

**ESTIMATE OF CIVIL CONSTRUCTION WORK OF 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 pillers etc. as directed by Engineers, completed			
	Job		50001.00	L/s.	50001.00
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			
	147.00		305.55	Cum	44915.85
B-2		Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift from1.5m To 3.0 m.) By Mechanical Means Spec. No.: Bd.A.4 Page No. 259			
	98.00		514.50	Cum	50421.00
C		PLAIN CEMENT CONCRETE			
		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			
C-1	12.00	1:03:06	6434.54	Cum	77214.48

Sr.No.	Quantity	Item	Rate	Per	Amount
D		U.C.R. MASONARY WORK			
		Providing un coursed 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.Spec. No.:Bd.H.1 Page No. 329			
	110.00		5535.33	Cum	608886.30
E		MURUM FILLING			
E-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			
	140.00		118.65	Cum	16611.00
E-2		Filling in plinth and floors with contractors material /brought from outside and approved by Engineer incharge in layers of 15 cm to 20cm including watering and compaction etc. complete.Spec. No. : Bd.A. 11/Page No. 263			
	650.00		864.84	Cum	562146.00
F		REINFORCED CEMENT CONCRETE			
F-1		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			
	26.00		7782.55	Cum	202346.30

Sr.No.	Quantity	Item	Rate	Per	Amount
F-2		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.			
	19.00		14419.60	Cum	273972.40
F-3		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			
	23.00		12839.35	Cum	295305.05
F-4		Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork,cover blocks, laying/pumping, compaction, finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). Spec No. Bd.F.8 Page No.302 and B.7, Page No.38			
	5.50		15424.45	Cum	84834.48
F-5		Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/ pumping, compacting and roughening the surface if special finish is to be provided and curing complete. Spec. No.: Bd.F.9 Page No.303 and B.7, Page No.38			
	3.00		14551.90	Cum	43655.70

Sr.No.	Quantity	Item	Rate	Per	Amount
F-6		Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite/granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/ steel formwork, steel props, laying /pumping, compaction, finishing uneven and honey combed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) Spec. No.:Bd. F. 13 Page No. 305 /I.S. 456 (2000)			
	1.50		14632.75	Cum	21949.13
G		REINFORCEMENT FOR R.C.C WORK			
		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			
	14.00		75619.33	M.T	1058670.62
H		MASONRY WORK IN SUPER STRUCTURE.			
H-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			
	15.00		8685.49	Cum	130282.35
H-2		Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:4 in half brick thick wall including mild steel longitudinal reinforcement of 2 bars of 6 mm diameter / 2 hoop iron strips 25 mm X 1.6 mm placed at every third course, properly bent and bonded at ends scaffolding, racking out joints and watering etc. complete. Spec. No.: Bd.G.7 Page No. 316			
	310.00		1359.55	Sqm	421460.50

Sr.No.	Quantity	Item	Rate	Per	Amount
I		PLASTERING			
I-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			
	950.00		398.68	Sqm	378746.00
I-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.			
	440.00		648.25	Sqm	285230.00
I-2		Providing tuck pointing with cement mortar 1:3 for stone/Brick masonry including scaffolding and curing etc. complete. Bd. L. 16 Page Number 373			
	225.00		180.53	Sqm	40619.25
J		FLOORING			
J-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			
	630.00		906.77	Sqm	571265.10
J-2		Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. Spec. No: Bd.M.3 Page No.380			
	80.00		1290.31	Sqm	103224.80
J-3		Providing and laying Antiskid Ceramic tiles of approved quality of size 30 cm x 30 cm and confirming to IS 15622-2006 (Group-B IIA) for antiskid flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete. Bd. M-12 page No. 385.			
	160.00		1245.64	Sqm	199302.40

Sr.No.	Quantity	Item	Rate	Per	Amount
J-4		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 slurry, curing, polishing and cleaning etc. complete. Spec. No.: Bd.M.22 Page No. 390.			
	30.00		1579.76	Sqm	47392.80
K		Providing cement based water proofing treatment to terraces (Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved waterproofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1 Kg per bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300 mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/- including ponding test etc. complete. Spec. No.: As directed by Engineer in charge.			
	160.00		1373.16	Sqm	219705.60
L		DADO & SKIRTING			
L-1		Providing and laying vitrified matt finish tiles Skirting having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS.15622-2006 (Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.			
	18.00		2096.49	Sqm	37736.82
M		DOORS			
M-1		Providing and fixing solid core flush door shutter commercial in single leaf 32 mm thick without ventilator commercial type of exterior grade as per detailed drawings with wrought iron hold fast, stainless steel fixtures and fastenings and handles on both sides and finishing with oil painting 3 coats complete. Spec. No.: Bd-T-36, Page No. 500			
	28.00		2784.60	Sqm	77968.80

Sr.No.	Quantity	Item	Rate	Per	Amount
M-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 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 0.9mm 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 gear)Spec No. BD-T-55 Page No.510			
	25.00		4525.50	Sqm	113137.50
N		WINDOWS & VENTILATORS			
N-1		Providing and fixing in position (as per 1868 /1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 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/Running metre. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box. As directed by Engineer in charge.			
	47.00		6117.30	Sqm	287513.10
O		COLOURING			
O-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			
	950.00		45.15	Sqm	42892.50
O-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			
	450.00		77.70	Sqm	34965.00

Sr.No.	Quantity	Item	Rate	Per	Amount
P		STRUCTURAL STEEL			
	21.00	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 includingcutting, fabricating, hoisting, erecting fixing inposition, Making riveted/ bolted/ weldedconnection and one coat of anticorrosive paintand over it 2 coats of oil painting approvedquality and shade etc. complete. Spec. No.:Bd.C.8 Page No. 278	111456.88	M.T	2340594.48
Q		ROOFING			
Q-1	995.00	Providing and fixing corrugated galvanised iron sheets of 0.63 mm thick (24 B.W.G.) forroofing without wind tiles including fastening withgalvanised iron screws and bolts, lead andbitumen washers as per drawing etc. complete.(Weight of 5.5 kg/sq.m.).Bd.R.5, Page No.453	1149.25	Sqm	1143503.75
Q-2	550.00	Providing and fixing corrugated galvanised iron Cladding of 0.63mm 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.). As directed by Engineer in charge	852.00	Sqm	468600.00
R		SANITORY & PLUMBING			
R-1	10.00	Providing & fixing on walls/ ceiling/ floors offollowing dia. heavy grade having embossed asISI Mark galvanised iron pipes weight of 1.48Kg/metre with necessary fittings. remaking goodthe demolished portion and applying primer ofanti-corrosive oil paint 2 coats Includingnecessary scaffolding and removing existingpipe line if necessary and conveying andstacking the same in PWD chowky or asdirected etc. complete. complete. Spec. No.:Bd.V.5	425.25	Rmt	4252.50
	8.00	a) 15 mm	479.85	Rmt	3838.80
	7.00	b) 20 mm	609.00	Rmt	4263.00
	5.00	b) 25 mm	655.20	Rmt	3276.00
	6.00	d) 32 mm	928.20	Rmt	5569.20
		c) 50 mm			
R-2	3.00	Providing and fixing following dia. screw down bib/ stop tap of brass including necessary socket union nut complete. Spec. Bd.V.8Page No. 554	668.85	No.	2006.55
	3.00	a) 15mm	1356.60	No.	4069.80
		b) 25mm			

Sr.No.	Quantity	Item	Rate	Per	Amount
R-3		Providing and fixing screw down following dia. wheeled stop tap of brass including necessary sockets/union nut complete. Spec. No.: Bd.V.9 Page No. 555			
	4.00	a) 15mm	491.40	No	1965.60
	3.00	b) 20mm	635.25	No	1905.75
	2.00	c) 25mm	824.25	No	1648.50
R-4		Providing and fixing coloured glazed earthenware Wash Hand Basin of 45 cm x 30 cm size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connection including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete. Spec. No.: Bd.V.30 Page No. 565			
	3.00		5419.05	No.	16257.15
R-5		Providing and fixing 15cm x 10cm salt glazed stoneware gully trap in cement concrete 1:4:8 outside the building including cast iron grating in the sink, connecting glazed stoneware pipe, brick masonry chamber with cast iron lid and cast iron grating for the gully trap. Spec. No.: Bd.V. 38, Page No. 572			
	3.00		1442.70	No.	4328.10
R-6		Providing and fixing 8cm C.I. Nahani Trap including C.I. grating bend and piece of C.I. pipe upto the outside face of the wall complete. Spec. No.: Bd.V.32 Page No.567			
	5.00		1020.60	No.	5103.00
R-7		Providing and laying following dia salt glazed stoneware pipe including fittings such as bends, tees, single junction, double junctions laying, jointing (including excavation and refilling the trenches) complete. Spec. No.: Bd.V.39, Page No. 573			
	9.00	a) 100 mm dia	339.15	Rmt	3052.35
	10.00	b) 150 mm dia	413.70	Rmt	4137.00
R-8		Providing & constructing Brick Masonry Inspection Chamber of following size including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W.pipes, Brick Masonry, plastering from inside and C.I. lid cover 75 kg with frame fixed in cement concrete. Spec. No.: Bd.V.43 Page No. 574			
	1.00	a) 90 cm x 45 cm x 90 cm.	9796.50	No	9796.50
	1.00	b) 60 cm x 45 cm x 90 cm	8208.90	No	8208.90

Sr.No.	Quantity	Item	Rate	Per	Amount
R-9	2.00	Providing and fixing Orissa type white glazed earthenware 575 mm water closet pan including S trap with earthenware foot rests, cast iron soil and vent pipe upto outside face of the wall 1:2:4 brick bat lime concrete bedding without flushing tank and its accessories etc. complete. Spec. No.: As directed by Engineer in charge.	3929.10	No.	7858.20
R-10	4.00	Providing and Fixing half turn 25 mm dia gun metal flushing cock including all accessories etc. complete. Spec. No.: As directed by Engineer in charge.	888.30	Sqm	3553.20
R-11	5000.00	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythylar and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres Spec. No.: As directed by engineer-in-charge.	11.55	Lit.	57750.00
R-12	45.00	Providing and fixing on walls/ ceiling/ floor of fallowing dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Spec. No.: BD.V 5 page 551 and as directed by Engineer in charge	258.30	Rmt.	11623.50
	50.00	a) 15mm	299.25	Rmt.	14962.50
	40.00	b) 20mm	352.80	Rmt.	14112.00
	35.00	c) 25mm	717.15	Rmt.	25100.25
		d) 50mm			
R-13	2.00	Providing and fixing partition with kadappa stone of all sizes and 25 mm thick polished on both side and edges to original including fixing in position in cement mortar 1:4 curing polish-ing, cleaning etc complete. Spec. No.: As directed by Engineer in charge.	1080.45	Sqm	2160.90
R-14	1.00	Providing and fixing hume pipe septic tank 900mm diameter with vent pipe and cap including necessary (including excavation and laying) Spec. No.: Bd.V.45, Page No. 575	16474.50	No.	16474.50
R-15	1.00	Providing soak pit of size 120cm x 120cm x 120cm including excavating and filling with brick bats. Spec. No.: Bd.V.46, Page No. 576	2817.15	No.	2817.15
			Total =		10575160.95
			Total Say Rs. =		₹ 1,05,75,160.00