurring Expenditures (Monthly)

Sl. No.	Particular	Total no of Item	Unit	Rate (in Rs.)	Estimated Cost (in Rs)	Fund Source
1	Labour Charges for 6 months (L labour x Rs R x 6) for Collector/CPU	4	Nos	4000	96000.00	OSR
2	Labour Charges for 6 months (L labour x Rs R x 6) for CPU/Collector	2	Nos	4000	48000.00	OSR
3	Labour Charges for 6 months (L labour x Rs R x 6) for Supervisor.	1	No	5000	30000.00	OSR
4	Tri Cycle maintenance for 6 months			L.S	1000.00	OSR
5	Electricity bill for 6 months	350	Nos	10	3500.00	OSR
6	Office management cost for 6 months(Including Table,Chair & Bench)			L.S	6000.00	OSR
7	Medicine for labour for 6 months	10	Nos	50	500.00	OSR
8	Cow dung & Uria for 6 months			L.S	1000.00	OSR
9	Any other (if)					
TOTAL ESTIMATED BUDGET					186000.00	
So Avg. Monthly Expenditure					31000.00	

Synopsis

Sl. no	Fund name	Amount (in Rs.)	Remarks
1	Mission Nirmal Bangla (MNB)	2064805.00	
2	CFC	454800.00	
3	MGNREGS	35000.00	
4	OSR	191000.00	
GRAND TOTAL ESTIMATED BUDGET		2745605.00	

Monthly Collection

Sl. No.	Particular	Total no of Item	Unit	Rate (in Rs.)	Estimated Cost (in Rs)
1	Door to Door collection (Household & market)	2770	Nos	15	41550.00
2	Vermi Compost Selling	1500	Kgs	10	15000.00
3	Vermi sell			L.S	500.00
4	Resell of non biodegradable recyclable items			L.S	500.00
TOTAL					57550.00

Cost - Benefit Ratio

Total monthly recurring expenditure	31000.00
Total monthly Income	57550.00
C/B ratio of proposed scheme	0.54

CONSTRUCTION OF DIFFERENT STRUCTURE FOR SOLID WASTE MANAGEMENT PROJECT

Summary Sheet			
SI No	Name of Item	Amount	Fund
1	Composed Bed(CPU),Office & Toilet	1099334.00	MNB
2	Cow Dunk Pit ,Non Bio-degradable Pit & Semi Decomposed Pit	91779.00	MNB
3	Fencing	90551.00	MNB
4	Submersible	126307.00	MNB
5	Shade for Tricycle	37714.00	MNB
6	Concrete Road	154880.00	CFC
		1600565.00	

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1 H.P SUBMERSIBLE FOR SOLID WASTE MANAGEMENT PROJECT

Item No.	Description of Items.	Qty.	Rate.	Unit	Amount. (Rs.)
1	Labour for boring tube-well of required dia by water jet system through any type of soil strata including line and labour charges for boring pipe scaffolding, tools and lowering pipes. Srtainers, blind pipe etc. and fitting and fixing the same completely including bucket, washing and other incidental works in the connection. The tube-well should have a min 50mm in between the outside of the tube-well pipe and the bore.				
	a) for depth upto 150m for 50mm (there 80mm) dia tube-well with top enlargement of 100mm dia				
	i) 100 mm dia boring etc. top enlargement	60.00	430.00	Mtr	25800.00
2	Packing the annular space between the outside of the tube-well pipes and strains and the bore with per size washed gravell of or the size approved by E.I.C. including the cost of all materials and equipment complete	1.50	2050.00	cum	3075.00
3	Washing and developing tube-well with air compressor pump and engine for eight houres continous pumping per day with necessary arrangement for testing the yeild ingallons including the line and labour charge for all tools and plants and scaffolding as required complete in all respect	1.00	7613.00	Day	7613.00
4	Supplying, fitting and fixing of tube-well accessories as per company's rate				
	a) Supplying, fitting and fixing Steel cutter piece upto 450 mm long with sockets (i) 40 mm dia	1.00	147.00	No	147.00
	b) GI oil cover (100mm dia)	1.00	196.00	No	196.00
	c) 100mm dia threaded PVC pipe made to ASTM-D-1785 to match GI pipe as per IS 1239 (part-1) schedule -40	48.00	543.17	Mtr	26072.00
	d) Supplying PVC strainer of approved make with adapter conforming to I.S.12818 specifications	12.00	809.00	Mtr	9708.00
	e) 50 mm dia (15 kg/cm2 pressure) standard type threaded PVC column pipe (white colour) for V 415 submersible pipe (medium duty)	30.00	298.00	Mtr	8940.00
	f) 1.00 HP single phase 230v(water filled) make submersible pump with motor of 1.1 KW/6-9 stage/50mm del size/HR(M)- 56-33	1.00	15240.00	Set	15240.00
	g) Pannel board (ISI brand) comp. for 1.00 HP pump with motor	1.00	3800.00	Set	3800.00
	h) 2.5 sqmm 3 core Finolex cable	50.00	90.00	Mtr	4500.00
	i) 50mm dia male/female adopter for top and bottom colmn pipe	1.00	650.00	Set	650.00
	j) 32 amp main switch (Floora)	1.00	850.00	Set	850.00
	k) 100 mm GI top cap (Heavy Duty)	1.00	163.00	No	163.00
	l) 100 mm dia MS (Heavy Duty) housing clamp	1.00	350.00	Pair	350.00
m) 50mm dia (Heavy Duty) clamp	1.00	180.00	No	180.00	
5	Supply of PVC pipes & fittings (medium duty) conforming to ASTMD - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I)				107284.00
	25 mm dia	50.00	128.00	Mtr	6400.00
6	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black)- Multilayer				
	(b) 1000 litre Capacity	1.00	6110.00	each	6110.00
7	Supplying, fitting and fixing bib cock or stop cock.				
	PTMT (Polytetra Bib Cock / Stop Cock(Prayag or equivalent) 15 mm	5.00	177.00	each	885.00
8	Construction of platform (L.S.)	2.00	2500.00	No	5000.00
					18395.00
				Total-	125679.00
				Add for unforeseen items @0.5%-	628.00
				Grand Total-	126307.00

Rupees One Lakh twenty six thousand three hundred seven only

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Pradhan

ANALYSIS OF RATES

Cement Concrete							
1	Description of Item	26.5mm	22.4mm	13.2mm	11.2mm		
a)	Rate of Pakur variety stone chips at Chandrakona Road Railway yard (P=222)	1876.00	1891.00	1915.00	1770.00	L+U+S	77
b)	Carring charge from Chandrakona Road Railway Yard to work site = 10.0 Km (P=227,item-3)					L+U	57.75
		178.50	178.50	178.50	178.50	S	19.25
	0-5 KM	Rs	124.00				
	5-10KM (@10.9 per K.M)	Rs	54.50				
	TOTAL = Rs		178.50				
c)	Loading & Unloading (P = 224,item-1.03)		57.75	57.75	57.75		
	77.00 x @ 0.75 = 57.75						
	Total cost of Stone chips per cum		2112.25	2127.25	2151.25	2006.25	
d)	Cost of 22.4 mm stone chips		0.9	cum	0.6	0.54	2127.25
e)	Cost of 11.2 mm stone chips	P-208,Table No-3.2	0.9	cum	0.4	0.36	2006.25
f)	Cost of cement (PPC/PSC)	(P 215,Item-1)	350	Kgs	7.364		2577.40
	Providing and laying Design Mix concrete for plain / reinforced concrete work in any part of bridge (excluding bottom plugging) with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality and cement, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete but excluding cost of labour and materials for formwork & reinforcement works. M-15 Grade Using concrete mixer. (P=322,Item 18.07)						1425.00
			Total Cost			Cum	5873.37
(Rupees five thousand eight hundred seventy three and thirty seven paises only)							

L=40%

U=35%
S=25%

2	Rate analysis for sand filling by fine sand							
	Cost of fine sand at Site (P = 219,item no.-3)	320	Rs/cum	L+U+S	77	L=40%		
	Less for stacking (P=224,item-1.03©)	-19.25	Rs/cum		57.75	U=35%		
		300.75			19.25	S=25%		
	Compacting Factor of fine Sand	0.835						
		360.18	Rs/cum					
	Labour & other cost (P=280,item-12.04)	177	Rs/cum					
	Total	537.18	Rs/cum					
	Total cost of sand filling per cum	537.18	Rs/cum					
	(Rupees five hundred thirty seven and eighteen paises)							
3	Hire and labour charges for Shuttering with or without staging upto 4.0 m height using approved stout props with wooden planks/ply wood/steel sheet plate with required bracing for any kind of plain or reinforced concrete works in all sorts of minor structure including culvert, box culvert, cross-drain etc. The rate is inclusive of fitting, fixing and striking out after completion of work as per specification and direction. (P = 322,item - 18.05) (b) Where staging is not required.	Sqm	214.00					

CONSTRUCTION OF CONCRETE ROAD FOR SOLID WASTE MANAGEMENT PROJECT

TOTAL LENGTH OF ROAD = 47.80 R.M.									
Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
1	Sand filling in foundation trenches and at the back of abutments, wing-walls etc. with good local sand free from earth in layers not exceeding 15 cm. including inundating each layer by profuse water and poking and ramming layer by layer complete including supply of sand. Quality of sand is to be approved by the Engineer-in-charge.(P -278 ,Item-12.04)								
	Rates as per analysis attached								
	Road	1	34.200	1.900	0.150	9.747			
		1	13.600	1.500	0.150	3.060			
		Total				12.807 m ³	537.18	6879.66	
2	Providing and laying Design Mix concrete for plain / reinforced concrete work in any part of bridge (excluding bottom plugging) with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality and cement, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete but excluding cost of labour and materials for formwork & reinforcement works. M-15 Grade Using concrete mixer. (P=322,Item 18.07)								
	Road	1	34.200	2.400	0.150	12.312			
		2	34.200	0.250	0.250	4.275			
		1	13.600	2.100	0.150	4.284			
		2	13.600	0.250	0.250	1.700			
		Total				22.571 m ³	5873.37	132567.72	
3	Hire and labour charges for Shuttering with or without staging upto 4.0 m height using approved stout props with wooden planks/ply wood/steel sheet plate with required bracing for any kind of plain or reinforced concrete works in all sorts of minor structure including culvert, box culvert, cross-drain etc. The rate is inclusive of fitting, fixing and striking out after completion of work as per specification and direction. (P = 316,item - 18.05) (b) Where staging is not required.								
	side of road	2	34.200		0.150	10.260			
		4	34.200		0.250	34.200			
		2	13.600		0.150	4.080			
		4	13.600		0.250	13.600			
		Total				62.140 m ²	214.00	13297.96	

4	Supplying & Laying Polytheshet(150gm/sqm)over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches.								
	PWD Building Sechudle (P -46,Item-13)								
		1	34.200	1.900		64.980			
		1	13.600	1.500		20.400			
		Total				85.380	m ²	25.00	2134.50
						TOTAL Rs.		154879.85	
						TOTAL AMOUNT Rs.		154879.85	
						GRAND TOTAL SAY. RS. 154880.00		154880.00	
	(Rupees one lacs fifty four thousand eight hundred eighty only)								

Prepared By: _____ **Vetted by** _____

Signature of Pradhan _____

CONSTRUCTION OF CAR SHED FOR SOLID WASTE MANAGEMENT PROJECT

The rates are taken from PWD(WB) schedule of rate for building works of Midnapore west effect from 1/12/2015 and(1 to 5th Corrigendum)

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains in all sorts soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spills within a lead of 75 m. as directed. The item includes necessary tr							
	a) Depth of excavation not exceeding 1500mm.							
		6	0.600	0.600	0.600	1.296		
		Total				1.296 m ³	120.47	156.13
2	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.Pakur variety.(P=11,item 5,a)							
	Angle pocket	6	0.500	0.500	0.500	0.750		
	Floor PCC	1	6.000	3.000	0.075	1.350		
		Total				2.100 m ³	6157.54	12930.83
3	Galvanised corrugated iron sheet work (excluding the supporting frame work) fitted and fixed with 10 mm dia J or L hook bolts,limpet and bitumen washer .. Puttu complete with 150 mm end lap and one corrugation minimum side lap.(Payment to be made on area of finished work) GCI sheet to be supplied by contractor. (P-63,item-24,i,a)							
	In roof with .6 mm th. Sheet	1	6.000		3.417	20.502		
		Total				20.502 m ²	725.00	14864.00
4	M.S. structural works in roof trusses with tubular sections conforming to IS : 806-1957 & IS : 1161-1958 connected to one another with bracket,gusset cleats as per design,direction of E.I.C. Complete including cutting to requisite size,fabrication with necessary metal arc welding conforming to IS : 816-1956 & IS 9595 using electrodes of approved make and brand conforming to IS : 814-1957,haulage,hoisting and erection all complete. The rate includes cost of rolled steel sections,consumpables such as electrodes,gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges,labour insurance charges etc.Payment to be made on the basis of calculated weight of structural tubular members as specified in relevent IS code in finished work. Payment for gusset,bracket,cleat may be made by adding the actual weight of such items with weight of finished structural members. The rates are considered for a height of of erection 8 m / 2nd floor level from the ground. Add 1.5 % extra over the rate for each additional floor or 4 m beyond the initial 8 m or part thereof.(P=73.Item=2,& 7th Corrigendum)							

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
	i) For trusses spanning up to 12.0 m								
	Total length for tubular truss for post = 3 nos @ 2.8m & 3 nos @3.1 m = 17.7 Rm								
	@ 3.56 Kg/m (Considering 40 mm dia (1-1/2) dia Medium duty MS pipe.(Conforming to IS : 1161/1998,Equivalent to BS 1775/64)					63.012			
	Longitudinal pipe for supporting frame work = (3x 3.417)+(2x6) = 22.251 Rm					79.210			
						142.222			
						0.142	MT	68644.00	
								9762.69	
								37713.65	
							TOTAL AMOUNT Rs.	37713.65	
							GRAND TOTAL SAY. RS.	37714.00	
	(Rupees thirty seven thousand seven hundred fourteen only)								

Prepared By: _____

Vetted by _____

Sign. Of Pradhan _____

CONSTRUCTION OF BOUNDARY FENCING WORK FOR SOLID WASTE MANAGEMENT PROJECT

The rates are taken from PWD(WB) schedule of rate for building works of Midnapore west effect from 1/12/2015 and(1 to 5th Corrigendum)

Total Length of Fencing wall = 70.9 Rm

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
1	Earth work in excavation of foundation trenches or drains in all sorts soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spills within a lead of 75 m. as directed. The item includes necessary trimming the bottom, bailing out water as required complete.(Pg No 1,Item No 2(a))								
	a) Depth of excavation not exceeding 1500mm.								
		31	0.600	0.600	0.600	6.696			
		Total				6.696	m³	120.47	806.67
2	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.Pakur variety.(P=12,item 5,a)& analysis attached.								
	Angle pocket	31	0.500	0.500	0.500	3.875			
		Total				3.875	m³	6157.54	23860.47
3	Supplying, fitting, fixing G.I chain link fencing 75 mm x 75 mm mesh 12 g wire to the R.C.C or wooden posts with galvanised hooks or staples etc. complete as per direction.(P=199,ITEM-20)								
		1	70.9		1.2	85.080			
		Total				85.080	m²	192.00	16335.36
4	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS: 226, IS: 808 & SP (6)- 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-in- charge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1956 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 1957, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges, labour insurance charges etc.								

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
	Payment to be made on the basis of calculated weight of structural members only in finished work as per IS specified weight. Payment for gusset, bracket, cleat, rivets, bolts and nuts may be made by adding the actual weight of such items with the weight of finished structural members or 7% of weight for finished structural members weighing not less than 22.5 Kg. / m. or 15 % of weight for finished structural members weighing less than 22.5 Kg. / m. may be increased allow for bracket, cleat, rivet, bolts and nuts etc. and no seperate payment being made for these items, as per direction of Engineer In Charge. The rates are considered for a height of erection 8m. / 2nd floor level from the ground. Add 1.5% extra over the rate for each additional floor or 4m. beyond initial 8m. or part thereof.							
	l) For structural members of specified sections weighing not less than 22.5 Kg./m (P=72,Item-1(i)& 7th Corrigendum)							
	For post considering 40 mm x 40 mm x 6 mm ISI Angle(Considering wt 3.50 Kg/m)	31	2	62 Rm	3.50K g/m	217.000		
	Considering MS flat of 25 mm x 6 mm thick							
	Each panel total flat length = 11.08 RM	30	11.08	0.025	0.006	0.050		
						0.050		
	Total wt. become @ 7850 Kg/Cum					391.401		
						0.608	MT	68292.00
								41548.92
5	Iron sheeted gate upto 900mm and over 900 mm netting approved quality fitted and fixed all complete (Gate size 2100 x 1500 mm)					1.000	Nos	
	Rate consider as Lum sum basis					1.000	Nos	8000.00
								8000.00
								90551.42
						TOTAL AMOUNT Rs.		90551.42
						GRAND TOTAL SAY. RS.		90551.00
	(Rupees ninety thousand five hundred fifty one only)							

Prepared By: _____

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CONSTRUCTION OF COW DUNG PIT, NON BIO DEGRADABLE CHAMBERS AND PARTIAL DECOMPOSITION UNIT FOR SOLID WASTE MANAGEMENT PROJECT

The rates are taken from PWD(WB) schedule of rate for building works of Midnapore west effect from 1/12/2015 and (1 to 5th Corrigendum)

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains in all sorts soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spills within a lead of 75 m. as directed. The item includes necessary trimming the bottom, bailing out water as required complete.(Pg No 1,Item No 2(a))							
	a) Depth of excavation not exceeding 1500mm.							
	Non Bio degradable unit chambers	2	5.000	0.500	0.275	1.375		
		4	1.000	0.500	0.275	0.550		
	Total					1.925 m ³	120.47	231.90
2	Filling in foundation or plinth by local fine sand in layer not exceeding 150 mm. as directed and consolidating same by through saturation with water ramming complete, including the cost of sand.(P=2,item-4,b)							
	at foundation							
	Non Bio degradable unit chambers	1	1.000	1.000	0.200	0.2		
		1	1.000	1.750	0.200	0.35		
		1	1.000	0.500	0.200	0.1		
	Partial Decomposition unit bed	1	12.950	10.550	0.100	13.662		
	Total					14.312 m ³	533.06	7629.29
3	Single layer brick flat soling of picket jhamma bricks including ramming and dressing bed or proper level and filling joints with powered earth or local sand.(P=12,Item-1)							
	Partial Decomposition unit bed	1	12.950	10.550		136.62		
	Total					136.623 m ²	362.00	49457.35
4	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.Pakur variety.(P=12,item 5,a)& analysis attached.							
	Non Bio degradable unit chambers ... foundation	2	5.000	0.500	0.075	0.375		
		4	1.000	0.500	0.075	0.150		
	Pit's plinth flooring	1	1.250	1.250	0.075	0.117		
		1	2.250	1.250	0.075	0.211		
		1	1.000	1.250	0.075	0.094		
	Total					0.947 m ³	6157.54	5830.42
5	Brick work with 1 st class bricks in cement mortar (1:6) (P=30,item-22)							
	(a) In foundation and plinth							
		2	5.000	0.500	0.100	0.500		

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
		4	1.000	0.500	0.100	0.200			
		2	5.000	0.375	0.100	0.375			
		4	1.000	0.375	0.100	0.150			
		2	5.000	0.250	0.200	0.500			
		4	1.000	0.250	0.200	0.200			
		Total				1.925	m ³	5503.00	10593.28
6	125 mm th. Brick work with 1st class bricks in cement mortar (1:4) in ground floor (P=32.item-29)								
		1	5.000		1.200	6.000			
		1	3.500		1.200	4.200			
		1	1.500		0.300	0.450			
		4	1.25		1.2	6.000			
		Total				16.650	m ²	759.00	12637.35
7	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughputting, nosing and drip course, scaffolding/staging where necessary with 1:4 cement mortar. 15mm thick. In ground floor.(P=164,Item-2(ii)b)								
	Out side and inside wall								
	Non Bio degradable chmabers	1	5.000		1.200	6.000			
		1	3.500		1.200	4.200			
		1	1.500		0.300	0.450			
		2	1.500		1.200	3.600			
	Inside	6	1.250		1.200	9.000			
		1	1.250		1.200	1.500			
		1	1.250		0.300	0.375			
		2	2.250		1.200	5.400			
		2	1.000		1.200	2.400			
		Total				32.925	m ²	164.00	5399.70
								91779.28	
						TOTAL AMOUNT Rs.		91779.28	
			GRAND TOTAL SAY. RS.						91779.00
	(Rupees ninety one thousand seven hundred seventy nine only)								

Prepared By:

Vetted by

Sign. Of Pradhan

CONSTRUCTION OF COW DUNG PIT, NON BIO DEGRADABLE CHAMBERS AND PARTIAL DECOMPOSITION UNIT FOR SOLID WASTE MANAGEMENT PROJECT

The rates are taken from PWD(WB) schedule of rate for building works of Midnapore west effect from 1/12/2015 and(1 to 5th Corrigendum)

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains in all sorts soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spills within a lead of 75 m. as directed. The item includes necessary trimming the bottom, bailing out water as required complete.(Pg No 1,Item No 2(a))							
	a) Depth of excavation not exceeding 1500mm.							
	Non Bio degradable unit chambers	2	5.000	0.500	0.275	1.375		
		4	1.000	0.500	0.275	0.550		
	Total					1.925 m ³	120.47	231.90
2	Filling in foundation or plinth by local fine sand in layer not exceeding 150 mm. as directed and consolidating same by through saturation with water ramming complete, including the cost of sand.(P=2,item-4,b)							
	at foundation							
	Non Bio degradable unit chambers	1	1.000	1.000	0.200	0.2		
		1	1.000	1.750	0.200	0.35		
		1	1.000	0.500	0.200	0.1		
	Partial Decomposition unit bed	1	12.950	10.550	0.100	13.662		
	Total					14.312 m ³	533.06	7629.29
3	Single layer brick flat soling of picket jhamma bricks including ramming and dressing bed or proper level and filling joints with powered earth or local sand.(P=12,Item-1)							
	Partial Decomposition unit bed	1	12.950	10.550		136.62		
	Total					136.623 m ²	362.00	49457.35
4	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.Pakur variety.(P=12,item 5,a)& analysis attached.							
	Non Bio degradable unit chambers ... foundation	2	5.000	0.500	0.075	0.375		
		4	1.000	0.500	0.075	0.150		
	Pit's plinth flooring	1	1.250	1.250	0.075	0.117		
		1	2.250	1.250	0.075	0.211		
		1	1.000	1.250	0.075	0.094		
	Total					0.947 m ³	6157.54	5830.42
5	Brick work with 1 st class bricks in cement mortar (1:6) (P=30,item-22)							
	(a) In foundation and plinth							
		2	5.000	0.500	0.100	0.500		

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
		4	1.000	0.500	0.100	0.200			
		2	5.000	0.375	0.100	0.375			
		4	1.000	0.375	0.100	0.150			
		2	5.000	0.250	0.200	0.500			
		4	1.000	0.250	0.200	0.200			
		Total				1.925	m³	5503.00	10593.28
6	125 mm th. Brick work with 1st class bricks in cement mortar (1:4) in ground floor (P=32.item-29)								
		1	5.000		1.200	6.000			
		1	3.500		1.200	4.200			
		1	1.500		0.300	0.450			
		4	1.25		1.2	6.000			
		Total				16.650	m²	759.00	12637.35
7	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughing, nosing and drip course, scaffolding/staging where necessary with 1:4 cement mortar. 15mm thick. In ground floor.(P=164,Item-2(ii)b)								
	Out side and inside wall								
	Non Bio degradable chmabers	1	5.000		1.200	6.000			
		1	3.500		1.200	4.200			
		1	1.500		0.300	0.450			
		2	1.500		1.200	3.600			
	Inside	6	1.250		1.200	9.000			
		1	1.250		1.200	1.500			
		1	1.250		0.300	0.375			
		2	2.250		1.200	5.400			
		2	1.000		1.200	2.400			
		Total				32.925	m²	164.00	5399.70
								91779.28	
						TOTAL AMOUNT Rs.		91779.28	
			GRAND TOTAL SAY. RS.						91779.00
	(Rupees ninety one thousand seven hundred seventy nine only)								

Prepared By:

Vetted by

Sign. Of Pradhan

CONSTRUCTION OF CENTRAL PROCESSING UNIT (VERMI COMPOSED BED UNIT), GUARD ROOM CUM OFFICE ROOM AND TOILET BLOCK FOR SOLID WASTE MANAGEMENT PROJECT

The rates are taken from PWD(WB) schedule of rate for building works of Midnapore west effect from 1/12/2015 and(1 to 5th Corrigendum)

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains in all sorts soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spills within a lead of 75 m. as directed. The item includes necessary trimming the bottom, bailing out water as required complete.(Pg No 1,Item No 2(a))							
	a) Depth of excavation not exceeding 1500mm.	18	1.350	1.350	1.400	45.927		
	Tie beam trenches	14	3.150	0.300	0.300	3.969		
		7	3.650	0.300	0.300	2.300		
		2	0.650	0.300	0.300	0.117		
		2	1.650	0.300	0.300	0.297		
	Total					52.610 m ³	120.47	6337.87
2	Filling in foundation or plinth by local fine sand in layer not exceeding 150 mm. as directed and consolidating same by through saturation with water ramming complete, including the cost of sand.(P=2,item-4,b)							
	at foundation	18	1.35	1.35	0.2	6.561		
	At foundation trenches	18	1.35	1.35	0.8	26.244		
	at plinth	6	4.750	4.250	0.600	72.675		
		1	2.750	4.250	0.600	7.013		
		1	1.750	4.250	0.600	4.463		
	Total					116.955 m ³	533.06	62344.03
3	Single layer brick flat soling of picket jhamma bricks including ramming and dressing bed or proper level and filling joints with powered earth or local sand.(P=12,Item-1)							
	Under tie beam	14	4.250	0.250		14.88		
		7	4.750	0.250		8.31		
		2	1.750	0.250		0.88		
		2	2.750	0.250		1.38		
	at floor	6	4.250	4.750		121.13		
		1	2.750	4.250		11.69		
		1	1.750	4.250		7.44		
	Total					165.688 m ²	362.00	59978.88
4	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.Pakur variety.(P=12,item 5,a)& analysis attached.							
	At foundation	18	1.350	1.350	0.100	3.281		
	Total					3.281 m ³	6157.54	20199.81
5	Ordinary cement concrete (mix 3 : 1.5 : 1) M ₂₀ with graded Pakur/Chandil stone chips (20mm. down excluding shuttering and reinforcement. if any, P=15,item-7(i))Analysis attached.							
		18	1.200	1.200	0.175	4.536		

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
		18	0.725	0.725	0.150	1.419			
	Column	14	0.250	0.250	3.825	3.347			
		4	0.250	0.250	4.725	1.181			
	Tie beam	14	4.250	0.250	0.400	5.950			
		7	4.750	0.250	0.400	3.325			
		2	1.750	0.250	0.400	0.350			
		2	2.750	0.250	0.400	0.550			
	Lintel	12	4.250	0.250	0.200	2.550			
		2	4.750	0.250	0.200	0.475			
		2	2.750	0.250	0.200	0.275			
	Roof beam at Guard room & toilet	4	4.250	0.250	0.300	1.275			
		2	1.750	0.250	0.300	0.263			
		2	2.750	0.250	0.300	0.413			
	office slab	1	4.250	2.750	0.110	1.286			
	Toilet Slab	1	1.750	4.250	0.110	0.818			
	Chajja	2	1.200	0.450	0.075	0.081			
		Total				28.093	m³	6894.48	193687.06
6	Reinforcement for reinforced concrete work in the all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooping and bending to correct shape, placing in proper position and binding with 16 gauge black ennealed wire at every intersection, complete as per drawing and direction.(P-28,IT no-15 II and 5 th corrigenda dt 4.11.2016)Other than SAIL/TATA/RINL								
	i) in ground floor.	1.2% of concrete volume				2.646	MT	51991.00	137587.24
7	Hire and labour charges for shuttering with centering and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works.(upto roof of ground floor) (P-27,Item No :- 12 f & a)								
	a) Shuttering for foundation concrete side, ground tie sides, plinth tie sides.								
	footing	18	5.400		0.175	17.010			
	Tie beam	28	4.250		0.400	47.600			
		14	4.750		0.400	26.600			
		4	1.750		0.400	2.800			
		4	2.750		0.400	4.400			
		Total				98.410	m²	218.00	21453.38
	b) Shuttering for columns, beam, slab.								
	i) in ground floor								
	Column	14	1.000		3.825	53.550			
		4	1.000		4.725	18.900			
	Lintel	12	4.250		0.650	33.150			
		2	4.750		0.650	6.175			
		4	2.750		0.200	2.200			
	Chajja	2	1.200		0.450	1.080			
	Roof beam	8	4.250		0.190	6.460			
		4	1.750		0.190	1.330			
		4	2.750		0.190	2.090			
	slab	1	4.250		2.750	11.688			

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
	Out side of slab	1	15.000		0.110	1.650			
		Total				138.273	m ²	343.00	47427.47
8	Brick work with 1 st class bricks in cement mortar (1:6) (P=30,item-22)								
	(a) In foundation and plinth	14	4.250	0.250	0.500	7.438			
		7	4.750	0.250	0.500	4.156			
		2	1.750	0.250	0.500	0.438			
		2	2.750	0.250	0.500	0.688			
		Total				12.719	m ³	5503.00	69991.28
9	Brick work with 1 st class bricks in cement mortar (1:6) (P=30,item-22,b)								
	b) In super structure ,Ground floor								
	Guard room and toilet portion	1	4.25	0.25	2.1	2.231			
		2	4.25	0.25	2.7	5.738			
		2	1.75	0.25	2.1	1.838			
		2	2.75	0.25	2.7	3.713			
	Less for door	3	1.2	0.25	2.1	-1.890			
	Less window	1	1.2	0.25	1.2	-0.360			
		Total				11.269	m ³	5728.00	64547.40
10	125 mm th. Brick work with 1st class bricks in cement mortar (1:4) in ground floor (P=32.item-29)								
	CPU portion	11	4.250		0.900	42.075			
		2	4.75		0.9	8.550			
	Less for door	2	1.2		0.9	-2.160			
	Toilet portion	2	1.750		2.100	7.350			
		1	1.000		1.800	1.800			
	Less for door	1	0.75		2.1	-1.575			
		Total				56.040	m ²	759.00	42534.36
11	Galvanised corrugated iron sheet work (excluding the supporting frame work) fitted and fixed with 10 mm dia J or L hook bolts,limpet and bitumen washer .. Puttu complete with 150 mm end lap and one corrugation minimum side lap.(Payment to be made on area of finished work) GCI sheet to be supplied by contractor. (P=65,item-24,i,a)								
	In roof with .6 mm th. Sheet	2	27.250		3.070	167.315			
		Total				167.315	m ²	725.00	121303.00
12	M.S. structural works in roof trusses with tubular sections conforming to IS : 806-1957 & IS : 1161-1958 connected to one another with bracket,gusset cleats as per design,direction of E.I.C. Complete including cutting to requisite size,fabrication with necessary metal arc welding conforming to IS : 816-1956 & IS 9595 using electrodes of approved make and brand conforming to IS : 814-1957,haulage,hoisting and erection all complete. The rate includes cost of rolled steel sections,consumpables such as electrodes,gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges,labour insurance charges etc.Payment to be made on the basis of calculated weight of structural tubular members as specified in relevent IS code in finished work. Payment for gusset,bracket,cleat may be made by adding the actual weight of such items with weight of finished structural members. The rates are considered for a height of of erection 8 m / 2nd floor level from the ground. Add 1.5 % extra over the rate for each additional floor or 4 m beyond the initial 8 m or part thereof.(P=75.Item=2,)								
	i) For trusses spanning up to 12.0 m								

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
	Total length for one tubular truss (40 mm dia) = (3.024+3.024+5.25) = 11.298 Rm								
	For 7 nos tubular truss = 11.298 x 7 = 79.086 Rm @ 3.56 Kg/m (Considering 40 mm dia (1-1/2) dia Medium duty MS pipe.(Conforming to IS : 1161/1998,Equivalent to BS 1775/64)					281.546			
	Total length for one tubular truss (32 mm dia) = (0.281+0.76+0.561+0.76+0.281+1.52) = 4.163Rm x 2 = 8.326 Rm								
	For 7 nos tubular truss = 8.326 x 7 = 58.282 Rm @ 3.10 Kg/m (Considering 32 mm dia (1-1/4) dia Medium duty MS pipe.(Conforming to IS : 1161/1998,Equivalent to BS 1775/64)					180.674			
	Longitudinal purlin ISA 40 x 40 x 5 mm = 2 x 3 x 27.25m = 163.50 m (wt per meter =3.0 kg/m as per SP:6(1) - 1964 (Reaffirmed 2003) BIS...page-8)					490.500			
		Total				952.720			
						0.953	MT	68644.00	
13	Supplying, fitting, fixing G.I chain link fencing 75 mm x 75 mm mesh 12 g wire to the R.C.C or wooden posts with galvanised hooks or staples etc. complete as per direction.(P=199,ITEM-20)							65398.51	
		11	4.25		1.2	56.100			
		2	4.75		1.2	11.400			
	Less opening	2	1.2		1.2	-2.880			
		Total				64.620	m²	192.00	12407.04
14	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS: 226, IS: 808 & SP (6)- 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-in-charge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1956 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 1957, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges, labour insurance charges etc.								
	Payment to be made on the basis of calculated weight of structural members only in finished work as per IS specified weight. Payment for gusset, bracket, cleat, rivets, bolts and nuts may be make by adding the actual weight of such items with the weight of finished structural members or 7% of weight for finished structural members weighing not less than 22.5 Kg. / m. or 15 % of weight for finished structal members weighing less than 22.5 Kg. / m. may be increased allow for bracket, cleat, rivet, bolts and nuts etc. and no seperate payment being made for these items, as per direction of Engineer In Charge. The rates are considered for a height of erection 8m. / 2nd floor level from the ground. Add 1.5% extra over the rate for each additional floor or 4m. beyond initial 8m. or part thereof.								
	I) For structural members of specified sections weighing not less than 22.5 Kg./m (P=74,Item-1)								
	Considering MS flat of 25 mm x 6 mm thick								
	Longer span span each panel total flat length = 17.55 RM	11	17.55	0.025	0.006	0.029			
	Shorter span span each panel total flat length = 19.05 RM	2	19.05	0.025	0.006	0.006			
	For MS Sheet Door (2 nos) 1200 x 2100 mm ... frame	8	2.1	0.04	0.006	0.004			
		4	1.2	0.04	0.006	0.001			
	shutter	12	1.1	0.025	0.006	0.002			
		8	2	0.025	0.006	0.002			
	sheet	2	1.1	2	0.003	0.013			

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
		Total volume				0.057		
	Total wt. become @ 7850 Kg/Cum					450.877		
		Total				0.451	MT	68292.00
15	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughighting, nosing and drip course, scaffolding/staging where necessary with 1:4 cement mortar. 10mm thick. In ground floor.(P=164,Item-2(ii)c)							
	In ceiling guard room	1	4.25	2.75		11.688		
	Toilet portion	1	4.25	1.75		7.438		
		Total				19.125	m²	132.00
16	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughighting, nosing and drip course, scaffolding/staging where necessary with 1:4 cement mortar. 15mm thick. In ground floor.(P=164,Item-2(ii)b)							
	Out side wall							
	CPU portion	1	27.250		1.650	44.963		
		1	22.500		1.650	37.125		
		2	5.250		1.650	17.325		
	Less door	0.667	1.200		0.900	-0.720		
	Guard room and toilet portion	2	1.750		3.300	11.550		
		2	3.250		4.100	26.650		
		1	4.750		4.100	19.475		
	Less door	0.667	1.200		2.100	-1.680		
	Less window	0.33	1.200		1.200	-0.475		
		Total				154.212	m²	164.00
17	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughighting, nosing and drip course, scaffolding/staging where necessary with 1:6 cement mortar. 20mm thick. In ground floor.(P=164,Item-2(i)b)							
	Inside wall							
	CPU portion	1	26.750		0.900	24.075		
		1	22.500		0.900	20.250		
		1	4.500		2.100	9.450		
		2	4.750		0.900	8.550		
	column cobla	24	0.125		0.900	2.700		
	Lintel	11	4.250		0.650	30.388		
		7	4.750		0.650	21.613		
	Column open portion	12	1.000		2.100	25.200		
	Guard room and toilet portion	2	4.250		3.100	26.350		
		2	2.750		3.100	17.050		
		2	4.250		2.100	17.850		
		6	1.750		2.100	22.050		
	Less door	1.33	1.200		2.100	-3.352		
	Less window	0.33	1.200		1.200	-0.475		
		Total				221.698	m²	166.00
								36801.90

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
18	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour. In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary(P=41.Item-3(ii))							
	25 mm th.							
	guard room	1	4.25	2.75		11.688 m ²		
		Total				11.688 m ²	301.00	3517.94
19	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals).(P = 88,item-1,i)							
	other local wood							
	For W	1	6	0.1	0.075	0.045		
	For D	2	5.4	0.1	0.075	0.081		
	For D1	2	4.95	0.1	0.075	0.07425		
		Total				0.2003 Cum	39924.00	7994.78
20	Z-batten shutters of door and window as per design having tongued and groove-half lap jointed as per direction of the Engineer-in-Charge including fitting and fixing shutter in position, but excluding the cost of hinges and other fittings in ground floor.(B) Shutter with 19mm thick planks, 19mm thick battens. (iii) Sishu, Gamar, Champ, Badam, Bhola, Morga, Hallak. (P=121,Item No.-94 B iii)							
	For W	1	1.035		1.08	1.118		
	For D	2	1.08		2	4.320		
	For D1	2	0.63		2	2.520		
		Total				7.958 Sqm	2918.00	23220.86
21	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of EIC to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer.In Ground floor (Two Coat) (a) Normal Acrylic Emulsion(P=173,Item-19(a))							
	Same qty as item no.-15,16,17	Total				395.036 sqm	73.00	28837.59
22	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured(matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC.In Ground Floor:(a) One Coat (P=172,Item-15,a)							
	Same qty as item no.-21	Total				395.036 sqm	34.04	13447.01
23	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surface by sand papering etc. (P=176,Item-7,b)							
	For W	1	1.2		1.2	1.440		
	For D	2	1.2		2.1	5.040		
	For D1	2	0.75		2.1	3.150		
		Total				9.630 m ²		
	Considering M.F 1.6	Total				15.408 m ²	31.00	477.65

Sl. No.	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
24	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary :(P=176,Item=8a(iv))								
	With other than hi-gloss of approved quality								
	2 coat (with any shade except white)								
	Qty same as item no.-23					15.408 m ²	80.00	1232.64	
								1099334.27	
						TOTAL AMOUNT Rs.		1099334.27	
						Grand Total say		Rs. 1099334.00	
	(Rupees ten lacs ninety nine thousand three hundred thirty four only)								

Prepared By: _____

Vetted by _____

Sign. Of Pradhan _____

RATE ANALYSIS

Cement Concrete (1:1.5:3)

Gradation of Stone Metal		10 mm graded aggregates	20 mm graded aggregates
Cost of material from Chandrakona Road Railway yard (Pakur variety)(P-313)		1690.00	1857.00
Loading & Unloading			
	58.00		
(T-3,P = 316)			
Carriage	T-2,P=315	236.50	236.50
Upto 5km		124.00	
5-10km	10.90 X5	54.50	
	236.50	1926.50	2093.50

Cost of 20 mm grades aggregates	0.86	cum		0.573	2093.50	1199.58	
Cost of 10 mm grades aggregates	0.86	cum		0.287	1926.50	552.91	
						1752.48	B

Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes P-15,IT no-7(i)						5142.00	A
Total Cost (A+B)	6894.48						

(Rupees six thousand eight hundred ninety four and fourty eight paises)

Cement Concrete (1:2:4)

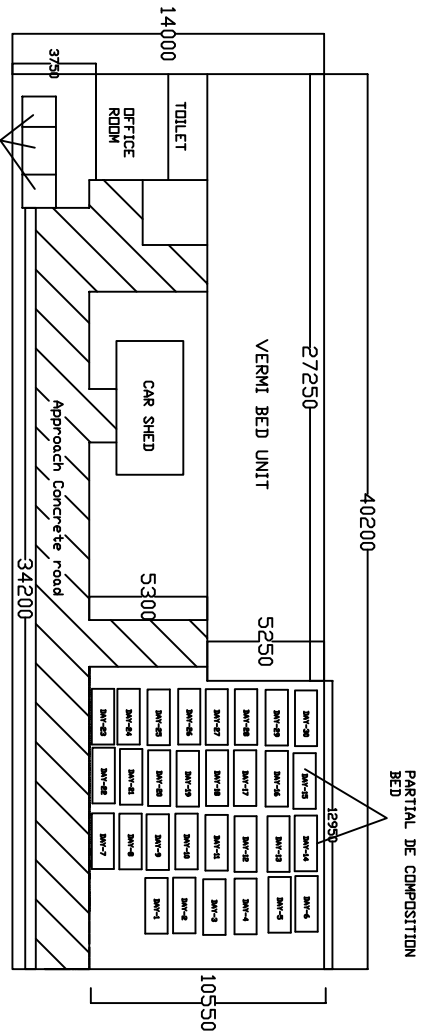
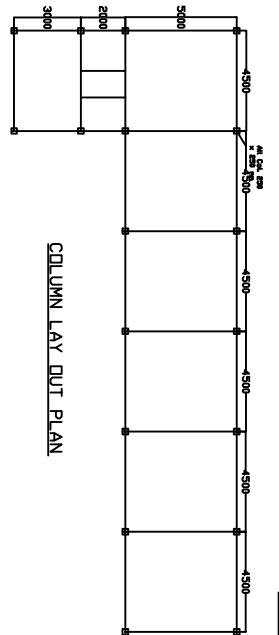
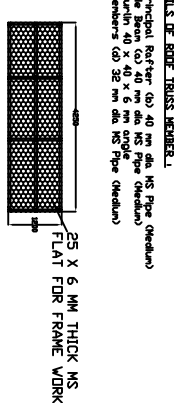
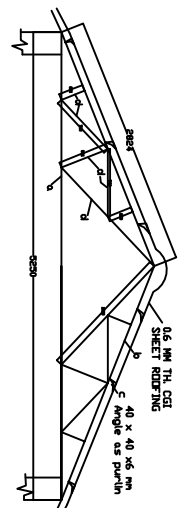
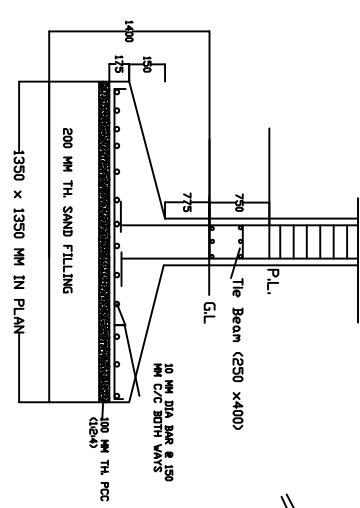
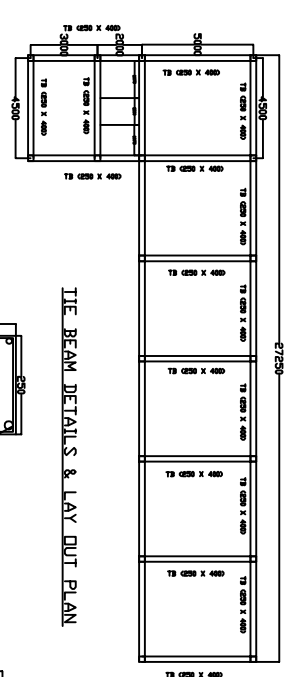
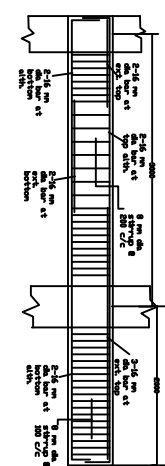
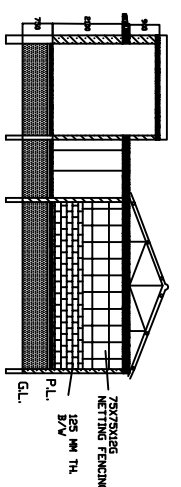
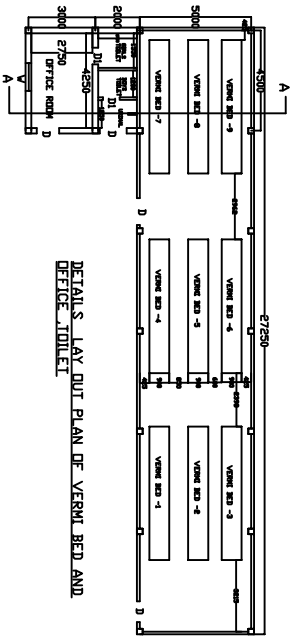
Gradation of Stone Metal		10 mm graded aggregates	20 mm graded aggregates
Cost of material from Chandrakona Road Railway yard (Pakur variety)(P-313)		1690.00	1857.00
Loading & Unloading (T-3, P = 316)		236.50	236.50
Carriage (T-2, P=315)			
Upto 5km	124.00		
5-10km	10.90 X5 54.50		
		236.50	2093.50

Cost of 20 mm grades aggregates	0.88	cum		0.66	2093.50	1381.71	
Cost of 10 mm grades aggregates	0.88	cum		0.22	1926.50	423.83	
						1805.54	B

Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes P-12,IT no-5(a)						4352.00	A
Total Cost (A+B)	6157.54						

(Rupees six thousand one hundred fifty seven and fifty four paises)

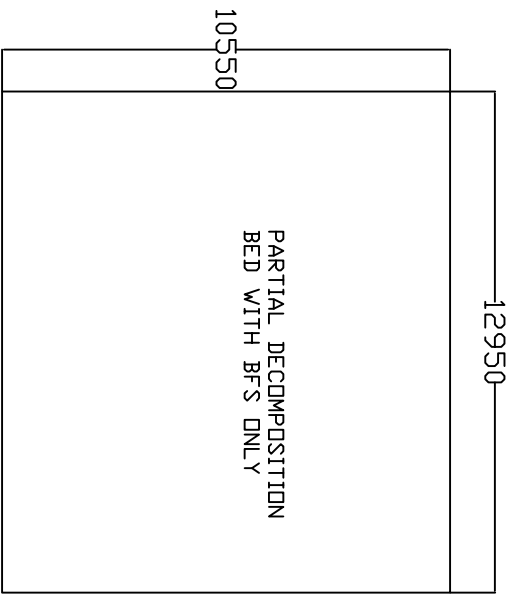
PROPOSED DRAWING FOR CONSTRUCTION OF CENTRAL PROCESSING UNIT (VERMI COMPOSED UNIT & OFFICE, TOILET) FOR SOLID WASTE MANAGEMENT PROJECT AT, MUZA -MAHARAJPUR, J.L. NO. 19, PLOT NO.-1339 UNDER SIRSHA GRAM PANCHAYAT, KESHPUR PANCHAYAT SAMITY



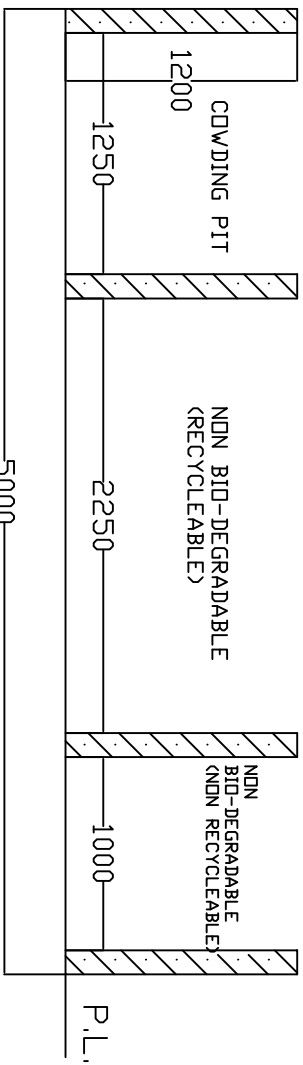
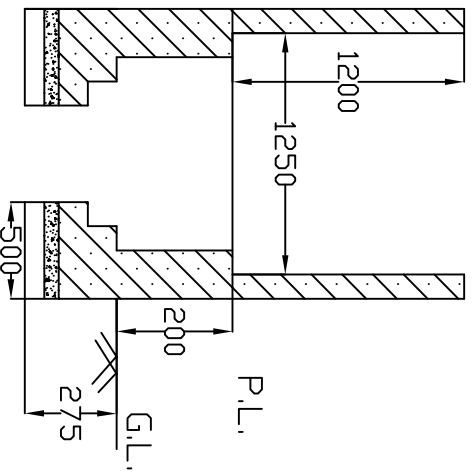
Cow dung pit & Non Bio degradable chambers

TYP. DETAILS LAY OUT PLAN OF DIFFERENT UNIT UNDER SOLID WASTE MANAGEMENT PROJECT.

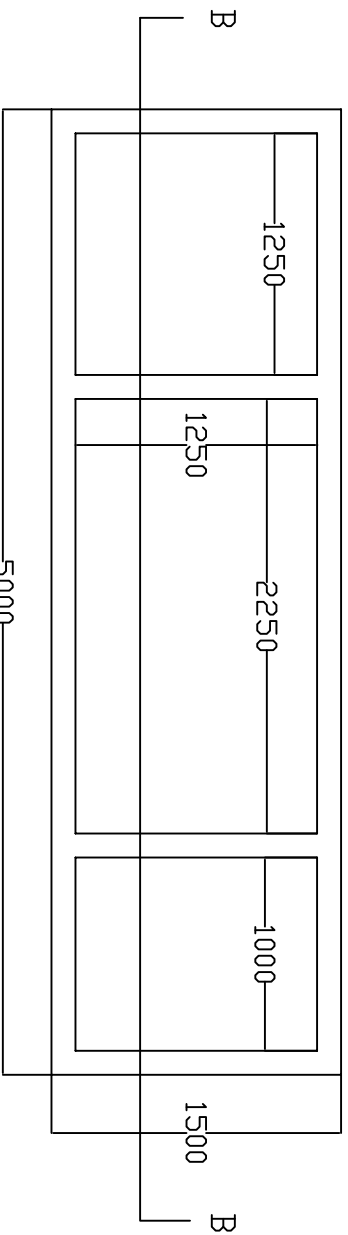
PROPOSED DRAWING FOR CONSTRUCTION OF PARTIAL DECOMPOSITION UNIT AND NON BID DEGRADABLE CHAMBERS FOR SOLID WASTE MANAGEMENT PROJECT AT, MOUZA -MAHARAJPUR, J.L. NO. 19 , PLOT NO.-1339 UNDER SIRSHA GRAM PANCHAYAT ,KESHPUR PANCHAYAT SAMITY



DETAILS OF PARTIAL DECOMPOSITION BED



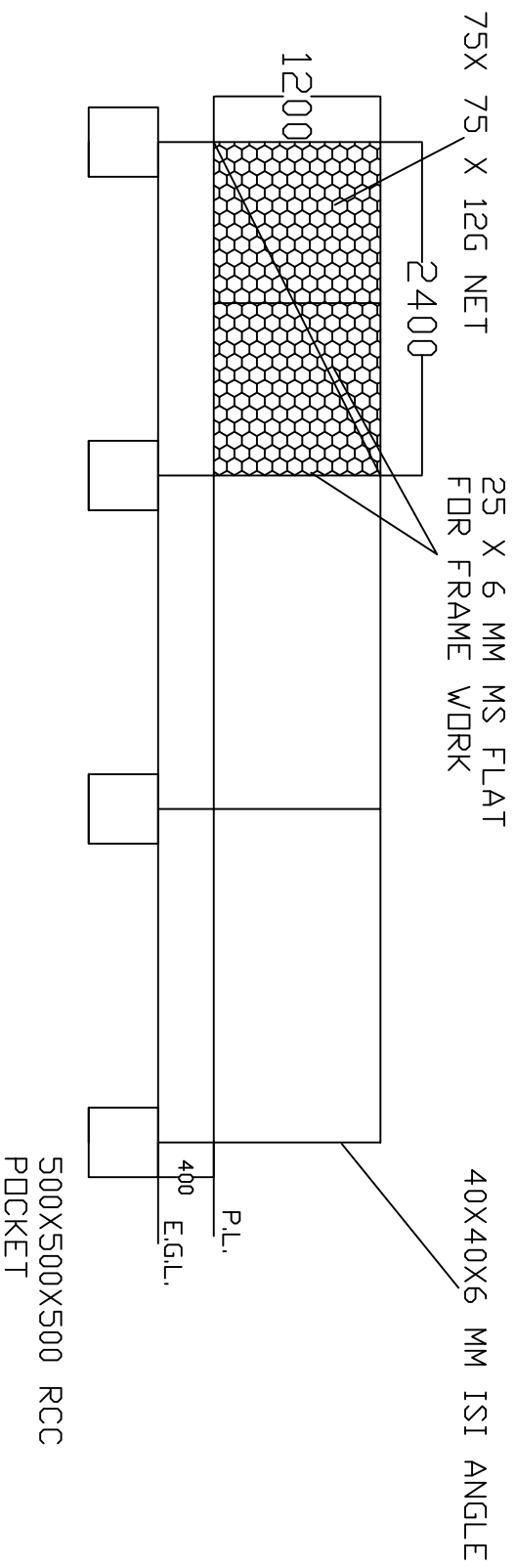
X-SECTIONAL ELEVATION OF B-B



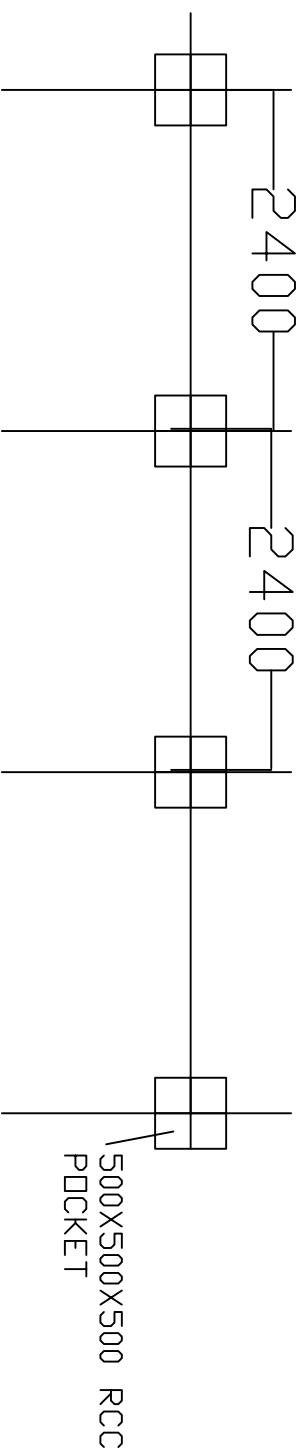
LAYOUT PLAN OF COWDUNG AND NON BIODEGRADABLE CHAMBERS

X-SECTION OF WALL

PROPOSED DRAWING FOR CONSTRUCTION OF BOUNDARY FENCING WORK FOR SOLID WASTE MANAGEMENT PROJECT AT, MUZA -MAHARAJPUR, J.L. NO. 19 , PLOT NO.-1339 UNDER SIRSHA GRAM PANCHAYAT, KESHPUR PANCHAYAT SAMITY

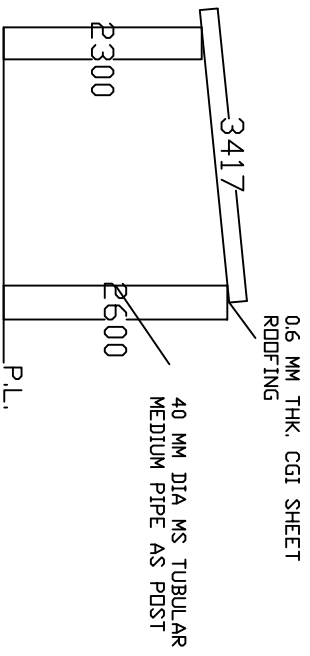


X-SECTIONAL ELEVATION OF BOUNDARY FENCING WORK

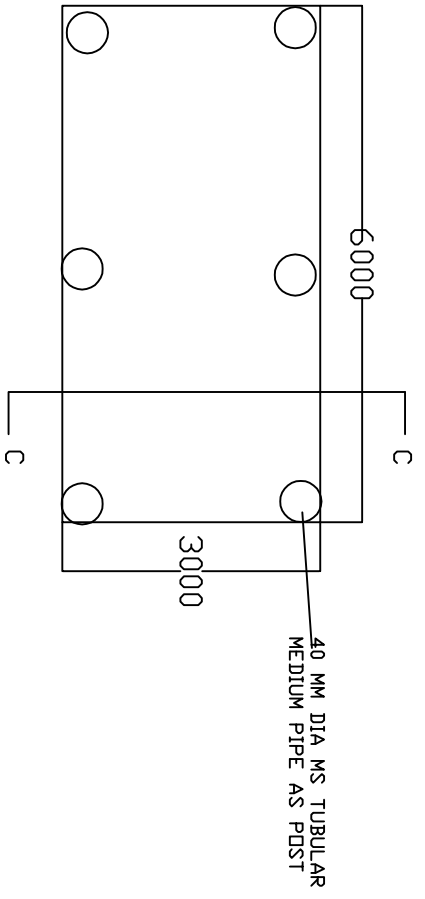


PLAN OF BOUNDARY FENCING WORK

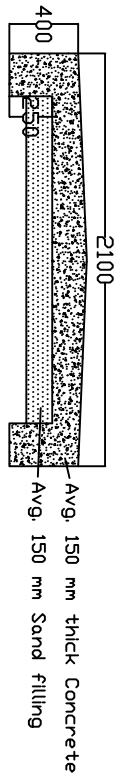
PROPOSED DRAWING FOR CONSTRUCTION OF CAR SHED AND CONCRETE ROAD FOR SOLID WASTE MANAGEMENT PROJECT AT, MOUZA -MAHARAJPUR, J.L. NO. 19 , PLOT NO.-1339 UNDER SIRSHA GRAM PANCHAYAT , KESHPUR PANCHAYAT SAMITY



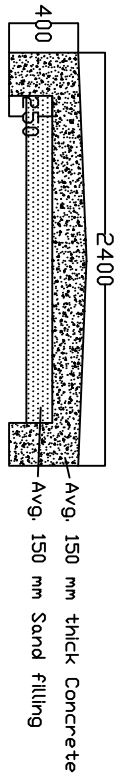
CROSS SECTION OF CAR SHED C-C



PLAN OF CAR SHED

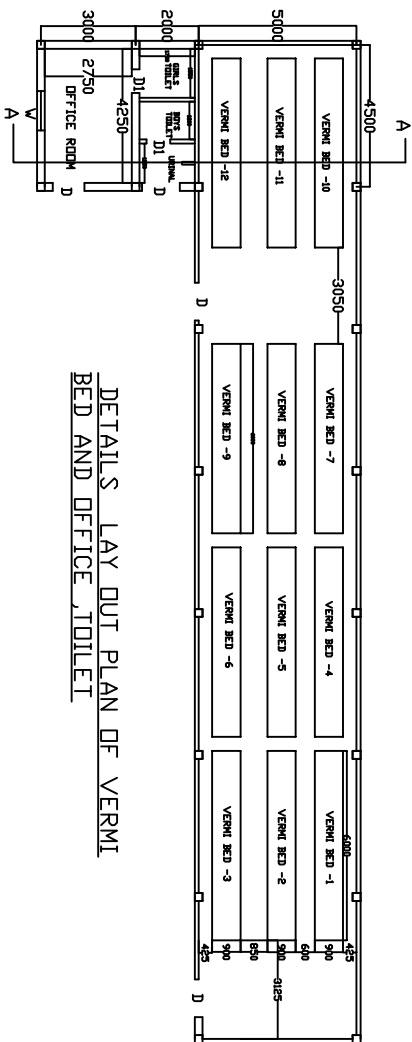


Cross section of Road

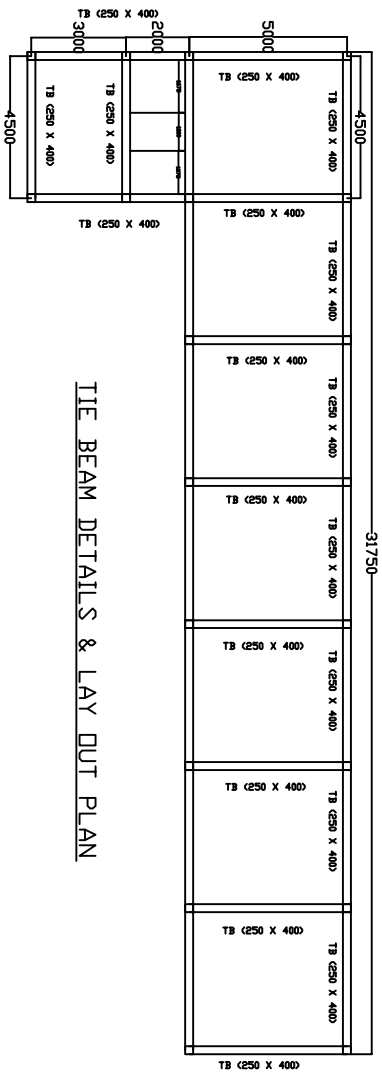


Cross section of Road

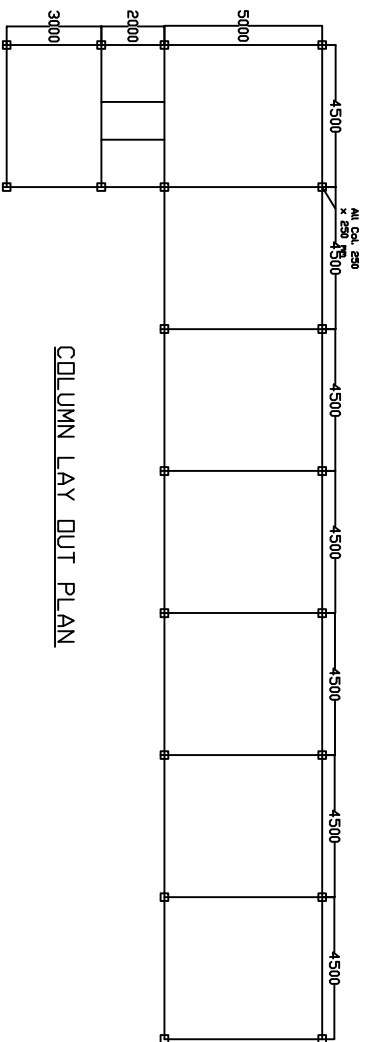
PROPOSED DRAWING FOR CONSTRUCTION OF CENTRAL PROCESSING UNIT (VERMI COMPOSED UNIT & OFFICE, TOILET FOR SOLID WASTE MANAGEMENT PROJECT AT, MUZA -MAHARAJPUR, J.L. NO. 19, PLOT NO.-1598 UNDER SIRSHA GRAM PANCHAYAT, KESHPUR PANCHAYAT SAMITY



DETAILS LAY OUT PLAN OF VERMI BED AND OFFICE, TOILET



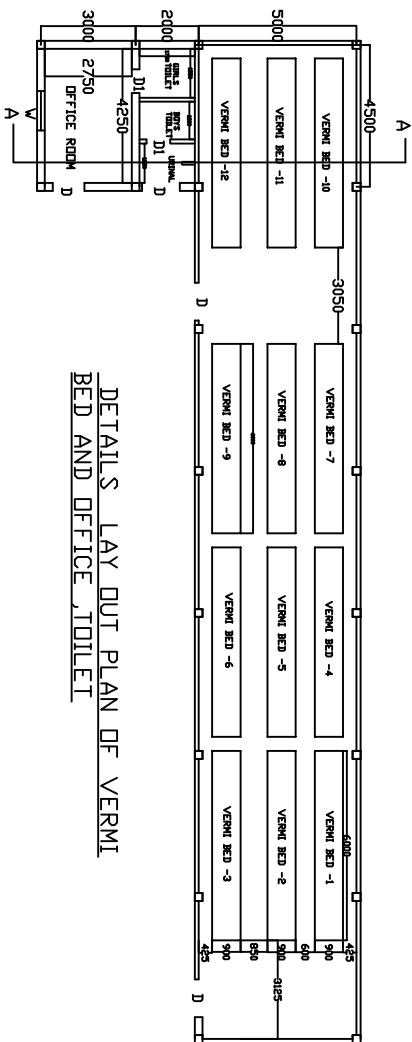
TIE BEAM DETAILS & LAY OUT PLAN



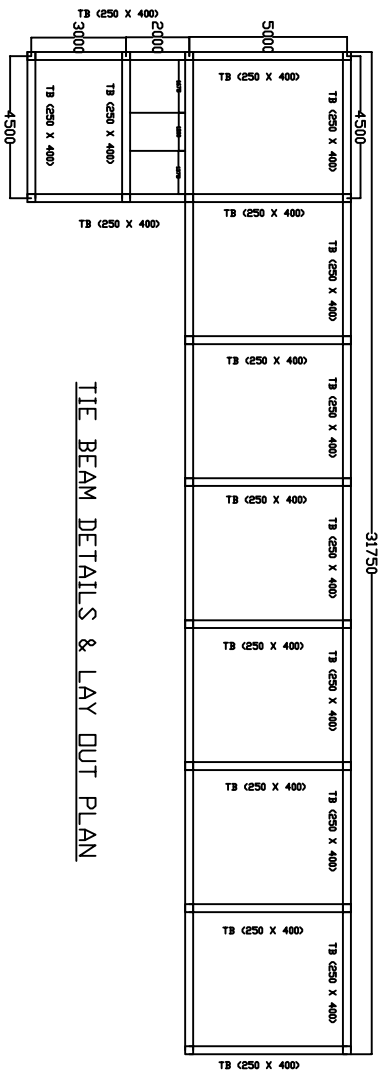
COLUMN LAY OUT PLAN

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) ALL RCC GRADE OF CONCRETE IS M-20 & PCC IS M-15 GRADE AND STEEL OF FE-415 GRADE
- 3) ALL DOOR (D) 1200X2100 MM, DOOR (D1) = 750 X 2100MM

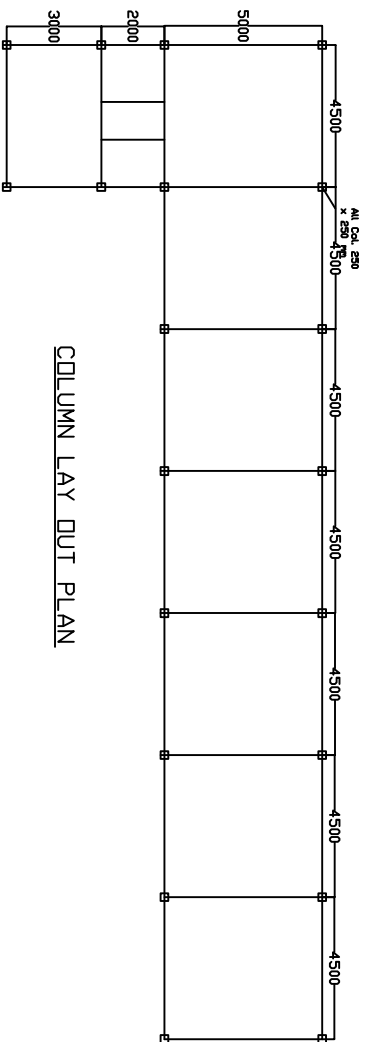
PROPOSED DRAWING FOR CONSTRUCTION OF CENTRAL PROCESSING UNIT (VERMI COMPOSED UNIT & OFFICE, TOILET FOR SOLID WASTE MANAGEMENT PROJECT AT, MUZA -MAHARAJPUR, J.L. NO. 19, PLOT NO.-1598 UNDER SIRSHA GRAM PANCHAYAT, KESHPUR PANCHAYAT SAMITY



DETAILS LAY OUT PLAN OF VERMI BED AND OFFICE, TOILET



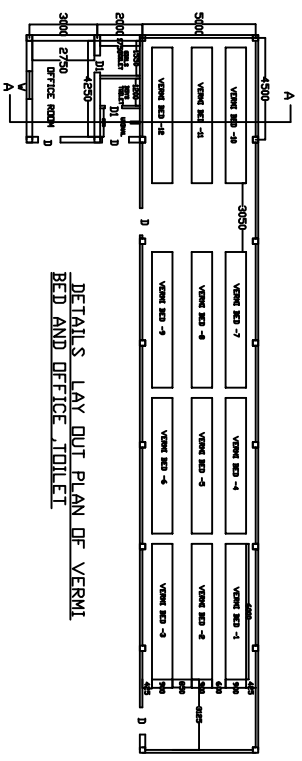
TIE BEAM DETAILS & LAY OUT PLAN



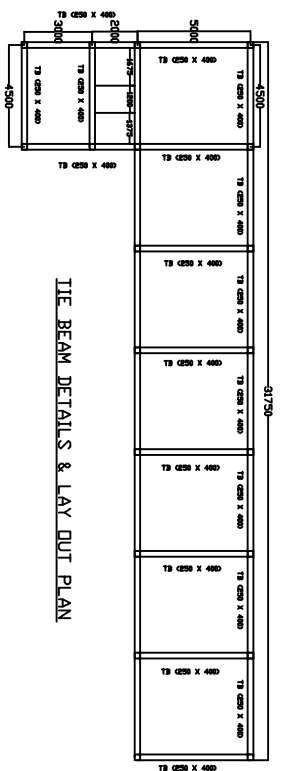
COLUMN LAY OUT PLAN

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) ALL RCC GRADE OF CONCRETE IS M-20 & PCC IS M-15 GRADE AND STEEL OF FE-415 GRADE
- 3) ALL DOOR (D) 1200X2100 MM, DOOR (D1) = 750 X 2100MM

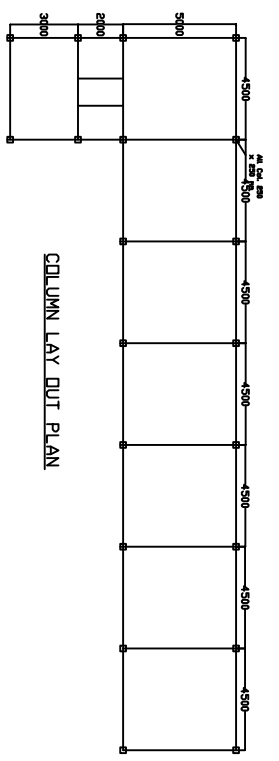
PROPOSED DRAWING FOR CONSTRUCTION OF CENTRAL PROCESSING UNIT (VERMI COMPOSED UNIT & OFFICE, TOILET FOR SOLID WASTE MANAGEMENT PROJECT AT, MOUZA -MAHARAJPUR, J.L. NO. 19, PLOT NO.-1598 UNDER SIRSHA GRAM PANCHAYAT, KESHPUR PANCHAYAT SAMITY



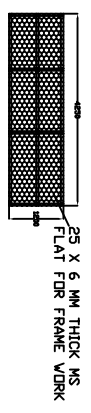
DETAILS LAY OUT PLAN OF VERMI BED AND OFFICE, TOILET



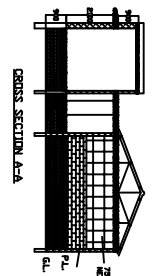
TIE BEAM DETAILS & LAY OUT PLAN



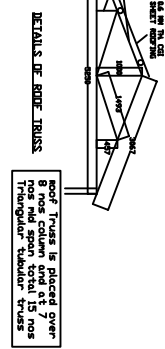
COLUMN LAY OUT PLAN



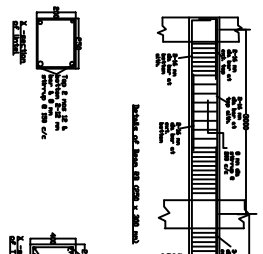
DETAILS OF FENCING
MSK AT CRU



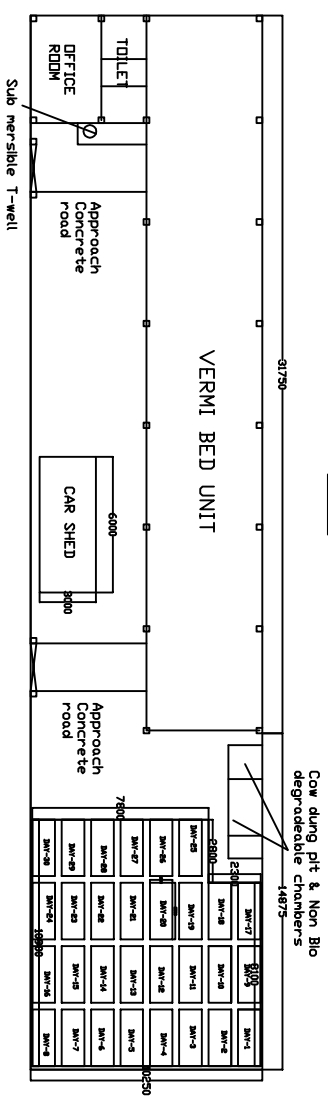
CROSS SECTION A-A



DETAILS OF ROOF TRUSS



DETAILS OF COLUMN FOOTING



TYP. DETAILS LAY OUT PLAN OF DIFFERENT UNIT UNDER SOLID WASTE MANAGEMENT PROJECT

NOTE :

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) ALL RCC GRADE OF CONCRETE IS M-20 & PCC IS M-15 GRADE AND STEEL OF FE-415 GRADE
- 3) ALL DDDR (D) 1200X2100 MM, DDDR (D) = 750 X 2100MM

PARTIAL DE COMPOSITION BED