

**NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE
BUILDING FOR ASAWARI FARMERS PRODUCER COMPANY LTD GUT NO.
121 ,203 DHANORA MAKTA TQ.LOHA & DIST.NANDED**

ESTIMATE

DIVISION :-
SANCTIONED ESTIMATE :- 26575872
FUND HEAD :-
MAJOR HEAD :-
MINOR HEAD :-
SERVICE HEAD :-
DEPARTMENTAL HEAD :-

**NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE
BUILDING FOR ASAWARI FARMERS PRODUCER COMPANY LTD GUT NO.
121 ,203 DHANORA MAKTA TQ.LOHA & DIST.NANDED**

Administrative Approved under

No. Dated Rs. 26,575,872

Technical sanction under

No. Dated Rs. 26,575,872

Estimated prepared by Er. S.B.Allewar

And checked by Er. S.B.Allewar

NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP.
WAREHOUSE BUILDING FOR ASAWARI FARMERS PRODUCER
COMPANY LTD GUT NO. 121 ,203 DHANORA MAKTA TQ.LOHA &
DIST.NANDED

RECAPITULATION SHEET

(A) COST OF CIVIL WORK	Rs.	21077839.67
(B) COST OF ELECTRIFICATION	Rs.	139973.00
(C) ROYALTY CHARGES	Rs.	309351.75
(D) MATERIAL TESTING CHARGES	Rs.	167425.00
TOTAL	Rs.	21694589.41
(E) ADD 18% GST	Rs.	3905026.09
(F) ADD 0.5% INSURANCE	Rs.	108472.95
(G) ADD CONTIGENCIES 4%	Rs.	867783.58
TOTAL	Rs.	26575872.03

SAY RS. 265.75 LAKHS

**NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE BUILDING
FOR ASAWARI FARMERS PRODUCER COMPANY LTD GUT NO. 121 ,203 DHANORA
MAKTA TQ.LOHA & DIST.NANDED**

ABSTRACT SHEET

SR. NO	S.S.R.I TEM NO.	Description	QUANTITY	Unit	Rate	AMOUNT
1	2.05	Cutting down trees including trunks and branches with girths above 270cm to 450cm and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.	10	Nos.	3217.76	32177.60
2	2.07	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .	1600	Sqm	4.16	6656.00
3	21.04	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	240.69	Cum	99.84	24030.49
4	21.07	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 Manual Means	240.69	Cum	430.56	103631.49
5	24.01	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)	27.5	Cum	6086.65	167382.80
6	25.13	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 ,cover blocks, laying/pumping, 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)	100.66	Cum	7601.93	765209.98

7	25.33	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, 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)	15.438	Cum	14549.13	224609.42
8	25.52	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 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)	78.83	Cum	12973.53	1022703.141
9	26.07	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	7.245	Cum	14704.09	106531.11
10	25.72	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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	20.67	Cum	14704.09	303933.48
11	26.33	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.	34.1	MT	93291.12	3181227.19
12	21.38	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	197.856	Cum	1437.28	284374.47

13	21.37	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc.complete.	1096.344	Cum	826.80	906457.22
14	27.01	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.	49.07	Cum	8680.16	425935.57
15	27.03	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	115.66	Cum	8429.52	974958.56
16	32.01	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	550.2	Sqm	333.45	183464.40
17	32.06	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete	550.2	Sqm	512.33	281884.18
18	32.11	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.	770.28	Sqm	664.56	511897.28
19	33.31	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	238.64	Cum	1546.01	368939.13
20	36.03	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.	550.2	Sqm	12.48	6866.50
21	36.11	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.	275.1	Sqm	49.92	13732.99
22	35.26	Providing and applying two coats of exterior weather shield paint 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. NOTE: For Item One Number 15 to 18 prior approval of Superintending Engineer will be necessary	275.1	Sqm	306.80	84400.68

23	39.68	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.	37.8	Sqm	3605.68	136294.70
24	39.24	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)	264	Sqm	5022.16	1325850.24
25	2.26	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard proctor density for a lead of 300m. to 500m. inclusive, from the site of excavation to the site of deposition as directed.	1073.88	Cum	408.72	438916.23
26	21.24	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of chlorophyrifos per One Square Metre of surface area covering ten years guarantee on bond paper	1193.2	Sqm	112.32	134020.22
27	50.6	Compacting the sub grade/gravel/oversize metal (200 mm loose) layers for all width with Vibratory roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete.	1193.2	Sqm	38.48	45914.34
28	2.31	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	3579.6	Sqm	21.84	78178.46
		(A) TOTAL				12140177.89
	SW 2	PEB WORK				

1	PEB1	Structural Steel E-350 (JSW make) Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge /Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required for the complete work).	25.85	MT	95310.41	2463774.099
2	PEB2	Structural Steel - Cold Formed Light gauged (Essar Make) Supplying, fabricating and erecting of Cold Formed Light Gauge structural steel members conforming to IS:801/ IS:811 hot-dip galvanised to IS:4759 - 96 including cutting, welding or bolting, splice plates and packing plates,transporting, straightening, cleaning, fabricating and erecting in position.				
			9.5	MT	95310.41	905448.895
3	PEB3	Sheeting a)PPGL 0.5 mm thk Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.(Essar) Make)	14.5	MT	95310.41	1382000.95
4	PEB4	Roof Accessories Supply & Fixing of 0.5 mm thk PPGL roof accessories as per drawing or as directed by engineer incharge-	133	Sqm	2763.28	367516.24
5	PEB5	Roof Gutter (Assumed Girth- 600 mm) PPGI 0.5 mm Thk. Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends,all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts, nuts, washers etc., conforming to latest specification including straightening, cutting, welding, bending to shape, bolting etc., complete and as directed as per engineer incharge	204	Sqm	2763.28	563709.120
6	PEB6	Downtake Pipe Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of	204.00	Sqm	2763.28	563709.120

7	PEB7	Polycarbonate Sheet Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge.	1864	Sqm	1398.80	2607363.20
8	PEB8 (38.53)	Turbo Ventilator Supply & Fixing of turbo ventilator with 610 mm throat, having base ring & top plate in stainless steel of 0.8 mm thick, rotated using twin bearings of SKF - 600122 & 600322 permanently lubricated & sealed. Fixed in FRP base plate of 2mm thk clear 1.020 mtr wide & 1.7 mtr long.	24	Nos.	3505.84	84140.16
		(B)TOTAL AMOUNT				8937661.779
		Royalty Charges				
		(A)For sand	279.73	Cum	237.37	66399.15
		(B)For all other minerals	216.18	Cum	1123.84	242952.60
		(C)TOTAL AMOUNT				309351.75
		TOTAL (A)+(B)+(C)				21387191.41

**NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE
BUILDING FOR ASAWARI FARMERS PRODUCER COMPANY LTD GUT NO. 121
,203 DHANORA MAKTA TQ.LOHA & DIST.NANDED**

MEASUREMENT SHEET

SR. NO	S.S.R. ITEM NO.	Description	QUANTITY	Unit
1	2.05	Cutting down trees including trunks and branches with girths above 270cm to 450cm and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.		Nos.
		2	2.00	Nos.
		3	3.00	
		5	5.00	
			10.00	Nos.
2	2.07	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .		Sqm
		10 x 80	800.00	Sqm
		10 x 80	800.00	Sqm
			1600.00	Sqm
3	21.04	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
		22 X 2.3 X 2.3 X 1.75	203.66	Cum
		4 X 2.3 X 2.3 X 1.75	37.03	Cum
			240.69	Cum
4	21.07	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 Manual Means		Cum
		22 X 2.3 X 2.3 X 1.75	203.66	Cum
		4 X 2.3 X 2.3 X 1.75	37.03	Cum
			240.69	Cum

5	24.01	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
		22 X 2.3 X 2.3 X 0.20	23.27	Cum
		4 X 2.3 X 2.3 X 0.20	4.23	Cum
			27.5	Cum
6	25.13	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 ,cover blocks, laying/pumping, 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)		Cum
		22 X 2.2 X 2.2 X 0.8	85.18	Cum
		4 X 2.2 X 2.2 X 0.8	15.48	Cum
			100.66	Cum
7	25.33	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, 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)		Cum
		22 X 2.2 X 0.6 X 0.45	13.068	Cum
		4 X 2.2 X 0.6 X 0.45	2.37	Cum
			15.438	Cum

8	25.52	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 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)		Cum
	GB/PB	3 X 76 X 0.45 X 0.3	30.78	Cum
		11 X 15.7 X 0.45 X 0.3	23.31	Cum
	LINTEL BEAM	183.3 X 0.45 X 0.3	24.74	Cum
			78.83	Cum
9	26.07	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)		Cum
		3 X 3.5 X 2 X 0.115	2.415	Cum
		3 X 3.5 X 2 X 0.115	2.415	Cum
		3 X 3.5 X 2 X 0.115	2.415	Cum
			7.245	Cum
10	25.72	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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)		Cum
		76 X 1.2 X 0.15	13.68	Cum
		15.5 X 1.2 X 0.15	2.79	Cum
		4 X 3.5 X 2 X 0.15	4.2	Cum
			20.67	Cum

11	26.33	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
		R.C.C FOOTNGS	8.7	MT
		R.C.C. COLUMNS	6.6	MT
		R.C.C. BEAMS	6.7	MT
		R.C.C SLAB	6.5	MT
		R.C.C. CHAJJAS	5.6	MT
			34.1	MT
12	21.38	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.		Cum
		76 X 15.7 X 0.15	178.98	Cum
		26 X 2.2X2.2 X0.15	18.876	Cum
			197.856	Cum
13	21.37	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc.complete.		Cum
		76 X 15.7 X 0.90	1073.88	Cum
		26 X 1.2 X 1.2 X 0.60	22.464	Cum
			1096.344	Cum
14	27.01	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
		2 X 76 X 1.2 X 0.223	40.67	
		2 X 15 .7 X 1.2 X 0.223	8.4	
			49.07	Cum
15	27.03	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		Cum
		2 X 76 X 3 X 0.223	101.66	Cum
		2 X 15 .7 X 3 X 0.223	14	Cum
			115.66	Cum

16	32.01	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.		Sqm
		2 X 76 X 3	456	Sqm
		2 X 15.7 X 3	94.2	
			550.2	Sqm
17	32.06	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete		Sqm
		2 X 76 X 3	456	Sqm
		2 X 15.7 X 3	94.2	
			550.2	Sqm
18	32.11	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.		Sqm
		2 X 76 X 4.2	638.4	Sqm
		2 X 15.7 X 4.2	131.88	Sqm
			770.28	Sqm
19	33.31	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.		Cum
		76 x 15.7 x 0.20	238.64	Cum
			0	Cum
			238.64	Cum
20	36.03	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
		76 x 3X2	456	Sqm
		15.7 X 3X2	94.2	Sqm
			550.2	Sqm

21	36.11	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.		Sqm
		76 x 3	228	Sqm
		15.7 X 3	47.1	Sqm
			275.1	Sqm
22	35.26	Providing and applying two coats of exterior weather shield paint 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. NOTE: For Item One Number 15 to 18 prior approval of Superintending Engineer will be necessary		Sqm
		76 x 3	228	Sqm
		15.7 X 3	47.1	Sqm
			275.1	Sqm
23	39.68	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.		Sqm
		25 X 1.2 X 2.1x 0.2	12.6	Sqm
		25 X 1.2 X 2.1x 0.2	12.6	Sqm
		25 X 1.2 X 2.1x 0.2	12.6	Sqm
			37.8	Sqm
24	39.24	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
		4 X 6 X 5	120	Sqm
		4 X 6 X 6	144	Sqm
			264	Sqm

25	2.26	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard proctor density for a lead of 300m. to 500m. inclusive, from the site of excavation to the site of deposition as directed.		Cum
		76 X 15.7 X 1.2	1073.88	Cum
			0	Cum
			1073.88	Cum
26	21.24	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of chlorophyrifos per One Square Metre of surface area covering ten years guarantee on bond paper		Sqm
		76 X 15.7	1193.2	Sqm
			0	Sqm
			1193.2	Sqm
27	50.6	Compacting the sub grade/gravel/oversize metal (200 mm loose) layers for all width with Vibratory roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete.		Sqm
		76 X 15.7	1193.2	Sqm
			1193.2	Sqm
28	2.31	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.		Sqm
		76 X 15.7	1193.2	Sqm
		2 X 76 X 15.7	2386.4	Sqm
			3579.6	Sqm
	SW2	PEB WORK		
1	PEB1	Structural Steel E-350 (JSW make) Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge /Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes		MT

		As per steel design calculation	25.85	MT
			25.85	MT
2	PEB2	Structural Steel - Cold Formed Light gauged (Essar Make) Supplying, fabricating and erecting of Cold Formed Light Gauge structural steel members conforming to IS:801/ IS:811 hot-dip galvanised to IS:4759 - 96 including cutting, welding or bolting, splice plates and packing plates,transporting, straightening, cleaning, fabricating and erecting in position.		
		As per steel design calculation	9.5	MT
			9.5	MT
3	PEB3	Sheeting a)PPGL 0.5 mm thk Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.(Essar) Make)		MT
		As per steel design calculation	14.5	MT
			14.5	MT
4	PEB4	Roof Accessories Supply & Fixing of 0.5 mm thk PPGL roof accessories as per drawing or as directed by engineer incharge-		Rmt
		Corner Flashing	23	Rmt
		Center Ridge	54	Rmt
		Gable Flashing	56	Rmt
			133.00	Rmt
5	PEB5	Roof Gutter (Assumed Girth- 600 mm) PPGI 0.5 mm Thk. Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends,all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts, nuts, washers etc., conforming to latest specification including straightening, cutting, welding, bending to shape, bolting etc., complete and as directed as per engineer incharge		Sqm
			76.00	Sqm
			76.00	Sqm
			32.00	
			184.00	Sqm
6	PEB6	Downtake Pipe Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of spouts shall be arranged to		Rmt

		76	76.00	Rmt
		76	76.00	Rmt
		32+20	52.00	Rmt
			204.00	Rmt
7	PEB7	Polycarbonate Sheet Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge.		
		76 x 15.7	1193.2	Sqm
		76 x 2x 4	608.00	Sqm
		15.7 x 2 x 2	62.80	Sqm
			1864.00	Sqm
8	PEB8 (38.53)	Turbo Ventilator Supply & Fixing of turbo ventilator with 610 mm throat, having base ring & top plate in stainless steel of 0.8 mm thick, rotated using twin bearings of SKF - 600122 & 600322 permanently lubricated & sealed. Fixed in FRP base plate of 2mm thk clear 1.020 mtr wide & 1.7 mtr long.		Nos.
		12	12	Nos.
		12	12	Nos.
			24	Nos.

NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE BUILDING FOR ASAWARI FARMERS PRODUCER COMPANY LTD GUT NO. 121 ,203 DHANORA MAKTA TQ.LOHA & DIST.NANDED

RATE ANALYSIS

SR. NO	S.S.R.I TEM NO.	Description of Item	S.S.R. Rate	Unit
1	2.05	Cutting down trees including trunks and branches with girths above 270cm to 450cm and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.	3094.00	Nos.
		4 % Muncipal Council Area Charge	123.76	
		Completed Rate	3217.76	
2	2.07	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .	4.00	Sqm
		4 % Muncipal Council Area Charge	0.16	
		Completed Rate	4.16	Sqm
3	21.04	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.	96.00	Cum
		4 % Muncipal Council Area Charge	3.84	
		Completed Rate	99.84	Cum
4	21.07	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 Manual Means	414.00	Cum
		4 % Muncipal Council Area Charge	16.56	
		Completed Rate	430.56	Cum

5	24.01	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)	5830.00	Cum
		4 % Muncipal Council Area Charge	233.20	
		CEMENT Lead Charges(0.01 x 150.41)	1.50	
		CRUSHED SAND Lead Charges (0.02 x 345.15)	6.90	
		SAND Lead Charges (1 x 15.04)	15.04	
		Completed Rate	6086.65	Cum
6	25.13	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 ,cover blocks, laying/pumping, 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)	7287.00	Cum
		4 % Muncipal Council Area Charge	291.48	
		CEMENT Lead Charges(0.01 x 150.41)	1.50	
		CRUSHED SAND Lead Charges (0.02 x 345.15)	6.90	
		AGG Lead Charges (1 x 15.04)	15.04	
		Completed Rate	7601.93	Cum
7	25.33	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, 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	13967.00	Cum

		4 % Muncipal Council Area Charge	558.68	
		CEMENT Lead Charges(0.01 x 150.41)	1.50	
		CRUSHED SAND Lead Charges (0.02 x 345.15)	6.90	
		AGG Lead Charges (1 x 15.04)	15.04	
		Completed Rate	14549.13	Cum
8	25.52	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 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)	12452.00	Cum
		4 % Muncipal Council Area Charge	498.08	
		CEMENT Lead Charges(0.01 x 150.41)	1.50	
		CRUSHED SAND Lead Charges (0.02 x 345.15)	6.90	
		AGG Lead Charges (1 x 15.04)	15.04	
		Completed Rate	12973.53	Cum
9	26.07	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	14116.00	Cum
		4 % Muncipal Council Area Charge	564.64	
		CEMENT Lead Charges(0.01 x 150.41)	1.50	
		CRUSHED SAND Lead Charges (0.02 x 345.15)	6.90	
		AGG Lead Charges (1 x 15.04)	15.04	

		Completed Rate	14704.09	Cum
10	25.72	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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)	14116.00	Cum
		4 % Muncipal Council Area Charge	564.64	
		CEMENT Lead Charges(0.01 x 150.41)	1.50	
		CRUSHED SAND Lead Charges (0.02 x 345.15)	6.90	
		AGG Lead Charges (1 x 15.04)	15.04	
		Completed Rate	14704.09	Cum
11	26.33	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.	89703.00	MT
		4 % Muncipal Council Area Charge	3588.12	
		Completed Rate	93291.12	MT
12	21.38	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	1382.00	Cum
		4 % Muncipal Council Area Charge	55.28	Cum
		Completed Rate	1437.28	Cum
13	21.37	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc.complete.	795.00	Cum
		4 % Muncipal Council Area Charge	31.80	Cum
		Completed Rate	826.80	Cum

14	27.01	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.	7755.00	Cum
		4 % Muncipal Council Area Charge	310.20	
		BRICKS Lead Charges (1.03712 X 475)	492.63	
		CEMENT Lead Charges (0.079 x 150.41)	11.88	
		CRUSHED SAND Lead Charges (0.32 x 345.15)	110.45	
		Completed Rate	8680.16	Cum
15	27.03	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	7514.00	Cum
		4 % Muncipal Council Area Charge	300.56	
		BRICKS Lead Charges (1.03712 X 475)	492.63	
		CEMENT Lead Charges (0.079 x 150.41)	11.88	
		CRUSHED SAND Lead Charges (0.32 x 345.15)	110.45	
		Completed Rate	8429.52	Cum
16	32.01	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	203.00	Sqm
		4 % Muncipal Council Area Charge	8.12	
		CEMENT Lead Charges (0.079 x 150.41)	11.88	
		CRUSHED SAND Lead Charges (0.32 x 345.15)	110.45	
		Completed Rate	333.45	Sqm
17	32.06	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete	375.00	Sqm
		4 % Muncipal Council Area Charge	15.00	
		CEMENT Lead Charges (0.079 x 150.41)	11.88	
		CRUSHED SAND Lead Charges (0.32 x 345.15)	110.45	
		Completed Rate	512.33	Sqm

18	32.11	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.	639.00	Sqm
		4 % Muncipal Council Area Charge	25.56	
		CEMENT Lead Charges (0.079 x 150.41)	11.88	
		CRUSHED SAND Lead Charges (0.32 x 345.15)	110.45	
		Completed Rate	664.56	Sqm
19	33.31	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	1464.00	Cum
		4 % Muncipal Council Area Charge	58.56	Cum
		CEMENT Lead Charges(0.01 x 150.41)	1.50	
		CRUSHED SAND Lead Charges (0.02 x 345.15)	6.90	
		AGG Lead Charges (1 x 15.04)	15.04	Cum
		Completed Rate	1546.01	Cum
20	36.03	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.	12.00	Sqm
		4 % Muncipal Council Area Charge	0.48	Sqm
		Completed Rate	12.48	Sqm
21	36.11	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.	48.00	Sqm
		4 % Muncipal Council Area Charge	1.92	Sqm

		Completed Rate	49.92	Sqm
22	35.26	Providing and applying two coats of exterior weather shield paint 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. NOTE: For Item One Number 15 to 18 prior approval of Superintending Engineer will be necessary	295.00	Sqm
		4 % Muncipal Council Area Charge	11.80	Sqm
		Completed Rate	306.80	Sqm
23	39.68	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.	3467.00	Sqm
		4 % Muncipal Council Area Charge	138.68	
		ALUMINIUM Lead Charges (1 x 246.55)	246.55	
		Completed Rate	3605.68	Sqm
24	39.24	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)	4829.00	Sqm
		4 % Muncipal Council Area Charge	193.16	
		Completed Rate	5022.16	Sqm

25	2.26	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard proctor density for a lead of 300m. to 500m. inclusive, from the site of excavation to the site of deposition as directed.	393.00	Cum
		4 % Muncipal Council Area Charge	15.72	Cum
		Completed Rate	408.72	Cum
26	21.24	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per One Square Metre of surface area covering ten years guarantee on bond paper	108.00	Sqm
		4 % Muncipal Council Area Charge	4.32	
		Completed Rate	112.32	Sqm
27	50.6	Compacting the sub grade/gravel/oversize metal (200 mm loose) layers for all width with Vibratory roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete.	37.00	No.
		4 % Muncipal Council Area Charge	1.48	
		Completed Rate	38.48	No.
28	2.31	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	21.00	No.
		4 % Muncipal Council Area Charge	0.84	
		Completed Rate	21.84	
	SW 2	PEB WORK		

1	PEB1	Structural Steel E-350 (JSW make) Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge /Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required for the complete work).	91500.00	MT
		4 % Muncipal Council Area Charge	3660.00	MT
		STRUCTURAL MS Lead Charges (1 x 150.41)	150.41	MT
		Completed Rate	95310.41	MT
2	PEB2	Structural Steel - Cold Formed Light gauged (Essar Make) Supplying, fabricating and erecting of Cold Formed Light Gauge structural steel members conforming to IS:801/ IS:811 hot-dip galvanised to IS:4759 - 96 including cutting, welding or bolting, splice plates and packing plates,transporting, straightening, cleaning, fabricating and erecting in position.		
			91500.00	MT
		4 % Muncipal Council Area Charge	3660.00	MT
		STRUCTURAL MS Lead Charges (1 x 150.41)	150.41	MT
		Completed Rate	95310.41	MT
3	PEB3	Sheeting a)PPGL 0.5 mm thk Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.(Essar) Make)	91500.00	MT
		4 % Muncipal Council Area Charge	3660.00	MT
		STRUCTURAL MS Lead Charges (1 x 150.41)	150.41	MT
		Completed Rate	95310.41	MT

4	PEB4	Roof Accessories Supply & Fixing of 0.5 mm thk PPGL roof accessories as per drawing or as directed by engineer incharge-	2657.00	Rmt
		4 % Muncipal Council Area Charge	106.28	Rmt
		Completed Rate	2763.28	Rmt
5	PEB5	Roof Gutter (Assumed Girth- 600 mm) PPGI 0.5 mm Thk. Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends,all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts, nuts, washers etc., conforming to latest specification including straightening, cutting, welding, bending to shape, bolting etc., complete and as directed as per engineer incharge	2657.00	Rmt
		4 % Muncipal Council Area Charge	106.28	Rmt
		Completed Rate	2763.28	Rmt
6	PEB6	Downtake Pipe Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of spouts shall be arranged to suit the position of openings in the wall including necessary accessories for fixing the pipe and including all materials and labour charges etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge /	2657.00	Rmt
		4 % Muncipal Council Area Charge	106.28	Rmt
		Completed Rate	2763.28	Rmt
7	PEB7	Polycarbonate Sheet Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge.	1345.00	Sqm
		4 % Muncipal Council Area Charge	53.80	
		Completed Rate	1398.80	Sqm
8	PEB8 (38.53)	Turbo Ventilator Supply & Fixing of turbo ventilator with 610 mm throat, having base ring & top plate in stainless steel of 0.8 mm thick, rotated using twin bearings of SKF - 600122 & 600322 permanently lubricated & sealed. Fixed in FRP base plate of 2mm thk clear 1.020 mtr wide & 1.7 mtr long.	3371.00	Nos
		4 % Muncipal Council Area Charge	134.84	

		Completed Rate	3505.84	Nos
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**NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE BUILDING FOR
ASAWARI FARMERS PRODUCER COMPANY LTD GUT NO. 121 ,203 DHANORA MAKTA
TQ.LOHA & DIST.NANDED**

Lead Chart

Sr.No	Material	Source	Total Lead in kilometer	lead Charges	Remark
1	Soiling / Rubble	Kandhar	15	393.44	
2	60mm Metal	Kandhar	15	393.44	
3	40mm Metal	Kandhar	15	410.55	
4	Crushed Metal	Kandhar	15	410.55	
5	Cement	Kandhar	12	164.99	
6	Steel	Kandhar	12	164.99	
7	Bricks	Kandhar	12	735.48	
8	Sand	Penur	15	372.03	
9	Murum	Poliswadi	8	252.22	

Certificate

1. Certified that the nearest quarry for materials is considered while framing the estimate.
2. Certified that sufficient materials are available in the quarry
3. Certified that material available in the quarry is of good quality

**NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE BUILDING FOR ASAWARI FARMERS PRODUCER COMPANY LTD GUT
NO. 121 ,203 DHANORA MAKTA TQ.LOHA & DIST.NANDED**

ROYALTY STATEMENT

Sr. No	Description of Item	Qty	Metal		Murum		Sand		Unit	
			Factor	Amount	Factor	Amount	Factor	Amount		
		2	3	4	5	6	7	8	9	10
1	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and	27.5	1	27.5	0	0	0.47	12.925	CUM	
2	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. work in	100.66	0	0	0	0	0.425	42.7805	CUM	
3	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per	15.438	0	0	0	0	0.425	6.56115	CUM	
4	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as	78.83	0	0	0	0	0.425	33.50275	CUM	
5	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and	7.245	0	0	0	0	0.425	3.079125	CUM	
6	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings	20.67	0	0	0	0	0.425	8.78475	CUM	

7	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm	1096.344	0	0	1	1096.34	0	0	CUM
8	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	164.73	0	0	0	0	0.25	41.1825	Cum
9	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including	550.2	0	0	0	0	0.0076	4.18152	Sqm
10	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all	550.2	0	0	0	0	0.025	13.755	Sqm
11	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	770.28	0	0	0	0	0.015	11.5542	Sqm
12	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and	238.64	0	0	0	0	0.425	101.422	Cum
	TOTAL ROYALTY QUANTITY			27.50		1096.34		279.73	

TEST ABSTRACT

Sr. No.	Name of Test	Test	Rate in Rs.	NO OF TEST	TOTAL AMOUNT
1	2	3	4	5	6
	<u>BASIC TEST OF CEMENT.</u>				
1	Standard Consistency, Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness.	1 Test	3770.00	9	33930
	<u>BASIC TEST OF AGGREGATE.</u>				0
2	Water Absorption, Specific Gravity, Impact Value, Crushing Value.	1 Test	2600.00	1	2600
3	Sieve Analysis.	1 Test	690.00	1	690
4	Abrasion Value.	1 Test	1170.00	1	1170
5	Flakiness Index & Elongation Index.	1 Test	850.00	1	850
6	Stripping Value. (for Bituminous Work)	1 Test	745.00	1	745
7	Soundness.	1 Test	2495.00	1	2495
	<u>MIX DESIGN.</u>				0
8	GSB Mix Design./Cement Treated Sub Base (CTSB)	1 Test	16250.00	2	32500
9	Wet Mix Macadam Mix Design.	1 Test	16250.00	2	32500
	<u>BRICKS</u>				0
13	Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	1 Test	2175.00	3	6525
	<u>CONCRETE</u>				0
19	Compressive Strength OF C.C. Cube (Set of 3 cubes).	1 Test	690.00	40.00	27600
	<u>SOIL / MURUM</u>				0
29	Sieve Analysis.	1 Test	690.00	1.00	690
30	Liquid limit & plastic Limit.	1 Test	1170.00	1.00	1170
31	Compaction Test (Proctor Density).	1 Test	1860.00	1.00	1860

32	C.B.R. Test (Lab) With compaction test.	1 Test	6905.00	1.00	6905
33	C.B.R. Test (Field Determination Test) Excluding Transportation.As per IS 2720 Part XXXI	1 Test	2600.00	1.00	2600
	<u>WATER</u>				0
57	PH Value, Sulphate & Chloride Content.	1 Test	1115.00	1.00	1115
	<u>STEEL BAR TESTING</u>				0
72	Upto 16 mm (Set of 3 Bars)	1 Test	1275.00	4.00	5100
73	Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress.)	1 Test	1595.00	4.00	6380
			TOTAL AMOUNT		167425

RATE ANALYSIS. ELECTRICAL	
NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE BUILDING FOR ASAWARI FARMERS PRODUCER COMPANY LTD GUT NO. 121 ,203 DHANORA MAKTA TQ.LOHA & DIST.NANDED	
Item No. (4) S/E mains PVC unarmoured cable 3 core 2.5 sq.mm	Rs.
M.R. A) PVC unarmoured cable 3 core 2.5 sq.mm	84.00
M.R. B) G.I. saddle, screw and rawl plug etc.....	12.00
Add 10% C.P.....	9.6
D.S.R. C) Labour charges.....	20.00
Total Rs.	125.60
Item No. (5) S/E weather proof powder coated	
I.N. 5-3-3/96 A) SPMCB 6 Amp.- 1 No. @ Rs.153.75/-	164.00
I.N. 5-4-22/99 B) 1.25 mm CRCA sheet metal enclosure with 10 Amp. 2 pin plug....	765.00
I.N.5-4-23/99 C) CRCA sheet metal one way enclosure..... 1 No.	361.00
Total Rs.	1290.00
Item No. (6) S/E Point wiring for street light	
M.R. A) PVC unarmoured cable 3 core 1.5 sq.mm(13x45)	667.00
M.R. B) M.S. Box epoxy coated (2 way) 4"x4"	70.00
M.R. C) Nylon connector strip 10 Amp.....	10.00
M.R. D) G.I. saddle, screw and rawl plug etc.....	25.00
M.R. E) Flexible cable for street light connection 3 core 1.5 sq.mm (2x45).....	95.00
Add 10% C.P.	86.70
M..R. C) Labour charges (20x13)	260.00
Total Rs.	1213.70
Item No. (8) Supplying and erecting LED Street light fitting suitable for 20 to 25W,	
I.N. 2-5-2/35 A) LED street light fitting.- 1 No.	1905.15
I.N. 2-9-4/40 B) Street light bracket 1 No.	671.60

Total Rs.	2576.75
Item No. (15) S/E Triple pole & neutral distribution	
I.N. 5-4-1/98 A) TPN MCB & Newtral Dietribution board 12 ways ... 1 No.	2009.00
I.N. 5-3-15/94 B) TPNMCB 40 A to 63 A 1 No.	977.00
I.N. 5-3-2/94 C) Single pole MCB 6 A to 32 A 12 Nos. @ RS.165/-No.	1857.00 1980.00
Total Rs.	4966.00
Item No. (23) Supplying shockproof type hand lamp	
I.N. 2-2-1/31 A) Shockproof hand lamp 1 No.	164.00
I.N. 2-10-12/40 B) LED lamp 10/12W..... 1 No.	309.00
M.R. C) 3 core 1.50 Sq.mm flexible cord ... 20 Rmt. @ Rs.45/-	900.00
Add 10% C.P. on (C)	90.00
Total Rs.	1463.00
Item No. (26) Providing power point wiring for	
I.N. 1-3-3/5 A) 2x2.5 sq.mm copper wire 2 Rmt. @ Rs.57/-	114.00
I.N. 1-7-12/12 b) Combined switch & socket 13 A 1 No. @ Rs.136	136.00
I.N. 1-2-9/4 E) PVC Casing capping 20 mm 6 Rmt. @ Rs.36.00/-	216.00
Total :	466.00
Item No. (29) S/E main with 2X2.5 sq.mm + 1x1.5 sq.mm	
I.N. 1-3-3/5 A) 2x2.5 sq.mm copper wire @ Rs.57/-	57.00
I.N. 1-3-1/5 B) 2x1.5 sq.mm. copper wire @ Rs.38/-	38.00
I.N. 1-2-9/4 E) PVC Casing capping 20 mm @ Rs.36/-	36.00
Total :	131.00
Item No. (30) S/E main with 2X4.00 sq.mm + 1x1.5 sq.mm	
I.N. 1-3-5/5 A) 2x4.00 sq.mm copper wire @ Rs.78/-	78.00
I.N. 1-3-1/5 B) 1x1.5 sq.mm. copper wire @ Rs.38/-	38.00
I.N. 1-2-10/4 C) PVC Casing capping 25 mm @ Rs.38/-	38.00
Total :	154.00
Item No. (35) Supplying & erecting T8 LED 18W tube light fitting	
I.N. 2-10-14/40 A) T8 LED 18W tube light fitting..... 1 No. @ Rs.626/-	626.00
Total :	626.00

**NAME OF WORK:- CONSTRUCTION OF 1/2250 MT CAP. WAREHOUSE BUILDING FOR ASAWARI FARMERS PRODUCER COMPANY LTD
GUT NO. 121 ,203 DHANORA MAKTA TQ.LOHA & DIST.NANDED**

MEASUREMENT & ABSTRACT SHEET

Sub Work III :- Electrification

Based on PWD Elect. DSR 2022-23 and Market Rate

I.N.	DESCRIPTON OF ITEM	No	L	B	H	QUANTI TY	UNIT	I.N./ P.N	BASIC	R.A.	TOTAL	LESS %	ADD %	TOTAL	AMOUNT	
									RATE		VAT	Other than Dist	Rate			
											0%	0%				
											Rs. Ps					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Supplying, erecting & terminating XLPE armoured cable 3 core 6 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CI					30.00	Rmt	I. No.7-2-16/129	283.00		283.00	0.00	0.00	283.00	8490	
	PVC armoured cables															
	TOTAL					30.00										
2	Making trench of suitable width and depth in hard murum / tar road for laying provided LT cable up to and including 16 sq. mm complete as per specification no. CW-EXN-CTR					30.00	Rmt	I. No.16-1-2/261	193.00		193.00	0.00	0.00	193.00	5790	
	TOTAL					30.00										
3	Making trench of suitable width and depth in soft soil for laying provided LT cable up to and including 16 sq.mm complete as per specification no. CW- EXN-CTR					20.00	Rmt	I. No.16-1-1/239	162.90		162.90	0.00	0.00	162.90	3258	
	TOTAL					20.00										
4	Supplying & erecting mains PVC unarmoured cable 1100Volt grade ISI mark 3 core / 2.5 sqmm stranded / solid copper complete erected on wall with duly painted G. I. Saddle @ 0.25 m C/C & rigidly grouted in the wall with the help of plated screws					170.15	Rmt	RA		125.60	125.60	0.00	0.00	125.60	19091	

