

AJRA AGRO PRODUCER CO. LTD. AJARA
GAT NO.135,AJARA,TAL-AJARA, DIST-KOLHAPUR.

GENERAL REPORT

NAME OF WORK - PROPOSED CONSTRUCTION OF 360 MT CAP.WARE BLDG WITH ANGLUXARY
WORKS AT GAT NO.135,AJARA,DIST-KOLHAPUR.

The Estimate has been Prepared for constructing Ware House
Bldg. of 360 MT.Cap.of amounting Rs. 3999000

As per below, Following are the Provisions being made while preparing
estimate. And Estimate item rates is considered as per PWD current e-SSR for year 2021
22.

- 1 Excavation
- 2 Footing ,Coloumns, Beams of RCC-M20
- 3 BBM For Foundation And Super Structure.
- 4 TMT FE-500 Bar For RCC Work
- 5 OutSide& Inside Plaster Work.
- 6 RCC Tremix Flooring Work
- 7 Steel Rolling Shutter
- 8 Steel Grill Windows (V1 & V2)
- 9 Painting / Colouring Work For Inside & Outer Side
- 10 Structrural Steel Work For Roofing Truss
- 11 Turbo Ventilatar.
- 12 colour coated Zinalume (R) AZ150 Sheet For Roofing -



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FEDERATION SHEET
FINAL

NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP.WH BLDG WITH ANCILLARY WORKS AT
GAT NO.135,AJARA,DIST- KOLHAPUR.

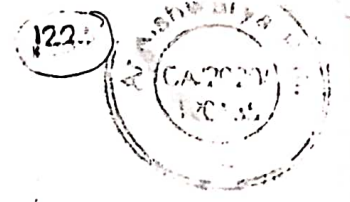
Based on E SSR -2021-22

PARTICULARS			AMOUNT	360	
	Cap.	Unit		Cost per MT	Cost per MT
Sub Work I:- Const. of 360 MT WH Bldg.	360	MT	Rs 3470868	9641	Cost per MT
Sub Work II :- Electrification		1.2%	Rs 34709		
Sub Work III :- Royalty Charges			Rs 40884		
Sub work IV:- Material Lab Testing charges			Rs 8280		
TOTAL COST			3554741	9874	Cost per MT
Add GST	12%		Rs 426569		
Add LL	0.5%		Rs 17774		
Grand Total			Rs <u>3999084</u>	11109	Cost per MT

Say 3999090



AJRA AGRO PRODUCER CO. LTD. AJARA
GAT NO.195,AJARA,TAL-AJARA, DIST- KOLHAPUR.



ABSTRACT SHEET

NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP.WH BLDG WITH
ANCILLARY WORKS AT GAT NO.195,AJARA,DIST- KOLHAPUR.

Sl.No	Item No	Description of Item	Qty	Unit	Rate	Amount
		SUB WORK-I CIVIL WORK (WH BLDG.)				
1.0	21.02/115	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	34.76	Cum	193.00	6,708.00
0	21.04/115	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	1.00	Cum	241.00	241.00
0	21.06/148	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	19.53	Cum	212.00	4,141.00
0	21.08/115	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.)	1.00	Cum	265.00	265.00

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Sr .No	Item No	Description of Item	Qty	Unit	Rate	Amount
5.0	21.10/ 115	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 Mean	7.81	Cum	235.00	1,836.00
6.0	21.12/ 115	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 Means	1.00	Cum	291.00	291.00
7.0	2.11/2 3	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.	1.00	Cum	104.00	104.00
8.0	2.13/2 3	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.	1.00	Cum	121.00	121.00
9.0	24.01/ 129	Providing and laying Cast in situ/Ready Mix cement 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)	17.67	Cum	5840.76	103,182.00



Sr .No	Item No	Description of Item	Qty	Unit	Rate	Amount
10.0	28.01/ 146	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	0.10	cu m	4757.00	476.00
11.0	27.01/ 144	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.	19.89	Cum	7343.00	146,046.00
12.0	R.A.	Providing & laying 35 cms wide single layer tarfelt by applying initial coat of shalibond @1kg/sqm fixing in place by wire nails for D.P.C. at plinth as directed by Engineer in charge.	1.00	Sqm	349.25	350.00
13.0	26.33/ 139	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..	4.65	MT	71778.00	334,053.00
14.0	25.11/ 133	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 out SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	11.18	Cum	6546.00	73,172.00



Sr.No	Item No	Description of Item	Qty	Unit	Rate	Amount
15.0	25.31/ 134	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed 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 Out SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	16.99	Cum	12867.00	218,656.00
16.0	25.50/ 135	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)	24.80	Cum	11363.00	281,779.00
17.0	26.05/ 137	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)	0.62	Cum	12991.00	8,107.00

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Sr .No	Item No	Description of Item	Qty	Unit	Rate	Amount
18.0	25.70/ 135	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. With fine aggregate (Crushed sand VSI Grade)	1.16	Cum	13823.00	16,024.00
19.0	27.05/ 144	Providing second class Burnt Brick masonry with conventional/I.S.type brick since cementmortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	56.52	Cum	7570.00	427,877.00
20.0	24.16/ 132	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)	0.22	Cum	5910.00	1,305.00
21.0	32.11/ 153	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.	495.79	Sqm	599.00	296,976.00

Sr.No	Item No	Description of Item	Qty	Unit	Rate	Amount
22.0	32.04/153	Providing internal cement plaster 12 mm 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.	373.07	Sqm	264.00	98,492.00
23.0	32.04/153 /32.21 /154	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.	64.56	Sqm	332.00	21,434.00
24.0	36.03/167	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.	349.59	Sqm	11.00	3,846.00
5.0	35.15/165	Providing and applying three coat s of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces includings caffolding if necessary,cleaning and preparing the surface,watering for two days etc. complete.	368.01	Sqm	97.00	35,697.00
0	35.11/164	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)	64.42	Sqm	83.00	5,347.00

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Sr .No	Item No	Description of Item	Qty	Unit	Rate	Amount
27.0	39.24/ 181	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)	10.71	Sqm	4310.00	46,161.00
28.0	40.01/ 192	Providing and fixing mildsteel grill work for windows,ventilatorsetc. 20Kilogram/Square Metre as per drawing including fixtures,necessary welding and painting with one coat s of anticorrosive paint and two coats of oil painting complete.	19.07	Sqm	1845.00	35,175.00
29.0	23.04/ 129	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.	5.34	M T	#####	565,564.00


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Item No	Description of Item	Qty	Unit	Rate	Amount
18.34/ 173	Providing and fixing colour coated Zincolume (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 centerto-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 Kilogram/Square Metre)	239.36	Sqm	1095.00	262,101.00

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Sr .No	Item No	Description of Item	Qty	Unit	Rate	Amount
31.0	38.35/ 174	<p>Providing and fixing of colour Zinalume (R) AZ150 (Min150gms/Sq.mt. total on each sides) profiled sheets for Ridges. The feed material is manufactured out of nominal 0.45mm Base Metal Thickness (BMT) (0.5mmTCT), Hi- strength steel with min 550 MP a yield strength, metallic hot dip coated with Aluminum- Zinc alloy (55% aluminiumm 43.4 % zinc 1.6 % silicon) with COLORBOND (R) steel quality super durable polyster paint coat (with inorganic pigment). The paint shall have a total coating thickness of noiminal 35 um, comprising of nominal 25 um exerior coat on top surface & nominal 10 um reverse coat on back surfaces. Profile sheet shall have nom 950-1050 mm effective cover width & nominal 25-30 mm dip ribs with suitable square fluting in the 5 pan @ nominal 180-250 mm c/c. The end rib shall be designed for anticapillary groove & return leg. The fid material should have coil manufacturers product detailes marked at regular interval. including fasteners with minimum fastened with minimun 25 um Zink- tin alloy coated, hex headed, self drilling screw etc. complete. [As directed by Engineer in charge]. (D.S.R.33 A /71) (For 0.60 m wide Ridge)</p>	25.86	Rum	702.00	18,154.00
32.0	42/37 4	<p>Providing and fixing wind oppareted tarbo S S. ventiletar system (24 inch dia.) over exsiting roof including cutting of sheet ,propar fixing in position to true line & level with all fixtures & fastning, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterfoof joints with approved water proffing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light parpose at terrace [As directed by Engineer in charge]. (Jalgaon D.S.R.304 /123)</p>	10.00	Nos	8680.00	86,800.00
33.0	R A	<p>Providing & constructing parapet coping of size 35 x 35 cms in cement mortar 1:4 with conical top and side drops and round finish at A.C. sheet joints including finishing the whole with 20 mm thick cement plaster 1:4 with cement finish, 1.</p>	17.12	RMT	1179.00	20,185.00

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Sr.No	Item No	Description of Item	Qty	Unit	Rate	Amount
34.0	21.36/117	Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting etc. complete as directed.(Bd. A.10/262)	10.00	Cum	113.00	1,130.00
35.0	RA	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only compacted thickness is payable][Rd.23/202 & Rd.28/205].	52.01	Cum	575.83	29,951.00
36.0	2.31/24	Compacting the Hard Murum, cohesive non swelling materials in plinth upto 200 mm loose with power roller 8 to 10 tonce capacity including artificial watering etc. complete as directed.[Rd.38/210]	173.37	Sqm	19.00	3,295.00
37.0	RA	Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling handpacking complete.[Rd.22/201,Rd.20/200 &Rd.20/205]	55.91	Cum	1233.89	68,985.00
38.0	MR	Compacting oversize & size metal layers combindaly with power roler not less than 8 tonnes including artificial watering & leveling etc. complete as directed (Rd.35/209)	173.37	Sqm	20.00	3,468.00
39.0	33.30/158	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 and including vaccum dewatering etc. complete.	192.86	Sqm	746.00	143,871.00
40.0	RA	Providing treatment of TREMIX vaccum dewatering over prelaid cement concrete 1:2:4 surface including fixing of M.S.Channel formwork as per required size and placing of dowel rod, vibrating the concrete by needle vibrator and leveling by	1.00	Sqm	50.00	50.00
41.0	23.01/129	Providing & fixing ISMC 150 with weight @ 16.80 Kgs/Rmt 20 mm dia & 0.50 m long bolts & nuts @ 1.00 mc/c, M.S. angles for stands of fire bucket including chain fixing in wall applying three coats of oilpaint etc. compl	0.25	MT	89181.00	22,550.00

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Sr .No	Item No	Description of Item	Qty	Unit	Rate	Amount
42.0	RA	Providing & Fixing in position M.S. ladder of 45 cms width made out 50 x 50 x 6 mm two angles for rails and M.S. angle stiffeners at three places as directed with M.S. round bars of 20 mm dia for steps @ every 30 cm c/c including fixing	0.00	RMT	805.80	-
43.0	44.18/214	Providing and fixing lioghtening conductor system comprising of erecting Air-Termination consisting of tubular copperrod of 25 mm dia.1.2 mm thick with multiple point shead 1.2mt.long (HeavyDuty)weldedor clamped to G.I .pipe pole Bgrade 50 mm dia of requiiredl ength with M.S.round bnase plate 25 Cmdiamand 10mm thick at bottom embeded in cement concrete 1:3:6 d foundation of size 45 cm diam x 45cm Height and providing earth ing with copper earth plate of size60x60x0.3cms with cadmiumpl at ed nut bolt sto fixe arthing strip burried inspecially prepared earth pits1.5metre below ground level with 40 Kilogram charcoal and salt with alternate layers of charcoal and salt and G.I.pipe 40 mm dia2meter length burried inearthe up to earthling plateremining portion above ground level forwatering and refillingc ompete Note-Copper strip fropmlightening conductor is not considered in this item.	0.00	Nos	22189.00	-
44.0	2.25/24	Conveying the materials obtained from excavation including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section for a lead over 50m to 300m from the site of excavation to the site of dep	5.00	Cum	177.00	885.00
45.0	5 KM lead stat.	Conveying the materials obtained from excavation including laying in layers, breaking clods, dressing to the required lines, curves, grades and section for all leads & lifts from the site of excavation to the site of deposition away from building as directed engineer in charge.	1.00	Cum	220.46	221.00

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Sr .No	Item No	Description of Item	Qty	Unit	Rate	Amount
46.0	21.24/ 117	Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface	195.50	sq m	94.00	18,378.00
7.0	39.68/ 188	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. complete.	18.48	sq m	3107.00	57,418.00
Total Amount-						3,470,868.00

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AJRA AGRO PRODUCER CO. LTD. AJARA
GAT NO.195,AJARA,TAL-AJARA, DIST- KOLHAPUR.
NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP.WH BLDG WITH ANCILLARY WORKS AT GAT NO.195,AJARA,DIST- KOLHAPUR.

Royalty Charges Recovery Statements

Sr. No	Particular	Requar Quantity in Cum	Requar Quantity in Brass	Royalty	Surcharge	Distt. Mineral Founda tion Cost		Royalty Charges @ Rs SAND&144.160 Oth,Min
						2%	10%	
1	SAND	48.17	2.83	211.95	4.24	21.20	237.384	237.18
2	METAL Hand broken	73.80	26.08	211.95	4.24		216.189	15954.57
3	MURUM	62.41	22.05	211.95	4.24		216.189	13493.33
4	RUBBLE	0.00	0.00	211.95	4.24		216.189	0.00
Total Amount Rs.								40883.77

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Say Rs. 40884.00



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AJRA AGRO PRODUCER CO. LTD. AJARA
GAT NO.195,AJARA,TAL-AJARA, DIST- KOLHAPUR.

NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP.WH BLDG WITH ANCILLARY WORKS
 AT GAT NO.195,AJARA,DIST- KOLHAPUR.

	360	MT	SIZE				213.60	192.86	Av.	Depth
			OUTER	INNER	1	X				
CAPACITY										
LONG WALLS--2			1	X	25.86	X	8.26			
SHORT WALLS--2			1	X	25.51	X	7.56			
FOUNDATION DEPTHS										
1 EARTH SOIL 0 TO 1.50									0.70	
2 EARTH SOIL 1.50 to 3.00									0.00	
3 H.M. (0 to 1.50)									0.50	
4 H.M. (1.50 to 3.00)									0.00	
5 H.M. & BOULDER 0 TO 1.50									0.20	
6 H.M. & BOULDER 1.50 to 3.00									0.00	
7 SOFT ROCK									0.00	
8 HARD ROCK									0.00	
							TOTAL		1.40	
Asper vision at site										
Ex. Column Footings										
Column C1	2	X	4	X	1.50	X	1.50			
Column No. C3	2	X	2	X	1.50	X	1.80			
Column No.C2 MIDDLE	2	X	1	X	1.50	X	1.50			
Column No. C4 RS	1	X	3	X	0.00	X	0.00			
Column Platform (CP)	2	X	2	X	1.20	X	1.20			
Ex. Ground Beam PANEL										
C1-C1 middle	2	X	3	X	5.13	X	0.40			
C1-C3 END WALL	2	X	2	X	5.13	X	0.40			
C3-C2	2	X	2	X	4.01	X	0.40			
C2-C2 M	0	X	0	X	0.00	X	0.40			
APRON long	1	X	1	X	28.96	X	1.28			
APRON short	1	X	1	X	9.00	X	1.28			
Column Nos. & Size										
Column C1	2	X	4	X	0.30	X	0.45	X	5.60	
Column No.C2	2	X	2	X	0.45	X	0.30	X	5.60	
Column No. C3	2	X	2	X	0.30	X	0.45	x	5.60	
Column No.Platform	2	X	2	X	0.45	X	0.30			
Column near R.S.	1	X	2	X	0.15	X	0.23	X	2.50	
PCC, Tarfelt, BBM, BEAMS PANELS										
C1-C1 middle	2	X	3	X	4.83	X	0.35			
C1-C3 END WALL	2	X	2	X	4.83	X	0.35			
C3-C2	2	X	2	X	3.71	X	0.35			
C2-C2 M	0	X	0	X	0.00	X	0.35			
PB 1	1	X	1	X	4.83	X	0.35	X	0.45	
PB2	1	X	1	X	4.83	X	0.30	X	0.45	
PB3	2	X	1	X	1.20	X	0.30	X	0.30	
Rolling shutters	2	X	1	X	2.10			X	2.55	
V1	2	X	8	X	0.60			X	0.60	
V2	2	X	13	X	1.00			X	0.60	
V3 Up Side of Shutter	1	X	0	X	1.30			X	0.45	
TK. OF C.C. FLOORING					0.10					
Plat From	1	X	2	X	5.13			X	1.80	
SheetSize	1	X	2	X	25.86			X	4.28	= 221.36
Turbo @ Roofing	2	X	5							

AJRA AGRO PRODUCER CO. LTD. AJARA
GAT NO.195,AJARA,TAL-AJARA, DIST- KOLHAPUR.

NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP.WH BLDG WITH ANCILLARY WORKS AT GAT NO.195,AJARA,DIST- KOLHAPUR.

Sub Work :- Const. of 360 MT WH Bldg.

MEASUREMENT SHEET

Item Nos & Description of Items	NO.S				LENGTH	BREDTH	DEPTH / HIGHT	TOTAL QUANTITY	Unit
	1	X	2						
1 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									Cum
Column footing									
Column C1	2	X	4	X	1.50	X	1.50	X	0.70 = 12.60
Column No. C3	2	X	2	X	1.50	X	1.80	X	0.70 = 7.56
Column No.C2 MIDDLE	2	X	1	X	1.50	X	1.50	X	0.70 = 3.15
Column No. C4 RS	1	X	3	X	0.00	X	0.00	X	0.70 = 0.00
Column Platform (CP)	2	X	2	X	1.20	X	1.20	X	0.70 = 4.03
For Ground Beam PANEL.									
C1-C1 middle	2	X	3	X	3.63	X	0.40	X	0.40 = 3.48
C1-C3 END WALL	2	X	2	X	3.63	X	0.40	X	0.40 = 2.32
C3-C2	2	X	2	X	2.51	X	0.40	X	0.40 = 1.61
C2-C2 M	0	X	0	X	0.00	X	0.40	X	0.40 = 0.00
									Total = 34.76
									say = 34.76
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									Cum
Column footing									
Column C1	2	x	4	x	1.50	X	1.50	X	0.00 = 0.00
Column No. C3	2	x	2	x	1.50	X	1.80	X	0.00 = 0.00
Column No.C2 MIDDLE	2	x	1	x	1.50	X	1.50	X	0.00 = 0.00
Column No. C4 RS	1	x	3	x	0.00	X	0.00	X	0.00 = 0.00
Column Platform (CP)	2	x	2	x	1.20	X	1.20	X	0.00 = 0.00
For Ground Beam PANEL									
C1-C1 middle	2	x	3	x	3.63	X	0.40	X	0.00 = 0.00
C1-C3 END WALL	2	x	2	x	3.63	X	0.40	X	0.00 = 0.00
C3-C2	2	x	2	x	2.51	X	0.40	X	0.00 = 0.00
C2-C2 M	0	x	0	x	0.00	X	0.40	X	0.00 = 0.00
									Total = 0.00
									say = 1.00
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, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means									Cum
Column footing									
Column C1	2	x	4	x	1.50	X	1.50	X	0.50 = 9.00
Column No. C3	2	X	2	x	1.50	X	1.80	X	0.50 = 5.40
Column No.C2 MIDDLE	2	X	1	x	1.50	X	1.50	X	0.50 = 2.25
Column No. C4 RS	1	X	3	x	0.00	X	0.00	X	0.50 = 0.00
Column Platform (CP)	2	X	2	x	1.20	X	1.20	X	0.50 = 2.88
For Ground Beam PANEL									
C1-C1 middle	2		3	x	3.63	X	0.40	X	0.00 = 0.00
C1-C3 END WALL	2	X	2	x	3.63	X	0.40	X	0.00 = 0.00
C3-C2	2	X	2	x	2.51	X	0.40	X	0.00 = 0.00
C2-C2 M	0	X	0	x	0.00	X	0.40	X	0.00 = 0.00
									Total = 19.53
									say = 19.53

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										Cum
Column footing											
Column C1	2	x	4	x	1.50	X	1.50	X	0.00	=	0.00
Column No. C3	2	X	2	x	1.50	X	1.80	X	0.00	=	0.00
Column No.C2 MIDDLE	2	X	1	x	1.50	X	1.50	X	0.00	=	0.00
Column No. C4 RS	1	X	3	x	0.00	X	0.00	X	0.00	=	0.00
Column Platform (CP)	2	X	2	x	1.20	X	1.20	X	0.00	=	0.00
For Ground Beam PANEL											
C1-C1 middle	2	0	3	x	3.63	X	0.40	X	0.00	=	0.00
C1-C3 END WALL	2	X	2	x	3.63	X	0.40	X	0.00	=	0.00
C3-C2	2	X	2	x	2.51	X	0.40	X	0.00	=	0.00
C2-C2 M	0	X	0	x	0.00	X	0.40	X	0.00	=	0.00
										Total	0.00
										say	1.00
											Cum
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 Mean										Cum
Column footing											
Column C1	2	x	4	x	1.50	X	1.50	X	0.20	=	3.60
Column No. C3	2	X	2	x	1.50	X	1.80	X	0.20	=	2.16
Column No.C2 MIDDLE	2	X	1	x	1.50	X	1.50	X	0.20	=	0.90
Column No. C4 RS	1	X	3	x	0.00	X	0.00	X	0.20	=	0.00
Column Platform (CP)	2	X	2	x	1.20	X	1.20	X	0.20	=	1.15
For Ground Beam PANEL											
C1-C1 middle	2	x	3	x	3.63	X	0.40	X	0.00	=	0.00
C1-C3 END WALL	2	X	2	x	3.63	X	0.40	X	0.00	=	0.00
C3-C2	2	X	2	x	2.51	X	0.40	X	0.00	=	0.00
C2-C2 M	0	X	0	x	0.00	X	0.40	X	0.00	=	0.00
										Total	7.81
										say	7.81
											Cum
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 Means										Cum
Column footing											
Column C1	2	x	4	x	1.50	X	1.50	X	0.00	=	0.00
Column No. C3	2	X	2	x	1.50	X	1.80	X	0.00	=	0.00
Column No.C2 MIDDLE	2	X	1	x	1.50	X	1.50	X	0.00	=	0.00
Column No. C4 RS	1	X	3	x	0.00	X	0.00	X	0.00	=	0.00
Column Platform (CP)	2	X	2	x	1.20	X	1.20	X	0.00	=	0.00
										Total	0.00
										Say	1.00
											Cum
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.										Cum
For Wh bldg.	0	X	1	X	25.51	X	7.56	X	0.15	=	0.00
										TOTAL	0.00
										SAY	1.00
											Cum
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
For Wh bldg.	0	X	1	X	25.51	X	7.56	X	0.30	=	0.00
										TOTAL	0.00
										SAY	1.00
											Cum

9	Providing and laying Cast in situ/Ready Mix cement 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)											Cum	
	Bed concrete in WH.	1	X	1	X	25.51	X	7.56	X	0.08	=	14.46	
	Column footing												
	Column C1	2	x	4	x	1.30	X	1.30	X	0.08	=	1.01	
	Column No. C3	2	X	2	x	1.30	X	1.60	X	0.08	=	0.62	
	Column No. C2 MIDDLE	2	X	1	x	1.30	X	1.30	X	0.08	=	0.25	
	Column No. C4 RS	1	X	3	x	0.00	X	0.00	X	0.08	=	0.00	
	Column Platform (CP)	2	X	2	x	1.00	X	1.00	X	0.08	=	0.30	
	For Ground Beam PANEL											2.19	
	C1-C1 middle	2	x	3	x	5.13	X	0.20	X	0.08	=	0.46	
	C1-C3 END WALL	2	X	2	x	5.13	X	0.20	X	0.08	=	0.31	
	C3-C2	2	X	2	x	4.01	X	0.20	X	0.08	=	0.24	
	C2-C2 M	0	X	0	x	0.00	X	0.20	X	0.08	=	0.00	
										Total	=	17.67	
										say	=	17.67	Cum
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											Cum	
	APRON long	0	X	2	X	28.96	X	0.45	X	0.35	=	0.00	
	APRON short	0	X	1	X	9.00	X	0.45	X	0.35	=	0.00	
	U.C.R. of ramp	0	X	2	X	7.50	X	0.45	X	1.25	=	0.00	
										Total	=	0.00	
	Provision									say	=	0.10	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.											Cum	
	For PANEL In Plinth												
	C1-C1 middle	2	X	3	X	4.83	X	0.35	X	0.90	=	9.13	
	C1-C3 END WALL	2	X	2	X	4.83	X	0.35	X	0.90	=	6.09	
	C3-C2	2	X	2	X	3.71	X	0.35	X	0.90	=	4.67	
	C2-C2 M	0	X	0	X	0.00	X	0.35	X	0.90	=	0.00	
										Total	=	19.89	
										say	=	19.89	Cum
12	Providing & laying 35 cms wide single layer tarfelt by applying initial coat of shalibond @1kg/sqm fixing in place by wire nails for D.P.C. at plinth as directed by Engineer in charge.											Sqm	
	For PANEL In Plinth												
	C1-C1 middle	2	X	3	X	4.83	X	0.35	X		=	10.14	
	C1-C3 END WALL	2	X	2	X	4.83	X	0.35	X		=	6.76	
	C3-C2	2	X	2	X	3.71	X	0.35	X		=	5.19	
	C2-C2 M	0	X	0	X	0.00	X	0.35	X		=	0.00	
										Total	=	1.00	
										say	=	1.00	Sqm
13	TMT Steel 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..											MT	
	Footing	11.18											
	Column	16.99			4653.97							4.65	
	Beams And Lintels	24.80								Total		4.65	
	weathersheds & canopies	0.62								say		4.65	MT
	R.C.C.slab	1.16											
	Footing	54.75	x	85									

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 out SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Column footing	2	X	4	x	1.20	X	1.20	X	0.45	=	5.18	
Column C1	2	X	2	x	1.20	X	1.50	X	0.45	=	3.24	
Column No. C3	2	X	1	X	1.20	X	1.20	X	0.45	=	1.30	
Column No.C2 MIDDLE	1	X	3	x	0.00	x	0.00	X	0.00	=	0.00	
Column No. C4 RS	2	X	2	x	0.90	X	0.90	X	0.45	=	1.46	
Column Platform (CP)												
									Total		11.18	
									say		11.18	Cum

15 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed 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 Out SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Column up to plinth												
Column C1	2	X	4	x	0.30	X	0.45	X	1.75	=	1.89	
Column No.C2	2	X	2	x	0.45	X	0.30	X	1.75	=	0.95	
Column No. C3	2	X	2	X	0.30	X	0.45	X	1.75	=	0.95	
Column No.Platform	2	X	2	x	0.45	X	0.30	X	1.75	=	0.95	
Column near R.S.	1	X	2	x	0.15	X	0.23	X	0.00	=	0.00	4.73
Column above plinth												
Column C1	2	X	4	x	0.30	X	0.45	X	5.60	=	6.05	
Column No.C2	2	X	2	x	0.45	X	0.30	X	5.60	=	3.02	
Column No. C3	2	X	2	X	0.30	X	0.45	X	5.60	=	3.02	
Column No.Platform	2	X	2	x	0.45	X	0.30	X	0.00	=	0.00	
Column near R.S.	1	X	2	x	0.15	X	0.23	X	2.50	=	0.17	
									Total		16.99	
									say		16.99	Cum

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	2	X	3	X	4.83	X	0.35	X	0.60	=	6.09	
C1-C3 END WALL	2	X	2	X	4.83	X	0.35	X	0.60	=	4.06	
C3-C2	2	X	2	X	3.71	X	0.35	X	0.60	=	3.12	
C2-C2 M	0	X	0	X	0.00	X	0.35	X	0.60	=	0.00	
Platform beam												
PB 1	1	X	1	X	4.53	X	0.30	X	0.45	=	0.61	
PB2	1	X	1	X	4.53	X	0.30	X	0.45	=	0.61	
PB3	2	X	1	X	1.20	X	0.30	X	0.30	=	0.22	
OFFSET	1	X	1	X	4.53	X	0.21	X	0.15	=	0.14	
OFFSET	2	X	1	X	1.20	X	0.21	X	0.15	=	0.07	
LINTELS												
OVER V1	2	X	8	X	1.50	X	0.23	X	0.10	=	0.55	
DOOR BEAM												
C1-C1 middle	2	X	3	X	4.83	X	0.23	X	0.30	=	2.00	
C1-C3 END WALL	2	X	2	X	4.83	X	0.23	X	0.30	=	1.33	
C3-C2	2	X	2	X	3.71	X	0.23	X	0.30	=	1.02	

	C2-C2 M	0	X	0	X	0.00	X	0.23	X	0.30	=	0.00	
	EAVES BEAM	2	X	3	X	4.83	X	0.23	X	0.30	=	2.00	4.36
	C1-C1 middle	2	X	2	X	4.83	X	0.23	X	0.30	=	1.33	
	C1-C3 END WALL	2	X	2	X	3.71	X	0.23	X	0.30	=	1.02	
	C3-C2	0	X	0	X	0.00	X	0.35	X	0.30	=	0.00	
	C2-C2 M												4.36
	AT GABLE	1	X	2	X	4.50	X	0.23	X	0.30	=	0.62	
	C2-C3 @ 1.50 MTR	1	X	2	X	0.00	X	0.35	X	0.45	=	0.00	
	C2-C2 @3.00 MTR												
										Total		24.80	
										say		24.80	Cum
	weathersheds & canopies												
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)												Cum
	Ventilators - V1 Long side	1	X	8	X	1.50	x	0.52	x	0.10	=	0.62	
										Total		0.62	
										say		0.62	Cum
	R.C.C.slab												
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. With fine aggregate (Crushed sand VSI Grade)												
	PLATFORM SLAB	1	X	2	X	4.83	X	1.20	X	0.10	=	1.16	
										Total		1.16	
										say		1.16	Cum
	BBM												
19	Providing second class Burnt Brick masonry with conventional/I.S.type brick since mentmortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete												Cum
	For PANEL UP TO 2.50												
	C1-C1 middle	2	X	3	X	4.83	X	0.23	X	2.50	=	16.66	
	C1-C3 END WALL	2	X	2	X	4.83	X	0.23	X	2.50	=	11.11	
	C3-C2	2	X	2	X	3.71	X	0.23	X	2.50	=	8.53	
	C2-C2 M	0	X	0	X	0.00	X	0.23	X	2.50	=	0.00	
	Above DB to Below AC Sheet												
	C1-C1 middle	2	X	3	X	4.83	X	0.23	X	2.50	=	16.66	
	C1-C3 END WALL	2	X	2	X	4.83	X	0.23	X	2.50	=	11.11	
	C3-C2	2	X	2	X	3.71	X	0.23	X	2.50	=	8.53	
	C2-C2 M	0	X	0	X	0.00	X	0.23	X	2.50	=	0.00	
	Gable	2	X	0.5	X	8.26	X	0.23	X	2.55	=	4.84	
	Deduction for									Total		77.46	
	Rolling shutters	2	X	1	X	2.10	X	0.23	X	2.50	=	2.42	
	V1	2	X	8	X	0.60	X	0.35	X	0.60	=	2.02	
	V2	2	X	13	X	1.00	X	0.23	X	0.60	=	3.59	
	V3	1	x	3	X	1.30	X	0.23	X	0.45	=	0.40	
	V2 in gable	0	X	5	X	1.00	X	0.23	X	0.60	=	0.00	
	Beams & Lintels at V1, V2												0.55
	Door beam												4.36
	Eaves beam												4.36
	C2 in gable												3.02
	Bed block below V1 ,purlin etc												0.22
										Total deduction		20.93	
										Net		56.52	
										say		56.52	Cum
	Bed block below V1 ,purlin etc												

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 Grade)

Below V1	2	X	8	X	0.60	X	0.23	X	0.10	=	0.22	
									Total		0.22	
									say		0.22	Cum

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	1	X	2	X	25.86	X	6.50			=	336.18	
short wall	1	X	2	X	8.26	X	6.50			=	107.38	
Gable wall	1	X	2	X	8.26	X	0.95			=	15.69	
Column offset C1	2	X	4	X	0.22	X	6.50			=	11.44	
C3 offset	2	X	2	X	0.22	X	6.50			=	5.72	
C2 offset	2	X	2	X	0.22	X	6.50			=	5.72	
C2 in gable	1	X	2	X	0.22	X	1.50			=	0.66	
C2 in gable	0	X	2	X	0.22	X	3.00			=	0.00	
Weather sheds over												
V1 top, bottom	2	X	8	X	1.55	X	0.65			=	16.12	
Sides	1	X	8	X	0.45	X	0.08			=	0.27	
V 2 top, bottom	2	X	13	X	1.10	X	0.67			=	19.16	
Sides	1	X	13	X	0.45	X	0.08			=	0.44	
									Total		518.35	
Deduction												
Rolling shutters	2	X	1	X	2.10	X	2.55			=	10.71	
V1	1	X	8	X	0.60	X	0.60			=	2.88	
V2	1	X	13	X	1.00	X	0.60			=	7.80	
V3	1	x	2	X	1.30	X	0.45			=	1.17	
									Total		22.56	
									Net		495.79	
									say		495.79	Sqm

22 Providing internal cement plaster 12 mm 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	1	X	2	X	25.86	X	5.60			=	289.63	
short wall	1	X	2	X	8.26	X	5.60			=	92.51	
Gable wall	1	X	2	X	8.26	X	0.80			=	13.22	
									Total		395.36	
Deduction												
Rolling shutters	2	X	1	X	2.10	X	2.55			=	10.71	
V1	1	X	8	X	0.60	X	0.60			=	2.88	
V2	1	X	13	X	1.00	X	0.60			=	7.80	
V3	1	x	3	X	1.30	X	0.23	X		=	0.90	
									Dedu.		22.29	
									Net		373.07	
									say		373.07	Sqm

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.

Plinth												
Long wall	1	X	2	X	25.86	X	0.80			=	41.38	
Short wall	1	X	2	X	8.26	X	0.80			=	13.22	
Platforms Taper side	1	X	2	X	4.53	X	0.30			=	2.72	
Bottom	1	X	2	X	4.53	X	0.80			=	7.25	
									Total		64.56	
									say		64.56	Sqm

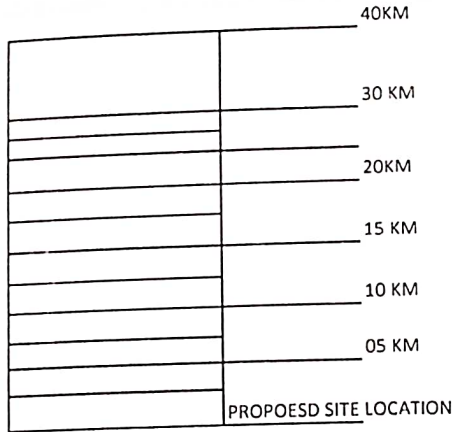
24	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.											Sqm
	Inside	1	X	2	X	25.51	X	5.60			=	285.71
	Long wall	1	X	2	X	7.56	X	5.60			=	84.67
	Short wall	1	X	2	X	7.56	X	1.00			=	15.12
	Gable								Total		=	385.50
	Dedu.	2	X	1	X	2.10	X	2.55			=	10.71
	Rolling shutters	2	X	8	X	1.00	X	0.60			=	9.60
	V1	2	X	13	X	1.00	X	0.60			=	15.60
	V2								Total		=	35.91
									Net		=	349.59
									Say		=	349.59
												Sqm
25	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.											Sqm
	Outside	1	X	2	X	25.86	X	5.25			=	271.53
	Long wall	1	X	2	X	8.26	X	5.25			=	86.73
	short wall	2	X	0.5	X	8.26	X	1.00			=	8.26
	Gable wall	2	X	4	X	0.22	X	6.50			=	11.44
	Column offset C1	2	X	2	X	0.22	X	6.50			=	5.72
	C3 offset	2	X	2	X	0.22	X	6.50			=	5.72
	C2 offset								Total		=	389.40
	Deduction	2	X	1	X	2.10	X	2.55			=	10.71
	Rolling shutters	1	X	8	X	0.60	X	0.60			=	2.88
	V1	1	X	13	X	1.00	X	0.60			=	7.80
	V2								Dedu.		=	21.39
									Net		=	368.01
									Say		=	368.01
												Sqm
26	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)											Sqm
	Plinth	1	X	2	X	25.86	X	0.90			=	46.55
	Long wall	1	X	2	X	8.26	X	0.90			=	14.87
	Short wall											
	Stack lines	1	X	2	X	6.00	X	0.10			=	1.20
	Long	1	X	2	X	9.00	X	0.10			=	1.80
	Short								Total		=	64.42
									Say		=	64.42
												Sqm
27	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)											Sqm
	Rolling shutters	2	X	1	X	2.10	X	2.55	x	1.00		10.71
									Total		=	10.71
									Say		=	10.71
												Sqm
28	Providing and fixing mildsteel grill work for windows, ventilator etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.											Sqm
	V1	1	X	8	X	0.60	X	0.60			=	2.88
	V2	2	X	13	X	1.00	X	0.60			=	15.60
	V3 Up Side of Shutter	1	X	1	X	1.30	X	0.45			=	0.59
									Total		=	19.07
									Say		=	19.07
												Sqm

34	Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting etc. complete as directed.(Bd. A.10/262)										Cum		
	Qty received from excavation	1	X	1	X	25.51	X	7.56	X	0.05	=	9.64	
	item no 3	19.53				2.19				17.34			
	item no 5	7.81				15.90				-8.09			
	Qty received from excavation									Total		9.64	
										Sav		10.00	Cum
35	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only compacted thickness is payable][Rd.23/202 & Rd.28/205].										Cum		
	Main bldg.	1	X	1	X	24.91	X	6.96	X	0.30	=	52.01	
	Apron												
										Total		52.01	
										Sav		52.01	Cum
36	Compacting the Hard Murum, cohesive non swelling materials in plinth upto 200 mm loose with power roller 8 to 10 tonnee capacity including artificial watering etc. complete as directed.[Rd.38/210]										Sqm		
	Main bldg.	1	X	1	X	24.91	X	6.96			=	173.37	
										Total		173.37	
										Sav		173.37	Sqm
37	Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling handpacking complete.[Rd.22/201,Rd.20/200 & Rd.20/205]										Cum		
	Main bldg.	1	X	1	X	24.91	X	6.96	X	0.30	=	52.01	
	Main bldg. Inner Periferi	1	X	1	X	25.51	X	0.60	X	0.20	=	3.06	
		1	X	1	X	6.96	X	0.60	X	0.20	=	0.84	
										Total		55.91	
										Sav		55.91	Cum
38	Compacting oversize & size metal layers combindaly with power roler not less than 8 tonnes including artificial watering & leveling etc. complete as directed (Rd.35/209)										Sqm		
	Main bldg.	1	X	1	X	24.91	X	6.96			=	173.37	
										Total		173.37	
										Sav		173.37	Sqm
39	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 and including vaccum dewatering etc. complete.										Sqm		
	Main bldg.	1	X	1	X	25.51	X	7.56	X	1.00	=	192.86	
										Total		192.86	
										Sav		192.86	Sqm
40	Providing treatment of TREMIX vaccum dewatering over prelaid cement concrete 1:2:4 surface including fixing of M.S.Channel formwork as per required size and placing of dowel rod, vibrating the concrete by needle vibrator and leveling by										Sqm		
	Main Bldg.	1	X	1	X	25.51	X	7.56			=	1.00	
	Provision									Total		1.00	
										Sav		1.00	Sqm
41	Providing & fixing ISMC 150 with weight @ 16.80 Kgs/Rmt 20 mm dia & 0.50 m long bolts & nuts @ 1.00 mc/c, M.S. angles for stands of fire bucket including chain fixing in wall applying three coats of oilpaint etc. compl										MT		
	For Platforms	1	X	2	X	6.93	X	16.80	Kg/M.		=	232.85	
	@ 12.10 kg/m												
	Holdfasts 20 mm dia	2	X	8	X	0.50	X	2.50	Kg/M.		=	20.00	
	@ 2.50 kg/m												
	L50x50x6 mm for fire bucket.									Total		0.25	
	@ 4.50 kg/m									Sav		0.25	MT
42	Providing & Fixing in position M.S. ladder of 45 cms width made out 50 x 50 x 6 mm two angles for rails and M.S. angle stiffeners at three places as directed with M.S. round bars of 20 mm dia for steps @ every 30 cm c/c including fixing										RMT		
	Provision	1	X	1	X	1.00					=	0.00	
										Total		0.00	
										Sav		0.00	RMT

AJRA AGRO PRODUCER CO. LTD. AJARA
GAT NO.195,AJARA,TAL-AJARA, DIST- KOLHAPUR.

NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP.WH BLDG WITH ANCILLARY WORKS AT GAT NO.195,AJARA,DIST- KOLHAPUR.

QUARRY CHART



CERTIFICATE

THIS IS CERTIFY THAT THE QUARRY SHOW ON QUARRY CHART ARE SHORTEST DISTANCE THAN OTHER QUARRY AND MATERIAL HOLDS SUFFICIENT AND QUALITY FOR CONSTRUCTION, HENCE CERTIFIED.

LEAD CHART AS PER SSR :2021-22

SR NO	MATERIAL	SOURCE	TOTAL LEAD KM	INITINAL LEAD	NET LEAD	NET CHARGES
1	Sand	Gajargaon	20 KM	0.00	422.39	422.39
2	Metal Below 40mm	Yamekond	10 KM	0.00	299.83	299.83
3	Metal above 40 mm	Yamekond	10 KM	0.00	287.34	287.34
4	Murum	Yamekond	10 KM	0.00	287.83	287.83
5	Bricks	Shengaon	40 KM	0.00	1603.9	1603.9
6	Cement	Local	2 KM	0.00	108.92	108.92
7	Steel	Local	2 KM	0.00	108.92	108.92

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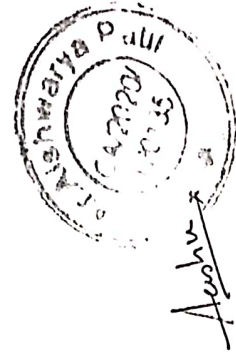
GAT NO.195,AJARA, TAL-AJARA, DIST- KOLHAPUR.

Sub work IV:- Material Lab Testing charges

NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP. WH BLDG WITH ANCILLARY WORKS AT GAT NO.195,AJARA, DIST- KOLHAPUR.

Statement Showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of tests	Rate per test	Amount	Remarks
1	Cement	880	MT	Fineness, Consistency, Setting Time, Compressive strength, Specific gravity.	0	7540	0	one test per 1000 Bag
2	Concrete M-20	54.75	cum	i) Mix Design with all tests on basic materials ii) Concrete cube compressive strength	0	-	-	One set for mix design
3	Bricks	76.4118	cum	Water Absorption (Set of 5 Bricks), Compressive strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks)	3	1380	8280	Up to 50 Cum 4 & thereafter for each 50 Cum one additional set
					0	1900	0	one test per 50000 Nos. of bricks
6	Sand	48.17	cum	Fineness Modulus, silt content.	0	1950	0	1 test per source
7	Murum	62.41	cum	i) Gradation	0	600	0	1 test per 400 Cum.
				ii) Atterberg Limit	0	1100	0	1 test per 400 Cum.
				iii) Moisture content prior to compaction	0	800	0	1 test per 400 Cum.
				iv) Density of compacted layer	0	1000	0	1 test per 1000 Sq.m
				v) Proctor Test	0	1650	0	1 test per 3000 Cum.
				TOTAL			8280	



CHECK LIST FOR ESTIMATE SCRUTINY OF GODOWN

SR.NO	DESCRIPTION		
1	NAME OF WORK :- PROPOSED CONSTRUCTION OF 360 MT CAP.WH BLDG WITH ANCILLARY WORKS AT GAT NO.195,AJARA,DIST- KOLHAPUR.	:-	0.10 hectre
2	7/12 & S- Area	:-	0.10 hectre
3	Area as per 7/12	:-	वेडर हाऊस, 234.66 Sq.Met.
4	Proposed Plat Area on Drawing	:-	आजरा कोठी रोड, व्हिडेज रोड
5	Existing Road / Name Standard of Road (V.R./ O.D.R./MDR/S.H./N.H.)	:-	5 मीटर
6	Control Distance Line From the Road Cente	:-	
7	Approch Road From ExistingRoad	:-	
8	Details Of Drawing [As Per M.S.W.C. Norms]	:-	Yes
	A)Plan	:-	Yes
	B)Elevation	:-	Yes
	C) Section/Cross Section/Front Elevation	:-	Yes
	D)Location Plan/ Village Plan	:-	Yes
9	Layout Plan	:-	Yes
10	Estimate Based on D.S.R Rates For the Year	:-	Civil e-SSR 2021-22
11	Certified lead Statement	:-	Yes
12	Certified Quarry Chart	:-	Yes
13	Abstract/ Recap [Estimated Amount + GST 12% + Contingency% + Insurance 0.5%]	:-	3999090
14	General Description	:-	Yes
15	Scrutiny Charges [DD of Amount Rs...../-	:-	5900/- (Including 18 % GST)
16	Plinth Hight From Modified Road Top	:-	0.90 met

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R A Sheet

Item No

35.00 Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only compacted thickness is payable][Rd.23/202 &]

Consider 1.00 cu m quantity			
1 - Basic rate 25/383	1.00	288.00	288.00
2 - Lead Charges	10.00	287.83	287.83
3 - Spreading charges ₹	0.00	49.00	0.00
Total Rs			575.83
4 - For compaction 20 % OF H.M.cost			
Grand total Rs.			575.83
Deduction for stacking charges			
I N 3/255	1.20	0.00	0.00
Net Rs			575.83
Therefore rate per cu m will be say	Rs		575.83

Item No 37.00 Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling P oversize & size metal filling in plinth

Consider 1.00 cu m quantity of 80 mm O.S.metal			
1 - Basic rate	1.00	885.00	885.00
2 - Lead Charges	10.00	287.34	287.34
3 - Spreading charges	0.00	49.00	0.00
Total Rs			1172.34
4 - Add for compaction 15 %			0.00
Grand Total Rs.			1172.34
Deduction for stacking charges			
2./255	1.32	0.00	0.00
Net Rs			1172.34
Therefore rate per cu m will be say Rs			1172.34
			762.02

Consider 1.00 cu m quantity of 40 mm O.S.metal			
1 - Basic rate	1.00	885.00	885.00
lead charges-	1.00	287.34	287.34
3 - Spreading charges	0.00	49.00	0.00
Total Rs			1172.34
4 - Add for compaction 15 %			175.85
Grand Total Rs.			1348.19
Deduction for stacking charges			
2./255	1.32	0.00	0.00
Net Rs			1348.19
Therefore rate per cu m will be say Rs			1348.19
			471.87
			1233.89
			1233.89

Say Rs

(31)



33.00 Providing & constructing parapet coping of size 35 x 35 cms in cement mortar 1:4 with
 Consider 1.00 m length

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1 - Brickwork in CM 1:4
 1 x 1.00 x 0.35 x 0.20 = 0.70 cum
 1 x 1.00 x 0.40 x 0.075 = 0.03 cum
 1 x 1/2 x 1.00 x 0.40 x 0.075 = 0.015 cum
 Total quantity = 0.115 cum
 Rate as per I N 11 of S 0.12 7570.00 870.55
 Add cement diff. bet CM 1:4 & 1:6 (2.60 - 1.44) = 1.16 Bag
 [1.16 x 0.115] = 0.13 290.00 38.69

2 - Cement plaster 20 mm tk in C M 1:4 with slurry

1 x 1.00 x 2 X [0.20 + 0.025 + 0.075 + 0.21] = 1.02
 1.02 sq m @ 1.02 264.00 269.28

3 - Butt joint in C M 1:4 with slurry finish
 1/2 x 0.15 x 0.15 x 1.00 = 0.01125 / 0.02 = 0.5625 sqm
 0.5625 sq m @ 0.00 264.00 0.00

Grand Total 1178.52
 Therefore rate per R M will be 1179.00


 Anshu

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