

DRAWING FOR  
CHANDGAD FARM FRESH FARMER PRODUCER COMPANY LTD CHANDGAD KOLHAPUR

MEASUREMENT SHEET

SUB WORK I : -PROPOSED NEW CONSTRUCTION WORK OF WEAR HOUSE 350 M.T CAPACITY  
CHANDGAD FARM FRESH FARMER PRODUCER COMPANY LTD.

Item Nos	Description of Items	NO.S	LENGTH	BREATH	DEPTH /	TOTAL	Unit
					HIGHT	QUANTITY	
1	<b>Excavation</b> 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.... Item Spec: (Bd.A.1 Page No. 115)						C.um
	COLUMN FOOTNGS	1 X 12 X	1.5	X	1.60 X 1.21	= 34.85	
	BEAMS	1 X 2 X	12.19	X	1.00 X 0.20	= 4.88	
		1 X 2 X	15.24	X	1.00 X 0.20	= 6.10	
					<b>Total</b>	<b>= 45.82</b>	
					SAY	= 46.00	C.um
2	Providing and laying Cast in situ/Ready Mix cement concrete in <b>M-10 of trap/ granitel quartzitel gneiss metal</b> 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)....(INo24-01, PgNo 226) ( STATE SSR ) Item Spec: (Bd. E. 1 Page No. 287)						C.um
	COLUMN FOOTNGS	1 X 14 X	1.5	X	1.60 X 0.10	= 3.36	
	BEAMS	1 X 0 X	12.19	X	1.00 X 0.10	= 0.00	
		1 X 0 X	15.24	X	1.00 X 0.10	= 0.00	
					<b>TOTAL</b>	<b>3.36</b>	
					SAY	= 4.00	C.um
4	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for <b>R.C.C. work in foundations</b> 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 (Natural Sand / Crushed sand VSI Grade finely washed etc						C.um
	COLUMNS FOOTNGS	1 X 12 X	1.3	X	1.5 X 0.45	= 10.18	
					<b>TOTAL</b>	<b>10.18</b>	
					SAY	= 10.18	C.um
5	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for <b>R.C.C. columns</b> as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks compacting and roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)						C.um
	column	1 X 12 X	0.3	X	0.45 X 8.00	= 12.96	
	column	1 X 0 X	0.3	X	0.45 X 10.00	= 0.00	
					<b>TOTAL</b>	<b>12.96</b>	
					SAY	= 12.96	C.um
6	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite /quartzite/ gneiss metal for <b>R.C.C. beams</b> and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc).... (INo25-50, PgNo 234) (STATE SSR ) Item Spec: (Bd.F.6 Page No. 300 and B.7, Page No.38)						C.um
	BEAMS AT GL	1 X 2 X	12.1	X	0.30 X 0.45	= 3.27	

BEAMS AT PL	1	X	2	X	15.24	X	0.30	X	0.45	=	4.11			
	1	X	0	X	12.19	X	0.23	X	0.45	=	0.00			
	1	X	0	X	15.24	X	0.23	X	0.45	=	0.00			
BEAMS AT TIE BEAM	1	X	2	X	12.19	X	0.23	X	0.45	=	2.52			
	1	X	2	X	15.24	X	0.23	X	0.45	=	3.15			
BEAMS AT LL	1	X	2	X	12.19	X	0.23	X	0.23	=	1.29			
	1	X	2	X	15.24	X	0.23	X	0.23	=	1.61			

TOTAL 15.96  
SAY = 15.96 C.um

7 Providing and casting in situ cement concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C. chajja & Ratrack as per detailed designs and drawing or as directed including steel centering, plywood/steel form work, compaction, finishing uneven and honeycombed compaction, to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. As directed by Architect. (Excluding reinforcement, including cover block) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed) Bd.F.9 Page Number 303 and B.7. Page Number38 FLOOR 1 X 2 X 15.24 X 0.60 X 0.10 = 1.83

TOTAL 1.83  
SAY = 1.83 CUM

8 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, linteis pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bass, binding with wires or tack welding and supporting as required complete ..... (INo26-33, PgNo 245) (STATE SSR ) Item Spec: (Bd.F.17, Page No. 306) M.T

TOTAL 7320.00 Kg  
SAY = 7.320 MT

9 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

	1	X	2	X	15.24	X	0.23	X	0.91	=	6.38			
	1	X	2	X	12.19	X	0.23	X	0.91	=	5.10			

Total 11.48  
SAY 12.00 Cum

10 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

	1	X	2	X	15.24	X	0.23	X	4.57	=	32.04			
	1	X	2	X	12.19	X	0.23	X	7.62	=	42.73			
											74.77			
DEDUCTION FOR WINDOW & DOOR	1	X	1	X	1.80	X	0.23	X	2.40	=	0.99			
	1	X	12	X	1	X	0.23	X	0.60	=	1.66			
	1	X	12	X	0.6	X	0.23	X	0.60	=	0.99			
	1	X	0	X	2.74	X	0.23	X	3.65	=	0.00			

3.64  
TOTAL = 71.12  
SAY = 71.12

11 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm, including watering and compaction etc. complete.....(IN021-37, PgNo 201) (STATE SSR ) Item Spec. (Bd. A.11 Page No. 283)

	1	X	1	X	15.24	X	12.19	X	0.91	=	169.06		CUM
											TOTAL	169.06	

C.um

13 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete....(INo32-04. PgNo 268) ( STATE SSR ) Item Spec: (Bd. L.2 Page No. 368) SqM

1	X	2	X	15.24	X	1.0	X	5.79	=	176.48	#REF!
1	X	2	X	12.19	X	1.0	X	8.83	=	215.28	

391.75

DEDUCTION FOR WINDOW & DOOR	1	X	1	X	1.80	X	1.00	X	2.40	=	4.32
	1	X	12	X	1	X	1.00	X	0.60	=	7.20
	1	X	12	X	0.6	X	1.00	X	0.60	=	4.32
	1	X	0	X	2.74	X	1.00	X	3.65	=	0.00
											15.84
											TOTAL = 375.91
											SAY = 375.91

14 Providing sand faced plaster externally in cement mortar using approved screened sand,in all positions including base coat of 15mm thick in cement mortar 1:4using water proofing compound at 1Kilogram per cement bag curing the same fornot less than 2days and keeping the surface of the base coat rough to receive the sand faced treatment 6to8 mm thick in cement mortar1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.

1	X	2	X	15.24	X	1.0	X	8.00	=	243.84	SqM
1	X	2	X	12.19	X	1.0	X	6.40	=	156.03	

399.87

DEDUCTION FOR WINDOW & DOOR	1	X	1	X	1.80	X	1.00	X	2.40	=	4.32
	1	X	12	X	1	X	1.00	X	0.60	=	7.20
	1	X	12	X	0.6	X	1.00	X	0.60	=	4.32
	1	X	0	X	2.74	X	1.00	X	3.65	=	0.00
											15.84
											TOTAL = 384.03

15 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete....(INo36-11, PgNo 291)

1	X	2	X	15.24	X	1.0	X	6.40	=	195.07	
1	X	2	X	12.19	X	1.0	X	8.00	=	195.04	SqM

390.11

DEDUCTION FOR WINDOW & DOOR	1	X	1	X	1.80	X	1.00	X	2.40	=	4.32
	1	X	12	X	1	X	1.00	X	0.60	=	7.20
	1	X	12	X	0.6	X	1.00	X	0.60	=	4.32
	1	X	0	X	2.74	X	1.00	X	3.65	=	0.00
											15.84
											TOTAL = 374.27

SAY = 374.27

16 Providing and applying two coats of exterior stacyc emulsion paint conforming to corresponding 1S. 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....(IN035-25, PgNo 288) (STATE SSR) Hem Spec: (As directed by Engineer in charge.)

$$1 \times 1 \times 1.00 \times 1.00 \times 384.03 = 384.03 \quad \text{SqM}$$

SQM

- 18 Providing & fixing at site self supported trussless pre painted galvailume roofmaterial of base metal thickness should be 1.0 mm thick minimum or as specified by standared self supported roofing company. The PPGL sheet shall be 3 feet (914 mm) width, which shall be curved & moulded at site using mechanical press and dies to desire curves & shape to form 2 feet (605 mm) approximate wide interlocking panels, to close seam foaming water tight joints, Minor colour chipping/ scratching shall be rectified by applying epoxy lacquer. Errection and fixing of seamed sheet, Anchor fastening of axel/ Hilit/ any other standered make fitting/ standard make having diameter of metal bolt 12 mm dia having 150 mm length two bolts per panel (605 mm wide) on each side of panel in zig zag pattern and 3 bolts for 5 panels starting and ending sides, including all labour, scaffolding required suitable capacity of cranes for fixing including all necessary fixture & fastening all accessories electrical hangers, clamps for electrial fittings etc. complctc. Including all incidental charges 6uch as electrical/ water etc. complete with lead and lifts with Performance Bank guarantee of ten years of equal amount of contract value of roof.structure alike proflex system with unobstructed span 15.0 M (TCT 1.00 mm thickness) having arch rise of 16% for full span structure design for roofing system to withstand the wind load and dead load as per IS 875 part 2 and Earthquake load as per IS 4992. A sheet for structure of width 15.24 m and length 12.19 m. = 185.78

SQM

SQM

$$\text{TOTAL} = 185.78$$

- 19 Providing and fixing Z-type (Staggered) steel ventilator fully glazed with Z- section of 10 gauge and fixing welded mesh 25 X 25 mm 12 guage as per detailed drawing with quter frame of Z-section including two 12 mm sqquare bar in each panel, fabricating, glazing with 6 mm thick wire glass and of approved type and, quality and fastening and oil paintir.g two coats e.tc. complete. [Spec. No. : As directed by Engineer-in-charge]

$$1 \times 12 \times 1.00 \times 1.00 \times 0.60 = 7.20$$

$$1 \times 12 \times 0.60 \times 1.00 \times 0.60 = 4.32$$

$$\text{TOTAL} = 11.52$$

SQM

SQM

- 20 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, d°ep 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

$$1 \times 1 \times 1.80 \times 1.00 \times 2.40 = 4.32$$

$$1 \times 0 \times 2.74 \times 1.00 \times 3.60 = 0.00$$

$$\text{TOTAL} = 4.32$$

SQM

- 21 Providing and applying water proofing treatment to Gutter Slab, in all directions by using standard acrylic copolymer coating of Rolf Hyguard, Monopol 456 in three coats including cleaning the surface by wire brush, washing and drying including covering gurantee of 10 years on court stamp paper of Rs. 100/-, and as directed by Engineer in charge etc. complete. [Spec. No. : As directed byEngineer-in-charge]

$$1 \times 2 \times 15.24 \times 1.00 \times 0.60 = 18.29$$