

**DETAILED ESTIMATE FOR**

**Proposed Construction of Dal Mill at Sawli  
(Bu.) for Zero Mile Farmers Producer  
Company Limited Sawli (Bu.) Ta Katol Dist  
Nagpur.**

**Amount Rs. 4332495.00**

### GENERAL REPORT & SPECIFICATIONS

1. Name of work : Proposed Construction of Dal Mill at Sawli (Bu.) for Zero Mile Farmers Producer Company Limited Sawli (Bu.) Ta Katol Dist Nagpur.
2. Amount Rs : 4332495.00
- 3 Authority : This work is proposed by Secretary Zero Mile Farmers Producer Company Limited Sawali in Taluka-Katol. District-Nagpur.
- 4 Necessity : At present there is no Dal mill in the premises of Zero Mile Farmers Producer Company Limited Sawali, Katol In Taluka Katol, District - Nagpur. To provide the facility of Dal mill to Farmers in surrounding area this work is proposed and estimate is Framed accordingly
5. Provision Structure : Following provisions are made in this estimate.  
RCC Footing, Coloumn, Beam & Lintel In M-25 Grade concrete.
- Wall : All main wall 23 Cm thick of Fly ash in cm 1:6 up to 3.30 m height and above portion In structural steel and Colour coated Zincaluminium(R) AZ150 ( min 150 gms/sq.mt. total on each side) profiled sheets panels.
- Roof : Trusses of Structural steel work & Colour coated Zincaluminium(R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing.
- Plaster : Internal:- 12 mm thick plaster in C.M. 1:5  
External Sand face plaster in C.M. 1:4
- Flooring : Raft of cement concrete in M-20 Grade Concrete.
- Doors : a) Main Enterance Door one Rolling shutter of size 3.05 x 2.75 m and another Rolling shutter of size 2.15 x 2.75 m
- Ventilator : Mild steel grill work for ventilators 20 kg/ sq. as per drawing Including fixtures and fixing Jall welded mesh 25\*25\* 13 Guage on grill.

**Painting**

- :
- 1) Outer painting- Two coats of exterior weather shield paint.
  - 2) Inner painting- Washable oil-bound distemper.

**Micellaneous**

- :
- A) Plinth Protection of 0.90 m wide around the Dal mill.
  - B) Provision for Antitermite treatment, Fire fighting etc.
  - C) Ramp 3.05 m width & 9.00 long.

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for Zero Mile Farmers Producer Company Limited Sawli (Bu.) Ta  
Katol Dist Nagpur.

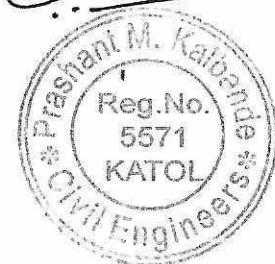
GENERAL ABSTRACT

Sr. No.	Item of work	Amount (Rs.)
A	Cost of work	2964851.00
B	Royalty Charges	51206.00
C	Testing Charges	66645.00
TOTAL Rs. ( 1 )		3082702.00
D	Add for Electrification charges External & Internal 8 %	246616.00
TOTAL R. ( 2 )		3329318.00
E	Add 0.5 % for Insurance on A	14824.00
F	Add 12 % GST on A	355782.00
G	Add 4 % for Contingencies on Total 2	133173.00
H	Add 5 % for Centage Charges on Total 2	166466.00
I	Add 10 % for Price escalation on Total 2	332932.00
J	Total Rs. ( 3 )	4332495.00

Say Rs.

4332495.00

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**Name Of Work : - Proposed Construction of Dal Mill at Sawli (Bu.) for Zero Mile Farmers Producer Company Limited Sawli (Bu.) Ta Katol Dist Nagpur.**

**ABSTRACT**

I. No.	Description of Item	Quantity	Unit	Rate	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 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	86.68	Cum	193.00	16729.00
	SSR I. No. 21.02 / 115				
2	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	38.14	Cum	241.00	9192.00
	SSR I. No. 21.04 / 115				
3	Transportation of material obtained from debris of various sorts including necessary excavation/ loosening including loading, unloading and conveying and disposing as directed. SSR based Item	76.64	Cum	163.70	12546.00
4	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) treatment by treating the backfill in immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square metre of vertical surface area covering 10 years guarantee on bond paper.	25.20	Sqm	97.00	2444.00
	SSR I. No. 21.23 / 116				
5	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of chlorophyrifos per square metre of surface area covering ten years guarantee on bond paper.	185.89	Sqm	94.00	17474.00
	SSR I. No. 21.24 / 117				

I. No.	Description of Item	Quantity	Unit	Rate	Amount
6	Providing preconstructional antitermite treatment as per I.S.6313 (Part-I) to the soil along the external face of building by punching holes of 1.2 of 1.5 C.M. diametre about 30 -60 cm deep at 15 cm c/c as close to the wall as possible and to inject 0.5 percent of aldrin or clorophyrifos at the rate of 7.5 litres per hole and sealing the same with proper filling and covering 10years guarantee on bond paper.	30.36	Sqm	153.00	4645.00
	SSR I. No. 21.25 / 117				
7	Filling in plinth and floors with contractors material / brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.	108.84	Cum	859.30	93522.00
	SSR I. No. 21.37 / 117				
8	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	60.29	Cum	1897.45	114401.00
	SSR I. No. 21.40 / 118				
9	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite /quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying / pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. 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.), 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)	19.80	Cum	6588.70	130468.00
	SSR I. No. 24.08 / 131				
10	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. Including bailing out water, Steel centering, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	12.27	Cum	7668.05	94087.00
	SSR I. No. 25.13 / 133				

I. No.	Description of Item	Quantity	Unit	Rate	Amount
11	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 water, Steel centering formwork, laying/ pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	16.32	Cum	7520.45	122715.00
	SSR I. No. 25.11 /222				
12	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
	SSR I. No. 25.33 /134				
	<b>Ground Floor</b>	5.84	Cum	13989.05	81696.00
13	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
	SSR I. No. 25.52 / 135				
	<b>Ground Floor</b>	10.93	Cum	12484.05	136451.00

I. No.	Description of Item	Quantity	Unit	Rate	Amount
14	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.				
	SSR I. No. 26.33 / 139				
	Ground Floor	4.763	Mt	72171.00	343763.00
15	Providing Fly ash lime brick masonry (bricks conforming to I.S.12894 : 1990 of size 19 cm x 9 cm x 9 cm ) in cement mortar 1:6 in foundations and plinth of inner walls / in plinth of external walls including balling out water, striking joints on unexposed faces, racking out joints on exposed faces and watering complete.				
	SSR I. No. 27.12 / 144				
	Ground Floor	9.23	Cum	7932.40	73216.00
16	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
	SSR I. No. 26.23 / 138				
	Ground Floor	1.84	Cum	7654.45	14084.00
17	Providing fly ash 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				
	SSR I. No. 27.13 / 144				
	Ground Floor	30.17	Cum	8148.40	245837.00
18	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 with putty finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. & Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete.				
	SSR I. No. 32.03 / 153				
	Ground Floor	155.93	Sqm	354.70	55308.00

I. No.	Description of Item	Quantity	Unit	Rate	Amount
19	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.				
	SSR I. No. 32.11/153				
	<b>Ground Floor</b>	205.83	Sqm	623.60	128356.00
20	Providing and fixing chicken mesh of 22 gauge, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.				
	SSR I. No. 32.26 / 154				
	<b>Ground Floor</b>	19.26	Sqm	129.00	2485.00
21	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				
	SSR I. No. 36.11 / 167				
	<b>Ground Floor</b>	155.93	Sqm	43.00	6705.00
22	Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary, and watering the surface for two days etc complete.				
	SSR I. No. 35.28/165				
	<b>Ground Floor</b>	205.83	Sqm	238.00	48988.00
23	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures and fixing Jall welded mesh 25*25* 13 Guage on grill , necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.				
	SSR I. No.40.01 / 192				
	<b>Height above 3.80 M ( F. F. )</b>	1.62	Sqm	2052.30	3325.00
24	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, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.				
	SSR I. No. 23.01 / 129				
	<b>Height above 3.80 M</b>	0.54	M.T.	89574.00	48370.00

I. No.	Description of Item	Quantity	Unit	Rate	Amount
25	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, 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.				
	SSR No. 23.04 / 167				
	Height up to 3.80 m height	0.37	M.T.	106302.00	39332.00
	Height above 3.80 M	3.40	MT.	107361.10	365028.00
26	Providing and fixing colour coated Zinalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm centerto-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/Square Metre)				
	SSR No. 38.34 / 173				
	Height up to 3.80 M	13.10	Sqm	1096.95	14370.00
	Height above 3.80 M	406.40	Sqm	1107.90	450251.00
27	Providing and fixing of colour coated Zinaluminium( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated withAluminium-Zinc alloy (55% aluminiumm 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyster paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25 mm exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm				

I. No.	Description of Item	Quantity	Unit	Rate	Amount
	effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove, and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/Square Metre) 800 mm girth (Surface Width).				
	<b>SSR No. 38.35 / 174</b>				
	<b>A) Height above 3.80 M</b>				
		15.71	Sqm	710.20	11157.00
28	Providing and fixing turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing, testing and cleaning etc. complete.	2.00	Nos.	9548.00	19096.00
	SSR based Item				
29	Providing and fixing 90 cm x 60 cm Granite plate engraving 10 cm height letter, figures including painting the letters/figures with approved colour and shade complete	6	No.	7985.00	50625.00
	SSR I. No. 44.12 / 213				
30	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248:1979) (With mechanical gear)	15.34	Sqm	4730.00	72558.00
	SSR I. No. 39.25 / 181				
31	Providing, laying and fixing exterior grade fibrilling fibre reinforcement heavy duty designer cement concrete tiles for Flooring of approved colour and design 22 +/- 2 mm thick bayer colour pigmented as per IS 1237 - 1980 having compressive strength more than 500 Kilogram/sq. cm reaffirmed in 2006 having vert transvrse strength of 3.5 / mm 2, water absorption less than 10 % abrasion / wear resistance less than 2 mm, skid resistance more than 25.0 (ASTM E303) and no fading as per DIN 51094 of size 300 x 300 in plan / designed pattern on a bed of 1:4 cement mortar including	89.40	Sqm	1131.80	101183.00

I. No.	Description of Item	Quantity	Unit	Rate	Amount
	cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. For flooring. SSR I. No. 33.76 / 161				
32	Providing and fixing CO2 type fire extinguishers of 4.50kg capacity complete with valve, discharge horn carrying neck handal bracket as per I.S. 2878 with ISI Mark. Approved by SE P.W. Circle, Nagpur	2	Nos.	4730.00	9460.00
33	Providing and fixing A.B.C. type fire extinguisher of 5.0 kg capacity with pressure guage as per I.S. 13849. Approved by SE P.W. Circle, Nagpur	2	Nos.	7850.00	15700.00
34	Providing and fixing board displaying information, such as 'Name of work, Tender cost, Name of Contractor, Work completion and liability period etc', having rectangular shape of 1.20m x 0.90m size made out 18 gauge (1.25mm) thick mild steel sheet painted with one coat of Zinc chromate stoving primer and two coats of enamel paint on front side and grey stove enamel on back side and border / messages / symbols etc. with approved colour shade paint complete, on M.S. angle of size 35 x 35 x 3 mm frame with properly cross braced M.S. angles of size 35mmx35mmx3mm duly painted including Two M.S. angle iron posts of size 65 mm x 65 mm x 6 mm, 3.65 m long painted with alternate black and white bands of 25 cm width including all fixtures etc. and fixing the boards in 1:4:8 concrete block of size 60 cm x 60 cm x 75 cm including, excavation, refilling, transportation, and labour etc complete. Spec. No. As directed by Engineer in Charge SSR Item No. 6.36 / 47	1.00	No.	9284.00	9284.00
				<b>Total Rs.</b>	<b>2964851.00</b>

*Prashant M. Kalbande*  

