

SAMTA FARMAR PRODUSAR KAMPNI
LIMITED. AT-MANBN TAL. MURBAD
CONSTRUCTION OF GRAIN GODOWN OF
CAPACITY 1080 MT

NAME OF WORK

5) Godown Construction

Quantity	Description of item	Rate	Per	Amount
		(in Rs.)	Unit	
1	2	3	4	5
254.47	<p>Item No. 1</p> <p>Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means</p> <p>Rate Anyalysis No.1</p>	193.00	One Cubic Meter	49111.94
116.28	<p>Item No. 2</p> <p>Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means</p> <p>Rate Anyalysis No.2</p>	241.00	One Cubic Meter	28123.48
34.09	<p>Item No.3</p> <p>Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.</p> <p>Rate Anyalysis No.3</p>	291.10	One Cubic Meter	9923.57
135.83	<p>Item No.4</p> <p>Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including</p> <p>Rate Anyalysis No.4</p>	728.10	One Cubic Meter	98897.50
176.29	<p>Item No. 5</p> <p>Providing dry/ trap/ granite/quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.</p> <p>Rate Anyalysis No.5</p>	1718.35	One Cubic Meter	302934.11
99.10	<p>Item No.6</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete in M-15 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum fltype mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</p> <p>Rate Anyalysis No.6</p>	6663.25	One Cubic Meter	660328.08

	Description of work	Rate (Rs.)	Qty (m ³)	Amount
15.26	<p>Item No. 7</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. walls as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks and battens of 4 : 1 concrete and steel reinforcement etc. including laying out water, steel centering, formwork, laying/pumping, compaction and curing etc./complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand ISI Grade finely washed etc)</p> <p>Rate Analysis No.7</p>	1018.90	One Cubic Meter	1018.90
15.26	<p>Item No. 8</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, compacting and roughening if special finish is to be provided and curing etc./complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand ISI Grade finely washed etc)</p> <p>Rate Analysis No.8</p>	1173.90	One Cubic Meter	1173.90
15.26	<p>Item No. 9</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. beams and bents as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand ISI Grade finely washed etc)</p> <p>Rate Analysis No.9</p>	1254.90	One Cubic Meter	1254.90

Description of item		Rate	Per	Amount
		(in Rs)	Unit	
1	2	3	4	5
15.45	<p>Item No.10</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including steel centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</p> <p>Rate Analysis No.10</p>	14085.90	One Cubic Meter	217621.52
4.84	<p>Item No.11</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / granite / gneiss / quartzite metal for R.C.C. fins of required thickness in position as shown on the drawings or as directed by Engineer-in-charge including steel centering, plywood / steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</p> <p>Rate Analysis No.11</p>	18231.90	One Cubic Meter	83311.68
21.66	<p>Item No.12</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</p> <p>Rate Analysis No.12</p>	14085.90		305050.45

1	Description of item	Rate	Per	Amount
		(in Rs.)	Unit	
2		3	4	5
18.02	<p>Item No. 13</p> <p>Providing and fixing in position TMT- FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, parris, copings, fins, arches etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete, including CPCC treatment</p> <p>Rate Anylysis No.13</p>	81900.00	M.T.	1475459.26
401.58	<p>Item No. 14</p> <p>Providing and applying two coats of protective membrane over the cured concrete surface like R.C.C. footings, columns, plinth beams etc. which will be submerged under soil so as to protect the same. Apply two pack coal-tar epoxy system of Sunepoxy-Coaltar of approved make & approved by Engineer in charge, having solid content ranges from 80-100%, Tack free time 4-6 hrs. Recoat after 16-24 hrs. Mix Part A and Part B of Sunepoxy Coaltar of approved make & approved by Engineer in charge in 1:1 ratio with slow speed stirrer and apply the same on a clean R.C.C. surface by brush. Allow to set for 8-10 hours and apply the second coat. The rate to include for application at all levels to various RCC elements to the satisfaction of the EIC etc. complete.</p> <p>Rate Anylysis No.14</p>	247.00	One Square Meter	99190.26
441.61	<p>Item No. 15</p> <p>Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper.</p> <p>Rate Anylysis No.15</p>	92.00	One Square Meter	40634.56
656.05	<p>Item No. 16</p> <p>Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of chlorophyrifos per square metre of surface area covering ten years guarantee on bond paper.</p> <p>Rate Anylysis No.16</p>	94.00	One Square Meter	61668.70

	Description of item	Rate (in Rs.)	Per Unit	Amount
1	2	3	4	5
10.08	Item No.17 Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete. Rate Anyalysis No.17	5633.75	One Cubic Meter	56788.20
50.40	Item No. 18 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking Rate Anyalysis No.18	8078.45	One Cubic Meter	407147.01
123.74	Item No.19 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete Rate Anyalysis No.19	8305.45	One Cubic Meter	1027737.15
590.63	Item No.20 Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 with neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete. Rate Anyalysis No.20	459.20	One Square Meter	271215.00
1062.18	Item No.21 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. Rate Anyalysis No.21	641.60	One Square Meter	681494.69

	Description of item	Rate (in Rs.)	Per Unit	Amount
1	2	3	4	5
602.10	<p>Item No.22</p> <p>Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance +/- 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels. The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 15.30 meter having arch rise as 3.06 meter, arch length 17.75 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 0.80 millimeter (tolerance +/- 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 7' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing, testing and cleaning etc. complete.</p> <p>Rate Anyalysis No.22</p>	2068.00	One Square Meter	1245132.46
590.63	<p>Item No. 23</p> <p>Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces (including the primer coat) etc. complete.</p> <p>Rate Anyalysis No.23</p>	77.00	One Square Meter	45478.13
1062.18	<p>Item No.24</p> <p>Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.</p> <p>Rate Anyalysis No.24</p>	93.00	One Square Meter	98782.74

	Description of item	Rate (in Rs.)	Per Unit	Amount
1	2	3	4	5
212.40	<p>Item No. 25</p> <p>Providing and fixing P.V.C. Rain water pipes of 110mm outer diameter and having wall thickness of 2.2 to 2.7 mm conforming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as elbows, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall and fixing with clips of approved quality and number, filling the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete.</p> <p>Rate Anylysis No.25</p>	502.00	One Running Meter	106624.80
17.28	<p>Item No 26</p> <p>Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical gear)</p> <p>Rate Anylysis No.26</p>	4310.00	One Square Meter	74476.80
30.24	<p>Item No.27</p> <p>Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain / obscured glass pans 5 mm thick and approved type quality and iron oxidized fixtures and fastening with guard square bars 12 mm 10 cm c/c and f welded mesh of 3 mm dia. wires 50 mm x 25 mm size mesh including integrated non teak seasoned wood frame 80 x 50 mm of vertical and horizontal scantling and finishing with oil painting 3 coats etc. complete</p> <p>Rate Anylysis No.27</p>	6885.00	One Square Meter	208202.40

1	Description of item	Rate	Per	Amount
		(in Rs.)	Unit	
2		3	4	5
80.20	Item No.28 Providing and laying in situ cement concrete M-30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4mm wide and 20 mm deep with necessary refilling with bitumen (excluding reinforcement) with coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) etc. complete Rate Anylysis No.28	8508.90	One Square Meter	767524.05
71.52	Item No.29 Providing and laying Rough Shahabad Stone Flooring 40mm to 45 mm. thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. Complete Rate Anylysis No.29	800.75	One Square Meter	57269.64
19.31	Item No.30 Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. Rate Anylysis No.30	1242.75	One Square Meter	23991.29
16.20	Item No.31 Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing etc. complete. Rate Anylysis No.31	197.75	One Square Meter	3222.00
211.60	Item No.32 Add for Royalty Charges For Rubble And Murum and HB metal.	216.18	Cum	45743.89
269.90	Total	237.37	Cum	64066.16
Total Of work Portion		(A)		1018728.87
			Total Rs	1018728.87
			Rs	60726.80
			Rs	1218866.30
			Rs	11426871.87
			Bay Rs	11426872.00

ADD 0.5 % for Insurance On A
ADD 12 % For GST Charges on A
For 1 Cumum 1080 MT each

Grand Total Rs 11426871.87
Bay Rs 11426872.00

4.2.2022

10.8.2022

Measurement

Item no :-1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including						
	A) Column Footings						
	C1 to C 24	24	x	1.70	x	1.90	x 1.50 = 116.28 Cum
	B) Rampwall and Platform						
	(4.2+4.2+4.2+1.5)	2	x	14.30	x	0.75	x 1.50 = 32.18 Cum
		2	x	5.90	x	0.75	x 1.50 = 13.28 Cum
		4	x	0.75	x	0.75	x 1.50 = 3.38 Cum
	C) Plinth Protection						
	(38.26+14.3-5.90)	2	x	20.06	x	1.00	x 0.30 = 12.04 Cum
		2	x	15.70	x	1.00	x 0.30 = 9.42 Cum
	D) For						
	Guard wall for	4	x	2.00	x	0.75	x 1.50 = 9.00 Cum
	Below Steps	4	x	2.00	x	1.50	x 0.60 = 7.20 Cum
Side gutter		2	x	39.75	x	0.50	x 0.90 = 35.78 Cum
		2	x	17.70	x	0.50	x 0.90 = 15.93 Cum
	Qty For One Godown						Total = 254.47 Cum
							Total Qty = 254.47 Cum

Item no :-2	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area						
	Foundation of Columns						
	Column C1 to C24	24	x	1.70	x	1.90	x 1.50 = 116.28 Cum
	Qty For One Godown						Total = 116.28 Cum
							Total Qty = 116.28 Cum

Item no :-3	Filling in plinth and floors with approved excavated material in 15cm to 20cm layers including watering and compacting etc. complete.						
	For Footing trenches						
	Qty of Excavation item No 1						254.47 Cum
	Qty of Excavation item No 2						116.28 Cum
							<u>Total Qty. - 370.75 Cum</u>
	Deduct Qty of -						
	Qty of Soling I. No 6 A						41.73 Cum
	Qty of PCC item No 7						35.76 Cum
	Qty of Footing item No 8						27.50 Cum
	Qty of Column item No 9						8.63 Cum
							<u>Total Ded. - 113.63 Cum</u>
	Qty For One Godown						70% = 79.54 Cum
							Total Qty = 34.09 Cum

Item no :-4	Filling in plinth and floors with contractors material/brought from outside and approved by in plinth above G.L.						
	In warehouse	1	x	37.57	x	15.00	x 0.35 = 197.24 Cum
	In platform	4	x	3.30	x	1.75	x 0.35 = 8.09 Cum
	Ramp	2	x	8.20	x	1.75	x 0.35 = 10.05 Cum
							Total = 215.37 Cum
	Qty as filling by Excavated Material 70% of I.No.9			113.6	x	70%	= 79.54 Cum
	Hence Net qty of Contractors murum						= 135.83 Cum
							Total Qty = 135.83 Cum

Item no 6:-	Foundation of Columns	Column C1 First layer	For Ground level Beams	Long wall Beams	Short wall beams	B) Rampwall and Platform	(4.2+4.2+4.2+1.5=14.10)	For Plinth Protection	D) For Steps	Guard wall for steps	Below Steps	Side gutter
24	x	1.70	x	1.70	x	1.90	x	0.15	x	0.10	x	0.10
20	x	3.90	x	0.55	x	0.55	x	0.10	x	0.10	x	0.10
6	x	4.68	x	0.55	x	0.55	x	0.10	x	0.10	x	0.10
2	x	14.10	x	0.75	x	0.75	x	0.10	x	0.10	x	0.10
2	x	5.90	x	0.75	x	0.75	x	0.10	x	0.10	x	0.10
2	x	20.06	x	1.00	x	1.00	x	0.10	x	0.10	x	0.10
2	x	15.70	x	1.00	x	1.00	x	0.10	x	0.10	x	0.10
4	x	2.00	x	1.50	x	1.50	x	0.10	x	0.10	x	0.10
4	x	2.00	x	1.50	x	1.50	x	0.10	x	0.10	x	0.10
2	x	39.75	x	0.50	x	0.50	x	0.10	x	0.10	x	0.10
2	x	17.70	x	0.50	x	0.50	x	0.10	x	0.10	x	0.10
1	x	37.57	x	15.00	x	15.00	x	0.10	x	0.10	x	0.10
4	x	3.30	x	1.75	x	1.75	x	0.20	x	0.20	x	0.20
4	x	8.20	x	1.75	x	1.75	x	0.20	x	0.20	x	0.20
5	x	39.75	x	0.50	x	0.50	x	0.20	x	0.20	x	0.20
5	x	17.70	x	0.50	x	0.50	x	0.20	x	0.20	x	0.20
Total Qty		170		190		190		0.23		0.20		0.20
Providing and laying Cast in situ/Ready Mix cement concrete in M-15 of trap/granite/quadrate/												
17.83 Cum												
4.23 Cum												
1.77 Cum												
8.02 Cum												
6.28 Cum												
1.20 Cum												
2.40 Cum												
41.73 Cum												
112.71 Cum												
4.62 Cum												
5.74 Cum												
7.95 Cum												
3.54 Cum												
134.56 Cum												
176.29 Cum												
176.29 Cum												
Item no 6:-												
24	x	1.70	x	1.70	x	1.90	x	0.15	x	0.10	x	0.10
20	x	3.90	x	0.55	x	0.55	x	0.10	x	0.10	x	0.10
6	x	4.68	x	0.55	x	0.55	x	0.10	x	0.10	x	0.10
2	x	14.10	x	0.75	x	0.75	x	0.10	x	0.10	x	0.10
2	x	5.90	x	0.75	x	0.75	x	0.10	x	0.10	x	0.10
2	x	20.06	x	1.00	x	1.00	x	0.10	x	0.10	x	0.10
2	x	15.70	x	1.00	x	1.00	x	0.10	x	0.10	x	0.10
4	x	2.00	x	1.50	x	1.50	x	0.10	x	0.10	x	0.10
4	x	2.00	x	1.50	x	1.50	x	0.10	x	0.10	x	0.10
2	x	39.75	x	0.50	x	0.50	x	0.10	x	0.10	x	0.10
2	x	17.70	x	0.50	x	0.50	x	0.10	x	0.10	x	0.10
1	x	37.57	x	15.00	x	15.00	x	0.10	x	0.10	x	0.10
4	x	3.30	x	1.75	x	1.75	x	0.20	x	0.20	x	0.20
4	x	8.20	x	1.75	x	1.75	x	0.20	x	0.20	x	0.20
5	x	39.75	x	0.50	x	0.50	x	0.20	x	0.20	x	0.20
5	x	17.70	x	0.50	x	0.50	x	0.20	x	0.20	x	0.20
Total Qty		170		190		190		0.23		0.20		0.20
Providing and laying Cast in situ/Ready Mix cement concrete in M-15 of trap/granite/quadrate/												
17.83 Cum												
4.23 Cum												
1.77 Cum												
8.02 Cum												
6.28 Cum												
1.20 Cum												
2.40 Cum												
41.73 Cum												
112.71 Cum												
4.62 Cum												
5.74 Cum												
7.95 Cum												
3.54 Cum												
134.56 Cum												
176.29 Cum												
176.29 Cum												
Item no 7:-												
24	x	1.50	x	1.70	x	1.70	x	0.45	x	0.10	x	0.10
2	x	5.90	x	1.75	x	1.75	x	0.10	x	0.10	x	0.10
2	x	14.10	x	1.75	x	1.75	x	0.10	x	0.10	x	0.10
1	x	37.57	x	15.00	x	15.00	x	0.10	x	0.10	x	0.10
4	x	2.00	x	1.50	x	1.50	x	0.10	x	0.10	x	0.10
4	x	2.00	x	1.50	x	1.50	x	0.10	x	0.10	x	0.10
2	x	39.75	x	0.50	x	0.50	x	0.10	x	0.10	x	0.10
2	x	17.70	x	0.50	x	0.50	x	0.10	x	0.10	x	0.10
1	x	37.57	x	15.00	x	15.00	x	0.10	x	0.10	x	0.10
4	x	3.30	x	1.75	x	1.75	x	0.20	x	0.20	x	0.20
4	x	8.20	x	1.75	x	1.75	x	0.20	x	0.20	x	0.20
5	x	39.75	x	0.50	x	0.50	x	0.20	x	0.20	x	0.20
5	x	17.70	x	0.50	x	0.50	x	0.20	x	0.20	x	0.20
Total Qty		150		170		170		0.45		0.10		0.10
Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite												
27.50 Cum												
27.50 Cum												
27.54 Cum												
99.10 Cum												
99.10 Cum												
99.11 Cum												
63.36 Cum												
2.07 Cum												
4.84 Cum												
58.38 Cum												
35.76 Cum												
1.77 Cum												
3.98 Cum												
1.20 Cum												
1.20 Cum												
3.74 Cum												
4.01 Cum												
60.89 Cum												
2.12 Cum												
1.54 Cum												
4.29 Cum												
11.63 Cum												
Item no 7:-												

Below Ground Level	C1 to 24	24	x	0.30	x	0.60	x	2.00	=	8.64 Cum
Above Ground Level	C1 to 24	24	x	0.30	x	0.60	x	6.50	=	28.08 Cum
Total (A+B)										
Total Qty										
= 45.36 Cum										
= 45.36 Cum										

Item no. -9 Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/

For Ground level Beams

Long wall Beams	2	x	9	x	3.90	x	0.30	x	0.50	=	10.53 Cum
Short wall beams	2	x	3	x	4.80	x	0.30	x	0.50	=	4.32 Cum
Lintel	2	x	9	x	3.90	x	0.23	x	0.50	=	8.07 Cum
Short wall	2	x	3	x	4.80	x	0.23	x	0.50	=	3.31 Cum
Roof level	2	x	9	x	3.90	x	0.30	x	1.00	=	21.06 Cum
Chajj Box lintel	2	x	3	x	4.80	x	0.30	x	0.50	=	4.32 Cum
Above shutter	2	x	42	x	1.80	x	0.23	x	0.25	=	8.66 Cum
Platform	2	x	2	x	14.10	x	0.30	x	0.15	=	2.54 Cum
	2	x	2	x	2.50	x	0.30	x	0.15	=	0.45 Cum
TOTAL										=	65.69 Cum
Total Qty										=	65.69 Cum

Item no. -10 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including steel cantoria, formwork, laying, pumping, compacting and roughening the surface if

Side Beam

Side Beam	4	x	2	x	2.70	x	0.35	x	0.50	=	3.78 Cum
Front Beam	4	x	1	x	5.03	x	0.35	x	0.50	=	3.52 Cum
Slab	4	x	1	x	5.03	x	2.70	x	0.15	=	8.15 Cum
TOTAL										=	15.45 Cum
Total Qty										=	15.45 Cum

Item no. -11 Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ Box Type

Ventilators	48	x	2	x	1.20	x	0.45	x	0.065	=	3.23 Cum
	48	x	2	x	0.60	x	0.45	x	0.065	=	1.61 Cum
Total										=	4.84 Cum
Total Qty										=	4.84 Cum

Item no. -12 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/

RCC RAT LIP Projection

RCC RAT LIP Projection	2	x	38.26	x	0.45	x	0.130	=	4.48 Cum		
Bottom Chajja	2	x	15.70	x	0.45	x	0.130	=	1.84 Cum		
	2	x	38.26	x	0.45	x	0.130	=	4.48 Cum		
RCC GUTTER	2	x	15.70	x	0.45	x	0.130	=	1.84 Cum		
	2	x	39.26	x	0.55	x	0.100	=	4.32 Cum		
	2	x	39.26	x	0.10	x	0.600	=	4.71 Cum		
Total										=	21.66 Cum
Total Qty										=	21.66 Cum

Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for:

Footing	27.50	x	50	Kg/Cum	=	1375.00 Kg
Column	45.36	x	150	Kg/Cum	=	6804.00 Kg
Beam	65.69	x	100	Kg/Cum	=	6568.90 Kg
Canopy	15.45	x	100	Kg/Cum	=	1544.96 Kg
Fine	4.84	x	65	Kg/Cum	=	314.65 Kg
Chajja	21.66	x	65	Kg/Cum	=	1407.92 Kg
TOTAL					=	18015.38 Kg
Total Qty					=	18.02 MT

I. No - 14 Providing and applying two coats of protective membrane over the cured concrete surface
For Column Footings

						Qty	Unit
Column No C1 to 24							
Top	24	x	1	x	1.50	x	1.70 = 61.20 SqM
Base Sides	24	x	2	x	1.50	x	0.45 = 32.40 SqM
Base Sides	24	x	2	x	1.70	x	0.45 = 36.72 SqM
Columns Upto Plinth	24	x	2	x	0.30	x	2.45 = 35.28 SqM
	24	x	2	x	0.60	x	2.45 = 70.56 SqM
For Ground level Beams							
Long wall Beams	18	x	2		3.90		0.45 = 63.18 SqM
For Rat Barrier	18	x	2		3.90		0.40 = 56.16 SqM
Short wall beams	3	x	2		4.80		0.35 = 10.08 SqM
	3	x	2		4.80		0.45 = 12.96 SqM
For Rat Barrier	3	x	2		4.80		0.35 = 10.08 SqM
	3	x	2		4.80		0.45 = 12.96 SqM
Total Qty. -						401.58	SqM
Total Qty						401.58	SqM

I. No - 15 Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the

Foundation of Columns							
Column C1 to 24			24	x	1.70	x	1.90 = 92.00 SqM
Sides	2	x	24	x	1.70	x	2.40 = 143.52 SqM
Sides	2	x	24	x	1.90	x	2.40 = 156.00 SqM
For Ground level Beams							
Long wall Beams	18	x	3.90	x	0.35		= 37.62 SqM
Short wall beams	6	x	4.80	x	0.35		= 12.54 SqM
Total Qty. -						441.68	SqM
Total Qty						441.68	SqM

I. No - 16 Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of chlorpyrifos per square metre of surface area covering ten years guarantee on bond

In	1	x	37.57	x	15.00	=	563.55 Sqm
In platform	2	x	14.10	x	2.50	=	70.50 Sqm
	2	x	4.40	x	2.50	=	22.00 Sqm
Total Qty						656.05	Sqm
Total Qty						656.05	Sqm

Item no. - 17 Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement

Ramp Wall	4	x	4.20	x	0.60	x	1.00 = 10.08 Cum
Total Qty						10.08	Cum

second class Burnt Brick masonry with conventional/ I.S. type bricks in cement

Level Beams											
Long wall Beams	18	x	3.90	x	0.23	x	0.70	=	11.30 Cum		
Short wall beams	6	x	4.80	x	0.23	x	0.70	=	4.64 Cum		
Plinth protection	2	x	23.46	x	0.23	x	0.25	=	2.70 Cum		
	2	x	15.70	x	0.23	x	0.25	=	1.81 Cum		
Flat form Brick work	4	x	4.20	x	0.23	x	1.00	=	3.86 Cum		
	2	x	1.87	x	0.23	x	1.00	=	0.86 Cum		
For steps	4	x	2	x	1.50	x	0.23	x	1.20	=	3.21 Cum
Step No 1	4	x	1	x	1.65	x	1.50	x	0.17	=	1.68 Cum
Step No 2	4	x	1	x	1.50	x	1.20	x	0.17	=	1.22 Cum
Step No 3	4	x	1	x	1.50	x	0.90	x	0.17	=	0.92 Cum
Step No 4	4	x	1	x	1.50	x	0.60	x	0.17	=	0.81 Cum
Step No 5	4	x	1	x	1.50	x	0.30	x	0.17	=	0.31 Cum
Side gutter	2	x	39.75	x	0.23	x	0.65	=	11.89 Cum		
	2	x	17.70	x	0.23	x	0.65	=	5.29 Cum		
TOTAL									=	50.40 Cum	
Total Qty									=	50.40 Cum	

Item no.-19 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints; watering and scaffolding etc. Complete

L.W	2	x	9	x	3.90	x	0.23	x	5.25	=	84.77 Cum					
S.W	2	x	13	x	4.80	x	0.23	x	5.25	=	34.78 Cum					
Area of segment	$\frac{1}{2} \times r \times r (3.14 / 180 \times \text{Angle} \times \sin 87)$ radius = 10.875 angle = 87 $\frac{1}{2} \times 10.875 \times (3.14 / 180 \times 87 \times \sin 87)$ 31.20 Sqmt									2	x	31.20	x	0.35	=	21.84 cum
Deduct shutter	1	x	4	x	1.80	x	0.35	x	2.40	=	-6.05 Cum					
Ventilator V1	1	x	46	x	1.20	x	0.35	x	0.60	=	-11.59 Cum					
TOTAL									=	123.74 Cum						
Total Qty									=	123.74 Cum						

Item no.-20 Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 with smooth finish, to concrete, brick surface; in all positions including scaffolding and curing etc. complete

H	2	x	37.57	x	5.25	=	394.49 Smt		
V	2	x	15.00	x	5.25	=	157.50 Smt		
Gable Segment	2	x	1.00	x	31.20	=	62.40 Smt		
Deduct shutter	2	x	1.80	x	2.40	=	8.64 Smt		
V2	0.5	x	42	x	1.20	x	0.60	=	-15.12 Smt
TOTAL							=	590.63 Smt	
Total Qty							=	590.63 Smt	

Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8

H	2	x	38.70	x	6.55	=	506.97 Smt.	
V	2	x	15.70	x	6.25	=	199.25 Smt.	
Cable Segment	2	x	1.00	x	31.20	=	62.40 Smt.	
Deduct shutter	2	x	1.80	x	2.40	=	8.64 Smt.	
V2	0.5	42	x	1.20	x	0.60	=	15.12 Smt.
Window Box	2	42	x	1.20	x	0.45	=	45.36 Smt.
	2	42	x	0.60	x	0.45	=	22.68 Smt.
Rat Lip Projection	2	2	x	38.70	x	0.45	=	69.66 Smt.
	2	2	x	15.70	x	0.45	=	28.26 Smt.
Canopy	4	2	x	2.70	x	0.55	=	11.88 Smt.
	4	1	x	5.70	x	0.55	=	12.54 Smt.
Plinth Protection	2	2	x	23.26	x	0.25	=	11.93 Smt.
	2	2	x	15.70	x	0.25	=	7.85 Smt.
Gutter	2	2	39.75	x	0.65	=	51.68 Smt.	
	2	2	39.75	x	0.45	=	35.78 Smt.	
	2	2	17.70	x	0.65	=	23.01 Smt.	
	2	2	17.70	x	0.45	=	15.93 Smt.	
						TOTAL	=	1,062.18 Smt.
						Total Qty:		1,062.18 Smt.

Item no.-22 Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance +/- 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels. The interlocking panels shall be pressed to close the

1	X	38.35	X	15.70	=	602.10 Smt.
					Total Qty	602.10 Smt.

Item no.-23 Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces (including the primer coat) etc. complete.

Qty. is equal to qty of item no.15					=	590.63 Sqm
					Total Qty	590.63 Sqm

Item no.-24 Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.

Qty. is equal to qty of item no. 16					=	1,062.18 Sqm
					Total Qty	1,062.18 Sqm

Item no.-29	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lath plate of 3 to 5 mm thickness reinforced with 35 x 35 x 5 mm angle sections fixed with riding bolts and handles for both sides, deep M.S. channel section of depth 100 mm thickness not less than 60mm and 3.15 mm respectively with hold fast arrangements.	17.28 Sqm	4	1.800	x	2.40	=	17.28 Sqm
Item no.-27	Providing and fixing steel ventilator fully glazed, partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain / obscured glass pane 5 mm thick and approved type quality and iron oxidized fixtures and fastening with galvanized bars 12 mm 10 cm c/c and 1 welded mesh of 3 mm dia. wires 50 mm x 25 mm size mesh.	30.24 Sqm	42	1.20	x	0.60	=	30.24 Sqm
Item no.-26	Providing and laying in situ cement concrete M-30 with tremix treatment for 200 mm thickness for concrete. Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen (excluding reinforcement) with coarse and fine aggregate (natural sand/ VSI graded finely washed crushed sand) etc. complete.	84.53 Cum	1	37.57	x	0.15	=	84.53 Cum
		5.57 Cum	4	2.1	x	0.15	=	5.57 Cum
		90.20 Cum	TOTAL				=	90.20 Cum
		90.20 Cum	Total Qty				=	90.20 Cum
Item no.-25	Providing and laying Rough Shahabad Stone Flooring 40mm to 45 mm. thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. Complete.	40.12 Sqm	2	20.06	x	1.00	=	40.12 Sqm
		31.40 Sqm	2	15.70	x	1.00	=	31.40 Sqm
		71.52 Sqm	Total				=	71.52 Sqm
		71.52 Sqm	Total Qty				=	71.52 Sqm
Item no.-30	Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm	16.50 Sqm	2	8.25	x	0.30	=	16.50 Sqm
		2.81 Sqm	5	1.65	x	0.17	=	2.81 Sqm
		19.31 Sqm	Total				=	19.31 Sqm
		19.31 Sqm	Total Qty				=	19.31 Sqm
Item no.-31	Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including Ramp	16.50 Sqm	4	4.125	x	1.00	=	16.50 Sqm
		16.50 Sqm	Total Qty				=	16.50 Sqm

