

ESTIMATE

*** NAME OF WORK ***

**NAME OF WORK:- PROPOSED CONSTRUCTION OF
PROCESSING UNIT FOR REFORMERS FARMERS
PRODUCER COMPANY LIMITED IN SURVEY NO. 13,
AT KAULKHED, TQ. UDGIR, DIST. LATUR**

ESTIMATE COST :- 29.63 LAKHS

NAME OF WORK:- PROPOSED CONSTRUCTION OF PROCESSING UNIT FOR
REFORMERS FARMERS PRODUCER COMPANY LIMITED IN SURVEY NO. 13, AT
KAULKHED, TQ. UDGIR, DIST. LATUR

GENERAL ABSTRACT

(A) COST OF WORK PORTION	Rs.	2466660.00
(B) COST OF ROYALTY	Rs.	44417.00
(C) Q.C.TESTING CHARGES	Rs.	20120.00
TOTAL	Rs.	2531197.00
1) ADD 12% FOR GOODS AND SERVICES TAX	Rs.	295999.00
2) ADD 0.5% FOR LABOUR INSURANCE	Rs.	12333.00
3) ADD 5% FOR Electrification	Rs.	123333.00
GRAND TOTAL	Rs.	2962862.00

**NAME OF WORK:- PROPOSED CONSTRUCTION OF PROCESSING UNIT FOR REFORMERS FARMERS
PRODUCER COMPANY LIMITED IN SURVEY NO. 13, AT KAULKHED, TQ. UDGIR, DIST. LATUR**

ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
1	<p>Excavation for foundation in earth, soil of all types, excavated material up to a distance of 50 m. beyond the building area & 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 sand, gravel and soft murum, including removing the</p> <p>Bd.A.1 Page No. 259</p> <p>SSR OF 2021-22 ITEM NO. 21.01 & PAGE NO.115 BASIC RATE</p>	20.348	232.00	Cu.M.	4720.74
2	<p>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 to 3.0 m) By Mechanical Means</p> <p>Bd.A.2 Page No. 259</p> <p>SSR OF 2021-22 ITEM NO. 21.08 & PAGE NO.115 BASIC RATE</p>	12.552	265.00	Cu.M.	3326.28
3	<p>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 etc. complete. (Lift upto 3.0m). By Mechanical Means (by Poclairnachine</p> <p>Bd.A.3 Page No. 259</p> <p>SSR OF 2021-22 ITEM NO. 21.17 & PAGE NO.116 BASIC RATE</p>	7.776	869.00	Cu.M.	6757.34
4	<p>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, 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)</p> <p>Bd. E. 1 Page No. 287</p> <p>SSR OF 2021-22 ITEM NO. 24.01 & PAGE NO.131 RATE ANALYSIS</p>	17.682	5221.91	Cu.M.	92333.81

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
5	<p>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, 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 (Natural Sand / Crushed sand VSI Grade finely washed etc) Bd.F.3 Page No. 298 and B.7, Page No.38</p>				
	SSR OF 2019-20 ITEM NO. 25.11 & PAGE NO.133	10.800	6246.13	Cu.M.	67458.20
6	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-20 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, 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 SSR OF 2019-20 ITEM NO. 25.31 & PAGE NO.134 RATE ANALYSIS</p>				
	SSR OF 2019-20 ITEM NO. 25.31 & PAGE NO.134	2.592	12335.03	Cu.M.	31972.40
7	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-20 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, 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) SSR OF 2019-20 ITEM NO. 25.5 & PAGE NO.135 RATE ANALYSIS</p>				
	SSR OF 2019-20 ITEM NO. 25.5 & PAGE NO.135	17.223	10181.43	Cu.M.	175354.77

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
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8 Providing and laying **Cast in situ/Ready Mix concrete M-20** of trap/ granite/ quartzite/ gneiss metal for **R.C.C. chajja** as per detailed design and drawings including centering, formwork, cover blocks compacting , curing , finishing and roughening the surface 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)**
Bd.F.9 Page No. 303 and B.7, Page No.38

SSR OF 2019-20 ITEM NO. 26.05 & PAGE NO.137

RATE ANALYSIS

1.944 12446.63 Cu.M. 24196.25

9 Providing and laying **Cast in situ/Ready Mix concrete M-25** of trap / granite / quartzite / gneiss metal for **R.C.C. canopy** as per detailed designs and drawings including centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement). **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)**
Bd.F.10 Page No. 304

SSR OF 2019-20 ITEM NO. 26.11 & PAGE NO.137

RATE ANALYSIS

0.994 12607.52 Cu.M. 12531.87

10 Providing and laying **Cast in situ/Ready Mix concrete in M-20** 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 honeycombed 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.) **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)**
Bd. F. 13 Page No. 305 /I.S. 456 (2000)

SSR OF 2021-22 ITEM NO. 26.25 & PAGE NO.138

RATE ANALYSIS

0.892 12616.46 Cu.M. 11253.88

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
11	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. Bd.F.17, Page No. 306				
	SSR OF 2021-22 ITEM NO. 26.33 & PAGE NO.139 RATE ANALYSIS	4.695	71048.00	M.T.	333570.36
12	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. Bd.G. 1 Page No. 313				
	SSR OF 2021-22 ITEM NO. 27.01 & PAGE NO.144 RATE ANALYSIS	7.176	7744.66	Cu.M.	55575.68
13	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				
	SSR OF 2021-22 ITEM NO. 21.36 & PAGE NO.117 RATE ANALYSIS	23.328	113.00	Cu.M.	2636.064
14	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. Bd.A.11 Page No. 263				
	SSR OF 2021-22 ITEM NO. 21.37 & PAGE NO.117 RATE ANALYSIS	108.000	626.08	Cu.M.	67616.80
15	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete. As directed by Engineer in charge.				
	SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.118 RATE ANALYSIS	27.600	1552.32	Cu.M.	42844.032
16	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 Bd.G.5 Page No. 315				
	SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.144 RATE ANALYSIS	65.918	7971.66	Cu.M.	525475.88
17	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete Bd.L.4 Page No. 368				
	SSR OF 2021-22 ITEM NO. 32.06 & PAGE NO.153 RATE ANALYSIS	281.40	350.59	Sq.M.	98656.03

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
18	<p>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</p> <p>Bd.L.7 Page No. 369</p> <p>SSR OF 2021-22 ITEM NO. 32.11 & PAGE NO.153</p> <p>RATE ANALYSIS</p>	349.000	528.38	Sq.M.	184404.62
19	<p>Providing and fixing in position factory made box type steel window with glazed fanlight including steel windows of cold rolled section of 105mm x 60mm x 1.25mm thick frame section filled with cement concrete (1:2:4) and metal pressed steel shutters of 20 gauge (1mm) as per detailed drawing and design or as directed including providing horizontal mild steel 12mm square bars at 10cm center to center, required F-7B section, section 7-6, section 20mm x 5mm mild steel flat for shutter and F4B section for frame, 3mm thick glass of approved quality for fanlight necessary fixtures and fastenina etc. complete finishing with one coat of anti-As directed by Engineer in charge</p> <p>SSR OF 2021-22 ITEM NO. 39.22 & PAGE NO.181</p> <p>BASIC RATE</p>	21.600	4050.00	Sq.M.	87480.00
20	<p>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.</p> <p>Bd.T.55, Page No. 510</p> <p>SSR OF 2021-22 ITEM NO. 39.24 & PAGE NO.181</p> <p>BASIC RATE</p>	9.000	4310.00	Sq.M.	38790.00

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
21	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 & brooming down etc. complete. Bd. P.1 Page No. 411				
	SSR OF 2021-22 ITEM NO. 36.03 & PAGE				
	BASIC RATE	630.400	11.00	Sq.M.	6934.40
22	Providing and 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. Bd.P.5 Page No. 413				
	SSR OF 2021-22 ITEM NO. 36.11 & PAGE NO.167				
	BASIC RATE	281.400	39.50	Sq.M.	11115.30
23	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Bd.O.8/Page No.406				
	SSR OF 2021-22 ITEM NO. 35.15 & PAGE NO.165				
	BASIC RATE	349.000	97.00	Sq.M.	33853.00
24	Providing preconstruction alantitermite treatment as per I.S.6313 (PartII) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on				
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.22 & PAGE NO.116				
	BASIC RATE	145.920	72.00	Sq.M.	10506.24
25	Providing and laying in situ cement concrete M25 with tremix treatment for 200 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				
	SSR OF 2021-22 ITEM NO. 33.31 & PAGE				
	Rate Analysis	124.000	1165.475	Sq.M.	144518.90
			TOTAL(A) Rs.		2073882.86

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
26	Above Plinth (PEB WH. BLDG.)				
1	StructuralSteelE-350 Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in positionwelded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel memberetc. at site to line and level, supplyof approved bolts/nuts/washers etc. complete as per drawings includingpainting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer- 35-50micron etc., complete as shown rawings, as per specifications and as directedby the Engineer-in-Charge/ Construction Manager. (The rate quoted shall include cost of bolts,nuts, washers, welding and electrodes required for the complete work).	2.500	90117.00	M.T.	225292.50
2	Structural Steel-Cold Formed Light gauged - Supplying, fabricating and erecting of Cold Formed Light Gauge structural steel members conforming to IS:801/ IS:811 hot-dip galvanised to IS:4759 - 96 including cutting, welding or bolting, splice plates and packing plates, transporting, straightening, cleaning, Fabricating and erecting in position.	0.911	90117.00	M.T.	82096.59
3	Sheeting PPGL0.5mmthk Supply & Fixing of PPGI sheets of 0.5mm thick as shown in drawing or as directed by engineer incharge withall necessary accessories.	155.000	818.22	Sq.M	126824.10
4	Roof Accessories Supply & Fixing of 0.5 mm thk PPGL roof accessories as per drawing or as directed by engineer incharge-				
	CORNER FLASHING	12.000	600.00	RMT	7200.00
	Center Ridge	21.000	600.00	RMT	12600.00
	Gable flashing	6.000	600.00	RMT	3600.00
TOTAL(B) Rs.					457613.19

ROYALTY CHARGES :- Supply of Rubble, Murum, Soil, 60mm./40mm. metal (Hand broken), royalty charges are not included in the rates.[As per Govt. Of Maharashtra, Revenue and Forest Departments Gazette No.67 Dt.15 May,2015. States that the royalty charges of Rs.400/BRASS.) are considered. The surcharge levied on Royalty shall also be payable to the

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FOR SAND	64.892	237.37	Cu.M.	15403.41
FOR OTHER METAL	135.600	216.18	Cu.M.	29314.01

28 **Laboratory testing charges** are not considered in the Rate Abstracts. Where ever required separate item shall be taken in the estimate for material testing charges, on the basis of testing frequency and charges fixed by Vigilance & Quality Control Circle, for the current year and shall form part of tender. testing of material by Quality control and certified quality must be use by

BASIC TEST OF AGGREGATE Water Absorption, Specific Gravity, Impact Value, Crushing Value	1.000	2600.00	Nos.	2600.00
BASIC TEST OF CEMENT Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness	1.000	3770.00	Nos.	3770.00
BRICKS Water Absorption , Compressive Strength, Efflorescence (Set of 5 bricks)	1.000	2175.00	Nos.	2175.00
CONCRETE Compressive strength of C.C.Cube (Set of 3 cubes)	2.000	690.00	Nos.	1380.00
MURUM-HARD Sieve Analysis	1.000	690.00	Nos.	690.00
STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1.000	1275.00	Nos.	1275.00

TOTAL(C) Rs.

56607.42

TOTAL(A+B+C) Rs.

2588103.47