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**Name of Work :- CONSTRUCTION OF 1/2000 M.T. CAP.WH  
ANCILLARY WORKS AT GUT NO.137 BARLI BK , TQ.MUKHED  
DIST.NANDED**

**RAJE MALHARRAO HOLKAR AGRO PRODUCER  
COMPANY LTD BERLI TQ.MUKHED ESTIMATE  
PREPARED FOR CONSTRUCTION OF 2000 MT WARE  
HOUSE**



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Name of Work :- CONSTRUCTION OF 1/2000 M.T. CAP.WH ANCILLARY WORKS AT GUT NO.137 BARLI BK ,  
TQ.MUKHED DIST.NANDED

### RECAPITULATION SHEET

(A) COST OF Civil WORK	Rs.	15329113
(B) Cost of Electrification		1686202
(C) Royalty charges		152988
(D) Material testing charges		28615
TOTAL	Rs.	17196918
(E) Add 18% GST	Rs.	3095445
(F) Add 0.5% Insurance	Rs.	76646
(G) Add Contigencies		894991
TOTAL	Rs.	21264000

*K.V.*

**K.V. AMRUTWAD**  
B.E. (Civil)  
CONSULTING ENGINEER  
R.No.TP/NWCMC/ENGG/44

Name of Work :- CONSTRUCTION OF 1/2 M.T. CAP.WH ANCILLARY WORKS AT GUT NO.137 BARLAK, TQ.MUKHED DIST.NANDED

ABSTRACT SHEET

Sr. No.	Item Description	Quantity	Unit	Item.No./ Page.No.	Basic Rate	Lead Charges		Lifts & RA	Total Rate	Add 0% Corporation area	Total of Rates 6 to 11	Add 0% for charges	Total of rates 6 to 14	Amount
						Sand/HM	Metal/Brick							
1	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, rammimg, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By	370.45	Cum	21.02/148	207.00			10	207.00		207.00		207.00	76682.34
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 and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, rammimg, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By	0.00	Cum	21.04/148	258.00				258.00		258.00		258.00	0.00
3	Excavation for foundation in hard murum including removing the excavated material upto 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, rammimg, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means	126.58	Cum	21.06/148	227.00				227.00		227.00		227.00	28734.57
4	Excavation for foundation in Hard 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, rammimg, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.)	0.00	Cum	21.08/148	284.00		0.00		284.00		284.00		284.00	0.00
5	Excavation for foundation in hard murum and boulders including removing the excavated material upto a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, rammimg, watering including shoring and strutting etc.	79.12	Cum	21.10/148	252.00				252.00		252.00		252.00	19936.98

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Sr. No.	Item Description	Quantity	Unit	Item No./ Page No.	Basic Rate	Lead Charges	Lifts & RA	Total Rate	0.0% Corporation area	Total of Rates 6 to 11	Add 0% for charges	Total of rates 6 to 14	Amount
6	Excavation for foundation in Hard murum and boulders 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 1.5 m to 3.0 m.) By Mechanical	0.00	Cum	21.12/148	312.00			312.00		312.00		312.00	0.00
7	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.	93.71	Cum	2.11/27	119.00			119.00		119.00		119.00	11151.79
8	Excavation for roadway in hard murum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.		Cum	2.13/27	139.00			139.00		139.00		139.00	0.00
9	Providing and laying Cast in situ/Ready Mix concrete in M-10 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 Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	93.47	Cum	24.01/169	5830.00	546.85	-126.00	6250.85		6250.85		6250.85	584278.68
10	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.	19.39	cum	28.01/191	5025.00			5025.00		5025.00		5025.00	97410.13
11	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 joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.	95.35	CM	27.01/189	7755.00			7755.00		7755.00		7755.00	739439.33
12	Providing & laying 35 cm wide single layer tarlet by applying initial coat of shallbond @ 1 kg /sqm fixing in place by wire nails for DPC at plinth as directed by engineer incharge	37.18	Sqm	R.A.	349.25			349.25		349.25		349.25	12984.07

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Sr. No.	Item Description	Quantity	Item No./ Page No.	Basic Rate	Lead Charges	Lifts & RA	Total Rate	10% Corporation area	Total of Rates 6 to 11	Add. % for charges 14	Total of rates 6 to 14	Amount
13	Providing and fixing in position IMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newells, chajjas, lintels, pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and	13.00	M.T, 26.33/182	89703.00			89703.00		89703.00		89703.00	1166139.00
14	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing/roughening the surface if special finish is	62.20	cum 25.11/172	1098.00	623.77	-126.00	1595.77		1595.77		1595.77	99262.37
15	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing/roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, 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	67.91	cum 25.31/173	13783.00	623.77	-126.00	14280.77		14280.77		14280.77	969872.78
16	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels 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 (Crushed sand VSI Grade)	74.49	cum 25.50/175	12269.00	623.77	-126.00	12766.77		12766.77		12766.77	950979.08

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Sr. No.	Item Description	Quantity	Item No./ Page No.	Basic Rate	Lead Charges	Lifts & RA	Total Rate	0% Corporation area	Total of Rates 6 to 11	Add.0% for charges 14	Total of rates 6 to 14	Amount
17	Providing and laying Cast.in.situ/Ready Mix concrete M-20 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 (Crushed sand VSI	3.98	26.05/178	13932.00	623.77	-126.00	14429.77		14429.77		14429.77	57401.63
18	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or 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 (Crushed sand VSI Grade)	4.68	25.7/176	14116.00	623.77	-126.00	14613.77		14613.77		14613.77	68392.44
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	280.34	27.05	7994.00			7994.00		7994.00		7994.00	2081146.37
20	Providing and laying Cast in situ/Ready Mix cement concrete M-15 of trap/ granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as directed including steel centering, plywood/ steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) With fine aggregate (Crushed sand VSI	1.29	24.16/171	6359.00		-126.00	6233.00		6233.00		6233.00	8010.65

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Sl. No.	Item Description	Quantity	Item No. / Page No.	Basic Rate	Lead Charges	Lifts & RA	Total Rate	Total of Rates 6 to 11	Add-0% for charges	Total of rates 6 to 14	Amount
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 1Kilogramper 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	1671.46 Sqm	32.11/201	639.00	10.14		649.14	649.14		649.14	1085009.11
22	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	1348.85 Sqm	32.07/201	382.00	10.14		392.14	392.14		392.14	528938.63
23	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 with neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	477.53 Sqm	32.21/202	382.00	10.14		392.14	392.14		392.14	187258.61
24	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.	64.98 Sqm	32.04/201	278.00	10.14		288.14	288.14		288.14	18724.42
25	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	621.75 Sqm	36.03/218	12.00			12.00	12.00		12.00	7460.94
26	Providing and applying two coats of exterior acrylic emulsion paint confirming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete.	709.94 Sqm	35.25/217	261.00			261.00	261.00		261.00	185293.56
27	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat)	129.27 Sqm	35.11/216	88.00			88.00	88.00		88.00	11375.76

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Sr. No.	Item Description	Quantity	Item No./ Page No.	Basic Rate	Lead Charges	Lifts & RA	Total Rate	Total of Rates 6 to 11	Add. 0% for charges	Total of rates 6 to 14	Amount
28	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)	21.42	Sqm	39.24/238	4829.00		4829.00	4829.00		4829.00	103437.18
29	Providing and fixing M.S. grill door 24 Kilogram/Square Metre of various size as per detailed drawings without hot dip coating, iron fixtures and fastenings and 3 coats of oil painting etc	38.58	Sqm	39.31/239	3258.00		3258.00	3258.00		3258.00	125693.64
30	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position.	32.85	M.T.	23.04/167	119459.00		119459.00	119459.00		119459.00	3923759.75
31	Providing and fixing colour coated Zincalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) ( 0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center- to-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52	758.96	Sqm	38.34/227	1173.00		1173.00	1173.00		1173.00	890260.08

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Sr. No.	Item Description	Quantity	Item No./ Page.No.	Basic Rate	Lead Charges	Taxes & RA	Total Price	0% operation area	Total of Rates 6 to 11	Add.0% for charges	Total of rates 6 to 14	Amount
32	Providing and fixing of colour coated Zincaluminium (R) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) ( 0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with sublet square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. <small>(weight of profile 4.52)</small>	42.00	38.35/228	751.00			751.00		751.00		751.00	31542.00
33	Providing and fixing wind operated tarbo SS ventilator system (24 inchdia.) over existing roof including cutting of sheet proper fixing in possition to true line & leve lwith all fixture & fastening	12.00	42/457	8095.00			8095.00		8095.00		8095.00	97140.00
34	Providin & Fixing Parapet coping of size 35 by 35 cm in cement mortar 1 is to 4 with conical top and side drop and round finish at ac sheets joint including finishing the hole with 20mm thick cement plaster 1 is to 4 with cement finish	32.00	R.A.	1263.00			1263.00		1263.00		1263.00	40416.00
35	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.	164.33	21.36/152	126.00			126.00		126.00		126.00	20704.95
36	providing hard murum cohesive non swelling material in plinth in layer of 20 cm etc completed as directed only compactor thickness is payable	258.64	25/469	225.00			225.00		225.00		225.00	58194.85
37	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	1182.24	2.31/29	2.00			2.00		2.00		2.00	2364.48
38	Providing and laying stone metal layer of 20 CM thickness with 60mm oversize metal 65% and 40mm size metal 35% with sand or stone chips spreading and level in and packing completed	197.51	R.A.	876.61			876.61		876.61		876.61	173142.75

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Sl. No.	Item Description	Quantity	Item No./ Page No.	Basic Rate	Lead Charges	HS & BA	Total Rate	10% Corporation area	Total of Rates 6 to 11	Add on charges	Total of Rates 6 to 14	Amount
39	Compacting oversize and size metals layers combined with power roller not less than 8 terms including artificial watering and levelling it is completed as directed.	1182.24	MIR	30.00			30.00		30.00		30.00	35467.20
40	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary.	624.75	33.30/208	796.00			796.00		796.00		796.00	497301.00
41	Providing treatment after remix vacuum dewatering over prelid cement concrete 1 is to 2 is to 4 surface including fixing of MS channel network as per required size and place of double rod vibrating the	624.75	R.A.	51.00			51.00		51.00		51.00	31862.25
42	Providing groove cutting 50mm providing groove cutting 50 mm wire 6mm in cement concrete floor in etc complete as directed	0.00	R.A.	35.00			35.00		35.00		35.00	0.00
43	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc.	0.48	23.01/167	101844.00			101844.00		101844.00		101844.00	49227.32
44	Providing and fixing in position MS ladder of 45 CM width made of 50 by 50 by 6mm two angles for rails and Ms angle stiffness at three places as directed with MS round bars of 20mm diameter for steps at every 30cm. Centre to Centre including fixing.	8.00	R.A.	1003.91			1003.91		1003.91		1003.91	8031.28
45	Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia. of required length with M.S	1.00	44.18/282	25784.00			25784.00		25784.00		25784.00	25784.00
46	Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia. of required length with M.S	0.00	44.18/282	22189.00			22189.00		22189.00		22189.00	0.00
47	Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) Conveying material obtained from excavation including playing in layers breaking cloud dressing to the required line ka grade and section for all leads and lips from the site of excavation to the site of the position away from building as directed engine	1.00	5km lead stat.	25784.00			25784.00		25784.00		25784.00	25784.00

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Sl. No.	Item Description	Quantity	Unit	Item No./ Page No.	Basic Rate	Lead Charges	Taxes & RA	Total Rate	0% Coration area	Total of Rates 6 to 11	Add-0% for charges 14	Total of rates 6 to 14	Amount
48	Providing preconstructional antimergite 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 chlorophyrtos per square metre of surface area covering ten years guarantee on bond paper.	624.75	Sqm	21.24/150	108.00			108.00		108.00		108.00	67473.00
49	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc.	36.24	Sqm	39.68/241	3467.00			3467.00		3467.00		3467.00	125644.08
													15329113.03

  
**K.V. AMRUTWAD**  
 Regd. Consulting Engineer  
 R.No.State/R/2022/APL/00733

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Name of Work :- CONSTRUCTION OF 1/2000 M.T. CAP.WH ANCILLARY WORKS AT GUT NO.137 BARLI BK , TQ.MUKHED DIST.NANDED

MEASUREMENT SHEET

Sr. No.	Item Description	Nos		Length (M)	Breadth (M)	Height/ Dept. (M)	Quantity	Units				
		1	2									
1	Excavation for foundation in earth, soils of all types, sand gravel and soft murum, including the removing the excavate material up to a distance of 50 meter beyond the building area preparing the bed for the foundation and necessary back filling ramming watering (including shoring and strutting etc complete life up to 1.50metre)											
	Column C1	4	X	9	X	1.65	X	1.45	X	0.70	60.29	
	Column C3	4	X	2	X	1.80	X	1.80	X	0.70	18.14	
	Column C2 MIDDLE	4	X	2	X	1.65	X	1.45	X	0.70	13.40	
	Column C4 RS	2	X	7	X	0.00	X	0.00	X	0.70	0.00	
	Column Platform (CP)	8	X	2	X	1.30	X	1.30	X	0.70	18.93	
	For ground beam pannel											
	C1-C1 middle	4	X	8	X	2.80	X	0.65	X	0.70	40.77	
	C1-C3 end wall	4	X	2	X	2.63	X	0.65	X	0.70	9.57	
	C3-C2	4	X	2	X	3.75	X	0.65	X	0.70	13.65	
	C2-C2 M	2	X	2	X	3.65	X	0.65	X	0.70	6.64	
	Apron long	2	X	2	X	45.10	X	1.28	X	0.60	138.55	
	Apron Short	2	X	2	X	16.44	X	1.28	X	0.60	50.50	
	<b>Total</b>		X								<b>370.45</b>	<b>Cum</b>
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 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											
	Column C1	4	X	9	X	1.65	X	1.45	X	0.00	0.00	
	Column C3	4	X	2	X	1.80	X	1.80	X	0.00	0.00	
	Column C2 MIDDLE	4	X	2	X	1.65	X	1.45	X	0.00	0.00	
	Column C4 RS	2	X	7	X	0.00	X	0.00	X	0.00	0.00	
	Column Platform (CP)	8	X	2	X	1.30	X	1.30	X	0.00	0.00	
	For ground beam pannel											
	C1-C1 middle	4	X	8	X	2.80	X	0.65	X	0.00	0.00	
	C1-C3 end wall	4	X	2	X	2.63	X	0.65	X	0.00	0.00	
	C3-C2	4	X	2	X	3.75	X	0.65	X	0.00	0.00	
	C2-C2 M	2	X	2	X	3.65	X	0.65	X	0.00	0.00	
	Apron long	2	X	2	X	45.10	X	1.28	X	0.00	0.00	
	Apron Short	2	X	2	X	16.44	X	1.28	X	0.00	0.00	
	<b>Total</b>		X								<b>0.00</b>	<b>Cum</b>
3	Excavation for foundation in hard murum including removing the excavated material upto 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 upto 1.50 m) By Mechanical Means											
	Column C1	4	X	9	X	1.65	X	1.45	X	0.80	68.90	
	Column C3	4	X	2	X	1.80	X	1.80	X	0.80	20.74	
	Column C2 MIDDLE	4	X	2	X	1.65	X	1.45	X	0.80	15.31	
	Column C4 RS	2	X	7	X	0.00	X	0.00	X	0.80	0.00	
	Column Platform (CP)	8	X	2	X	1.30	X	1.30	X	0.80	21.63	
	For ground beam pannel											
	C1-C1 middle	4	X	8	X	2.80	X	0.65	X	0.00	0.00	
	C1-C3 end wall	4	X	2	X	2.63	X	0.65	X	0.00	0.00	
	C3-C2	4	X	2	X	3.75	X	0.65	X	0.00	0.00	
	C2-C2 M	2	X	2	X	3.65	X	0.65	X	0.00	0.00	
	Apron long	2	X	2	X	45.10	X	1.28	X	0.00	0.00	
	Apron Short	2	X	2	X	16.44	X	1.28	X	0.00	0.00	
	<b>Total</b>		X								<b>126.58</b>	<b>Cum</b>
4	Excavation for foundation in Hard 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 1.5 to 3.0m.) By Mechanical Means											
	Column C1	4	X	9	X	1.65	X	1.45	X	0.00	0.00	
	Column C3	4	X	2	X	1.80	X	1.80	X	0.00	0.00	
	Column C2 MIDDLE	4	X	2	X	1.65	X	1.45	X	0.00	0.00	
	Column C4 RS	2	X	7	X	0.00	X	0.00	X	0.00	0.00	
	Column Platform (CP)	8	X	2	X	1.30	X	1.30	X	0.00	0.00	

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Sr. No.	Item Description	Nos			Length (M)	Breadth (M)	Height/Dept. (M)	Quantity	Units
	For ground beam pannel								
	C1-C1 middle	4	X	8	X	2.80	X	0.65	0.00
	C1-C3 end wall	4	X	2	X	2.63	X	0.65	0.00
	C3-C2	4	X	2	X	3.75	X	0.65	0.00
	C2-C2 M	2	X	2	X	3.65	X	0.65	0.00
	Apron long	2	X	2	X	45.10	X	1.28	0.00
	Apron Short	2	X	2	X	16.44	X	1.28	0.00
	<b>Total</b>								<b>0.00 Cum</b>
5	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 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 upto 1.5m.) By Mechanical Means								
	Column C1	4	X	9	X	1.65	X	1.45	43.07
	Column C3	4	X	2	X	1.80	X	1.80	12.96
	Column C2 MIDDLE	4	X	2	X	1.65	X	1.45	9.57
	Column C4 RS	2	X	7	X	0.00	X	0.00	0.00
	Column Platform (CP)	8	X	2	X	1.30	X	1.30	13.52
	For ground beam pannel								
	C1-C1 middle	4	X	8	X	2.80	X	0.65	0.00
	C1-C3 end wall	4	X	2	X	2.63	X	0.65	0.00
	C3-C2	4	X	2	X	3.75	X	0.65	0.00
	C2 M	2	X	2	X	3.65	X	0.65	0.00
	Apron long	2	X	2	X	45.10	X	1.28	0.00
	Apron Short	2	X	2	X	16.44	X	1.28	0.00
	<b>Total</b>								<b>79.12 Cum</b>
6	Excavation for foundation in Hard murum and boulders including removing the excavated material upto a distance of 50 metres, beyond the building area 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 1.5 m to 3.0 m.) By Mechanical Means								
	Column C1	4	X	9	X	1.65	X	1.45	0.00
	Column C3	4	X	2	X	1.80	X	1.80	0.00
	Column C2 MIDDLE	4	X	2	X	1.65	X	1.45	0.00
	Column C4 RS	2	X	7	X	0.00	X	0.00	0.00
	Column Platform (CP)	8	X	2	X	1.30	X	1.30	0.00
	For ground beam pannel								
	C1-C1 middle	4	X	8	X	2.80	X	0.65	0.00
	C1-C3 end wall	4	X	2	X	2.63	X	0.65	0.00
	C3-C2	4	X	2	X	3.75	X	0.65	0.00
	C2-C2 M	2	X	2	X	3.65	X	0.65	0.00
	Apron long	2	X	2	X	45.10	X	1.28	0.00
	Apron Short	2	X	2	X	16.44	X	1.28	0.00
	<b>Total</b>								<b>0.00 Cum</b>
7	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.								
	For WH buildg	1	X	1	X	41.65	X	15.00	93.71
	<b>Total qty.</b>								<b>93.71 Cum</b>
8	Excavation for roadway in hard murum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.								
	For WH buildg	1	X	1	X	41.65	X	15.00	187.43
	<b>Total qty.</b>								<b>187.43 Cum</b>
9	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or 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 VSI Grade finely washed etc)(Item No.25.70 BDF 8 Page.No.236)								
	BED CONCRETE IN WH	1	X	1	X	41.65	X	15.00	46.86
	Column C1	4	X	9	X	1.65	X	1.45	6.46
	Column C3	4	X	2	X	1.80	X	1.80	1.94
	Column C2 MIDDLE	4	X	2	X	1.65	X	1.45	1.44
	Column C4 RS	2	X	7	X	0.00	X	0.00	0.00
	Column Platform (CP)	8	X	2	X	1.30	X	1.30	2.03
	For ground beam pannel								
	C1-C1 middle	4	X	8	X	4.20	X	0.65	6.55
	C1-C3 end wall	4	X	2	X	4.03	X	0.65	1.57
	C3-C2	4	X	2	X	5.15	X	0.65	2.01

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Sr. No.	Item Description	Nos			Length (M)	Breadth (M)	Height/Dept. (M)	Quantity	Units			
	C2-C2 M	2	X	2	X	5.05	X	0.65	X	0.075	0.98	
	Apron long	2	X	2	X	45.10	X	1.28	X	0.075	17.32	
	Apron Short	2	X	2	X	16.44	X	1.28	X	0.075	6.31	
	UCR OF RAMP TO LONG SIDE BETWEEN UCR OF RAMP	0	X	0	X	7.50	X	0.65	X	0.100	0.00	
		0	X	1	X	5.85	X	7.50	X	0.100	0.00	
										Total qty.	93.47	Cum
10	Providing and laying Cast in situ/Ready Mix cement concrete M-20 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)(Item No.26.05 BDF 9 Page.No.239)											
	Apron long	1	X	2	X	45.10	X	0.45	X	0.350	14.21	
	Apron Short	1	X	2	X	16.44	X	0.45	X	0.350	5.18	
	UCR OF RAMP TO LONG SIDE	1	X	0	X	7.50	X	0.45	X	1.250	0.00	
										Total qty.	19.39	Cum
11	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 joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.											
	C1-C1 middle	4	X	8	X	3.90	X	0.35	X	1.000	43.68	
	C1-C3 end wall	4	X	2	X	3.73	X	0.35	X	1.000	10.44	
	C3-C2	4	X	2	X	4.85	X	0.35	X	1.000	13.58	
	C2-C2 M	2	X	2	X	4.75	X	0.35	X	1.000	6.65	
	Apron long	2	X	1	X	45.10	X	0.35	X	0.450	14.21	
	Apron Short	2	X	1	X	21.55	X	0.35	X	0.450	6.79	
	<b>Total</b>										<b>95.35</b>	<b>cum</b>
12	Providing & laying 35 cm wide single layer tarfet by applying initial coat of shalibond @ 1 kg /sqm fixing in place by wire nails for DPC at plinth as directed by engineer incharge											
	C1-C1 middle	2	X	8	X	3.90	X	0.35	X		21.84	
	C1-C3 end wall	2	X	2	X	3.73	X	0.35	X		5.22	
	C3-C2	2	X	2	X	4.85	X	0.35	X		6.79	
	C2-C2 M	1	X	2	X	4.75	X	0.35	X		3.33	
	Apron long	0	X	1	X	45.10	X	0.35	X		0.00	
	Apron Short	0	X	1	X	21.55	X	0.35	X		0.00	
	Deduction for shutter panel	0	X	0	X	0.00	X	0.00	X		0.00	
	<b>Total</b>										<b>37.18</b>	<b>Cum</b>
13	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 pardis, 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.											
	FOOTING	62.20										
	COLUMN	67.91										
	BEAMS & LINELT	74.49										
	HEATHER SHEDS & CANOPIES	3.98										
	R.C.C. slab	4.68		100	X	130.00					13000.00	
		130.00									13.00	
	<b>Total</b>										<b>13.00</b>	<b>MT</b>
14	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, 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 (Crushed sand VSI Grade)											
	Column C1	4	X	9	X	1.55	X	1.35	X	0.45	33.90	
	Column C3	4	X	2	X	1.70	X	1.70	X	0.45	10.40	
	Column C2 MIDDLE	4	X	2	X	1.55	X	1.35	X	0.45	7.53	
	Column C4 RS	2	X	7	X	0.00	X	0.00	X	0.00	0.00	
	Column Platform (CP)	8	X	2	X	1.20	X	1.20	X	0.45	10.37	
										Total qty.	62.20	cum
15	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, 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 (Crushed sand VSI Grade)											
	<b>Column upto plinth</b>											
	Column C1	4	X	9	X	0.30	X	0.50	X	2.35	12.69	

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Sr. No.	Item Description	Nos			Length (M)		Breadth (M)		Height/Dept. (M)	Quantity	Units
	Column C2 MIDDLE	4	X	2	X	0.30	X	0.50	X	2.35	2.82
	Column C3	4	X	2	X	0.34	X	0.50	X	2.35	3.20
	Column No.platform	8	X	2	X	0.57	X	0.30	X	2.35	6.43
	Column near RS	2	X	7	X	0.15	X	0.34	X	0.00	0.00
	<b>Column Above Plinth</b>										
	Column C1	4	X	9	X	0.30	X	0.50	X	5.15	27.81
	Column C2 MIDDLE	4	X	2	X	0.30	X	0.50	X	5.15	6.18
	Column C3	4	X	2	X	0.34	X	0.50	X	5.15	7.00
	Column No.platform	8	X	2	X	0.57	X	0.30	X	0.00	0.00
	Column near RS	2	X	7	X	0.15	X	0.34	X	2.50	1.79
	<b>Total</b>									<b>67.91</b>	<b>Cum</b>

16 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels 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 (Crushed sand VSI Grade)

**GROUND BEAM**

C1-C1 middle	4	X	8	X	3.90	X	0.35	X	0.45	19.66
C1-C3 end wall	4	X	2	X	3.73	X	0.35	X	0.45	4.70
C3-C2	4	X	2	X	4.85	X	0.35	X	0.45	6.11
2-C2 M	2	X	2	X	4.75	X	0.35	X	0.45	2.99

**PLATFORM BEAM**

PB1	2	X	4	X	3.90	X	0.35	X	0.45	4.91
PB2	2	X	4	X	3.73	X	0.30	X	0.45	4.03
PB3	2	X	4	X	1.20	X	0.30	X	0.30	0.86
OFFSET	2	X	4	X	3.90	X	0.21	X	0.15	0.98
OFFSET	4	X	4	X	1.20	X	0.21	X	0.15	0.60

**LINTELS**

OVER V1	4	X	17	X	1.50	X	0.35	X	0.10	3.57
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**DOOR BEAM**

C1-C1 middle	2	X	8	X	3.90	X	0.23	X	0.30	4.31
C1-C3 end wall	4	X	2	X	3.73	X	0.23	X	0.30	2.06
C3-C2	4	X	2	X	4.85	X	0.35	X	0.45	6.11
C2-C2 M	2	X	2	X	4.75	X	0.23	X	0.30	1.31

**EAVES BEAM**

C1-C1 middle	2	X	8	X	3.90	X	0.23	X	0.30	4.31
C1-C3 end wall	4	X	2	X	3.73	X	0.23	X	0.30	2.06
C3-C2	4	X	2	X	4.85	X	0.23	X	0.30	2.68
C2-C2 M	2	X	2	X	4.75	X	0.35	X	0.30	2.00

**AT GABLE**

2-C3 @ 1.50 MTR	2	X	2	X	4.50	X	0.23	X	0.30	1.24
C2-C2 @3.00 MTR	2	X	2	X	0.00	X	0.35	X	0.45	0.00

Total qty. 74.49 CUM

17 Providing and laying Cast in situ/Ready Mix cement concrete M-20 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 (Crushed sand VSI Grade)

V1	4	X	17	X	1.50	X	0.52	X	0.08	3.98
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Total qty. 3.98 Sqm

18 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or 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 (Crushed sand VSI Grade)

PLATFORM SLAB	2	X	4	X	3.90	X	1.20	X	0.13	4.68
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Total qty. 4.68 Sqm

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

**FOR PANEL UPTO 2.5 M**

C1-C1 middle	2	X	8	X	3.90	X	0.35	X	2.50	54.60
C1-C3 end wall	6	X	2	X	3.73	X	0.35	X	2.50	39.17

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Sr. No.	Item Description	Nos			Length (M)		Breadth (M)		Height/Dept. (M)	Quantity	Units
	C3-C2	6	X	2	X	4.85	X	0.35	X	2.50	50.93
	C2-C2 M	2	X	2	X	4.75	X	0.35	X	2.50	16.63
<b>ABOVE DB BELOW AC SHEET</b>											
	C1-C1 middle	4	X	8	X	3.90	X	0.23	X	2.50	71.76
	C1-C3 end wall	4	X	2	X	3.73	X	0.23	X	2.50	17.16
	C3-C2	4	X	2	X	4.85	X	0.23	X	2.50	22.31
	C2-C2 M	4	X	2	X	4.75	X	0.23	X	2.50	21.85
	GABLE	4	X	0.5	X	21.55	X	0.23	X	2.55	25.28
<b>Deduction for</b>										<b>TOTAL</b>	319.67
	ROLLING SHUTTER	2	X	4	X	2.10	X	0.35	X	2.50	14.70
	V1	4	X	17	X	0.60	X	0.35	X	0.60	8.57
	V2	4	X	20	X	1.00	X	0.23	X	0.60	11.04
	V3	4	X	3	X	1.30	X	0.23	X	0.45	1.61
	V2 IN GABLE	1	X	5	X	1.00	X	0.23	X	0.60	0.69
<b>BEAMS &amp; LINELT @</b>											
	V1,V2										1.79
	EAVES BEAM										9.05
	C2-C2 M										7.67
	C2 IN GABLE										3.50
	RED BLOCK BELOW V1, PURLIN ETC.										0.71
<b>TOTAL</b>										59.33	<b>CUM</b>
<b>GRAND TOTAL</b>										260.34	Sqm

Qty. as per I. No.14

Providing and laying Cast in situ/Ready Mix cement concrete M-15 of trap/granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as directed including steel centering, plywood/ steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) With fine aggregate (Crushed sand VSI Grade)

BELOW V1	4	X	17	X	0.60	X	0.35	X	0.09	1.29	Sqm
<b>TOTAL</b>										1.29	

- 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 1Kilogramper 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.

**OUTSIDE**

LONG WALL	2	X	2	X	42.00	X	6.10	X		1024.80	
SHORT WALL	2	X	2	X	21.55	X	6.10	X		525.82	
GABLE WALL	1	X	4	X	7.85	X	2.25	X		70.65	
COLUMN OFFSET C1	4	X	9	X	0.22	X	6.10	X		48.31	
C3 OFFSET	4	X	2	X	0.22	X	6.1	X		10.74	
C2 OFFSET	4	X	2	X	0.22	X	6.10	X		10.74	
V2 IN GABLE	2	X	2	X	0.22	X	1.50	X		1.32	
C2 IN GABLE	1	X	2	X	0.22	X	3.00	X		1.32	
V1 TOP, BOTTOM	0.5	X	17	X	1.55	X	0.67	X		8.83	
<b>TOTAL</b>										1702.52	
<b>Deduction for</b>											
ROLLING SHUTTER	1	X	4	X	2.10	X	2.55	X		21.42	
V1	0.5	X	17	X	0.60	X	0.60	X		3.06	
V2	0.5	X	20	X	1.00	X	0.60	X		6.00	
V3	0.5	X	2	X	1.30	X	0.45	X		0.59	
<b>TOTAL</b>										31.07	
<b>GRAND TOTAL</b>										1671.46	<b>CUM</b>

Qty. as per I. No.14

- 22 Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.

**INSIDE**

LONG WALL	2	X	2	X	42.00	X	5.15	X		865.20
SHORT WALL	2	X	2	X	21.55	X	5.15	X		443.93
GABLE WALL	1	X	4	X	7.85	X	2.25	X		70.65
<b>TOTAL</b>										1379.78
<b>Deduction for</b>										
ROLLING SHUTTER	1	X	4	X	2.10	X	2.55	X		21.42
V1	0.5	X	17	X	0.60	X	0.60	X		3.06
V2	0.5	X	20	X	1.00	X	0.60	X		6.00
V3	0.5	X	3	X	1.30	X	0.23	X		0.45

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Sr. No.	Item Description	Nos			Length (M)	Breadth (M)	Height/Dept. (M)	Quantity	Units	
								<b>TOTAL</b>	<b>30.93</b>	<b>CUM</b>
								<b>GRAND TOTAL</b>	<b>1348.85</b>	<b>Sqm</b>
23	Providing internal cement plaster 20mm thick in positions including scaffolding and curing etc. complete.									
	<b>PLINTH</b>									
	LONG WALL	1	X	2	X	42.00	X	1.00	X	84.00
	SHORT WALL	1	X	2	X	21.55	X	1.00	X	43.10
	PALTFORM TAPER SIDE	1	X	4	X	3.90	X	0.30	X	4.68
	BOTTOM	1	X	4	X	3.90	X	0.80	X	12.48
	APRON UCR LONG	1	X	2	X	45.10	X	0.70	X	63.14
	SHORT	1	X	2	X	21.55	X	0.70	X	30.18
	APRON BBM LONG	1	X	2	X	45.10	X	1.80	X	162.36
	SHORT	1	X	2	X	21.55	X	1.80	X	77.59
								Total qty.	<b>477.53</b>	<b>Sqm</b>
24	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.									
	<b>WHEATHER SHEDS OVER</b>									
	V1 TOP, BOTTOM	2	X	17	X	1.55	X	0.65	X	34.26
	DES	1	X	17	X	0.45	X	0.075	X	0.57
	V2 TOP, BOTTOM	2	X	20	X	1.10	X	0.67	X	29.48
	DES	1	X	20	X	0.45	X	0.075	X	0.68
		1								64.98
								Total qty.	<b>64.98</b>	<b>Sqm</b>
25	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.									
	<b>INSIDE</b>									
	LONG WALL	1	X	2	X	41.65	X	5.15	X	429.00
	SHORT WALL	1	X	2	X	15.00	X	5.150	X	154.50
	GABLE	0.5	X	4	X	7.50	X	2.55	X	38.25
								Total qty.	<b>621.75</b>	<b>Sqm</b>
	<b>DEDUCTON</b>									
	ROLLING SHUTTER	1	X	4	X	2.10	X	2.55	X	21.42
	V1	1	X	17	X	1.00	X	0.60	X	10.20
	V2	1	X	20	X	1.00	X	0.60	X	12.00
										43.62
								<b>GRAND TOTAL</b>	<b>578.13</b>	
26	Providing and applying two coats of exterior acraylic emulsion paint conforming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete.									
	<b>OUTSIDE</b>									
	LONG WALL	1	X	2	X	42.00	X	5.25	X	441.00
	SHORT WALL	1	X	2	X	21.55	X	5.250	X	226.28
	GABLE WALL	4	X	0.5	X	7.50	X	2.55	X	38.25
	COLUMN OFFSET C1	2	X	9	X	0.22	X	6.10	X	24.16
	C3 OFFSET	2	X	2	X	0.22	X	6.100	X	5.37
	C2 OFFSET	2	X	2	X	0.22	X	6.10	X	5.37
								Total qty.	<b>740.42</b>	<b>Sqm</b>
	<b>DEDUCTON</b>									
	ROLLING SHUTTER	1	X	4	X	2.10	X	2.55	X	21.42
	V1	0.5	X	17	X	0.60	X	0.60	X	3.06
	V2	0.5	X	20	X	1.00	X	0.60	X	6.00
										30.48
								<b>GRAND TOTAL</b>	<b>709.94</b>	
27	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat)									
	<b>PLINTH</b>									
	LONG WALL	1	X	2	X	42.00	X	0.90	X	75.60

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Sr. No.	Item Description	Nos	Length (M)	Breadth (M)	Height (M)	Quantity	Units	
28	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)	1	21.55	X	0.900	X	38.79	
	SHORT WALL							
	STACKLINE							
	LONG	2	6.00	X	0.05	X	4.80	
	SHORT	2	12.60	X	0.050	X	10.08	
	Total qty.						129.27 Sqm	
29	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)	1	2.10	X	2.55	X	21.42	
	ROLLING SHUTTERS							
	Total qty.						21.42 Sqm	
30	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.	42	21.55	X	36.290	X	32846.08	
	MAIN BLDG							
	Total qty.						32846.08 KG	
	31	Providing and fixing colour coated Zincalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPA yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 180-250 mm center-to-center. The end rib shall be designed for anti-capillary groove, and return leg. The feed material should have coil manufacturers product details marked a regular interval, including fasteners with min. 25 um Zinc-Tin alloy coated. Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/Square Metre)	1	42.00	X	8.100	X	680.40
	MAIN BLDG							
	PLATFORM	1	8	X	4.91	X	78.56	
	Total qty.						758.96 SQ	
32	Providing and fixing of colour coated Zincaluminium (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPA yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the surface. Profile sheet shall have nom. 180-250 mm center-to-center. The end rib shall be designed for anti-capillary groove, and return leg. The feed material should have coil manufacturers product details marked a regular interval, including fasteners with min. 25 um Zinc-Tin alloy coated. Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/Square Metre) 600 mm girth (Surface Width).	1	42.00	X	1.000	X	42.00	
	MAIN BLDG							
	Total qty.						42.00 RGM	
33	Providing and fixing wind operated tarbo SS ventilator system (24 inchdia.) over existing roof including cutting of sheet proper fixing in position to true line & level with all fixture & fastening	2	1.00	X	1.000	X	12.00	
	FOR WH BLDG							
	Total qty.						12.00 NO	
34	Providing & Fixing Parapet coping of size 35 by 35 cm in cement mortar 1 is to 4 with conical top and side drop and round finish at ac sheets joint including finishing the hole with 20mm thick cement plaster 1 is to 4 with cement finish	2	8.00	X		X	32.00	
	PARAPET COPING							
	Total qty.						32.00 RMT	
35	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.	1	41.65	X	21.000	X	262.40	
	QTY RECEIVED FROM EXCAVATION							
	Total qty.						262.40	

Sr. No.	Item Description	Nos	Length (M)	Breadth (M)	Height/Dept. (M)	Quantity	Units
						262.40	
ITEM NO.03		126.58	X 5.93	X	X	58.07	58.07
ITEM NO.04		79.12	X 43.67	X	X	3.67	40.00
						98.07	
						Total qty.	164.33 CUM
36	providing hard murum cohesive non swelling material in plinth in layer of 20 cm etc completed as directed only compactor thickness is payable						
	MAIN BIULDG	1	X 1	X 41.05	X 14.400	X 0.40	236.45
	APRON LONG	1	X 2	X 45.10	X 0.370	X 0.45	15.02
	SHORT	1	X 2	X 21.55	X 0.370	X 0.45	7.18
						Total qty.	258.64 CUM
37	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.						
	MAIN BIULDG	1	X 2	X 41.05	X 14.400	X	1182.24
						Total qty.	1182.24 SQ
38	Providing and laying stone metal layer of 20 CM thickness with 60mm oversize metal 65% and 40mm size metal 35% with sand or stone chips spreading and level in and packing completed						
	MAIN BIULDG	1	X 1	X 41.05	X 14.400	X 0.30	177.34
	MAIN BIULDG INNER PERIFERI	1	X 1	X 41.65	X 0.600	X 0.60	14.99
		1	X 1	X 14.40	X 0.600	X 0.60	5.18
						Total qty.	197.51 CUM
39	Compacting oversize and size metals layers Combinedly with power roller not less than 8 terms including artificial watering and levelling it is completed as directed						
	MAIN BIULDG	1	X 2	X 41.05	X 14.400	X	1182.24
						Total qty.	1182.24 SQM
40	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.						
	MAIN BIULDG	1	X 1	X 41.65	X 15.000	X 1.00	624.75
						Total qty.	624.75 SQM
41	Providing treatment after remix vacuum dewatering over prelid cement concrete 1 is to 2 is to 4 surface including fixing of MS channel network as per required size and place of double rod vibrating the concrete by needle vibrator and levelling by						
	MAIN BIULDG	1	X 1	X 41.65	X 15.000	X	624.75
						Total qty.	624.75 SQM
42	Providing groove cutting 50mm providing groove cutting 50 mm wire 6mm in cement concrete floor in etc complete as directed						
	MAIN BIULDG	0	X 3	X 41.65	X	X	0.00
		0	X 10	X 15.00	X	X	0.00
						Total qty.	0.00 SQM
43	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted / welded connections without connection plates, braces etc and including one coat of anticorrosive paint and over it two coats of oil FOR PLATFORS @ 12.10KG/M						
		1	X 4	X 6.30	X 16.800	KG/M	423.36
	HOLD FAS 20MM DIA @ 2.50 KG/M	4	X 12	X 0.50	X 2.500	KG/M	60.00
	L50X50X6 MM FOR FIRE BUCKET @ 4.50 KG/M						483.36
						Total qty.	0.48 MT
44	Providing and fixing in position MS ladder of 45 CM width made of 50 by 50 by 6mm two angles for rails and Ms angle stiffness at three places as directed with MS round bars of 20mm diameter for steps at every 30cm Centre to Centre including fixing						
		1	X 1	X 8.00	X		8.00
						Total qty.	8.00 RMT
45	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embeded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip burried in specially prepared earth pits 1.5 metre below ground level with 40Kilogram charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length burried in earthe upto earthing plate remining portion above ground level for watering and refilling compete Note- Copper strip from lightning conductor is not considered in this item.						
	FOR MAIN BLDG	1	X 1	X 1.00	X		1.00
						Total qty.	1.00 NOS

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P & F-SHABAD FOR SILL & DADO	SAND	0.024	422.39	10.14	
P & C HALF BRICK WALL	SAND	0.036	422.39	10.14	
120 BRICK PER CUM	BRICKS	1.00	1183.40	15.21	
			1183.40	1183.40	
				1198.61	



**K.V. AMRUTWAD**  
Regd. Consulting Engineer  
R.No.State/R/2022/APL/00733

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Name of Work :- CONSTRUCTION OF 1/1500 M.T. CAP.WH ANCILLARY WORKS AT GUT NO.137 BARLI BK ,  
TQ.MUKHED DIST.NANDED

### QUARRY CHART



	100 KM
	90 KM
	80 KM
	70 KM
	60 KM
	50 KM
	40 KM
	30 KM
	25 KM
	20 KM
	15 KM
	10 KM

#### CERTIFICATE

Certificated that I have visited the quarry sites & distance shown as lead is corrects & sufficient quantity will be available from quarry.

**K.V. AMRUTWAD**  
Regd. Consulting Engineer  
R.No.State/R/2022/APL/00733