

ESTIMATE

DIVISION :

SUB-DIVISION :

FUND HEAD :

MAJOR HEAD :

MINOR HEAD :

SERVICE HEAD :

DEPARTMENTAL HEAD :

Estimate framed in the Office of the Executive Engineer, ER. SAGAR P YADAV for the

probable expenses that will be incurred for the work of **Construction of Cold storage and Processing unit Of Suryod Organic Farmer's Producer Company at Aundhi Tal-Jath, Dist-Sangli.**

=====  
Rs. 8983383.00  
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Estimate Prepared by : ER. SUNIL U MAHARNUR

Estimate Checked by : ER. SAGAR P YADAV

Technical Sanction :

Dated : / /

Administrative Approval :

Dated : / /

GENERAL DESCRIPTION

--- As per separate sheet attached ---

**Name of Work : Construction of Cold storage and Processing unit Of Suryod Organic  
Farmer's Producer Company at Aundhi Tal-Jath, Dist-Sangli.**

**RECAPITULATION - SHEET**

Sub- Estimate No & Name	Amount
1 Work Portion	Rs. 7613037.19
Add G.S.T. on Governmental Contract Works @ 18.00% On (A)	Rs. 1370346.6
	=====
	Rs. 8983383.79
	<b>Say Rs. 8983383.00</b>

**Name of Work : Construction of Cold storage and Processing unit Of Suryod Organic  
Farmer's Producer Company at Aundhi Tal-Jath, Dist-Sangli.**

**ABSTRACT**

Quantity	Description	Rate Unit	Amount
SUB WORK I : Civil Work			
1000.000 Square Metre	ITEM NO : 1 Labour charges for removing grass, thorney shrubs, Jungli shrub, Kubabhul and alike grass along roadside making the ground clean by showel and phavaras, excetra complete.	7.00 One Square Metre	7000.00
27.00 Cubic Metre	ITEM NO : 2 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 metre 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 excetra complete. - (Lift upto 1.5 metre) By Mechanical Means	217.00 One Cubic Metre	5859.00
19.00 Cubic Metre	ITEM NO : 3 Excavation for foundation in hard murum including removing the excavated material upto a distance of 50 metre 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 excetra complete. (Lift upto 1.5 metre) By Mechanical Means	331.00 One Cubic Metre	6289.00
45.45 Cubic Metre	ITEM NO : 4 Providing and laying Cast in situ/Ready Mix, cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including Metre bailling out water, formwork, laying/ pumping, compacting and curing, excetra complete, with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Aquisition enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) excetra complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed, excetra) using ARTIFICIAL SAND).	5505.00 One Cubic Metre	250202.00

Quantity	Description	Rate/Unit	Amount
46.730 Cubic Meter	<p>ITEM NO : 5</p> <p>Providing and laying in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete work in foundations like raft, strip foundations, grillage and footings of reinforced oncrete columns and steel stanchions, excetra including bailling out water, formwork, cover blocks, compaction, curing and roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel), excetra complete, with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Aquisition enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) excetra complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) (using ARTIFICIAL SAND).</p>	6181.00 One Cube Metre	288838.13
33.00 Cubic Meter	<p>ITEM NO : 6</p> <p>Providing and laying cast in situ / Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for reinforced cement concrete columns as per detailed designs and drawing or as directed, including steel centering, formwork, cover blocks, aying/pumping, compaction, finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth an even surface or roughening the surface if special finish is to be provided and curing, excetra complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Aquisition enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) excetra complete.with fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) (For Ground Floor) (using ARTIFICIAL SAND).</p>	12528.00 One Cubic Metre	413424.00

Quantity	Description	Rate	Unit	Amount
18.00 Cubic Metre	<p>ITEM NO : 7</p> <p>Providing and laying cast in situ / Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for reinforced cement concrete beams and as per detailed designs and drawings or as directed including steel centering, formwork, cove blocks, laying/pumping compaction 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 Programmable micro processor based Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) extra complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) (For Ground Floor) (using ARTIFICIAL SAND).</p>	11104.00	One Cubic Metre	199827.00
5.7 Metric Ton	<p>ITEM NO : 8</p> <p>Providing and fixing in position thermo mechanically treated FE-500 steel bar reinforcement of various dia for reinforced cement concrete pile caps, Ton footings, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardis, copings, fins, arches, extra as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. (For Ground Floor)</p>	63854.00	One Metric Ton	362257.00
78.00 Cubic	<p>ITEM NO : 9</p> <p>Providing second class burnt brick masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in foundations and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints, on unexposed faces, racking out joints on exposed faces and watering, extra complete. (using ARTIFICIAL SAND).</p>	6663.05	One Cubic Metre	519714.00
735.00 Cubic material	<p>ITEM NO : 10</p> <p>Filling in plinth and floors with contractors / brought from outside and approved by Engineer In-Charge, in 15 centimetre to 20 Metre centimetre layers including watering and compaction, extra complete.</p>	446.00	One Cubic Metre	327810.00

Quantity	Description	Rate	Unit	Amount
108.00 Cubic Meter	<p>ITEM NO : 11</p> <p>Providing second class Burnt Brick masonry with conventional / Indian Standard type bricks in cement mortar 1:6 superstructure including striking joints,racking out joints,watering and scaffolding, excetra complete. (For Ground Floor) (using ARTIFICIAL SAND) 1.25 milimetre at weight 0.417 kilogram per running metre as per detailed drawing 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 5 milimetre thick plain glass with all required screws and nuts excetra complete. - With powder coating without box. (For Ground Floor)</p>	6874.00	One Cubic Metre	742392.00
72.900 Square Meter	<p>ITEM NO : 12</p> <p>Providing and fixing in position (as per Indian Standard : 1868/1982) aluminium sliding window of two tracks with rectangular pipe having overall Metre dimentsions 63.50 milimetre X 38.10 milimetre X 1.02 milimetre at weight 0.547 kilogram per running metre and window frame bottom track section 61.85 milimetre X 31.75 milimetre X 1.20 milimetre at weight 0.695 kilogram per running metre. Top and side track section 61.85 milimetre X 31.75 milimetre X 1.30 milimetre at weight 0.659 kilogram per running metre. The shutter should be of bearing bottom 40 milimetre X 18 milimetre X 1.25 milimetre at weight 0.417 kilogram per running metre. Interlocking seccion 40 milimetre X 18 milimetre X 1.10 milimetre at weight 0.469 kilogram per running metre and handle section 40 milimetre X 18 milimetre X 1.25 milimetre at weight 0.417 kilogram per running metre and top section 40 milimetre X 18 milimetre X 1.25 milimetre at weight 0.417 kilogram per running metre as per detailed drawing 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 nvertical section of shutter including 5 milimetre thick plain glass with all required screws and nuts excetra complete. - With powder coating without box. (For Ground Floor)</p>	5606.00	One Square Metre	408677.4

Quantity	Description	Rate	Unit	Amount
813.00 Square Meter	<p>ITEM NO : 13</p> <p>Providing and laying vitrified mirror / glossy finish tiles decorative type having size 590 milimetre to 605 milimetre X 590 milimetre to 605 milimetre of 8 milimetre to 10 milimetre thickness and confirming to Indian Standard 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, excetra complete. (using ARTIFICIAL SAND).</p>	573.00	One Square	465849.00
695.00 Square Metre	<p>ITEM NO : 14</p> <p>Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 milimetre width (tolerance +/- 2 milimetre), moulded at site using mechanical press dies to the desired curve and shape to form 605 milimetre wide interlocking panels. The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 32.50 metre having arch rise as 6.50 metre, arch length 37.70 metre. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.60 milimetre (tolerace + / - 0.02 milimetre) with alloy coating</p>	2176.00	One Square Metre	1512320.00
525.000 Square Meter	<p>ITEM NO : 15</p> <p>Providing and fixing of galvanised iron Lay in Plain metal ceiling consisting of 600 milimetre X 600 milimetre Lay in tiles of pre coated galvanized steel in 0.5 milimetre thickness in Global white color tile to be laid on Armstrong or equivalent grid systems with 15mm wide T - section flanges color white having rotary stitching on the Main Runner, 1200 milimetre and 600 milimetre Cross Tees. Providing and fixing of GI Lay in Plain metal ceiling consisting of 600 milimetre X 600 milimetre Lay in tiles of pre coated galvanized steel in 0.5 milimetre thickness in Global white color tile to be laid on grid systems with 15 milimetre wide T - section flanges color white having rotary stitching on the Main Runner, 1200 milimetre and 600 milimetre Cross Tees. products approved as per GRIHA and BS 476, excetra complete</p>	2008.00	One Square Metre	1054200.00

Quantity	Description	Rate	Unit	Amount
541.50 Square	<p>ITEM NO : 16</p> <p>Providing internal cement plaster 12 milimetre thick in a single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing, excetra complete. (For Ground Floor) (using ARTIFICIAL SAND).</p>	257.00	One Square Metre	139165.50
1341.52 Square	<p>ITEM NO : 18</p> <p>Providing and applying plastic emulsiton paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, Metre preparing the surface (including the primer coat), excetra complete. (For Ground Floor) SSR 2022-23 I/P 36.12/227 Add for SSR I/P 35.21/225</p>	69.00	One Square Metre	92564.88
425.960 Square Meter	<p>ITEM NO : 19</p> <p>Providing and applying two coats of exterior acraylic emulsion paint confirming to corresponding Indian Standard of approved manufacturer and of approved colour to the plastered surfaces including cleaning, preparing the plaster surfaces, applying primer coat, scaffolding, if necessary and watering the surface for two days, excetra complete. (For Ground Floor) SSR 2022-23 I/P 35.25/225</p>	218.00	One Square Meter	292859.28
5.000 Number	<p>ITEM NO : 20</p> <p>Providing and constructing brick masonry inspection chamber 60centimetre X 45 centimetre X 90 centimetre including 1:4:8 cement concrete foundation, 1:2:4 cement concrete channels, half round glazed stoneware pipes, brick masonary, plastering from inside and farne fixed in cement concrete Cover medium duty 140 kilogram with frame excetra complete. (using ARTIFICIAL SAND). Rate as per R. A. No. - 15</p>	8069.00	One Number	40345.00

Quantity	Description	Rate/Unit	Amount
1.000 Number	ITEM NO : 21 Providing and fixing hume pipe septic tank 900 milimetre diameter with vent pipe and cap including excavation and laying. Rate as per R. A. No. - 16	14515.00 One Number	14115.00
1.000 Number	ITEM NO : 22 Providing soak pit of size 120 centimetre X 120 centimetre X 120 centimetre including excavating and filling with brick bats. SSR 2022-23 I/P 42.19/275	2590.00 One Number	2590.00
50.000 Runnig Meter	ITEM NO : 23 Providing, laying and fixing polyvinyl chloride pipe of 110 milimetre diameter with fittings such as bends, tees, reducers, clamps, excetra including necessary excavation, trench filling, excetra complete.Including removing existing pipe line if necessary and conveying and stacking thesame in PWD chowky or as directed excetra complete. SSR 2022-23 I/P 42.28/277	483.00 One Runnig Meter	24150.00
1.000 Number	TEM NO : 24 Providing and fixing Orissa type white glazed earrthenware 575 milimetre 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 excetra complete. (For Ground Floor) SSR 2022-23 I/P 42.30/277	6374.00 One Number	6374.00

Quantity	Description	Rate/Unit	Amount
2000.000 P Litre	ITEM NO : 25 roviding and fixing high density polyethylen container one piece moulded water tank made out of high density polyethylen and built corrugated inclusive of delivery upto destination housing, fixing of accessories such as inlet, outlet, overflow pipe inclusive of all Taxes - Capacity between 1000 litres to 20000 litres. SSR 2022-23 I/P 42.54/280	11.00 One Litre	22000.00
50.000 Running	ITEM NO : 26 Providing and fixing on walls / ceiling / floor, 15 milimetre diameter chlorinated polyvinyl chloride with necessary fittings, remaking good the demolished portion, excetra complete.Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed excetra complete. (For Ground Floor) SSR 2022-23 I/P 42.55/280	190.00 One Running Meter	9500.00
20.000 Running Meter	ITEM NO : 27 Providing and laying in trenches 25 milimetre Running diameter chlorinated poly vinyl chloride pipe Running Metre including necessary excavation, fittings, refilling Metre trenches, excetra complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed excetra complete. SSR 2022-23 I/P 42.63/281	277.00 One Running Meter	5540.00
2.000 Number	TEM NO : 28 Providing and fixing 10 centimetre poly vinyl chloride nahani trap with grating, excetra complete. (For Ground Floor) SSR 2022-23 I/P 42.67/281	469.00 One Number	938.00

Quantity	Description	Rate/Unit	Amount
100.000 Number	<p>ITEM NO : 29</p> <p>Providing and fixing polyvinyl chloride Rain water Running pipes of 110 milimetre outer and having wall thikness of 2.2 milimetre to 2.7 milimetre confirming to Indian standared 13592-1992 including proper rain water receiving recess with polyvinyl chloride plug, bends, necessary fittings, such as offset shoes, including fixing the pipe on wall using approved wooden cleats projecting 25 milimetre to 40 milimetre from face of wall a fixing with clips of approved quality and number, filing the joint using rubber gasket with solven cement and properly resting the shoe of pipes on cement concrete or masonry blocks, including necessary scaffolding andpolyvinyl chloride maintenance for three years for any leakages or dislocations of pipes. All the fittings and additional two piece socket clips shall be got approved from engineer in charge etc. complete.</p> <p>SSR 2022-23 I/P 42.87/283</p>	459.00 One Running Meter	45900.00
10.000 Number	<p>ITEM NO : 30</p> <p>Providing and fixing 15 milimetre diameter screw down bib / stop tap of brass including necessary socket union nut complete. (For Ground Floor)</p> <p>SSR 2022-23 I/P 41.40/270</p>	439.00 One Number	4390.00
2.000 Number	<p>ITEM NO : 31</p> <p>Providing and fixing white glazed earthenware wash Number hand basin of 55 centimetre X 40 centimetre size including cold water piller tap / cold and hot</p>	5318.00 One Number	10636.00

Quantity	Description	Rate/Unit	Amount
1.0 Number	ITEM NO : 32 Standard Consistency, Fineness, Specific Gravity, Setting Time Initial and Final). Compressive Strength, Soundness Test for Cement	3550.00 One Number	3550.00
2.0 Number	ITEM NO : 33 Fineness Modulus (Sieve Analysis). Silt and Clay Content Test for Sand	1300.00 One Number	2600.00
4.0 Number	ITEM NO : 34 Compressive Concrete Cube Strength Cement	650.00 One Number	=2600.00
1.0 Number	ITEM NO : 35 Sieve Analysis Test for Metal below 40 millimetre	650.00 One Number	650.00
1.0 Number	ITEM NO : 36 Water Absorption, Specific Gravity, Impact Value, Crushing Value Test for Metal below 40 millimetre	2450.00 One Number	2450.00
1.0 Number	ITEM NO : 37 Tensile Strength, Percent Elongation, Yield Stress, Weight per Metre Bend / Rebend Test, Proof Stress (Steel Bar upto 16 millimetre)	1200.00 One Number	1200.00
1.0 Number	ITEM NO : 38 Tensile Strength, Percent Elongation, Yield Stress, Weight per Metre Bend / Rebend Test, Proof Stress (Steel Bar above 16 millimetre)	1200.00 One Number	1200.00
1.0 Number	ITEM NO : 39 Liquid Limit & Plastic Limit for Plinth Filling	1500.00 One Number	1500.00

Quantity	Description	Rate/Unit	Amount
1.0 Number	ITEM NO : 40 Compressive Strength of Cement Mortar	650.00 One Number	650.00
1.0 Number	ITEM NO : 41 Water Absorption, Compressive Bricks Strength, Efflorescence Test for Burnt	2050.00 One Number	2050.00
300 Meter Cube	ITEM NO : 41 Royalty	211.95 One Meter Cube	63585.00

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Add GST18%	1370346.6
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	<b>8983383.00</b>