



ESTIMATE OF CIVIL CONSTRUCTION WORK OF POWER HOUSE FOR
SONHIRA AGRO FARMER PRODUCER COMPANY LIMITED,

Mohityanche Vadgaon, Tal:- Kadegaon, Dist:- Sangli.GSTIN NO.27ABCCS7381N1ZN

Sr. No.	Quantity	Item	Rate	Per	Amount
A		Lining out the structure for columns, footing & foundations fixing the centerline as per plan necessary material such as iron pegs, constructing permanent semi permanent pillars etc. as directed by Engineers, completed			
	Job		1001.00	L/s.	1001.00
B		EXCAVATION			
B-1		Excavation for foundation in hard murum and boulders including removing the excavated materials 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 to 3.0 m) By Mechanical Means Spec. No.: Bd.A.3 Page No. 259			
	10.50		305.55	Cum	3208.28
C		PLAIN CEMENT CONCRETE			
C-1		Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Bd. E. 1 Page No. 287			
	0.56	1:03:06	6434.54	Cum	3603.34
D		MURUM FILLING			
D-1		Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.. Bd.A.10. Page No. 262			
	6.50		118.65	Cum	771.23

Sr. No.	Quantity	Item	Rate	Per	Amount
E		REINFORCED CEMENT CONCRETE			
E-1	3.50	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering, formwork, cover blocks, laying /pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete. Spec. No.: Bd.F.3 Page No. 298 and B.7, Page No.38	7782.55	Cum	27238.93
E-2	2.20	Providing and laying Cast in ,situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering,formwork, cover blocks, laying/ pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). Spec. No.:Bd.F.5 Page No. 300 and B-7,Page No 38.	14419.60	Cum	31723.12
E-3	1.20	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).Spec No. Bd.F.6 Page No. 300 and B.7, Page No.38	12839.35	Cum	15407.22
F		REINFORCEMENT FOR R.C.C WORK			
	1.00	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. Spec No. Bd.F.17, Page No. 306	75619.33	M.T	75619.33

Sr. No.	Quantity	Item	Rate	Per	Amount
G		MASONRY WORK IN SUPER STRUCTURE.			
G-1		Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, racking out joints, watering and scaffolding Complete. Spec. No.: Bd.G.5 Page No. 315			
	4.50		8685.49	Cum	39084.71
H		PLASTERING			
H-1		Providing internal cement plaster 20mm thick in single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete. Spec.No.: Bd.L.4 Page No. 368			
	60.00		398.68	Sqm	23920.80
H-2		Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. Spec. No.: Bd.L.7 Page No. 369			
	70.00		648.25	Sqm	45377.50
I		FLOORING			
I-1		Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc.complete.As directed by Engineer in charge			
	20.72		906.77	Sqm	18788.27
J		COLOURING			
J-1		Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc.complete.Spec. No.: Bd.P.5 Page No. 413			
	60.00		45.15	Sqm	2709.00
J-2		Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days complete. Spec. No.: Bd.0.8 Page No. 406			
	70.00		77.70	Sqm	5439.00

Sr.No.	Quantity	Item	Rate	Per	Amount
K		WINDOWS & VENTILATORS			
K-1		<p>Providing and fixing in position (as per 1868 /1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x0.90 mm at weight 0.637 Kilogram / Running metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram / Running metre. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram / Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram / Running metre. Interlocking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram / Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram .</p>			
	5.50		6117.30	Sqm	33645.15
L		STRUCTURAL STEEL			
		<p>Providing structural steel work in trusses, othersimilar trussed purlins and members with allbracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete. Spec. No.:Bd.C.8 Page No. 278</p>			
	1.60		111456.88	M.T	178331.01
M		ROOFING			
M-1		<p>Providing and fixing corrugated galvanised iron sheets of 0.63 mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws and bolts, lead and bitumen washers as per drawing etc. complete. (Weight of 5.5 kg/sq.m.). Bd.R.5, Page No.453</p>			
	20.12		1149.75	Sqm	23132.97
M-2		<p>Providing and fixing of colour coated Zinc aluminium (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for Cladding. including fasteners with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc.</p>			
	31.00		852.00	Rmt	26412.00

Sr.No.	Quantity	Item	Rate	Per	Amount
N-2		DOORS			
N-2		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 35mm angle section fitted with sliding bolt sand handles for both sides, deep M. S. channel section of depth and thickness not less than 65mm and 3.15mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical			
	7.50		4525.50	Sqm	33941.25
Total =					589354.09
Total Say Rs. = ₹ 5,89,354.00					




Er. Anil A. Kamate
 D.C.E. & R.E.
 Civil Engineer & Contractor,
 A/P. Ghosarwad - 416 107.