

DETAILED ESTIMATE

(AS PER PWD SSR 2021-22)

FOR

PRO - CON AGRO PRODUCER COMPANY LIMITED

TOTAL AMOUNT (Rs.) = 98.83 LAKHS

* NAME OF WORK *

PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE
WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI
SHIVAR, TQ. MAJALGAON , DIST. BEED

S. S. Pangave
S. S. Pangave
(B.E. Civil)
Consulting Civil Engineer
T. P. Latur / 643 / 2019
Mob. 8552035000

CONSULTANT

PRO - CON AGRO PRODUCER COMPANY LIMITED
SURVEY NO.- 23, AT BHATWADGAON, TQ. MAJALGAON, DIST. BEED

NAME OF WORK : PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON, DIST. BEED

CAPACITY OF WAREHOUSE :- 880 MT

RECAPULATION SHEET

Sr. No.	Particulars	AREA	UNIT	AMOUNT(Rs.)	Rate per MT (Rs.)	Rate per unit (Rs.)
S.W. I	W.H. Building 1/880 MT	438.96	SQ.MTR	6597023.00	7496.62	15028.76
S.W. II	Internal Roads & CD Works			1583426.39		
S.W. III	Eletrification			143021.97		
S.W. IV	Royalty Charges			210509.00		
S.W. V	Material lab testing charges			23205.00		
	Total			8557185.36	9724.07	19494.23
	Add 3% contingencies			256715.5608		
	Add 12% GST			1026862.243		
	Add 0.50 % Labour Insurance			42785.93		
	Grand Total			9883549.09	11231.3058	22515.83

S. S. Pangave
S. S. Pangave
(B.E. Civil)
Consulting Civil Engineer
T. P. Latur / 643 / 2019
Mob. 8552085000

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON, DIST. BEED

MEASUREMENT SHEET

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QTY.
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 & (S.S.R. OF 2021-22 I.No. 21.02 P.No. 115)					
	FOR COLUMN FOOTING	20	1.80	1.50	1.500	81.000
	FOR STEPS	4	1.20	1.15	1.200	6.624
	FOR PLATFORM COL	8	1.50	1.50	1.500	27.000
	TOTAL QUANTITY					114.624
						Cu.M.
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the (S.S.R. I.No. 21.06 P.No. 115)					
	FOR COLUMN FOOTING .	20	1.80	1.50	0.600	32.400
	FOR STEPS	4	1.20	1.15	0.600	3.312
	FOR PLATFORM COL	8	1.50	1.50	0.600	10.800
	TOTAL QUANTITY					46.512
						Cu.M.
3	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, formwork, (S. e-S.S.R. I.No. 24.01 P.No. 131					
	FOR COLUMN FOOTING	20	1.80	1.50	0.150	8.100
	FOR STEPS	4	1.20	1.15	0.150	0.828
	FOR PLATFORM	8	1.80	1.50	0.150	3.240
	FOR GODOWN	1	29.30	14.29	0.150	62.805
TOTAL QUANTITY					74.973	
						Cu.M.
4	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 (S- S.S.R. I.No. 25.11, P.No. 133)					
	FOR COLUMN FOOTING,	20	1.80	1.50	0.500	27.000
	FOR PLATFORM	8	1.50	1.20	0.450	6.480
	TOTAL QUANTITY					33.480
						Cu.M.
5	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap /granite/quartzite/gneiss metal for R.C.C.columns as per detailed designs and drawing or as directed including (S- S.S.R. I.No. 25.31, P.No. 134)					
	FOR COLUMN FOOTING TO PLINTH	20	0.23	0.45	2.900	6.003
	FOR PLATFORM	8	0.23	0.38	2.750	1.923
	FOR COLUMN ABOVE PLINTH	20	0.23	0.45	3.350	6.935
TOTAL QUANTITY					14.861	
						Cu.M.
6	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed (S- S.S.R. I.No. 25.50, P.No. 135)					
	GROUND LEVEL					
	LONG WALL	14	3.80	0.23	0.500	6.118
	SHORT WALL	6	4.32	0.23	0.500	2.981
	PLINTH LEVEL					
	LONG WALL	14	3.80	0.23	0.150	1.835
	SHORT WALL	6	4.32	0.23	0.150	0.894
	ADD FOR LINTEL LEVEL					
	LONG WALL	14	3.80	0.23	0.150	1.835
	SHORT WALL	6	4.32	0.23	0.150	0.894
	ADD TOP BRACING LEVEL					
	LONG WALL	14	3.80	0.23	0.450	5.506
	SHORT WALL	6	4.32	0.23	0.450	2.683

MEASUREMENT SHEET

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QTY.
		TOTAL QUANTITY				22.746
						Cu.M.
7	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/ quartzite/gneiss metal for R.C.C. slab sand landings as per detailed designs and drawings including (S.S.R. I.No. 25.70, P.No. 135)					
	FOR PLATFORM	4	4.70	1.00	0.15	2.820
		TOTAL QUANTITY				2.820
						Cu.M.
8	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 designs and drawings including (S.S.R.I.No. 26.05, P.No. 137)					
	VENTILATOR CHAJJA	30	1.50	0.60	0.150	4.050
		TOTAL QUANTITY				4.050
						Cu.M.
9	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, (S.S.R. I.No.26.33, P.No. 139)					
	Footing	33.48	cum. @	125.00	kg/cum	4185.000
	Column	14.86	cum. @	150.00	kg/cum	2229.150
	Beam	22.75	cum. @	125.00	kg/cum	2843.250
	Chajja	4.05	cum. @	125.00	kg/cum	506.250
	Slab	2.82	cum. @	125.00	kg/cum	352.500
					TOTAL	10116.15
						KG
		TOTAL QUANTITY				10.116
						M.T.
10	Providing soling using 80mm. size trap metal in 15cm. layer including filling voids with crused sand/grit, ramming, watering etc. complete. Spec. no. As directed by Engineer in (S.S.R. I.No.21.40 P.No. 118)					
	BELOW FLOORING	1	29.30	14.29	0.150	62.805
		TOTAL QUANTITY				62.805
						CUM
11	Filling in plinth and floors with contractors material/ brought from out side and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. (S.S.R.I.No. 21.37, P.No. 117)					
	BELOW FLOORING	1	29.30	14.29	1.100	460.567
		TOTAL QUANTITY				460.567
						Cu.M.
12	Providing masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water (S.S.R.I.No. 27.01, P.No.144					
	LONG WALL	14	3.80	0.23	1.100	13.460
	SHORT WALL	6	4.32	0.23	1.100	6.558
		TOTAL QUANTITY				20.017
						Cu.M.
13	Providing masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding (S.S.R.I.No. 27.05, P.No. 144)					
	LONG WALL	14	3.80	0.23	2.950	36.096
	SHORT WALL	6	4.32	0.23	2.950	17.587
	DEDUCTIONS FOR VENTILATORS	-30	1.50	0.23	0.600	-6.210
	DEDUCTIONS FOR SHUTTER	-6	3.80	0.23	3.060	-16.047
		TOTAL QUANTITY				31.426
						Cu.M.

MEASUREMENT SHEET

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QTY.
14	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. (S.S.R.I.No. 32.01, P.No. 153)					
	FOR CHAJJAS	30	2	1.50	0.60	54.000
		30	2	0.60	0.125	4.500
		30	1	1.50	0.125	5.625
	TOTAL QUANTITY					64.125
						Sq.M.
15	Providing internal cement plaster 20 mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. (S.S.R. I. No. 32.03 P. No. 153)					
	LONG WALL	2	29.30		3.350	196.310
	SHIRT WALL	2	14.29		3.350	95.743
	DEDUCTIONS FOR VENTILATOR	-30	1.50		0.600	-27.000
	DEDUCTIONS FOR SHUTTER	-4	3.80		3.060	-46.512
	TOTAL QUANTITY					218.541
16	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 (S.S.R. I. No. 32.11 P. 153)					
	BELOW PLINTH LONG WALL	2	29.76		0.900	53.568
	SHIRT WALL	2	14.75		0.900	26.550
	ABOVE PLINTH LONG WALL	2	29.76		3.400	202.368
	SHIRT WALL	2	14.75		3.400	100.300
	DEDUCTIONS FOR VENTILATORS	-30	1.50		0.600	-27.000
	DEDUCTIONS FOR SHUTTER	-4	3.80		2.900	-44.080
	TOTAL QUANTITY					311.706
						Cu.M.
17	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 necessaryrefilling (S.S.R. I. No. 33.30 P. 158)					
	FOR GODOWN	1	29.30	14.29		418.697
	TOTAL QUANTITY					418.697
						SQM
18	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 (S.S.R. I. No. 32.34 P. 155)					
	GROUND FLOOR	QTY AS PER 6 MM & 20 MM PLASTER				282.666
	TOTAL QUANTITY					282.666
						Sq.M.
19	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coat including scaffolding, preparing the surfaces. (excluding the (S.S.R.I.No. 36.11, P. No. 167)					
		QTY AS PER 6 MM & 20 MM PLASTER				282.666
	TOTAL QUANTITY					282.666
						SQ.M.
20	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 (S.S.R.I.No. 35.26, P. No. 165)					
		QTY AS PER 6 MM & 12 MM PLASTER				311.706
	TOTAL QUANTITY					311.706
						Sq.M.
21	Providing & constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half (S.S.R. I.No. 42.10, P.No. 200)					
		4				4.000

MEASUREMENT SHEET

SR. NO.	DESCRIPTION OF ITEM	NO.	L.	B	D	QTY.
		TOTAL QUANTITY				4.000
						NOS.
22	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the (S.S.R. I.No.33.18 P. No. 157)					
	BELOW STAIRS	16	1.20	0.30		5.760
		16	1.20		0.150	2.880
		TOTAL QUANTITY				8.640
						Sq.M.
23	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including (S.S.R. I.No.39.68 P. No. 188)					
	VENTILATOR	30	1.50		0.600	27.000
		TOTAL QUANTITY				27.000
						Sq.M.
24	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9mm with lock plate of 3.15mm (S.S.R. I.No. 39.25 P. No. 164)					
	OPENING	4	3.80	2.90		44.080
		TOTAL QUANTITY				44.080
						Sq.M.
25	Providing and fixing self supporting steel roofing system for a Godown or a like made up of structural grade steel sheet of (S.S.R. I.No. 38.44 P. No. 231)					
	TURBO VENTILATOR	10				10.000
		TOTAL QUANTITY				NOS.
26	Providing and fixing 45 cm wide mild steel ladder of 40mmx6mm mild steel flat stringers and steps of 18 mm dia. Mild steel bar for water tank including fixing itin(1:2:4)M-15 (S.S.R. I.No. 41.56 P. No. 198)					
	LADDER	10				10.000
		TOTAL QUANTITY				rmt
27	Conveying materials obtained from excavation including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and (S.S.R. I.No. 2.26 P. No. 24)					
	AS PER ITEM NO 1 & 2	161.14				161.136
		TOTAL QUANTITY				CUM
28	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 (S.S.R. I.No. 21.24 P. No. 117)					
	FOR GODOWN,	1	29.30	14.29		418.697
		TOTAL QUANTITY				SQM
29	Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws and bolts, lead (S.S.R. I.No. 38.05 P. No. 171)					
	FOR WH	2	29.76	8.11		482.707
	LONG WALL	2	29.76		2.900	172.608
	SHORT WALL	2	14.75		2.900	85.550
	FOR PLATFORM	4	4.90	1.20		23.520
						764.385
		TOTAL QUANTITY				SQM
30	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, (S.S.R. I.No. 23.02 P. No. 129)					
	FOR TRUSS, ANGLE, GIRDER	764	25.00	KG/SQM		19109.630
						19.110

MEASUREMENT SHEET

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QTY.	
		TOTAL QUANTITY					MT
31	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete. (S.S.R. I.No. 2.31 P. No. 24)						
	FOR MAIN WH BLDG	4	29.30	14.29		1674.788	
	DEDUCTION FOR O.S. METAL IN PLINTH						
	LONG WALL	-2	29.30	0.60		-35.160	
	SHORT WALL	-2	13.09	0.60		-15.708	
		TOTAL QUANTITY					1623.920
						SQM	
32	Compacting the subgrade/gravel/sizemetal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. (S.S.R. I.No. 50.61 P. No. 250)						
	FOR MAIN WH BLDG	1	29.300	20.540	0.600	361.093	
	O.S.METAL ON PLINTH ALONG PERIPHERY - LONGWALL	2	29.300	0.600		35.160	
		2	13.090	0.600		15.708	
						411.961	
		TOTAL QUANTITY					SQM
33	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia.1.2 mm thick with multiple point shead 1.2 mt.long(HeavyDuty) weided or clamped to G.I.pipe pole FOR WH						
		15				15.000	
		TOTAL QUANTITY					15.000
						RMT	
34	ADA compliant modular Multilingual and tactile Emergency evacuation map of each floor indicating the current position of the viewer saying "YOU ARE HERE" of 15 mm height letter sin						
	Fire extinguishers	4				4.000	
		TOTAL QUANTITY					NOS
35	Laboratory test of construction material						
	1) BASIC TEST OF AGGREGATE					0.000	
	a) Water Absorption, Specific Gravity, Impact Value, Crushing Value.	1.00				1.000	
	b) Sieve Analysis.	1.00				1.000	
	c) Abrasion Value.	1.00				1.000	
	d) Flakiness Index & Elongation Index.	1.00				1.000	
	2) BRICKS						
	Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	1.000				1.000	
	3) CONCRETE						
	a) Compressive Strength OF C.C. Cube (Set of 3 cubes).	1.000				1.000	
	b) Concrete Mix Design (With all Tests on basic materials)	1.000				1.000	
	4) STEEL						
	Steel bar testing upto 16 mm (set of 3 bars)(Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress.)	1.000				1.000	

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON , DIST. BEED

ABSTRACT SHEET

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
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 & (S.S.R. OF 2021-22 I.No. 21.02 P.No. 115)				
	RATE ANALYSIS	114.624	193.00	Cu.M.	22122.00
2	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, (S.S.R. I.No. 21.06 P.No. 115)				
	RATE ANALYSIS	46.512	212.00	Cu.M.	9861.00
3	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, formwork, (S. e-S.S.R. I.No. 24.01 P.No. 131				
	RATE ANALYSIS	74.973	6682.94	Cu.M.	501040.00
4	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 (S- S.S.R. I.No. 25.11, P.No. 133)				
	RATE ANALYSIS	33.480	7605.24	Cu.M.	254623.00
5	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap /granite/quartzite/gneiss metal for R.C.C.columns as per detailed designs and drawing or as directed including (S- S.S.R. I.No. 25.31, P.No. 134)				
	RATE ANALYSIS	14.861	13997.76	Cu.M.	208021.00
6	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed (S- S.S.R. I.No. 25.50, P.No. 135)				
	RATE ANALYSIS	22.746	12749.57	Cu.M.	290002.00
7	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/ quartzite/gneiss metal for R.C.C. slab sand landings as per detailed designs and drawings including (S.S.R. I.No. 25.70, P.No. 135)				
	RATE ANALYSIS	2.820	15209.57	Cu.M.	42891.00
8	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 designs and drawings including (S.S.R.I.No. 26.05, P.No. 137)				
	RATE ANALYSIS	4.050	14377.57	Cu.M.	58229.00
9	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, (S.S.R. I.No.26.33, P.No. 139)				
	RATE ANALYSIS	10.116	71926.81	Cu.M.	727612.0
10	Providing soling using 80mm. size trap metal in 15cm. layer including filling voids with crused sand/grit, ramming, watering etc. complete. Spec. no. As directed by Engineer in (S.S.R. I.No.21.40 P.No. 118)				
	RATE ANALYSIS	62.805	1677.50	CUM	105355.00
11	Filling in plinth and floors with contractors material/ brought from out side and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. Complete (Spec No Bd A 11 page No 263) (S.S.R.I.No. 21.37, P.No. 117)				
	RATE ANALYSIS	460.567	874.34	Cu.M.	402692.00
12	Providing masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water				

ABSTRACT SHEET

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
	(S.S.R.I.No. 27.01, P.No.144 RATE ANALYSIS	20.017	9151.74	Cu.M.	183190.00
13	Providing masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding (S.S.R.I.No. 27.05, P.No. 144) RATE ANALYSIS	31.426	9378.74	Cu.M.	294736.00
14	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. As Directed By Engineer Incharge (S.S.R.I.No. 32.01, P.No. 153) RATE ANALYSIS	64.125	228.46	Sq.M.	14650.00
15	Providing internal cement plaster 20 mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. (S.S.R. I. No. 32.03 P. No. 153) RATE ANALYSIS	218.541	396.46	Sq.M.	86643.00
16	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 (S.S.R. I. No. 32.11 P. 153) RATE ANALYSIS	311.706	636.46	Sq.M.	198388.00
17	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 necessaryrefilling with bitumen etc. complete. (S.S.R. I. No. 33.30 P. 158) RATE ANALYSIS	418.697	794.05	Sq.M.	332466.00
18	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 (S.S.R. I. No. 32.34 P. 155) RATE ANALYSIS	282.666	11.00	Sq.M.	3109.00
19	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coat including scaffolding, preparing the surfaces. (excluding the primer coat) etc. complete Spec No. Bd P 5 Page No. 413 (S.S.R.I.No. 36.11, P. No. 167) RATE ANALYSIS	282.666	43.00	Sq.M.	12155.00
20	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 (S.S.R.I.No. 35.26, P. No. 165) RATE ANALYSIS	311.706	238.00	Sq.M.	74186.00
21	Providing & constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half As directed by Engineer in charge. (S.S.R. I.No. 42.10, P.No. 200) RATE ANALYSIS	4.000	13315.36	Sq.M.	53261.00
22	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases. with rounded nosing for the (S.S.R. I.No.33.18 P. No. 157) RATE ANALYSIS	8.640	1554.22	Sq.M.	13428.00
23	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 (S.S.R. I.No.39.68 P. No. 188) RATE ANALYSIS	27.000	3107.00	Sq.M.	83889.00

ABSTRACT SHEET

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
24	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9mm with lock plate of 3.15mm thickness reinforced with 35x35x5 mm angle section fitted (S.S.R. I.No. 39.25 P. No. 164)				
	RATE ANALYSIS	44.080	4730.00	Sq.M.	208498.00
25	Providing and fixing self supporting steel roofing system for a Godown or a like made up of structural grade steel sheet of 912 millimeter width (tolerance +/- 2 millimeter), moulded at (S.S.R. I.No. 38.44 P. No. 231)				
	RATE ANALYSIS	10.000	8680.00	Nos.	86800.00
26	Providing and fixing 45 cm wide mild steel ladder of 40mmx6mm mild steel flat stringers and steps of 18 mm dia. Mild steel bar for water tank including fixing itin(1:2:4)M-15 (S.S.R. I.No. 41.56 P. No. 198)				
	RATE ANALYSIS	7:000	1151.00	RMT	8057.00
27	Conveying materials obtained from excavation including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and (S.S.R. I.No. 2.26 P. No. 24)				
	RATE ANALYSIS	161.136	359.00	cum	57848.00
28	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 (S.S.R. I.No. 21.24 P. No. 117)				
	RATE ANALYSIS	418.697	94.00	sqm	39358.00
29	Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B:W.G.) for roofing without wind tiles including fastening with galvanised iron screws and bolts, lead (S.S.R. I.No. 38.05 P. No. 171)				
	RATE ANALYSIS	418.697	1042.00	sqm	436282.00
30	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting (S.S.R. I.No. 23.02 P. No. 129)				
	RATE ANALYSIS	19.110	85585.00	sqm	1635498.00
31	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete. (S.S.R. I.No. 2.31 P. No. 24)				
	RATE ANALYSIS	1623.920	19.00	sqm	30854.00
32	Compacting the subgrade/gravel/sizemetal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. (S.S.R. I.No. 50.61 P. No. 250)				
	RATE ANALYSIS	411.961	25.00	sqm	10299.00
33	Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple point shead 1.2 mt. long (Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia. of required length with M.S. round base				
	RATE ANALYSIS	15.000	2132.00	RMT	31980.00
34	ADA compliant modular Multilingual and tactile Emergency evacuation map of each floor indicating the current position of the viewer saying "YOU ARE HERE" of 15 mm height letter size. (S.S.R. I.No. 51.74 P. No. 261)				
	RATE ANALYSIS	4.000	19750.00	Nos.	79000.00
			TOTAL Rs.		6597023
35	Laboratory test of construction material				
	1) BASIC TEST OF AGGREGATE				
	a) Water Absorption, Specific Gravity, Impact Value, Crushing Value.	1.00	2600.00	Nos.	2600.00
	b) Sieve Analysis.	1.00	690.00	Nos.	690.00

ABSTRACT SHEET

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
	c) Abrasion Value.	1.00	1170.00	Nos.	1170.00
	d) Flakiness Index & Elongation Index.	1.00	850.00	Nos.	850.00
2) BRICKS					
	Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	1.000	2175.00	Nos.	2175.00
3) CONCRETE					
	a) Compressive Strength OF C.C. Cube (Set of 3 cubes).	1.000	690.00	Nos.	690.00
	b) Concrete Mix Design (With all Tests on basic materials)	1.000	13755.00	Nos.	13755.00
4) STEEL					
	Steel bar testing upto 16 mm (set of 3 bars)(Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress.)	1.000	1275.00	Nos.	1275.00
				TOTAL Rs.	23205.00

Pangave

S. S. Pangave

(B.E. Civil)

Consulting Civil Engineer

T. P. Latur / 643 / 2019

Mob. 8552085000

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON , DIST. BEED

RATE ANALYSIS AS PER PWD SSR 2021-22

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
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 & stacking and spreading as directed, (S.S.R. OF 2021-22 I.No. 21.02 P.No. 115)			193.00
	TOTAL RATE Rs.			193.00 PerCu.M.
2	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 (S.S.R. I.No. 21.06 P.No. 115)			212.00
	TOTAL RATE Rs.			212.00 PerCu.M.
3	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, formwork, laying/pumping, compacting, (S. e-S.S.R. I.No. 24.01 P.No. 131			5538.00
	ADD LEAD CHARGES FOR CEMENT	0.22000	148.81	32.74
	ADD LEAD CHARGES FOR SAND	0.47000	973.59	457.59
	ADD LEAD CHARGES FOR CR METAL	0.24000	355.50	85.32
	ADD LEAD CHARGES FOR 40MM METAL CB	0.70000	340.69	238.48
	@ADD DIFF.COST FOR SAND	0.47000	825.00	387.75
	@ADD DIFF.COST FOR 20MM METAL	0.24000	174.00	41.76
	@ADD DIFF.COST FOR 40MM METAL CB	-0.70000	141.00	-98.70
	TOTAL RATE Rs.			6682.94 PerCu.M.
4	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 (S- S.S.R. I.No. 25.11, P.No. 133)			6666.00
	ADD LEAD CHARGES FOR CEMENT	0.35000	148.81	52.08
	ADD LEAD CHARGES FOR SAND	0.44000	973.59	428.38
	ADD LEAD CHARGES FOR CR METAL	0.33000	355.50	117.32
	@ADD DIFF.COST FOR SAND	0.44000	825.00	363.00
	@ADD DIFF.COST FOR 20MM METAL	0.22000	174.00	38.28
	@ADD DIFF.COST FOR 12MM METAL	0.11000	174.00	19.14
	@ADD DIFF.COST FOR 40MM METAL CB	-0.56000	141.00	-78.96
	TOTAL RATE Rs.			7605.24 PerCu.M.
5	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap /granite/quartzite/gneiss metal for R.C.C.columns as per detailed designs and drawing or as directed including centering,formwork,cover blocks (S- S.S.R. I.No. 25.31, P.No. 134)			12987.00
	ADD LEAD CHARGES FOR CEMENT	0.30000	148.81	44.64
	ADD LEAD CHARGES FOR SAND	0.44000	973.59	428.38
	ADD LEAD CHARGES FOR CR METAL	0.33000	355.50	117.32
	@ADD DIFF.COST FOR SAND	0.44000	825.00	363.00
	@ADD DIFF.COST FOR 20MM METAL	0.22000	174.00	38.28
	@ADD DIFF.COST FOR 12MM METAL	0.11000	174.00	19.14
	TOTAL RATE Rs.			13997.76 PerCu.M.
6	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/quartzite/gneiss metal for R.C.C beams and lintels as per detailed designs and drawings or as directed including			

RATE ANALYSIS AS PER PWD SSR 2021-22

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE	
	{ S- S.S.R. I.No. 25.50, P.No. 135)			11483.00	
	ADD LEAD CHARGES FOR CEMENT	0.35000	148.81	52.08	
	ADD LEAD CHARGES FOR SAND	0.42500	973.59	413.78	
	ADD LEAD CHARGES FOR CR METAL	0.85000	355.50	302.18	
	@ADD DIFF.COST FOR SAND	0.42500	825.00	350.63	
	@ADD DIFF.COST FOR 20MM METAL	0.57000	174.00	99.18	
	@ADD DIFF.COST FOR 12MM METAL	0.28000	174.00	48.72	
	TOTAL RATE Rs.			12749.57	PerCu.M.
7	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/ quartzite/gneiss metal for R.C.C. slab sand landings as per detailed designs and drawings including centering,formwork, cover blocks, (S.S.R. I.No. 25.70, P.No. 135)			13943.00	
	ADD LEAD CHARGES FOR CEMENT	0.35000	148.81	52.08	
	ADD LEAD CHARGES FOR SAND	0.42500	973.59	413.78	
	ADD LEAD CHARGES FOR CR METAL	0.85000	355.50	302.18	
	@ADD DIFF.COST FOR SAND	0.42500	825.00	350.63	
	@ADD DIFF.COST FOR 20MM METAL	0.57000	174.00	99.18	
	@ADD DIFF.COST FOR 12MM METAL	0.28000	174.00	48.72	
	TOTAL RATE Rs.			15209.57	PerCu.M.
8	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 designs and drawings including centering,formwork,cover blocks, compaction, curing,finishing and roughening the surface if special (S.S.R.I.No. 26.05, P.No. 137)			13111.00	
	ADD LEAD CHARGES FOR CEMENT	0.35000	148.81	52.08	
	ADD LEAD CHARGES FOR SAND	0.42500	973.59	413.78	
	ADD LEAD CHARGES FOR CR METAL	0.85000	355.50	302.18	
	@ADD DIFF.COST FOR SAND	0.42500	825.00	350.63	
	@ADD DIFF.COST FOR 20MM METAL	0.57000	174.00	99.18	
	@ADD DIFF.COST FOR 12MM METAL	0.28000	174.00	48.72	
	TOTAL RATE Rs.			14377.57	PerCu.M.
9	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, rowels, chajja, lintels, parapet coping (S.S.R. I.No.26.33, P.No. 139)			71778.00	
	ADD LEAD CHARGES FOR STEEL	1.00000	148.81	148.81	
	TOTAL RATE Rs.			71926.81	PerM.T.
10	Providing soling using 80mm. size trap metal in 15cm. layer including filling voids with crused sand/grit, ramming, watering etc. complete. Spec. no. As directed (S.S.R. I.No.21.40 P.No. 118)			1322.00	
	ADD LEAD CHARGES FOR METAL	1.00000	355.50	355.50	
	TOTAL RATE Rs.			1677.50	PerCU.M.
11	Filling in plinth and floors with contractors material/ brought from out side and approved by Engineer incharge in layers of 15 cm to 20 cm including watering (S.S.R.I.No. 21.37, P.No. 117)			550.00	
	ADD LEAD CHARGES FOR MURUM-HARD	1.00000	287.34	287.34	
	ADD DIFF.COST FOR MURUM-HARD	1.00000	37.00	37.00	
	TOTAL RATE Rs.			874.34	PerCu.M.
12	Providing masonry with conventional / Indian Standard type bricks 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 unexposed (S.S.R.I.No. 27.01, P.No.144			7343.00	

RATE ANALYSIS AS PER PWD SSR 2021-22

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE	
	ADD LEAD CHARGES FOR CEMENT	0.35000	148.81	52.08	
	ADD LEAD CHARGES FOR SAND	0.42500	973.59	413.78	
	ADD LEAD CHARGES FOR BRICKS	0.47500	1771.32	841.38	
	@ADD DIFF.COST FOR SAND	0.32000	825.00	264.00	
	ADD DIFF.COST FOR BRICKS	475.000	0.50	237.50	
	TOTAL RATE Rs.			9151.74	PerCu.M.
13	Providing masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and (S.S.R.I.No. 27.05, P.No. 144)			7570.00	
	ADD LEAD CHARGES FOR CEMENT	0.35000	148.81	52.08	
	ADD LEAD CHARGES FOR SAND	0.42500	973.59	413.78	
	ADD LEAD CHARGES FOR BRICKS	0.47500	1771.32	841.38	
	@ADD DIFF.COST FOR SAND	0.32000	825.00	264.00	
	ADD DIFF.COST FOR BRICKS	475.000	0.50	237.50	
	TOTAL RATE Rs.			9378.74	PerCu.M.
14	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 (S.S.R.I.No. 32.01, P.No. 153)			191.00	
	ADD LEAD CHARGES FOR CEMENT	0.01000	148.81	1.49	
	ADD LEAD CHARGES FOR SAND	0.02000	973.59	19.47	
	@ADD DIFF.COST FOR SAND	0.02000	825.00	16.50	
	TOTAL RATE Rs.			228.46	PerSq.M.
15	Providing internal cement plaster 20 mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including (S.S.R. I. No. 32.03 P. No. 153)			359.00	
	ADD LEAD CHARGES FOR CEMENT	0.01000	148.81	1.49	
	ADD LEAD CHARGES FOR SAND	0.02000	973.59	19.47	
	@ADD DIFF.COST FOR SAND	0.02000	825.00	16.50	
	TOTAL RATE Rs.			396.46	PerSq.M.
16	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 (S.S.R. I. No. 32.11 P. 153)			599.00	
	ADD LEAD CHARGES FOR CEMENT	0.01000	148.81	1.49	
	ADD LEAD CHARGES FOR SAND	0.02000	973.59	19.47	
	@ADD DIFF.COST FOR SAND	0.02000	825.00	16.50	
	TOTAL RATE Rs.			636.46	PerSq.M.
17	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 necessaryrefilling with bitumen etc. complete. (S.S.R. I. No. 33.30 P. 158)			746.00	
	ADD LEAD CHARGES FOR CEMENT	0.01000	148.81	1.49	
	ADD LEAD CHARGES FOR SAND	0.02000	973.59	19.47	
	ADD LEAD CHARGES FOR CR METAL	0.02000	355.50	7.11	
	@ADD DIFF.COST FOR SAND	0.02000	825.00	16.50	
	ADD DIFF.COST FOR CR METAL	0.02000	174.00	3.48	
	TOTAL RATE Rs.			794.05	PerSq.M.

RATE ANALYSIS AS PER PWD SSR 2021-22

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
18	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. (S.S.R. I. No. 32.34 P. 155)			11.00
	TOTAL RATE Rs.			11.00 PerSq.M.
19	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coat including scaffolding, preparing the surfaces. (S.S.R.I.No. 36.11, P. No. 167)			43.00
	TOTAL RATE Rs.			43.00 PerSq.M.
20	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 (S.S.R.I.No. 35.26, P. No. 165)			238.00
	TOTAL RATE Rs.			238.00 PerSq.M.
21	Providing & constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels (S.S.R. I.No. 42.10, P.No. 200)		-	12348.00
	ADD LEAD CHARGES FOR CEMENT	0.35000	148.81	52.08
	ADD LEAD CHARGES FOR SAND	0.42500	973.59	413.78
	@ADD DIFF.COST FOR SAND	0.32000	825.00	264.00
	ADD DIFF.COST FOR BRICKS	475.000	0.50	237.50
	TOTAL RATE Rs.			13315.36 PerSq.M.
22	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement (S.S.R. I.No.33.18 P. No. 157)			1493.00
	ADD LEAD CHARGES FOR CEMENT	0.01250	148.81	1.86
	ADD LEAD CHARGES FOR SAND	0.03300	973.59	32.13
	@ADD DIFF.COST FOR SAND	0.03300	825.00	27.23
	TOTAL RATE Rs.			1554.22 PerSq.M.
23	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and (S.S.R. I.No.39.68 P. No. 188)			3107.00
	TOTAL RATE Rs.			3107.00 PerSq.M.
24	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9mm with lock plate of 3.15mm thickness reinforced with 35x35x5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S.channel section of depth and thickness as per the S.S.R. I.No. 38.05 P. No. 171			4730.00
	TOTAL RATE Rs.			4730.00 SQM
25	Providing and fixing self supporting steel roofing system for a Godown or a like made up of structural grade steel sheet of 912 millimeter width (tolerance +/- 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels. The interlocking (S.S.R. I.No. 38.44 P. No. 231)			8680.00
	TOTAL RATE Rs.			8680.00 NOS

RATE ANALYSIS AS PER PWD SSR 2021-22

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
26	Providing and fixing 45 cm wide mild steel ladder of 40mmx6mm mild steel flat stringers and steps of 18 mm dia. Mild steel bar for water tank including fixing itin(1:2:4)M-15 cement concrete block 60cm x 30cm (S.S.R. I.No. 41.56 P. No. 198)			1151.00
	TOTAL RATE Rs.			1151.00 RMT
27	Conveying materials obtained from excavation 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 (S.S.R. I.No. 2.26 P. No. 24)			359.00
	TOTAL RATE Rs.			359.00 NOS
28	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 (S.S.R. I.No. 21.24 P. No. 117)			94.00
	TOTAL RATE Rs.			94.00 sqm
29	Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws and (S.S.R. I.No. 38.05 P. No. 171)			1042.00
	TOTAL RATE Rs.			1042.00 sqm
30	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including (S.S.R. I.No. 23.02 P. No. 129)			85585.00
	TOTAL RATE Rs.			85585.00 sqm
31	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete. (S.S.R. I.No. 2.31 P. No. 24)			19.00
	TOTAL RATE Rs.			19.00 sqm
32	Compacting the subgrade/gravel/sizemetal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. (S.S.R. I.No. 50.61 P. No. 250)			25.00
	TOTAL RATE Rs.			25.00 sqm
33	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia.1.2 mm thick with			2132.00
	TOTAL RATE Rs.			2132.00 RMT
34	ADA compliant modular Multilingual and tactile Emergency evacuation map of each floor indicating the current position of the viewer saying "YOU ARE HERE" of 15 mm height letter sin red with white bac Kilogram round, indicating the emergency exits, locations of fire (S.S.R. I.No. 51.74 P. No. 261)			19750.00
	TOTAL RATE Rs.			19750.00 NOS

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON , DIST. BEED

LEAD CHART (AS PER PWD SSR-2021-22)

SR. NO.	MATERIAL	TYPE OF MATERIAL	LOCATION OF QUARRY	LEAD IN KM.	LEAD CHARGES	INITIAL LEAD CHARGES	NET LEAD CHARGES
1	CEMENT	MANUAL	MAJALGAON	5.00	148.81	0.00	148.81
2	SAND	MACHINE	SHAHAGAD	70.00	973.59	0.00	973.59
3	CR METAL	MACHINE	LOCAL	15.00	355.50	0.00	355.50
4	40MM METAL CB	MACHINE	LOCAL	15.00	340.69	0.00	340.69
5	STEEL	MANUAL	MAJALGAON	5.00	148.81	0.00	148.81
6	BRICKS	MANUAL	LOCAL	45.00	1771.32	0.00	1771.32
7	MURUM-HARD	MACHINE	GAIRAN	10.00	287.34	0.00	287.34
8	GRANITE	MANUAL	MAJALGAON	5.00	14.88	0.00	14.88

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON , DIST. BEED

DIFF.COST OF MATERIAL

SR. NO.	MATERIAL	RATE AS PER SSR OF 2021-22.	MARKET RATE	EXCESS	LESS	REMARKS/ EFFECTIVE DATE
1	SAND	1575.00	2400.00	825.00	0.00	Rate As On
2	20MM METAL	996.00	1170.00	174.00	0.00	Rate As On
3	12MM METAL	996.00	1170.00	174.00	0.00	Rate As On
4	40MM METAL CB	991.00	850.00	0.00	141.00	Rate As On
5	BRICKS	8.00	8.50	0.50	0.00	Rate As On
6	MURUM-HARD	288.00	325.00	37.00	0.00	Rate As On

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON, DIST. BEED

ROYALTY STATEMENT

SR. NO.	ITEM OF WORK	EXECUTE QUANTITY	NATURAL SAND		CEMENT IN BAGS		METAL		RUBBLE		MURUM	
			FACTOR	QTY.	FACTOR	QTY.	FACTOR	QTY.	FACTOR	QTY.	FACTOR	QTY.
1	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and	74.973	0.4700	35.24	4.40	329.88						
2	Providing and laying in situ/Ready Mix cement concrete M-20 of trap/ granite/quartzite/gneiss	33.480	0.4250	14.23	7.00	234.36						
3	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap	14.861	0.4250	6.32	7.00	104.03						
4	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/quartzite/gneiss metal for R.C.C.	22.746	0.4250	9.67	7.00	159.22						
5	Providing and laying Cast in situ /Ready Mix cement concrete M20 of trap/granite/ quartzite/gneiss metal for R.C.C. slab sand	2.820	0.4250	1.20	7.00	19.74						
6	Providing and laying Cast in situ /Ready Mix cement concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C.	4.050	0.4250	1.72	7.00	28.35						
7	Providing soling using 80mm. size trap metal in 15cm. layer including filling voids with crushed sand/grit, ramming, watering etc. complete.	62.805					1.16	72.85				
8	Filling in plinth and floors with contractors material/ brought from out side and approved by Engineer incharge in layers of 15 cm to 20	460.567									1.000	460.567
9	Providing masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in	20.017	0.3200	6.41	1.58	31.63						
10	Providing masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding complete.	31.426	0.3200	10.06	1.58	49.65						
11	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	64.125	0.0150	0.96	0.17	10.90						
12	Providing internal cement plaster 20 mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces in all	218.541	0.0150	3.28	0.17	37.15						
13	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including basement of 15	311.706	0.0150	4.68	0.22	68.58						

Sub Work II : Internal Road

1	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with	68.09					1.32	89.87					
2	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc.	89.87					1.32	118.63					
3	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc.	59.91					1.32	79.09					
4	Supplying hard murum/ kankar at the road site, including conveying and stacking	38.58							1.20	46.30			
5	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement	49.82			1.70	84.69					1.00	49.82	
6	Supplying & spreading Hard murum for cushioning of R.C.C pipe including watering	27.00							1.20	32.40			
7	Providing earth work in embankment with approved materials obtained from other	136.17							1.20	163.40			
				Total	93.746			1158.183		360.445		242.101	510.387

PRO - CON AGRO PRODUCER COMPANY LIMITED
SURVEY NO.- 23, AT BHATWADGAON, TQ. MAJALGAON , DIST. BEED

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON , DIST. BEED

Royalty Charges Recovery Statements

Sr. No	Particulars	Required Quantity in Cum	Royalty Factor	Total Rate	Amount
1	SAND	93.75		237.370	22252.58
2	METAL Hand broken	360.44		216.180	77920.97
3	MURUM	510.39		216.180	110335.46
					210509.00

Pangave

S. S. Pangave
(B.E. Civil)
Consulting Civil Engineer
T. P. Latur / 643 / 2019
Mob. 8552085000

PRO - CON AGRO PRODUCER COMPANY LIMITED
SURVEY NO.- 23, AT BHATWADGAON, TQ. MAJALGAON , DIST. BEED

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON , DIST:BEED

S.W. II - INTERNAL ROADS & CROSS DRAINAGE

MEASUREMENT SHEET

Item No.	Description of Items	NOS.				LENGTH	BREDTH	DEPTH / HIGHT	TOTAL QUANTITY	UNIT
	New Road									
	Long Side	1	x	1	X	75.65	X	6.00	X	= 453.90
1	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including cum dressing section to the required grade, camber and side slopes and conveying the excavated materials outside the complex including all leads & lifts.									cum
	Road formation-New Road									
	Long Side	1	x	1	X	75.65	X	6.00	X	0.6 = 272.34
									Total	272.34
									say	272.34
2	Picking the road surface including sectioning etc. complete (WBM-surface.)									sqm
	Existing road									
	Long Side	0	x	0	X	0.00	X	0.00	X	6 = 0.00
	Short Side	0	x	0	X	0.00	X	0.00	X	6 = 0.00
									Total	0.00
									say	0.00
3	Excavation for roadway in hard murum and boulder including dressing section to the cum 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.									
	NEW ROAD									
	Long Side	1	x	1	X	75.65	X	6.00	X	=
	Short Side	1	x	1	X	75.65	X	6.00	X	=
									Total	Net 1.00
									say	1.00 cum
4	Excavation for roadway in soft rock, 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 or stacking									cum
	Road formation									
	Provision									0.00
									Total	Net 1.00
									say	1.00 cum
5	Excavation for roadway in hard rock by controlled blasting 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 stocking as directed.									cum
	Road formation									
	Provision									1.00
									Total	Net 1.00
									say	1.00 cum
6	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.									cum
	Road formation : New Road									
	Long Side	1	x	1	X	75.65	X	6.00	X	0.15 = 68.09
									Total	Net 68.09
									say	68.09 cum
7	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc. complete.									cum
	New Road									
	Long Side	1	x	1	X	75.65	X	6.00	X	0.15 = 68.09

										Total	68.09	
											21.79	
										Say	89.87	
										Say	89.87	cum
8	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc.											cum
	New Road											
	Long Side				75.65	X	6.00	X	0.10		45.39	
										Total	45.39	
										Add for Compaction factor 32%	14.52	
										Total	59.91	
										Say	59.91	cum
9	Spreading 80 mm trap stone metal including sectioning as directed etc. complete.											
	Qty. as per item 7											
											89.87	
										Total	89.87	
										Say	89.87	cum
10	Spreading 40 mm trape stone metal including sectioning as directed etc. complete.											
	Qty. as per item 8											
											59.91	
										Total	59.91	
										Say	59.91	cum
11	Supplying hard murum/ kankar at the road site, including conveying and stacking complete.											cum
	New Road											
	Long Side	1	x	1	X	75.65	X	6.00	X	0.05	=	22.70
	For side shoulder											
	Long Side	1	x	1	X	75.65	X	0.50	X	0.25	=	9.46
										Total	32.15	
										Add for Compaction 20%	6.43	
										Total	38.58	
										say	38.58	
12	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete.											
	Qty. as per item 11											
											38.58	
										Total	38.58	
										say	38.58	
13	Compacting oversize metal layer with H. M. with power roller including artificial watering & necy. Labour etc. complete											sqm
	For Rubble soiling	1	X	453.90							453.90	
	For 80mm	1	X	453.90							453.90	
	For 40mm	1	X	453.90							453.90	
										Total	1361.70	
										say	1361.70	
14	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete											sqm
	For side Shoulder											
	Long Side I-J	1		1	X	75.65	X	0.50		=	37.83	
										Total	37.83	
										say	37.83	Sqm
15	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers 100% crusher broken metal with conical crusher plant heating and spraying the bitumen of specified grade @ 2 Kilogram/Square Metre, spreading 12 mm.size chips compacting with three wheel static roller											Sqm
	New Road											
	Long Side	1	x	1	X	75.65	X	6.00		=	453.90	
										Total	453.90	
										Say	453.90	Sqm
16	Providing and applying tack coat on the prepared surface heating by fames in Boiler and spraying bitumen set footed in bitumen boller on B.T. surface 2.5 kg/10 sqm.(VG-30 bulk bitumen rates are considered to arrive at rates)											Sqm
	New Road											
	Long Side I-J	1	x	1	X	75.65	X	6.00		=	453.90	
										Total	453.90	
										Say	453.90	Sqm
17	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder @ 1.56 Kg/Sqm transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but excluding prime / tack and Seal coat. For Bitumen of specified grade-											sq, m

	for existing Road & New road	1.00	x	453.90	x					=	453.90	
										Total	=	453.90
										Say	=	453.90 sqm
18	9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of appropriate capacity crushed stone chipping 6.7 mm size and penetration bitumen of specified grade @ 1.2 kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT etc. complete. (VG- 30 bulk bitumen rates are considered to arrive at rates)											Sqm
		1.00	x	453.90	x						=	453.90
										Total	=	453.90
										Say	=	453.90 sqm
19	Providing & fixing R. C. C. 1:2:4 guard stones as per type design including painting numbering fixing in std. Size C. C. 1:4:8 block complete.											Nos
	Lumpsum considered											75.00
										Total		75.00
										Say		75.00 Nos
PART II :- CROSS DRAINAGE WORKS												
20	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
	CD Works	1	x	2	x	75.65	x	1.50	x	0.75	=	170.21
	CD work Head wall	1	x	2	x	2.00	x	0.75	x	0.15	=	0.45
										Total		170.66
										Say		170.66 cum
21	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
	C D Works	1	x	2	x	75.65	x	1.50	x	0.15	=	34.04
	App. CD work Head wali	1	x	2	x	2.00	x	0.75	x	0.15	=	0.45
										Total		34.49
										Say		34.49 cum
22	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
	C D Works	1	x	2	x	75.65	x	1.50	x	0.10	=	22.70
	App. CD work Head wall	1	x	2	x	2.00	x	0.75	x	0.10	=	0.30
										Total		23.00
										Say		23.00 cum
23	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming											cum
										Total		1.00
										say		1.00
24	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 Tyne mixer/concrete Batch mix plant (Pan mixer) etc complete With fine aggregate											cum
	C D Works	1	x	2	x	75.65	x	1.50	x	0.10	=	22.70
	App. C D work Head wall	1	x	2	x	2.00	x	0.75	x	0.10	=	0.30
										Total		23.00
										say		23.00
25	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. (Crushed sand VSI)											cum
	CD Works	2	x	2	x	75.65	x	0.45	x	0.35	=	47.66
	App. CD work Head wall	1	x	2	x	2.00	x	0.45	x	1.20	=	2.16
										Total		49.82
										say		49.82

26	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.	kg											
	21 kgs/cum	13.62	1		210		2859.57						
							Total	2859.57					
							say	2.86					
27	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 slab	cum											
		1	2	75.65	0.6		13.62						
							Total	13.62					
							say	13.62					
28	Providing flush grooved pointing with cement mortar 1:3 for brick work including scaffolding and curing etc. complete.	sqm											
		2	2	2		0.65	5.20						
		2	2	2		0.65	5.20						
						Total	5.20						
						say	5.20						
29	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	Rmt											
	ISNP III Class Pipe	1	1	35			35.00						
						Total	35.00						
						say	35.00						
30	Supplying & spreading Hard mummum for cushioning of R C C pipe including watering ramming & leveling etc complete.												
	ISNP III Class Pipe	1	1	20	1.5	0.9	27.00						
						Total	27.00						
						say	27.00						
31	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. (Crushed sand VSI Grade)												
	App cd work head wall	1	2	2	0.45	0.1	0.18						
	Above C.C. Pipe	1	2	10	1.5	0.15	0.18						
						Total	0.18						
						say	0.18						
32	Providing earth work in embankment with approved materials obtained from departmental land upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller to achieve not less than 97 % of standard proctor density etc. complete. (Material obtained from departmental Land)	cum											
	Provision						20.00						
						Total	20.00						
						say	20.00						
33	Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)	cum											
	Road formation New Road												
	Long Side I-J	1	x	1	X	75.65	X	6.00	X	0.30	=	136.17	
										Net		136.17	
										say		136.17	cum
34	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 over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.	cum											
	Provision											10.00	
										Net		10.00	
										say		10.00	cum
35	Conveying the materials obtained from excavation including all lifts, 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 as directed.	cum											
	Qty. as per item No- 1											272.34	
										Total		272.34	
										say		272.34	cum

PRO - CON AGRO PRODUCER COMPANY LIMITED
SURVEY NO.- 23, AT BHATWADGAON, TQ. MAJALGAON, DIST. BÉED

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MA

S.W. II - INTERNAL ROADS & CROSS DRAINAGE

ABSTRACT SHEET (Based on PWD SSR 2021-22 & Market rates)

SR. NO	DESCRIPTION OF ITEM	QUANTIT Y	UNI T	I.N./ P.N	BASIC RATE	ALL LEAD & ROYALTY	For Scada	TOTAL	Add % Q.C. Charge s 0.005	TOTAL OF RATES 6 TO 10	AMOUNT
PART-I : INTERNAL ROADS											
1	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including d	272.34	cum	2.11/23	104.00			104.00		104.00	28323.36
2	Picking the road surface including sectioning etc. complete (WBM surface.)	0.00	Sqm	2.32/25	28.00			28.00		28.00	0.00
3	Excavation for roadway in hard murum and boulder including dressing section to the re	1.00	cum	2.13/23	121.00			121.00		121.00	121.00
4	Excavation for roadway in soft rock, including dressing section to the required grade, c	1.00	cum	2.14/23	157.00			157.00		157.00	157.00
5	Excavation for roadway in hard rock by controlled blasting including dressing section to	1.00	cum	2.15/23	250.00			250.00		250.00	250.00
6	Providing soiling using 80 mm size trap metal in 15 cm. layer including filling voids with	68.09	cum	21.40/118	1322.00			1322.00		1322.00	90008.37
7	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc.	89.87	cum	50.56/250	700			700.00		700.00	62910.54
8	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc.	59.91	cum	50.55/250	780			780.00		780.00	46733.54
9	Spreading 80 mm trap stone metal including sectioning as directed etc. complete.	89.87	cum	50.58/250	85.00			85.00		85.00	7639.14
10	Spreading 40 mm trape stone metal including sectioning as directed etc. complete.	59.91	cum	50.58/250	85.00			85.00		85.00	5092.76
11	Supplying hard murum/ kankar at the road site, including conveying and stacking compl	38.58	cum	2.29a/24	398.00			398.00		398.00	15355.32
12	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	38.58	cum	2.30/24	74.00			74.00		74.00	2855.01
13	Compacting oversize metal layer with H. M. with power roller including artificial waterin	1361.70	sqm	50.59/250	27.00			27.00		27.00	36765.90
14	Compacting the hard murum side widths including laying in layers on each side with vib	37.83	sqm	2.31/24	19.00			19.00		19.00	718.68
15	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road su	453.90	Sqm	RA	223.14			223.14		223.14	101283.25
16	Providing and applying tack coat on the prepared surface heating by fames in Boiler an	453.90	Sqm	RA	14.73			14.73		14.73	6685.95
17	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness compose	453.90	sqm	RA	118.82			118.82		118.82	53932.40
18	9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of	453.90	sqm	RA	84.32			84.32		84.32	38272.85
19	Providing & fixing R. C. C. 1:2:4 guard stones as per type design including painting num	75.00	Nos	11.27/63	963			963.00		963.00	72225.00


S. S. Pangave
 (D.E. Civil)
 Consulting Civil Engineer
 T. P. Latur / 643 / 2019
 Mob. 8552085000

PART II :- CROSS DRAINAGE WORKS

20	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, includi	170.66	cum	21.02/115	193.00			193.00		193.00	32937.96
21	Excavation for foundation in hard murum including removing the excavated material upt	34.49	cum	21.06/115	212.00			212.00		212.00	7312.52
22	Excavation for foundation in Hard murum including removing the excavated material up	23.00	cum	21.07/115	403.00			403.00		403.00	9266.99
23	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including	1.00	cum	21.20/116	1223.00			1223.00		1223.00	1223.00
24	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ qu	23.00	cum	24.01/131	5538		-120.00	5418.00		5418.00	124586.91
25	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in ceme	49.82	cum	28.01/146	4757.00			4757.00		4757.00	236993.74
26	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters f	2.86	MT	26.33/139	71778.00			71778.00		71778.00	205254.22
27	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / qua	13.62	cum	25.50/135	11483.00		-120.00	11363.00		11363.00	154729.97
28	Providing flush grooved pointing with cement mortar 1:3 for brick work including scaffol	5.20	sqm	32.17/153	172.00			172.00		172.00	894.40
29	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diame	35.00	Rmt	11.09/62	2678			2678.00		2678.00	93730.00
30	Supplying & spreading Hard murum for cushioning of R C C pipe including watering r.	27.00	cu m	2.27/24	201.00			201.00		201.00	5427.00
31	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to hea	0.18	cu m	11.30/62	9276.00			9276.00		9276.00	1669.68
32	Providing earth work in embankment with approved materials obtained from departmen	20.00	cum	2.27/24	201.00			201.00		201.00	4020.00
33	Providing earth work in embankment with approved materials obtained from other sourc	136.17	cum	2.28/24	546.00			546.00		546.00	74348.82
34	Conveying materials obtained from road cutting including all lifts, laying in layers of 20c	10.00	cum	2.25/24	177.00			177.00		177.00	1770.00
35	Conveying the materials obtained from excavation including all lifts, laying in layers, bre	272.34	cum	5km/lead	220.06			220.06		220.06	59931.14
TOTAL										1583426.39	

Pangave
S. S. Pangave
 (B.E. Civil)
 Consulting Civil Engineer
 T. P. Latur / 643 / 2519
 Mob. 8552085000

PRO - CON AGRO PRODUCER COMPANY LIMITED
SURVEY NO.- 23, AT BHATWADGAON, TQ. MAJALGAON, DIST. BEED

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN
 SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON, DIST. BEED

S.W. III - Electrification OF 1/880 MT W.H.

MEASUREMENT SHEET

SR. NO.	Description of Items	NO.	LENGTH	BREDTH	DEPTH	TOTAL	UNIT
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-I T/CU						Running Meter
	For WH 880 MT	1	X 1 X 15	X	1	X 1 = 15.00	
						Total 15.00	
						Say 15.00	
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-EXNCTR						Running Meter
	For WH 880 MT	1	X 1 X 15	X	1	X 1 = 15.00	
						Total 15.00	
						SAY 15.00	
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						Running Meter
	For WH 880 MT	1	X 1 X 15	X	1	X 1 = 15.00	
						Total 15.00	
						Say 15.00	
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.						Running Meter
	For WH 880 MT	1	X 65 X 1	X	1	X 1 = 65.00	
						Total 65.00	
						Say 65.00	
5	Supplying & erecting weatherproof powder coated distribution board 4 way with 2 x 6/10 Amp S. P. M. C. B. with industrial two pin plug socket 10 A and 3 pin plug top 10 A with top cover necessary connection etc complete with approved make.						Number
	For WH 880 MT	2	X 3 X 1	X	1	X 1 = 6.00	
						Total 6.00	
						Say 6.00	
6	Providing point wiring for street light with PVC unarmoured cable 1100Volt grade ISI mark 3 core 1.5 sqmm stranded / solid copper erected on wall with G. I. Saddle duly painted @ 0,25 m C/C rigidly grouted in the wall with the help of plated screw including 4" x 4" M. S. box 2 way with epoxy painting						Number
	For WH 880 MT	2	X 2 X 1	X	1	X 1 = 4.00	
						Total 4.00	
						Say 4.00	
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.						Number
	For WH 880 MT	2	X 2 X 1	X	1	X 1 = 4.00	
						Total 4.00	
						Say 4.00	
8	Supplying and erecting LED street light fitting suitable for 20 to 25W, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-ODF/FLS						Number
	For WH 880 MT	2	X 2 X 1	X	1	X 1 = 4.00	
						Total 4.00	
						Say 4.00	
9	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB						Number
	For WH 880 MT	1	X 1 X 1	X	1	X 1 = 1.00	
						Total = 1.00	
						SAY = 1.00	
10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP						Number
	For WH 880 MT	1	X 1 X 1	X	1	X 1 = 1.00	
						Total = 1.00	

										SAY = 1.00	
11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. EA-EP Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. FA-EP										
	For WH 880 MT	1	X	1	X	1	X	1	X	1	= 1.00
										Total = 1.00	
										SAY = 1.00	
12	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB										
	For WH 880 MT	1	X	1	X	1	X	1	X	1	= 1.00
										Total = 1.00	
										SAY = 1.00	
13	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB										
	For WH 880 MT	1	X	1	X	1	X	1	X	1	= 1.00
										Total = 1.00	
										SAY = 1.00	
14	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead										Square Meter
	For WH 880 MT	1	X	1	X	1	X	1	X	1	= 1.00
										Total = 1.00	
										SAY = 1.00	
15	Supplying and erecting marine plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc. complete.										Square Meter
	For WH 880 MT	1	X	1	X	1	X	1	X	1	= 1.00
										Total = 1.00	
										SAY = 1.00	
16	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted										Number
	For WH 880 MT	1	X	4	X	1	X	1	X	1	= 4.00
										Total = 4.00	
										SAY = 4.00	
17	Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE										Running Meter
	For WH 880 MT	1	X	10	X	1	X	1	X	1	= 10.00
										Total = 10.00	
										SAY = 10.00	
18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE										Running Meter
	For WH 880 MT	1	X	6	X	1	X	1	X	1	= 6.00
										Total = 6.00	
										SAY = 6.00	
19	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete.										Running Meter
	For WH 880 MT	2	X	6	X	1	X	1	X	1	= 12.00
										Total = 12.00	
										SAY = 12.00	
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains										Number
	For WH 880 MT	1	X	2	X	2	X	1	X	1	= 4.00
										Total = 4.00	
										SAY = 4.00	
21	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL										Number
	For WH 880 MT	1	X	2	X	2	X	1	X	1	= 4.00
										Total = 4.00	
										SAY = 4.00	
22	Supplying shockproof type hand lamp with lamp holder, bulb/ lamp 100 W guarded glass and 30 mtr. 3 core PVC flexible cord with hand shield type 3 pin 5 Amp. Plug top.										
	For WH 880 MT	1	X	3	X	2	X	1	X	1	= 6.00
										Total = 6.00	
										SAY = 6.00	
23	Point wiring for independent plug in 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification										
	No: WG-PW/SW										
	For WH 880 MT	1	X	3	X	2	X	1	X	1	= 6.00
										Total = 6.00	
										SAY = 6.00	

24	Power point wiring for geaser / Refrigerator with ISI mark 2 x 2.50 Sq.mm copper PVC insulated wire 1.1 KV grade in PVC casing-caping with double locking arrangement with 1 x 1.00 Sq.mm copper PVC insulated wire for earthing on wall / ceiling with necessary G.I.screws etc. fixed at an internal of not											
	For WH 880 MT	1	X	4	X	2	X	1	X	1	=	8.00
										Total	=	8.00
										SAY	=	8.00
25	Supplying & erecting mains with 2 x 2.5 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - caping 20 mm on wall / ceiling.											RGM
	For WH 880 MT	1	X	4	X	2	X	1	X	1	=	8.00
										Total	=	8.00
										SAY	=	8.00
26	Supplying & erecting main with 2 x 4.00 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - caping on wall / ceiling. Supplying and erecting double pole											RGM
	For WH 880 MT	1	X	4	X	2	X	1	X	1	=	8.00
										Total	=	8.00
										SAY	=	8.00
27	Fuse as per specification no. SW-SWR/BDP.											
	For WH 880 MT	1	X	5	X	2	X	1	X	1	=	10.00
										Total	=	10.00
										SAY	=	10.00
28	Supplying and erecting double pole metal clad switch with HC type fuse and neutral link 240V, 32A on iron / GI frame as per specification no. SW-SWR/MDP.											
	For WH 880 MT	1	X	4	X	2	X	1	X	1	=	8.00
										Total	=	8.00
										SAY	=	8.00
29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 base.											
	For WH 880 MT	1	X	4	X	2	X	1	X	1	=	8.00
										Total	=	8.00
										SAY	=	8.00
30	Supplying and erecting T8 Fluorescent tube day light 1200mm 36 W											NUMBER
	For WH 880 MT	1	X	3	X	2	X	1	X	1	=	6.00
										Total	=	6.00
										SAY	=	6.00
31	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by											
	For WH 880 MT	1	X	4	X	2	X	1	X	1	=	8.00
										Total	=	8.00
										SAY	=	8.00
32	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF											SQ.M.
	For WH 880 MT	1	X	5	X	2	X	1	X	1	=	10.00
										Total	=	10.00
										SAY	=	10.00
33	Supplying and fixing wiremesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The jali cover shall be made from good quality G.I. wire mesh size 25 x 25 (mm)											
	For WH 880 MT	1	X	4	X	2	X	1	X	1	=	8.00
										Total	=	8.00
										SAY	=	8.00
34	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size											
	For WH 880 MT	1	X	3	X	2	X	1	X	1	=	6.00
										Total	=	6.00
										SAY	=	6.00
35	Supplying and erecting street light Wall bracket made from 25 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB											
	For WH 880 MT	1	X	3	X	2	X	1	X	1	=	6.00
										Total	=	6.00
										SAY	=	6.00
36	Supplying & erecting CRCA sheet metal one wayenclosures suitable for DP MCB /TP MCB /FP MCB erected on angle iron/GI frame complete.											Number
	For WH 880 MT	1	X	1	X	1	X	1	X	1	=	1.00
										Total	=	1.00
										SAY	=	1.00
37	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board complete.											Number
	For WH 880 MT	1	X	1	X	1	X	1	X	1	=	1.00
										Total	=	1.00

PRO - CON AGRO PRODUCER COMPANY LIMITED
SURVEY NO.- 23, AT BHATWADGAON, TQ. MAJALGAON, DIST. BEED

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1/880 MT CAPACITY WAREHOUSE WITH ANCILLARY WORKS IN SURVEY NO.- 4, AT KESAPURI SHIVAR, TQ. MAJALGAON, DIST. BEED

S.W.III - Electrification OF W.H. 1/880 MT

Abstract Sheet (Based on PWD Electrical CSR 2021-22 & Market Rates)

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./P.N.	RATE		Add 5% other than Dist.Plac.	Total of 6+7	AMOUNT
					Rs.	Ps.			
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	15.00	Running Meter	7-2-16/129	283.00	14.15	297.15	4457.25	
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-	15.00	Running Meter	16-1-2/239	193.00	9.65	202.65	3039.75	
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	15.00	Running Meter	16-1-1/239	156.00	7.80	163.80	2457.00	
4	Supplying & erecting mains PVC unarmoured cable 1100Volt grade ISI mark 3 core / 2.5 sqmm stranded / solid copper	65.00	Running Meter	RA	125.60	6.28	131.88	8572.20	
5	Supplying & erecting weatherproof powder coated distribution board 4 way with 2 x 6/10 Amp S. P. M. C. B with industrial two pin plug socket 10 A and 3	6.00	Number	RA	1290.00	64.50	1354.50	8127.00	
6	Providing point wiring for street light with PVC unarmoured cable 1100Volt grade ISI mark 3 core 1.5 sqmm stranded / solid copper erected on wall with G. I. Saddle duly painted @ 0.25 m C/C rigidly grouted in the wall	4.00	Number	RA	1223.60	61.18	1284.78	5139.12	
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	4.00	Number	2-10-11/42	230.00	11.50	241.50	966.00	
8	Supplying and erecting LED street light fitting suitable for 20 to 25W, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No	4.00	Number	2-5-2/34	2009.00	100.45	2109.45	8437.80	
9	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	1.00	Number	2-9-4/38	712.00	35.60	747.60	747.60	
10	Providing earthing with galvanized iron earthen plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	1.00	Number	9-1-1/159	4238.00	211.90	4449.90	4449.90	
11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. EA-EP	1.00	Number	9-1-4/159	1355.00	67.75	1422.75	1422.75	
12	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number	5-3-6/94	488.00	24.40	512.40	512.40	
13	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number	5-3-3/94	164.00	8.20	172.20	172.20	
14	Supplying and erecting GI sheet .1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of	1.00	Square Meter	6-1-2/112	2264.00	113.20	2377.20	2377.20	
15	Supplying and erecting marine plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports,	1.00	Square Meter	6-1-14/113	1342.00	67.10	1409.10	1409.10	
16	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame	4.00	Number	RA	4732.00	236.60	4968.60	19874.40	
17	Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	10.00	Running Meter	7-6-1/138	196.00	9.80	205.80	2058.00	
18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	6.00	Running Meter	7-6-2/138	304.00	15.20	319.20	1915.20	
19	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing	12.00	Running Meter	7-6-10/139	227.00	11.35	238.35	2860.20	
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains connection.	4.00	Number	MR	80.00	4.00	84.00	336.00	
21	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. / 2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GI	4.00	Number	7-7-2/139	58.00	2.90	60.90	243.60	
22	Supplying shockproof type hand lamp with lamp holder, bulb/ lamp 100 W guarded glass and 30 mtr. 3 core	6.00	Number	RA	1573.00	78.65	1651.65	9909.90	
23	Point wiring for independent plug in 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required	6.00	Number	1-9-8/17	496.00	24.80	520.80	3124.80	
24	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6 m in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided lugs as per specification no. EC	8.00	Number	RA	466.00	23.30	489.30	3914.40	

25	Supplying & erecting mains with 2 x 2.5 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping 20 mm on wall /	8.00	Running Meter	RA	131.00	6.55	137.55	1100.40
26	Supplying & erecting main with 2 x 4.00 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping on wall / ceiling.	8.00	Running Meter	RA	154.00	7.70	161.70	1293.60
27	Supplying and erecting double pole switch surface type/ flush type 240V, 32A with indicator lamp & fuse as per specification no. SW-SWR/BDP.	10.00	Number	5-1-1/89	177.00	8.85	185.85	1858.50
28	Supplying and erecting double pole metal clad switch with HC type fuse and neutral link 240V, 32A on iron / Gi frame as per specification no. SW-SWR/MDP ..	8.00	Number	5-1-3/89	783.00	39.15	822.15	6577.20
29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 base.	8.00	Number	2-10-9/40	125.00	6.25	131.25	1050.00
30	Supplying and erecting T8 Fluorescent tube day light 1200mm 36 W	6.00	Number	2-10-2/40	44.00	2.20	46.20	277.20
31	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to	8.00	Number	2-10-14/40	626.00	31.30	657.30	5258.40
32	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF	10.00	Square Meter	2-12-2/41	1894.00	94.70	1988.70	19887.00
33	Supplying and fixing wiremesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The jali cover shall be made from good quality	6.00	Number	2-4-10/33	442.00	22.10	464.10	3712.80
34	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden	6.00	Number	2-4-13/33	131.00	6.55	137.55	825.30
35	Supplying and erecting street light Wall bracket made from 25 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	6.00	Number	2-9-3/38	575.00	28.75	603.75	3622.50
36	Supplying & erecting CRCA sheet metal one way enclosures suitable for DP MCB /TP MCB /FP MCB erected on angle	1.00	Number	5-4-23/97	361.00	18.05	379.05	379.05
37	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board complete.	1.00	Number	5-3-24/95	625.00	31.25	656.25	656.25
							Total in Rs.	143021.97


S. S. Pangave
 (B.E. Civil)
 Consulting Civil Engineer
 T. P. Latur / 643 / 2019
 Mob. 8552085000

AREA STATEMENT :-

TOTAL PLOT AREA	4805.00 SQ.M
WAREHOUSE BUILT UP AREA	438.96 SQ.M
DAL MILL SHED BUILT UP AREA	387.66 SQ.M
COOLING AND DRYING PLATFORM BUILT UP AREA	404.40 SQ.M

NAME OF WORK :- CONSTRUCTION OF WAREHOUSE & DAL MILL SHED IN SURVEY NO.- 04, AT KESAPURI SHIVAR, TG. MAJALGAON, DIST. BEED

COMPANY :-

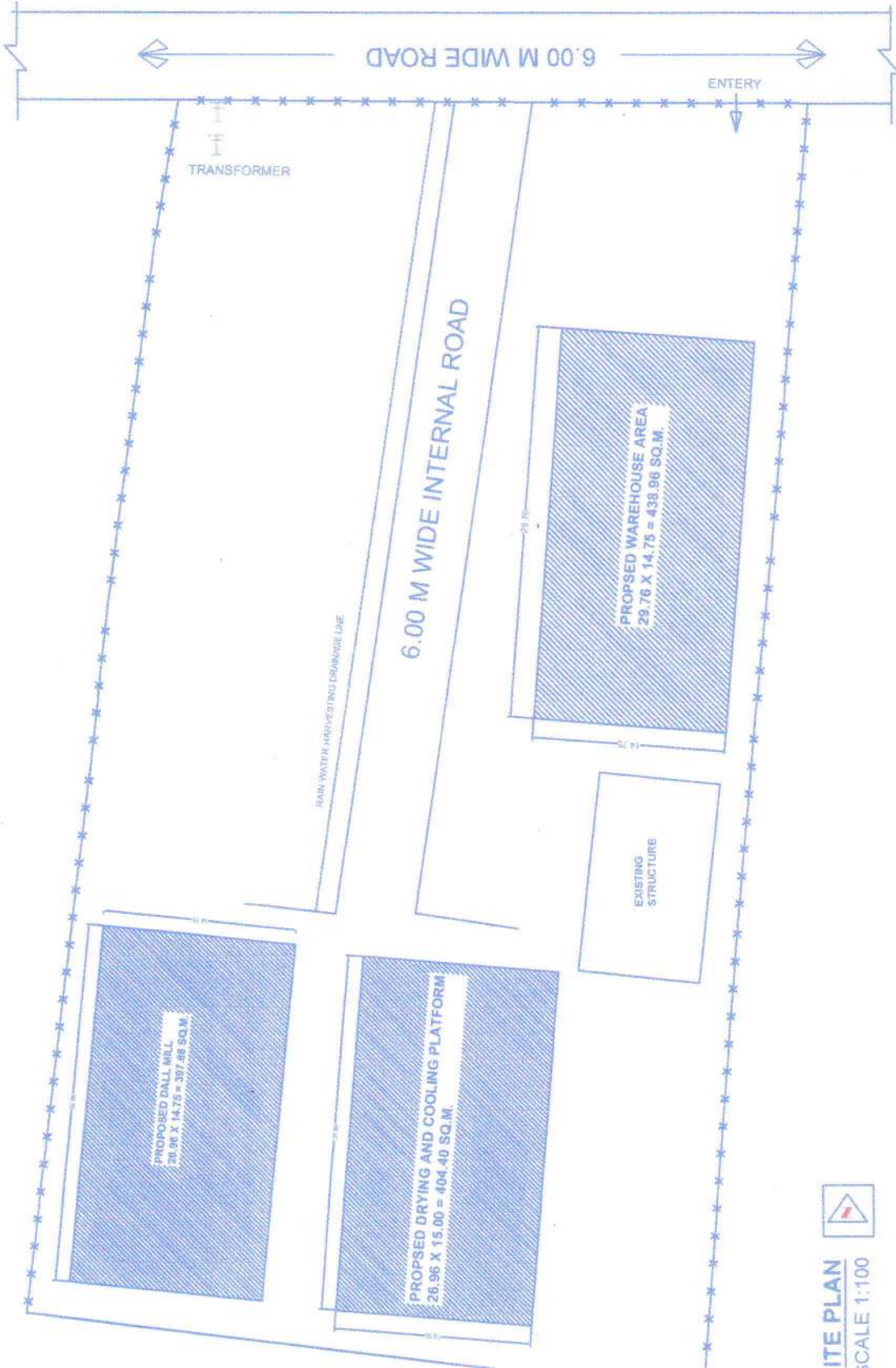
PRO - CON AGRO PRODUCER COMPANY LIMITED

DATE :- 27/01/2022

SCALE :- 1:100

SIGN OF ENGINEER :-

S.S. Pangave
S.S. Pangave
 (BE Civil)
 Consulting Civil Engineer
 T. P. Lohar Road, Majalgaon
 Maharashtra



SITE PLAN
 SCALE 1:100