

PROPOSED SHED FOR MAHALESHWAR STRAWBERRY AND ORGANIC FARMER PRODUCER COMPANY LIMITED, GAT NO. -364, AMBARKAL TAL, MAHALESHWAR, DIST. SATARA, MAHARASHTRA.

PROFORMA II  
Stamp of Approver of Plans

PROFORMA I - Area Statement  
1. Area of plot (Minimum area of A, B, C to be considered)  
(a) As per ownership document (1/2, CTS extract) 2100.00sqm  
(b) As per measurement sheet 2100.00sqm  
(c) As per measurement sheet 1680.00sqm

2. Deduction for:  
(a) Proposed D.P./D.F. Road adjoining Area/Service Road/Highway/width  
(b) Area D.P. Reservation area  
(c) Utility area of plot (1-3)  
(d) Arrears (if applicable) 1680.00sqm  
(e) Re-surveyed  
(f) Adjustment of 20% if any  
(g) Plot area proposed 1680.00sqm  
(h) Recreational Open Space (if applicable)  
(i) (A) Required  
(ii) (B) Proposed  
(j) Internal Road (if applicable)  
(k) Built up area with reference to Basic F.S.I. as per floor road width (Sr. No. Schematic FSI of 1.00)  
(l) Minimum permissible premium (P) - based on (i) Proposed FSI on account of premium (0.3)  
(m) Proposed FSI / TDR loading  
(n) In-situ area against D.P. road (2.0 x Sr. No. 2) (if any)  
(o) In-situ area against Arrears Space (if available) (2.00 x Sr. No. 4 (D) and for (C))  
(p) TDR area  
(q) Total In-situ / TDR loading proposed (1)  
(r) (A) Proposed FSI area under Chapter No. 7  
(s) (B) Proposed FSI area under Chapter No. 7  
(t) Total entitlement of FSI in the proposed plot  
(u) Common area FSI upto 60% or 80% width  
(v) Common area FSI upto 60% or 80% width  
(w) Common area FSI upto 60% or 80% width  
(x) Common area FSI upto 60% or 80% width  
(y) Common area FSI upto 60% or 80% width  
(z) Common area FSI upto 60% or 80% width

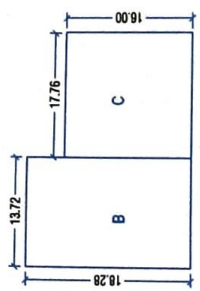
11. In-situ FSI / TDR loading  
(a) In-situ area against D.P. road (2.0 x Sr. No. 2) (if any)  
(b) In-situ area against Arrears Space (if available) (2.00 x Sr. No. 4 (D) and for (C))  
(c) TDR area  
(d) Total In-situ / TDR loading proposed (1)  
(e) (A) Proposed FSI area under Chapter No. 7  
(f) (B) Proposed FSI area under Chapter No. 7  
(g) Total entitlement of FSI in the proposed plot  
(h) Common area FSI upto 60% or 80% width  
(i) Common area FSI upto 60% or 80% width  
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(u) Common area FSI upto 60% or 80% width  
(v) Common area FSI upto 60% or 80% width  
(w) Common area FSI upto 60% or 80% width  
(x) Common area FSI upto 60% or 80% width  
(y) Common area FSI upto 60% or 80% width  
(z) Common area FSI upto 60% or 80% width

12. Description of the property  
13. Declaration  
14. Maximum utilization limit of FSI (building)  
15. (as per Regulation No. 81 of 82 or 83 or 84 as applicable) 1.1 or 1.1  
16. (as per Regulation No. 81 of 82 or 83 or 84 as applicable) 1.1 or 1.1  
17. (as per Regulation No. 81 of 82 or 83 or 84 as applicable) 1.1 or 1.1  
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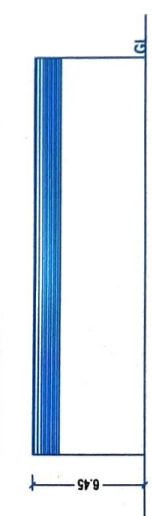
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BRIEF SPECIFICATIONS  
LOAD BEARING STRUCTURE  
GI SHEET FOR ROOFING  
SAND FACED CEMENT PLASTER EXTERNALLY  
NEERU FINISHED PLASTER INTERNALLY  
SHAHABAD TILE FLOORING

AREA CALCULATION FOR PROPOSED SHED		FACTORY	
GODAWN UNIT B	= 1	18.28	X 13.72 = 250.80
WINE PRODUCTION UNIT C	= 1	17.76	X 16.00 = 284.16
TOTAL BIUP AREA		= 534.9616	



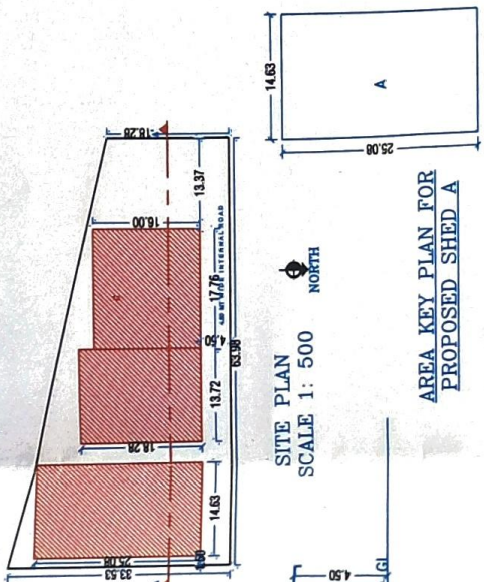
AREA KEY PLAN FOR PROPOSED SHED B AND C  
SCALE: NTS



WEST SIDE ELEVATION  
SCALE 1: 200



SECTION AT A-A



SITE PLAN  
SCALE 1: 500

AREA KEY PLAN FOR PROPOSED SHED A

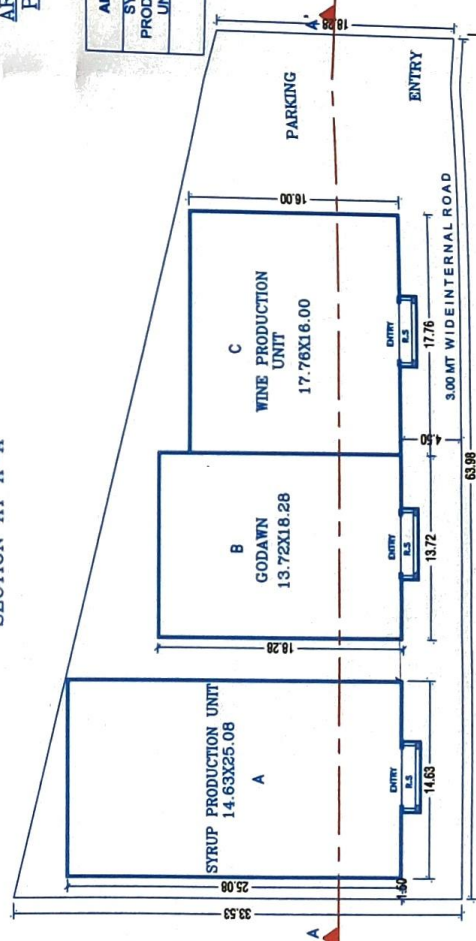
AREA CALCULATION FOR PROPOSED FACTORY SHED			
SYRUP PRODUCTION UNIT A	= 1	14.63	X 25.08 = 366.92
TOTAL BIUP AREA		= 366.9204	

SCHEDULE OF OPENINGS

SRLNO	SYMBOL	SIZE	NO
1	RS	2.30X3.00M	3
2	D	0.90X2.10M	2
3	DZ	0.75X2.10M	2

LEGENDS

- PLOT BOUNDARY: THICK BLACK
- PROPOSED WORK: RED
- WATER LINE: BLUE DOTTED
- DRAINAGE LINE: RED DOTTED



FACTORY SHED PLAN  
SCALE 1: 200

Er.Sunil N.Nimbalkar  
M.E.(Civil)  
Engineer

MAHALESHWAR STRAWBERRY AND ORGANIC FARMER PRODUCER COMPANY LIMITED, GAT NO. -364, AMBARKAL TAL, MAHALESHWAR, DIST. SATARA, MAHARASHTRA.  
Stamp of Approver of Plans

19/09/2022 | 1: 100

Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

RECAPITULATION SHEET

NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

BASED ON STATE SSR 2022-23

PARTICULARS	Capacity	Unit	AMOUNT IN RS.	Cost per MT	Cost per Sqm
1 SUB WORK I :- Civil work	450	M.T.	Rs. 4338056.00	9640.12	15584.38
2 SUBWORK II :- Electrification Work	450	M.T.	Rs. 89510.00	198.91	321.56
3 SUB WORK III :- Lab Testing.	450	M.T.	Rs. 35205.00	78.23	126.47
4 SUBWORK IV:- Royalty Charges	450	M.T.	Rs. 105628.00	234.73	379.47
		<u>Total</u>	<u>Rs. 4568399.00</u>	<u>10152.00</u>	<u>16411.88</u>
Add GST @ 18%	18%		Rs. 822311.82		
Add Labour Insurance @ 0.5%	0.50%		Rs. 22842.00		
		<u>Total</u>	<u>5413552.82</u>	<u>12030.12</u>	<u>19448.08</u>
		Grand total Rs.	5413552.82		

Prepared by

Checked by

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 Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited  
 At Kheengar Tal. Mahabaleshwar Dist. :- Satara  
 NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

SUBWORK IV:- Royalty Charges

Item.. No.	Description of item	Executed Quantity	Cement in bags	Quantity of Material for Royalty Cu. M			Rubble / Rd metal	Remark
				SAND	Crusher METAL	MURUM		
1	2	3	4	5	6	7	8	9
3	Providing and laying Cast in situ/Ready Mix cement	31.75		0.425	13.494			
4	Providing and laying Cast in situ/Ready Mix cement	14.03		0.425	5.9628			
5	Providing and laying Cast in situ/Ready Mix cement	14.98		0.425	6.3665			
6	Providing and laying Cast in situ/Ready Mix cement	27.37		0.425	11.632			
7	Providing and casting in situ cement concrete M-20 of	0.90		0.425	0.3825			
8	Providing & laying in situ cement concrete M-20 of trap	1.11		2.425	2.6918			
9	Providing and laying in situ cement concrete M-20 with	248.57		0.425	105.64			
11	Providing second class Burnt Brick masonry with	16.50		0.32	5.28			
12	Providing second class Burnt Brick masonry with	68.80		0.32	22.016			
13	Filling in plinth and floors with contractors	149.14				1.2	178.97	
14	Providing soling using 80 mm size trap metal in 15 cm.	52.17					1.32	68.86
15	Providing internal cement plaster 12mm thick in single	384.66		0.015	5.7699			
16	Providing sand faced plaster externally in cement	543.19		0.033	17.925			
	<b>Total</b>		<b>0.00</b>	<b>197.16</b>	<b>0.00</b>	<b>178.97</b>	<b>68.86</b>	



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Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited						
At Kheengar Tal.Mahabaleshwar Dist. :- Satara						
NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.						
Elect.C.S.R.2022-23 & M.R.						
SUBWORK II :- Electrical Work.						
I.N.	DESCRIPTON OF ITEM	Qty	UNIT	I.N./ P.N	Total Rate/Unit	Total Amount
1	2	3	4	5	9	10
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	36.00	each	1-6-2/8	106	3816.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	36.00	each	1-6-4/8	129	4644.00
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia,CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	5.00	each	1-6-6/8	137	685.00
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box.CSR2019-20 Item No 1-7-7	4.00	Point	1-7-6/12	803	3212.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	10.00	sqm	6-1-9/106	1040	10400.00
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR2019-20 Item No 5-4-1Additional specification no. SW-SWR/MCBDB	2.00	Each	5-4-1/91	2356	4712.00
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each	5-3-17/91	772	1544.00

8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each	5-3-7/90	510	1020
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results. CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each	9-1-3/160	6055	6055.00
10	Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL	25.00	Rmt	7-1-30/128	261	6525.00
11	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10	25.00	Rmt	7-6-10/140	241	6025.00
12	Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL	2.00	Each	7-7-4/141	196	392.00
13	Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU	3.00	Each	7-9-2/142	35	105.00
14	Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB	1.00	Each	5-4-14/92	15	15.00
15	Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete. CSR 2019-20 Item No 2-5-4 Additional specification No. FGODF/ FLS2.	2.00	Each	2-5-4/31	1670	3340.00
16	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC	2.00	Each	2-9-1/34	4825	9650.00
17	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length buried in earth upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item. CSR 2020-21 Item No 44.18 Additional Spec No:BDW 1 PAGE No 581	1.00	nos	S.S.R.2022-23-44.18/295	25784	25784.00

18	Providing and fixing copper strip 25mm wide and 3mm thick for lightening conductor including fixing with screws required scaffolding etc.complete Note- Lightening conductor and earthing pits is not considered in this item. CSR 2020-21 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge	2.00	Rmt	S.S.R.2022- 23- 44.19/295	793	1586.00
						<b>89510.00</b>

**Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited**  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

**NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.**

**SUB WORK III :- Lab Testing.**

**BASED ON STATE SSR 2022-23**

Statement showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of Tests	Rate per Test	Amount	Remarks
1	Cement	482.90	Bags	Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	3770.00	3770.00	one test per 1000 Bags
2	Concrete M-10 grade	80.01	cum	i) Concrete cube compressive strength (Set of 3 Cubes)	6	690.00	4140.00	1 test for 15 cum
3	Concrete M-20 grade	49.63	cum	i) Mix Design with all tests on basic materials	1	13755.00	13755.00	One per 500 cum of concrete
				ii) Concrete cube compressive strength (Set of 3 Cubes)	4	690.00	2760.00	1 test for 15 cum
5	Crushed metal for concrete	79.48	cum	i) Water absorption, Specific gravity, Impact value, Crushing value	1	2600.00	2600.00	one test per 1000 cum per source / change in source.
6	Bricks	40517.50	cum	Crushing value, Water absorption, & Specific Gravity	1	2175.00	2175.00	one test per 50000 Nos. of bricks or part.
8	TMT steel bars	5.53	M.T.	Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	1	1595.00	1595.00	1 test per 10.00 M.T. and one for each dia. Of use bar
9	Sand	87.60	cum	Fineness Modulus, silt & clay content.	1	1380.00	1380.00	1 test per source
10	Murum in plinth	149.14	cum	i) Plasticity Index	1	1170.00	1170.00	1 test per 1000 Cum.
				ii) Field Density of compacted layer	1	1860.00	1860.00	1 test per 250 Sq.m
					TOTAL		35205.00	

Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

LEADS & RATES OF MATERIALS

BASED ON STATE SSR 2022-23

S.N.	MATERIAL & LOCATION	UNIT	<u>Lead in KM</u>	Actual lead	LEAD DIFF.	Pay load Factor	NET	Rate /unit
1	2	3	4	5	6	7	8	9
1	SAND	CU M	<u>5</u>	263.19	263.19	1.00	263.19	263.19
2	CRUSHED METAL UPTO 40 MM	CU M	<u>5</u>	263.19	263.19	1.00	263.19	263.19
3	METAL ABOVE 40 MM	CU M	<u>5</u>	252.22	252.22	1.00	252.22	252.22
4	RUBBLE	CU M	<u>5</u>	321.99	321.99	1.00	321.99	321.99
5	BRICKS	1000 NOS	<u>5</u>	531.38	531.38	1.00	531.38	531.38
6	HARD MURUM	CU M	<u>2</u>	203.32	203.32	1.00	203.32	203.32
7	SOFT MURUM	CU M	<u>2</u>	203.32	203.32	1.00	203.32	203.32
8	ROYALTY CHARGES	CU M	<u>1</u>	237.37		1.00	0.00	0.00

Jr.Engineer

Sectioanl Engineer

		QTY	RATE	AMOUNT
1 C.C. 1:3:6 for foundation & bedding	SAND	0.47	263.19	123.70
	METAL	0.94	263.19	247.40
2 P & C U.C.R masonry	SAND	0.35	263.19	92.12
	RUBBLE	1.16	321.99	373.51
3 P & C B.B. masonry in plinth & S.S	SAND	0.32	263.19	84.22
	BRICKS	0.475	531.38	252.41
4 P & L R.C.C. (M-20) 1:1.5:3	SAND	0.425	263.19	111.86
	METAL	0.85	263.19	223.71
4-A P & L R.C.C. 1:2:4	SAND	0.425	263.19	111.86
	METAL	0.85	263.19	223.71
5 P & A 12 mm tk plaster	SAND	0.015	263.19	3.95
6 P & A 20 mm tk plaster	SAND	0.025	263.19	6.58
7 P & F ploished shahabad for sills & dado	SAND	0.022	263.19	5.79
8 P & C half brick wall	sand	0.034	263.19	8.95
	bricks	0.12	531.38	63.77
9 P & a flush pointing in c.m.1:3 for stone masonry	sand	0.003	263.19	0.79
10 M.S.Channel	KG			0.00
11 Wind ties 1.90 kg / mtr	RMT			0.00
12 M.S.angle sill 4.68 kg / mtr.	RMT			0.00
13 M.S.ladder 18.40 kg/ mtr.	RMT			0.00
14 V1 & V2 vents 43.33 kg/m2.	SQM.			0.00
15 P & L R. C. C. M30	SAND	0.425	0.00	0.00
	METAL	0.85	0.00	0.00

The centre falls under sugarcane area / corporation /Trible	Building	Road
Hence percentage required to be added will be percentage	0.00%	0.00%
Municipal Council Area	4.00%	10.80%
TOTAL	4.00%	10.80%
Dedn for SCADA	-25.00%	5.00%

## Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited

At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

## SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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.	35.71	cum	21.01/153	239.00						239.00	0.00	239.00	8535.00
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and	29.06	CUM	21.05/153	365.00						365.00	0.00	365.00	10607.00
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel gneiss metal for foundation and bedding including	31.75	CUM	24.01/175	5830.00	-126.00	111.86	223.71			6039.57	0.00	6039.57	191756.00
4	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip	14.03	cum	25.11/178	7104.00	-126.00	111.86	223.71			7313.57	0.00	7313.57	102609.00
5	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	14.98	cum	25.31/179	13783.00	-126.00	111.86	223.71			13992.57	0.00	13992.57	209609.00
6	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	27.37	cum	25.50/181	12269.00	-126.00	111.86	223.71			12478.57	0.00	12478.57	341538.00
7	Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed designs and drawings including centering, formwork, cover blocks	0.90	CUM	26.05/184	13932.00	-126.00	111.86	223.71			14141.57	0.00	14141.57	12727.00
8	Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including	1.11	cum	26.09/184	13932.00	-126.00	0.00	111.86			13917.86	0.00	13917.86	15449.00
9	Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20	248.57	SQM	33.30/216	796.00	-126.00	111.86	223.71			1005.57	0.00	1005.57	249955.00

NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
1	2	3	4	5	6	-126.00 7	8	9	10	11	12	13	14	15
10	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns.	5.53	MT	26.33/188	89703.00						89703.00	0.00	89703.00	495726.00
11	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	16.50	Cum	27.01/197	7755.00		252.41				8007.41	0.00	8007.41	132122.00
12	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking	68.80	Cum	27.05/197	7994.00		252.41				8246.41	0.00	8246.41	567353.00
13	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm,	149.14	CUM	21.37/157	599.00						599.00	0.00	599.00	89335.00
14	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. Complete	52.17	CUM	21.40/157	1454.00						1454.00	0.00	1454.00	75855.00
15	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions	384.66	sqm	32.04/209	278.00	3.95					281.95	0.00	281.95	108455.00
16	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in	543.19	sqm	32.11/209	639.00	3.95					642.95	0.00	642.95	349244.00
17	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the	384.66	SQM	36.11/227	48.00						48.00	0.00	48.00	18464.00
18	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including	543.19	SQM	35.16/224	97.00						97.00	0.00	97.00	52689.00

NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
1	2	3	4	5	6	-126.00	8	9	10	11	12	13	14	15
19	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs	6.60	MT	23.04/173	119459.00						119459.00	0.00	119459.00	788429.00
20	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	337.50	SQM	38.34/236	1173.00						1173.00	0.00	1173.00	395888.00
21	Providing and fixing of colour coated Zinaluminium R) AZ150 ( min 150 gms/sq.mt. Total on each side ) profiled sheets for roofing. The	7.00	SQM	38.35/237	751.00						751.00	0.00	751.00	5257.00
22	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	4.32	SQM	39.24/248	4829.00						4829.00	0.00	4829.00	20861.00
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and	12.84	SQM	39.30/249	4827.00						4827.00	0.00	4827.00	61979.00
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps	6.00	Rmts	41.56/271	1128.00						1128.00	0.00	1128.00	6768.00
25	Providing and fixing wind oppareted tarbo S S. ventiletar systim (24 inch dia.) over exsiting roof	4.00	Nos	42/529	9702						0.00	0.00	0.00	0.00
26	Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface	248.57	Sq.m	21.24/156	108.00						108.00	0.00	108.00	26846.00

TOTAL RS 4338056.00

NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada -126.00 7	LEAD CHARGES			LIFTS & RA 11	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11 12	Area 13	12 TO 13 14					

SUBWORK II :- Electrification Work

1	Supplying & erecting mains with 2x1.5 sq.mm. and	36.00	Each	1-6-2/11	106							106.00	0.00	106.00	3816.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and	36.00	Rmt	1-6-4/11	129							129.00	0.00	129.00	4644.00
3	Supplying & erecting mains with 2x4 sq.mm. and	5.00	Rmt	1-6-6/11	137							137.00	0.00	137.00	685.00
4	Supplying and erecting Ceiling rose / Batten holder /	4.00	Each	1-7-7/13	803							803.00	0.00	803.00	3212.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3	10.00	kg	6-1-9/114	1040.00							1040.00	0.00	1040.00	10400.00
6	Supplying and erecting triple pole and neutral	2.00	Each	5-4-1/98	4712.00							4712.00	0.00	4712.00	9424.00
7	Supplying, erecting & marking FPMCB 40A to 63A	2.00	Each	5-3-17/97	1544.00							1544.00	0.00	1544.00	3088.00
8	Supplying, erecting & marking DPMCB 6 A to 32 A	2.00	Each	5-3-7/96	510							510.00	0.00	510.00	1020.00
9	Supplying & erecting conventional spike Providing	1.00	Each	9-1-3/161	6055							6055.00	0.00	6055.00	6055.00
10	Supplying, erecting & terminating XLPE armoured	25.00	Rmt	7-1-30/128	261							261.00	0.00	261.00	6525.00
11	Supplying and laying (including excavation of	25.00	Rmt	7-6-10/140	241							241.00	0.00	241.00	6025.00
12	Supplying & erecting Siemens type brass cable	2.00	Each	7-7-4/141	196							196.00	0.00	196.00	392.00
13	Supplying & erecting crimping type copper lugs for	3.00	Each	7-9-2/142	35							35.00	0.00	35.00	105.00
14	Supplying and erecting single pole and neutral	1.00	Each	5-4-14/99	15							15.00	0.00	15.00	15.00
15	Supplying and erecting LED Street light fitting	2.00	Each	2-5-4/35	1670							1670.00	0.00	1670.00	3340.00
16	Supplying and erecting Street light bracket made	2.00	Each	2-9-2/40	4825							4825.00	0.00	4825.00	9650.00
17	to 44.18 Additional Spec No:BDW 1 pAGE No 581	1.00	0	44.18	25784							25784.00	0.00	25784.00	25784.00
18	Providing and fixing copper strip 25mm wide and	2.00	Rmt	44.19/581	793							793.00	0.00	793.00	1586.00

TOTAL RS 95766.00

Jr.Engineer

Sectioanl Engineer

**Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited**  
**At Kheengar Tal.Mahabaleshwar Dist. :- Satara**

NAME OF WORK :- PROPOSED CONSTRUCTION OF 450 MT Cap WH BLDG.

BASED ON STATE SSR 2022-23

MEASUREMENT SHEET

SUB WORK I: -Civil work

Item Nos	Description of Items	NO.S		LENGTH	BREDTH	DEPTH / HIGHT	TOTAL QUANTITY	Unit
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....							cum
	<b>Column footing</b>							
	Column C1	1	X 8	X 1.65	X 1.45	X 0.40	= 7.66	
	Column No. C3	1	X 4	X 1.80	X 1.80	X 0.40	= 5.18	
	Column No.C2 END	1	X 4	X 1.65	X 1.45	X 0.40	= 3.83	
	Column No.Platform	1	X 4	X 1.30	X 1.30	X 0.40	= 2.70	
	<b>For Ground Beam PANEL</b>							
	C1-C1 middle	2	X 2	X 4.15	X 0.65	X 0.40	= 4.32	
	C1-C3 END WALL	2	X 2	X 3.7	X 0.65	X 0.40	= 3.85	
	C3-C2	2	X 2	X 4.15	X 0.65	X 0.40	= 4.32	
	C2-C2 M	2	X 2	X 3.7	X 0.65	X 0.40	= 3.85	
						Total	35.71	
						say	35.71	
2	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) By Mechanical Mean...							cum
	<b>Column footing</b>							
	Column C1	1	X 8	X 1.65	X 1.45	X 0.60	= 11.48	
	Column No. C3	1	X 4	X 1.8	X 1.8	X 0.60	= 7.78	
	Column No.C2 END	1	X 4	X 1.65	X 1.45	X 0.60	= 5.74	
	Column No.Platform	1	X 4	X 1.30	X 1.30	X 0.60	= 4.06	
						Total	29.06	
						say	29.06	
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)...							CUM

<b>Bed concrete in WH.</b>	1	X	1	X	21.54	X	11.54	X	0.10	=	24.86
<b>Column footing</b>											
Column C1	1	X	8	X	1.65	X	1.45	X	0.10	=	1.91
Column No. C3	1	X	4	X	1.8	X	1.8	X	0.10	=	1.30
Column No.C2 END	1	X	4	X	1.65	X	1.45	X	0.10	=	0.96
Column No.Platform	1	X	4	X	1.30	X	1.30	X	0.10	=	0.68
<b>For Ground Beam PANEL</b>											
C1-C1 middle	2	X	2	X	4.15	X	0.65	X	0.05	=	0.54
C1-C3 END WALL	2	X	2	X	3.7	X	0.65	X	0.05	=	0.48
C3-C2	2	X	2	X	4.15	X	0.65	X	0.05	=	0.54
C2-C2 M	2	X	2	X	3.7	X	0.65	X	0.05	=	0.48
									Total	=	31.75
									say	=	31.75

-- 5 --

- 4 Providing and laying Cast 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 ,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 (Natural Sand / Crushed sand VSI Grade finely washed etc) CUM

<b>Column footing</b>											
Column C1	1	X	8	X	1.35	X	1.15	X	0.45	=	5.59
Column No. C3	1	X	4	X	1.50	X	1.50	X	0.45	=	4.05
Column No.C2 END	1	X	4	X	1.35	X	1.15	X	0.45	=	2.79
Column No.Platform CP	1	X	4	X	1.00	X	1.00	X	0.40	=	1.60
									Total		14.03
									say		14.03

- 5 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 drawings or as directed including steel centering, formwork, cover blocks compacting and 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 (Natural Sand / Crushed sand VSI Grade finely washed etc) C.um

<b>Column up to plinth</b>											
Column C1	1	X	8	X	0.30	X	0.45	X	1.58	=	1.71
Column No.C2	1	X	4	X	0.30	X	0.45	X	1.58	=	0.85
Column No. C3	1	X	4	X	0.34	X	0.34	X	1.58	=	0.73
Column No.Platform	1	X	4	X	0.57	X	0.30	X	1.58	=	1.08
<b>Column above plinth</b>											
											0.00
Column C1	1	X	8	X	0.30	X	0.45	X	4.85	=	5.24
Column No.C2	1	X	4	X	0.30	X	0.45	X	4.85	=	2.62
Column No. C3	1	X	4	X	0.34	X	0.34	X	4.85	=	2.24
Column near R.S.	1	X	4	X	0.15	X	0.34	X	2.50	=	0.51
									Total		14.98
									say		14.98

- 6 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).... C.um

Ground Beam / Plinth Beams											
<b>Ground Beam</b>											
C1-C1 middle	2	X	2	X	4.15	X	0.34	X	0.45	=	2.54
C1-C3 END WALL	2	X	2	X	3.7	X	0.34	X	0.45	=	2.26
C3-C2	2	X	2	X	4.15	X	0.34	X	0.45	=	2.54
C2-C2 M	2	X	2	X	3.7	X	0.34	X	0.45	=	2.26
<b>Plinth Beam</b>											
C1-C1 middle	2	X	2	X	4.15	X	0.34	X	0.45	=	2.54
C1-C3 END WALL	2	X	2	X	3.7	X	0.34	X	0.45	=	2.26
C3-C2	2	X	2	X	4.15	X	0.34	X	0.45	=	2.54
C2-C2 M	2	X	2	X	3.7	X	0.34	X	0.45	=	2.26
<b>Platform beam</b>											
PB1	1	X	1	X	4.09	X	0.23	X	0.45	=	0.42
PB2	1	X	1	X	4.09	X	0.23	X	0.45	=	0.42
PB3	2	X	1	X	1.045	X	0.23	X	0.30	=	0.14
OFFSET	1	X	1	X	4.090	X	0.205	X	0.15	=	0.13
OFFSET	2	X	1	X	1.595	X	0.205	X	0.15	=	0.10
<b>LINTELS</b>											
OVER V1	1	X	7	X	1.950	X	0.34	X	0.30	=	1.39
<b>DOOR BEAM</b>											
C1-C1 middle	1	X	1	X	4.36	X	0.23	X	0.30	=	0.30
<b>EAVES BEAM</b>											
C1-C1 middle	2	X	2	X	4.36	X	0.23	X	0.30	=	1.20
C1-C3 END WALL	2	X	2	X	3.82	X	0.23	X	0.30	=	1.05
C3-C2	2	X	2	X	4.85	X	0.23	X	0.30	=	1.34
C2-C2 M	2	X	1	X	4.09	X	0.23	X	0.30	=	0.56
<b>AT GABLE</b>											
C2-C2 @ 1.50 MTR	1	X	2	X	4.04	X	0.23	X	0.30	=	0.56
C2-C2 @3.00 MTR	1	X	2	X	4.04	X	0.23	X	0.30	=	0.56
										Total	27.37
										say	27.37

-- 7 --

- 7 Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed CUM designs and drawings including centering, formwork, cover blocks 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 concrete mixer With natural sand.

Ventilators - V1 Long side	2	x	7	x	1.55	x	0.520	x	0.08	=	0.90
										Total	<b>0.90</b>
										Say	0.90

- 8 Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including dewatering if necessary centering, formwork, compaction, finishing the formed surface wit

PLATFORM SLAB	1	X	2	X	4.36	X	1.295	X	0.10	=	1.13
deduct column offset	-2	X	2	X	0.30	X	0.15	X	0.10	=	-0.02
										Total	1.11
										say	1.11

- 9 Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc. SQM

	1	X	1	x	21.54	X	11.54	X		=	248.57
										TOTAL NET QTY. =	248.57
										Say	248.57

- 10 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, linteis pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bass, binding with wires or tack welding and supporting as required complete ..... M.T

FOOTING	1	X	1	X	14.03	X	80.00	....	=	1122.40
COLUMN	1	X	1	X	14.98	X	90.00	....	=	1348.20
BEAM	1	X	1	X	27.37	X	110.00	....	=	3010.70
CHHAJJA	1	X	1	X	0.90	X	50.00	....	=	45.00
									TOTAL NET QTY. =	5526.30
									TOTAL NET QTY. =	5.53
									Say	5.53

- 11 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. Cum

For Plinth Work

**For PANEL**

C1-C1 middle	2	X	2	X	4.15	X	0.35	X	0.75	=	4.36
C1-C3 END WALL	2	X	2	X	3.7	X	0.35	X	0.75	=	3.89
C3-C2	2	X	2	X	4.15	X	0.35	X	0.75	=	4.36
C2-C2 M	2	X	2	X	3.7	X	0.35	X	0.75	=	3.89
									Total	=	16.50
									say	=	16.50

- 12 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. Cum

For Super Structure

**For PANEL**

C1-C1 middle	2	X	2	X	4.15	X	0.23	X	4.40	=	16.80
C1-C3 END WALL	2	X	2	X	3.7	X	0.23	X	4.40	=	14.98
C3-C2	2	X	2	X	4.15	X	0.23	X	4.40	=	16.80
C2-C2 M	2	X	2	X	3.7	X	0.23	X	4.40	=	14.98
Gable	0.5	X	2	X	15.70	X	0.23	X	2.75	=	9.93
									Total	=	<b>73.49</b>



- 16 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..... SqM

Outside									
Long wall	2	X	1	X	22.00	X	6.40	=	281.60
short wall	1	X	2	X	12.00	X	6.40	=	153.60
Gable wall	0.5	X	2	X	12.00	X	2.00	=	24.00
Column offset C1	6	X	1	X	0.74	X	6.40	=	28.42
C3	4	X	1	X	0.64	X	6.40	=	16.38
Ite C2	4	X	1	X	0.54	X	6.40	=	13.82
Weather sheds over									
V1 top, bottom	2	X	7	X	1.55	X	0.67	=	14.54
Sides	2	X	7	X	0.450	X	0.08	=	0.47
V 2 top, bottom	2	X	13	X	1.10	X	0.67	=	19.16
Sides	2	X	13	X	0.450	X	0.08	=	0.88
Deduction									
rolling shutter	1	X	1	X	1.80	X	2.10	=	3.78
v1	0.5	X	7	X	1.00	X	0.60	=	2.10
v2	0.5	X	13	X	1.30	X	0.45	=	3.80
Total								=	552.87
Dedu.								=	9.68
Net								=	543.19
Say								=	543.19

- 17 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats SqM including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete....

1	X	1.00	X	384.66	X	....	X	....	=	384.66	
TOTAL NET QTY. =										384.66	SQM
										384.66	SQM

- 18 Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old SQM plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.

1	X	1.00	X	543.19	X	....	X	....	=	543.19	
EXTERNAL PORTIONS PAINTINGS										543.19	SQM
TOTAL NET QTY. =										543.19	SQM

- 19 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 M.T

1	X	1.00	X	22.00	X	12.00	X		=	264.00	
ROOF TRUSS										25.00	kg/sqm
M.F. =										6600.00	KG
										6.60	M.T
TOTAL NET QTY. =										6.60	MT

20	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) vath COLORBOND (R) steel quality with thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 coat on back surface. Profile sheet shall have nom. 950-1050 mm width and nominal 25-30 mm deep ribs with subtle square fluting in shall be designed for anti-capillary groove. & 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 kg/sqm)..(As directed by Engineer in charge.)	SQM
Roofing Area	1 X 2 x 22.50 x 7.50 X = 337.50	
	TOTAL NET QTY. = 337.50	SQM
		337.50 SQM
21	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 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 mm, comprising of nominal 25mm 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 sublet square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. & 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 kg/sqm) 301 mm to 600 mm girth (Surface Width)..(As directed by Engineer in charge.)	SQM
Ridge at roofing lvl	1 X 1.00 X 22.50 X 0.3 = 6.75	
	TOTAL NET QTY. = 6.75	SQM
	SAY = 7.00	SQM
22	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 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) (Without mechanical gear)...	Sqm
Rulling Shutter	1 X 1.00 X 1.80 X 2.4 X .... = 4.32	
	TOTAL NET QTY. = 4.32	SQM
		4.32 SQM
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.As directed by Engineer in charge.	sqm
V1	2 X 7 X 0.60 X 0.60 = 5.04	
V2	1 X 13 X 1.00 X 0.60 = 7.80	
	Total 12.84	
	Say 12.84	
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete.(Anti Corossive Paint)	Rmts
	1 x 6.00 = 6.00	
		6.00 Rmts
25	Providing and fixing wind oppareted tarbo S S. ventiletar systim (24 inch dia.) over exsiting roof including cutting of sheet ,propar fixing in position to true line & level with all fixtures & fastning, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterfoof joints with approved water proffing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light parpose at terrace [As directed by Engineer in charge]. (Jalgaon D.S.R.304 /123)	Nos
For W H Bldg	2 x 2 x 1 x 1.00 = 4.00	
	Total = 4.00	
	say = 4.00	Nos

26 Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface Sq.m

<b>III stage</b>	1	X	1	X	21.54	X	11.54	=	248.57		
								Total	=	248.57	
								<b>Say</b>	=	<b>248.57</b>	Sq.m

SUBWORK II :- Electrification Work

I.N.	DESCRIPTON OF ITEM	Qty	UNIT
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	36.00	Each
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	36.00	Rmt
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	5.00	Rmt
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. CSR 2019-20 Item No 1-7-7	4.00	Each
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	10.00	kg
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR 2019-20 Item No 5-4-1 Additional specification no. SW-SWR/MCBDB	2.00	Each
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each
8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each

- 10 Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL
- 25.00 Rmt
- 11 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10
- 25.00 Rmt
- 12 Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL
- 2.00 Each
- 13 Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU
- 3.00 Each
- 14 Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB
- 1.00 Each
- 15 Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete .CSR 2019-20 Item No 2-5-4 Additional specification No . FGODF/ FLS2.
- 2.00 Each
- 16 Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC
- 2.00 Each
- 17 Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length buried in earth upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item. CSR 2018-19 Item No 44.18 Additional Spec No:BDW 1 PAGE No 581
- 1.00 No.
- 18 Providing and fixing copper strip 25mm wide and 3mm thick for lightning conductor including fixing with screws required scaffolding etc. complete Note- Lightning conductor and earthing pits is not considered in this item. CSR 2019-20 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge
- 2.00 Rmt

Mahabaleshwar Strawberry and Organic Farmer Producer Company  
Limited

At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED CONSTRUCTION OF  
450 MT Cap WH BLDG.

Estimated cost Rs.5413553.00

BASED ON STATE SSR 2022-23



# Harshad Food Equipments

SECTOR NO. 7, PLOT NO. 96, PCNTDA, BHOSARI,  
PUNE - 411026.

Mobile : 9975152732, 8554985341

E-mail: ashokaju@hotmail.com , ashokbhau@yahoo.com

**Kind Attention: Mr. Suraj Ambrale Mahabaleshwar Strawberry and Farmer Producer Company Limited At Post Khengar Taluka Mahabaleshwar District Satara 412805**

**Subject: Quotation for Food Processing Machines for Making Fruit Jam on the basis of Fresh Straw Berry**

Dear Sir,

As per your inquiry, please find Quotation for Food Processing Machines for Making Fruit Jam on the basis of Fresh Straw Berry

Serial Numbers	Machine Name	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Fruit Crusher	282000	1	282000
2	Pulper Single Stage	282000	1	282000
3	Jacketed Kettle	420000	1	420000
4	Screw Pump	165000	1	165000
5	Filling Tank	310000	1	310000
6	Lug Capping Machine	371000	1	371000
7	Electrical Panel	200000	1	200000
8	Piping from kettle to filling tank, Syrup Tank, Filling Machine	300000	1	300000
9	Bottle Filling Machine	650000	1	650000
10	Syrup Tank	310000	1	310000
11	Conveyor Belt	800000	2	1600000
12	Air Compressor	190000	1	190000
13	Air Pipeline	70000	1	70000
14	Erection & Commissioning	150000	1	150000
15	TOTAL			5300000

## HARSHAD FOOD EQUIPMENTS

### OFFICE ADDRESS

Mr. ASHOK JAJU, B-10, Green Park No. 1. Green View Co-Op Housing Society, Opp. Noble Hospital Magarpatta Road, Hadapsar, Pune 28. Maharashtra , India.

Telephone : 020-26890931 Mobile : 9975152732 E-mail: ashokbhau@yahoo.com



# Harshad Food Equipments

SECTOR NO. 7, PLOT NO. 96, PCNTDA, BHOSARI,  
PUNE - 411026.

Mobile : 9975152732, 8554985341

E-mail: ashokaju@hotmail.com , ashokbhau@yahoo.com

## HARSHAD FOOD EQUIPMENTS ADDRESS

Plot No.96, Sector No.7, PCNDTA Bhosari MIDC Pune 411026 Maharashtra

GSTIN: 27AIRPJ1763G1Z0

## BANK DETAILS –

HARSHAD FOOD EQUIPMENTS

STATE BANK OF INDIA HADAPSAR PUNE MAHARASHTRA

ACCOUNT NO. 37146870599

IFSC CODE – SBIN0009062

## 1) FRUIT CRUSHER.

QTY. 1 NO.

- \* Capacity: 100kg/Hr.
- \* All material used SS304 except bearing housing and motor.
- \* Crushing area 200mm
- \* Four hammer in pillar.
- \* Bearing housing
- \* Change holes size mesh as per customer requirement
- \* 3hp Motor
- \* Mat polishing.
- \* Price

Rs; 282,000

## HARSHAD FOOD EQUIPMENTS

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Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)



## 2) PULPER SINGLE STAGE. .

**QTY:1NO.**

- \* Capacity: 100kg/Hr. Best for taking Fruit pulp out from ripe Fruits
- \* Completely made in S.S304, having 4 adjustable beaters
- \* 2Beaters bars in rubber & 2 with in brushes Pulper sieve size: 250mm x 500mm sieve holes size 1.6 & 0.8 mm.
- \* 40mm x 40mm x 2mm thick square pipe frame.
- \* All material used SS304 except motor.
- \* Installed power 2HP (Havels/Crompton Greaves motor)
- \* Mat polishing.
- \* Inlet & outlet connection
- \* Price

**Rs. 282000**

### HARSHAD FOOD EQUIPMENTS

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Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)



### 3) **JACKETED KETTLE.**

**QTY. 1NO.**

- \* 200litre capacity & with agitator
- \* Shell& jacket 3mmthickness
- \* Shell diameter 800 mm & Jacket diameter 900 mm provided
- \* Legs 4No.pipe60mmx2mmthick motor mounting frame square pipe.
- \* Agitator (stirrer) shaft size; 40mm, scraper Teflon fitting
- \* Geared motor fitting output RPM 28 to 30
- \* Thermoelectric oil with electrical coil provided.
- \* PT 100 temperature sensor provided
- \* PID controller for temperature control provided with digital display
- \* All material used SS304 except gear box and motor.
- \* Mat polishing.
- \* Installed power; 1HP.
- \* Price **Rs. 420000**

## HARSHAD FOOD EQUIPMENTS

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Telephone : 020-26890931Mobile : 9975152732E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)



#### 4) **SCREW PUMP.**

**QTY; 1NO.**

- \* Capacity: 500 Kilogram per hour.
- \* Motor & pump mounting frame
- \* All material in S.S304
- \* Installed power; 1.5 HP.
- \* Price

**Rs; 165000**



#### 5) **FILLING TANK.**

**QTY. 1NO.**

- \* 200 litter capacity
- \* Provided 4No. nozzle
- \* Height 2000mm, Inlet & Outlet provided for tank
- \* All material used SS304.
- \* Mat polishing.

### HARSHAD FOOD EQUIPMENTS

#### OFFICE ADDRESS

Mr. ASHOK JAJU, B-10, Green Park No. 1. Green View Co-Op Housing Society, Opp. Noble Hospital Magarpatta Road, Hadapsar, Pune 28. Maharashtra, India.

Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)

\* Provided shell in 2mm thickness

\* Price

**Rs.310000**



**6) MAIN DISTRIBUTION ELECTRIC PANEL.**

**QTY.1NO.**

\* Provided with M.S. powder coating cabinet

\* Starter provided as per all above machines requirement.

\* MCB, OLR, Relay, Push buttons provided for all machines

\* Price

**Rs.200000**



**7) S.S.PIPING FROM JACKETED MIXING KETTLE TO FILLING TANK, SYRUP TANK, FILLING MACHINE.**

## HARSHAD FOOD EQUIPMENTS

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Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)

\*Price

**Rs. 300000**

8) **ERECTION & COMMISSIONING OF PROJECT.** Rs 150000 + you have to provided travelling + lodging + Food to erection & commissioning team

**9) LUG CAPPING MACHINE.**

**QTY.1 NO.**

- \* Machine capacity 10-15 bottles per minute
- \* Equipped with pneumatic cylinder
- \* Provide constant pressure on the cap for sealing the cap.
- \* Pedestal operated semi- automatic model

\*Price

**Rs. 371000**



10) **SYRUP TANK.**

**QTY. 1NO.**

- \* 200 litter capacity
- \* Provided 4No.nozzle
- \* Height 2000mm, Inlet & Outlet provided for tank
- \* All material used SS304.
- \* Mat polishing.
- \* Provided shell in 2mm thickness

**HARSHAD FOOD EQUIPMENTS**

**OFFICE ADDRESS**

Mr. ASHOK JAJU, B-10, Green Park No. 1. Green View Co-Op Housing Society, Opp. Noble Hospital Magarpatta Road, Hadapsar, Pune 28. Maharashtra , India.

Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)

\* Price

**Rs.310000**



**11) CONVEYOR BELT.**

**QTY.2 NO.**

- \* Operations of fruits like sorting and inspection.
- \* P.U. Belt.
- \* VFD provided for controlling speed
- \* Belt size: 1000mm X 3000 mm at the height 900mm.
- \* Belt is provided with fixed speed geared Havels/Crompton greaves motor.
- \* Installed power: 2HP

\*Price

**Rs. 1600000**



**12) AIR COMPRESSOR.**

**QTY. 1NO.**

\* Price

**Rs 190000**

## HARSHAD FOOD EQUIPMENTS

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Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)



### 13) AIR PIPELINE.

**QTY. 2NO.**

\* Price

Rs. 70000

### 14) BOTTLE FILLING MACHINE. .

**QTY. 1 NO.**

- \* Filling range 100 ml to 500 ml
- \* S.S. Stand 500 x 1000 made in 40 mm SS304 square tube with 2 mm thickness
- \* 4 leg 40 x 40 mm 2 mm thickness
- \* 1 cylinder with 4 inch pipe 5 mm thickness
- \* Nozzles provided
- \* Tank size 300 mm dia. 300 mm height and thickness 2 mm
- \* All material S.S.304
- \* Pump provided
- \* Price

Rs. 650000

## HARSHAD FOOD EQUIPMENTS

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Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)



## **EXCLUSIONS:**

- 1) General workforce necessary for assembling operation.
- 2) Equipment's necessary for machine positioning (cranes, forklift, trucks, etc.)
- 3) All foundation & civil works etc.
- 4) Transport & Insurance of equipment from delivery point to site.
- 5) Electric power & other utilities during plant assembling Start Up & testing.
- 6) Electrical supply & cables.

## **TERMS & CONDITIONS:**

- 1) Payment terms: 60% advance to be paid along with purchase order, 40% against Proforma invoice prior to dispatch)
- 2) The price quoted ex works Pune.

## **HARSHAD FOOD EQUIPMENTS**

### **OFFICE ADDRESS**

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# Harshad Food Equipments

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PUNE - 411026.

Mobile : 9975152732, 8554985341

E-mail: ashokaju@hotmail.com , ashokbhau@yahoo.com

- 3) All Taxes extra. Warrantee one year from the date of proforma invoice
- 4) Packing extra at actual.
- 5) Delivery period 90 days after receipt of clear commercial order along with advance.
- 6) Inspection at our site.
- 7) Insurance at actual to your account.
- 8) Validity of offer 30 days.

<b>WAREHOUSING CHARGES</b>
If payment is not made within 15 days from the date of Proforma Invoice, supplier reserves the right to divert the ordered material. Supplier will give fresh delivery period and new price at the time of diversion which will be binding on the purchaser and contract cannot be rendered void on this account.
<b>HANDOVER</b>
Unless and otherwise specified in the order and accepted, handing over of the equipment and / or installation would be considered as completed and a formal completion certificate shall be issued by the purchaser / user.
The equipment/system, to be supplied by supplier, shall be site erected and commissioned at purchaser's site.
This equipment/system shall be legally transferred to the buyer only after realization of full and final payment.
<b>MODE OF DELIVERY</b>
The goods may be dispatched in one or more lots at supplier's option. If supplier is required to dispatch the goods on behalf of customer, supplier can arrange to do so on freight to pay basis on the understanding that no liability is attached to supplier. In such case, freight charges contracted by supplier on behalf of the purchaser shall be final and binding on the purchaser.
<b>CANCELLATION</b>
Order received and acknowledged by supplier shall not be subject to cancellation, either wholly or partly for any reason whatsoever without supplier's written consent.
<b>FORCE MAJURE</b>
The order from the purchaser is subject to force majeure by which it means, such as war, invasion, civil disobedience, govt. orders or restrains, strike, lockout, riots, fire, epidemics, sabotages, trade embargoes, earthquakes, floods, accidents, breakdown of machines, delay or inability to obtain labour, raw material, wagons, shipping space or any other process, which is beyond supplier's and supplier's control.
<b>JURISDICTION</b>
All contracts between purchaser and supplier are deemed to have entered into at Pune and are therefore subject to the Jurisdiction of Courts at Pune.

## HARSHAD FOOD EQUIPMENTS

### OFFICE ADDRESS

Mr. ASHOK JAJU, B-10, Green Park No. 1. Green View Co-Op Housing Society, Opp. Noble Hospital Magarpatta Road, Hadapsar, Pune 28. Maharashtra, India.

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PUNE - 411026.

Mobile : 9975152732, 8554985341

E-mail: ashokaju@hotmail.com , ashokbhau@yahoo.com

**From,**

**Harshad Food Equipment's Pune**

**Ashok Jaju**

**9975152732/8554985341**

## **HARSHAD FOOD EQUIPMENTS**

### **OFFICE ADDRESS**

Mr. ASHOK JAJU, B-10, Green Park No. 1. Green View Co-Op Housing Society, Opp. Noble Hospital Magarpatta Road,  
Hadapsar, Pune 28. Maharashtra , India.

Telephone : 020-26890931 Mobile : 9975152732 E-mail: [ashokbhau@yahoo.com](mailto:ashokbhau@yahoo.com)

Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED

LEADS & RATES OF MATERIALS

BASED ON STATE SSR 2022-23

S.N.	MATERIAL & LOCATION	UNIT	<u>Lead in KM</u>	Actual lead	LEAD DIFF.	Pay load Factor	NET	Rate /unit
1	2	3	4	5	6	7	8	9
1	SAND	CU M	<u>5</u>	263.19	263.19	1.00	263.19	263.19
2	CRUSHED METAL UPTO 40 MM	CU M	<u>5</u>	263.19	263.19	1.00	263.19	263.19
3	METAL ABOVE 40 MM	CU M	<u>5</u>	252.22	252.22	1.00	252.22	252.22
4	RUBBLE	CU M	<u>5</u>	321.99	321.99	1.00	321.99	321.99
5	BRICKS	1000 NOS	<u>5</u>	531.38	531.38	1.00	531.38	531.38
6	HARD MURUM	CU M	<u>2</u>	203.32	203.32	1.00	203.32	203.32
7	SOFT MURUM	CU M	<u>2</u>	203.32	203.32	1.00	203.32	203.32
8	ROYALTY CHARGES	CU M	<u>1</u>	237.37		1.00	0.00	0.00

Jr.Engineer

Sectional Engineer

		QTY	RATE	AMOUNT
1 C.C. 1:3:6 for foundation & bedding	SAND	0.47	263.19	123.70
	METAL	0.94	263.19	247.40
2 P & C U.C.R masonry	SAND	0.35	263.19	92.12
	RUBBLE	1.16	321.99	373.51
3 P & C B.B. masonry in plinth & S.S	SAND	0.32	263.19	84.22
	BRICKS	0.475	531.38	252.41
4 P & L R.C.C. (M-20) 1:1.5:3	SAND	0.425	263.19	111.86
	METAL	0.85	263.19	223.71
4-A P & L R.C.C. 1:2:4	SAND	0.425	263.19	111.86
	METAL	0.85	263.19	223.71
5 P & A 12 mm tk plaster	SAND	0.015	263.19	3.95
6 P & A 20 mm tk plaster	SAND	0.025	263.19	6.58
7 P & F ploished shahabad for sills & dado	SAND	0.022	263.19	5.79
8 P & C half brick wall	sand	0.034	263.19	8.95
	bricks	0.12	531.38	63.77
9 P & a flush pointing in c.m.1:3 for stone masonry	sand	0.003	263.19	0.79
10 M.S.Channel	KG			0.00
11 Wind ties 1.90 kg / mtr	RMT			0.00
12 M.S.angle sill 4.68 kg / mtr.	RMT			0.00
13 M.S.ladder 18.40 kg/ mtr.	RMT			0.00
14 V1 & V2 vents 43.33 kg/m2.	SQM.			0.00
15 P & L R. C. C. M30	SAND	0.425	0.00	0.00
	METAL	0.85	0.00	0.00

The centre falls under sugarcane area / corporation /Trible	Building	Road
Hence percentage required to be added will be percentage	0.00%	0.00%
Municipal Council Area	4.00%	10.80%
TOTAL	4.00%	10.80%
Dedn for SCADA	-25.00%	5.00%

## Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited

At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED

## SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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.	41.78	cum	21.01/153	239.00						239.00	0.00	239.00	9985.00
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and	32.36	CUM	21.05/153	365.00						365.00	0.00	365.00	11811.00
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel gneiss metal for foundation and bedding including	42.85	CUM	24.01/175	5830.00	-126.00	111.86	223.71			6039.57	0.00	6039.57	258796.00
4	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip	15.37	cum	25.11/178	7104.00	-126.00	111.86	223.71			7313.57	0.00	7313.57	112410.00
5	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	12.86	cum	25.31/179	13783.00	-126.00	111.86	223.71			13992.57	0.00	13992.57	179944.00
6	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	23.82	cum	25.50/181	12269.00	-126.00	111.86	223.71			12478.57	0.00	12478.57	297240.00
7	Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed designs and drawings including centering, formwork, cover blocks	0.00	CUM	26.05/184	13932.00	-126.00	111.86	223.71			14141.57	0.00	14141.57	0.00
8	Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including	1.78	cum	26.09/184	13932.00	-126.00	0.00	111.86			13917.86	0.00	13917.86	24774.00
9	Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20	349.29	SQM	33.30/216	796.00	-126.00	111.86	223.71			1005.57	0.00	1005.57	351236.00

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED

SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
1	2	3	4	5	6	-126.00	8	9	10	11	12	13	14	15
10	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns.	5.01	MT	26.33/188	89703.00						89703.00	0.00	89703.00	449161.00
11	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	13.43	Cum	27.01/197	7755.00		252.41				8007.41	0.00	8007.41	107540.00
12	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking	44.60	Cum	27.05/197	7994.00		252.41				8246.41	0.00	8246.41	367790.00
13	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm,	209.57	CUM	21.37/157	599.00						599.00	0.00	599.00	125532.00
14	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. Complete	69.86	CUM	21.40/157	1454.00						1454.00	0.00	1454.00	101576.00
15	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions	245.05	sqm	32.04/209	278.00	3.95					281.95	0.00	281.95	69092.00
16	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in	391.27	sqm	32.11/209	639.00	3.95					642.95	0.00	642.95	251567.00
17	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the	245.05	SQM	36.11/227	48.00						48.00	0.00	48.00	11762.00
18	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including	391.27	SQM	35.16/224	97.00						97.00	0.00	97.00	37953.00

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED

SUB WORK I :- Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
1	2	3	4	5	6	-126.00	8	9	10	11	12	13	14	15
19	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs	11.01	MT	23.04/173	119459.00						119459.00	0.00	119459.00	1314957.00
20	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	376.20	SQM	38.34/236	1173.00						1173.00	0.00	1173.00	441283.00
21	Providing and fixing of colour coated Zinaluminium R) AZ150 ( min 150 gms/sq.mt. Total on each side ) profiled sheets for roofing. The	8.00	SQM	38.35/237	751.00						751.00	0.00	751.00	6008.00
22	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	8.64	SQM	39.24/248	4829.00						4829.00	0.00	4829.00	41723.00
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and	27.44	SQM	39.30/249	4827.00						4827.00	0.00	4827.00	132453.00
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps	0.00	Rmts	41.56/271	1128.00						1128.00	0.00	1128.00	0.00
25	Providing and fixing wind oppareted tarbo S S. ventiletar systim (24 inch dia.) over exsiting roof	4.00	Nos	42/529	9702						0.00	0.00	0.00	0.00
26	Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface	289.65	Sq.m	21.24/156	108.00						108.00	0.00	108.00	31283.00

TOTAL RS 4735876.00

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED

SUB WORK I :- Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada -126.00 7	LEAD CHARGES			LIFTS & RA 11	TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							6 TO 11 12	13	12 TO 13 14		15			

SUBWORK II :- Electrification Work

1	Supplying & erecting mains with 2x1.5 sq.mm. and	18.00	Each	1-6-2/11	106							106.00	0.00	106.00	1908.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and	18.00	Rmt	1-6-4/11	129							129.00	0.00	129.00	2322.00
3	Supplying & erecting mains with 2x4 sq.mm. and	3.00	Rmt	1-6-6/11	137							137.00	0.00	137.00	411.00
4	Supplying and erecting Ceiling rose / Batten holder /	2.00	Each	1-7-7/13	803							803.00	0.00	803.00	1606.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3	5.00	kg	6-1-9/114	1040.00							1040.00	0.00	1040.00	5200.00
6	Supplying and erecting triple pole and neutral	1.00	Each	5-4-1/98	2356.00							2356.00	0.00	2356.00	2356.00
7	Supplying, erecting & marking FPMCB 40A to 63A	2.00	Each	5-3-17/97	1544.00							1544.00	0.00	1544.00	3088.00
8	Supplying, erecting & marking DPMCB 6 A to 32 A	2.00	Each	5-3-7/96	510							510.00	0.00	510.00	1020.00
9	Supplying & erecting conventional spike Providing	1.00	Each	9-1-3/161	6055							6055.00	0.00	6055.00	6055.00
10	Supplying, erecting & terminating XLPE armoured	12.00	Rmt	7-1-30/128	261							261.00	0.00	261.00	3132.00
11	Supplying and laying (including excavation of	12.00	Rmt	7-6-10/140	241							241.00	0.00	241.00	2892.00
12	Supplying & erecting Siemens type brass cable	2.00	Each	7-7-4/141	196							196.00	0.00	196.00	392.00
13	Supplying & erecting crimping type copper lugs for	2.00	Each	7-9-2/142	35							35.00	0.00	35.00	70.00
14	Supplying and erecting single pole and neutral	1.00	Each	5-4-14/99	15							15.00	0.00	15.00	15.00
15	Supplying and erecting LED Street light fitting	2.00	Each	2-5-4/35	1670							1670.00	0.00	1670.00	3340.00
16	Supplying and erecting Street light bracket made	2.00	Each	2-9-2/40	4825							4825.00	0.00	4825.00	9650.00
17	to 44.18 Additional Spec No:BDW 1 pAGE No 581	1.00	0	44.18	25784							25784.00	0.00	25784.00	25784.00
18	Providing and fixing copper strip 25mm wide and	2.00	Rmt	44.19/581	793							793.00	0.00	793.00	1586.00

TOTAL RS 70827.00

Jr.Engineer

Sectioanl Engineer

**Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited**  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

**NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED**

**SUB WORK III :- Lab Testing.**

**BASED ON STATE SSR 2022-23**

Statement showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of Tests	Rate per Test	Amount	Remarks
1	Cement	479.41	Bags	Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	3770.00	3770.00	one test per 1000 Bags
2	Concrete M-10 grade	107.98	cum	i) Concrete cube compressive strength (Set of 3 Cubes)	2	690.00	1380.00	1 test for 15 cum
3	Concrete M-20 grade	45.76	cum	i) Mix Design with all tests on basic materials	1	13755.00	13755.00	One per 500 cum of concrete
				ii) Concrete cube compressive strength (Set of 3 Cubes)	2	690.00	1380.00	1 test for 15 cum
5	Crushed metal for concrete	86.03	cum	i) Water absorption, Specific gravity, Impact value, Crushing value	1	2600.00	2600.00	one test per 1000 cum per source / change in source.
6	Bricks	27564.25	cum	Crushing value, Water absorption, & Specific Gravity	1	2175.00	2175.00	one test per 50000 Nos. of bricks or part.
8	TMT steel bars	5.01	M.T.	Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	1	1595.00	1595.00	1 test per 10.00 M.T. and one for each dia. Of use bar
9	Sand	75.70	cum	Fineness Modulus, silt & clay content.	1	1380.00	1380.00	1 test per source
10	Murum in plinth	209.57	cum	i) Plasticity Index	1	1170.00	1170.00	1 test per 1000 Cum.
				ii) Field Density of compacted layer	1	1860.00	1860.00	1 test per 250 Sq.m
					TOTAL		31065.00	

Mahabaleshwar Strawberry and Organic Farmer Producer Company  
Limited

At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR  
SYRUP PRODUCTIONS UNIT SHED

Built Up Area --  $25.08 \times 14.63 = 366.92$  Sq m.

Estimated cost Rs.5891806.00

BASED ON STATE SSR 2022-23

0

Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited

At Kheengar Tal. Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED

SUBWORK IV:- Royalty Charges

Item.. No.	Description of item	Executed Quantity	Quantity of Material for Royalty Cu. M				Rubble / Rd metal	Remark
			Cement in bags	SAND	Crusher METAL	MURUM		
1	2	3	4	5	6	7	8	9
3	Providing and laying Cast in situ/Ready Mix cement	42.85		0.425	18.211			
4	Providing and laying Cast in situ/Ready Mix cement	15.37		0.425	6.5323			
5	Providing and laying Cast in situ/Ready Mix cement	12.86		0.425	5.4655			
6	Providing and laying Cast in situ/Ready Mix cement	23.82		0.425	10.124			
7	Providing and casting in situ cement concrete M-20 of	0.00		0.425	0			
8	Providing & laying in situ cement concrete M-20 of trap	1.78		2.425	4.3165			
9	Providing and laying in situ cement concrete M-20 with	349.29		0.425	148.45			
11	Providing second class Burnt Brick masonry with	13.43		0.32	4.2976			
12	Providing second class Burnt Brick masonry with	44.60		0.32	14.272			
13	Filling in plinth and floors with contractors	209.57				1.2	251.48	
14	Providing soling using 80 mm size trap metal in 15 cm.	69.86					1.32	92.22
15	Providing internal cement plaster 12mm thick in single	245.05		0.015	3.6758			
16	Providing sand faced plaster externally in cement	391.27		0.033	12.912			
	<b>Total</b>		0.00	228.25	0.00	251.48	92.22	





<b>Bed concrete in WH.</b>	1	X	1	X	24.65	X	14.17	X	0.10	=	34.93
<b>Column footing</b>											
Column C1	2	X	7	X	1.6	X	1.4	X	0.10	=	3.14
Column No. C3	1	X	4	X	1.50	X	1.40	X	0.10	=	0.84
Column No.C2 END	1	X	4	X	1.50	X	1.40	X	0.10	=	0.84
Column No.Platform	1	X	4	X	1.20	X	1.20	X	0.10	=	0.58
<b>For Ground Beam PANEL</b>											
C1-C1 middle	2	X	3	X	3.9	X	0.65	X	0.05	=	0.76
C1-C3 END WALL	2	X	3	X	3.1	X	0.65	X	0.05	=	0.60
C3-C2	2	X	3	X	3.9	X	0.65	X	0.05	=	0.76
C2-C2 M	2	X	2	X	3.1	X	0.65	X	0.05	=	0.40
									Total	=	42.85
									say	=	42.85

-- 5 --

- 4 Providing and laying Cast 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 ,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 (Natural Sand / Crushed sand VSI Grade finely washed etc) CUM

<b>Column footing</b>											
Column C1	2	X	7	X	1.3	X	1.1	X	0.45	=	9.01
Column No. C3	1	X	4	X	1.20	X	1.10	X	0.45	=	2.38
Column No.C2 END	1	X	4	X	1.20	X	1.10	X	0.45	=	2.38
Column No.Platform CP	1	X	4	X	1.00	X	1.00	X	0.40	=	1.60
									Total		15.37
									say		15.37

- 5 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 drawings or as directed including steel centering, formwork, cover blocks compacting and 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 (Natural Sand / Crushed sand VSI Grade finely washed etc) C.um

<b>Column up to plinth</b>											
Column C1	2	X	7	X	0.30	X	0.45	X	3.60	=	6.80
Column No.C2	1	X	4	X	0.30	X	0.45	X	3.60	=	1.94
Column No. C3	1	X	4	X	0.34	X	0.34	X	3.60	=	1.66
Column No.Platform	1	X	4	X	0.57	X	0.30	X	3.60	=	2.46
<b>Column above plinth</b>											
									Total		12.86
									say		12.86

- 6 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).... C.um

Ground Beam / Plinth Beams											
<b>Ground Beam</b>											
C1-C1 middle	2	X	3	X	3.9	X	0.34	X	0.45	=	3.58
C1-C3 END WALL	2	X	3	X	3.1	X	0.34	X	0.45	=	2.85
C3-C2	2	X	3	X	3.9	X	0.34	X	0.45	=	3.58
C2-C2 M	2	X	2	X	3.1	X	0.34	X	0.45	=	1.90
<b>Plinth Beam</b>											
C1-C1 middle	2	X	3	X	3.9	X	0.34	X	0.45	=	3.58
C1-C3 END WALL	2	X	3	X	3.1	X	0.34	X	0.45	=	2.85
C3-C2	2	X	3	X	3.9	X	0.34	X	0.45	=	3.58
C2-C2 M	2	X	2	X	3.1	X	0.34	X	0.45	=	1.90
										Total	23.82
										say	23.82

-- 7 --

- 7 Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed CUM designs and drawings including centering, formwork, cover blocks 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 concrete mixer With natural sand.

Ventilators - V1 Long side	0	x	7	x	1.55	x	0.520	x	0.08	=	0.00	
										Total	<b>0.00</b>	
										Say	0.00	
8 Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work <u>in slabs</u> as per detailed drawing and design as directed including dewatering if necessary centering, formwork, compaction, finishing the formed surface wit												
PLATFORM SLAB	1	X	2	X	5.00	X	1.800	X	0.10	=	1.80	
deduct column offset	-2	X	2	X	0.30	X	0.15	X	0.10	=	-0.02	
										Total	1.78	
										say	1.78	
9 Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc.												
	1	X	1	x	24.65	X	14.17	X		=	349.29	SQM
										TOTAL NET QTY. =	349.29	sqm
										Say	349.29	SQM
10 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, linteis pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bass, binding with wires or tack welding and supporting as required complete .....												
FOOTING	1	X	1	X	15.37	X	80.00		....	=	1229.60	
COLUMN	1	X	1	X	12.86	X	90.00		....	=	1157.40	
BEAM	1	X	1	X	23.82	X	110.00		....	=	2620.20	
CHHAJJA	1	X	1	X	0.00	X	50.00		....	=	0.00	
										TOTAL NET QTY. =	5007.20	KG
										TOTAL NET QTY. =	5.01	MT`
										Say	5.01	MT`
11 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.												
For Plinth Work												
<b>For PANEL</b>												
C1-C1 middle	2	X	3	X	3.9	X	0.23	X	0.75	=	4.04	
C1-C3 END WALL	2	X	3	X	3.1	X	0.23	X	0.75	=	3.21	
C3-C2	2	X	3	X	3.9	X	0.23	X	0.75	=	4.04	
C2-C2 M	2	X	2	X	3.1	X	0.23	X	0.75	=	2.14	
										Total	=	13.43
										say	=	13.43
12 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.												
For Super Structure												
<b>For PANEL</b>												
C1-C1 middle	2	X	3	X	3.9	X	0.23	X	2.10	=	11.30	
C1-C3 END WALL	2	X	3	X	3.1	X	0.23	X	2.10	=	8.98	
C3-C2	2	X	3	X	3.9	X	0.23	X	2.10	=	11.30	
C2-C2 M	2	X	2	X	3.1	X	0.23	X	2.10	=	5.99	
Gable	0.5	X	2	X	15.70	X	0.23	X	2.75	=	9.93	
										Total	<b>47.50</b>	



- 16 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.... SqM

Outside									
Long wall	2	X	1	X	24.65	X	3.90	=	192.27
short wall	1	X	2	X	14.17	X	3.90	=	110.53
Gable wall	0.5	X	2	X	14.17	X	2.00	=	28.34
Column offset C1	6	X	1	X	0.74	X	3.90	=	17.32
C3	4	X	1	X	0.64	X	3.90	=	9.98
Ite C2	4	X	1	X	0.54	X	3.90	=	8.42
Weather sheds over									
V1 top, bottom	2	X	7	X	1.55	X	0.67	=	14.54
Sides	2	X	7	X	0.450	X	0.08	=	0.47
V 2 top, bottom	2	X	13	X	1.10	X	0.67	=	19.16
Sides	2	X	13	X	0.450	X	0.08	=	0.88
Total								=	401.91
Deduction									
rolling shutter	1	X	1	X	1.80	X	2.10	=	3.78
v1	0.5	X	7	X	1.40	X	1.40	=	6.86
v2	0	X	13	X	1.30	X	0.45	=	0.00
Dedu.								=	10.64
Net								=	391.27
Say								=	391.27

- 17 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats SqM including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete....

1	X	1.00	X	245.05	X	....	X	....	=	245.05
									TOTAL NET QTY. =	245.05 SQM
										245.05 SQM

- 18 Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old SQM plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.

1	X	1.00	X	391.27	X	....	X	....	=	391.27
EXTERNAL PORTIONS PAINTINGS									TOTAL NET QTY. =	391.27 SQM
										391.27 SQM

- 19 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 M.T

1	X	1.00	X	25.08	X	14.63	X		=	366.92
ROOF TRUSS									M.F. =	30.00 kg/sqm
										11007.60 KG
										11.01 M.T
									TOTAL NET QTY. =	11.01 MT

20	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) vath COLORBOND (R) steel quality with thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 coat on back surface. Profile sheet shall have nom. 950-1050 mm width and nominal 25-30 mm deep ribs with subtle square fluting in shall be designed for anti-capillary groove. & 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 kg/sqm)..(As directed by Engineer in charge.)	SQM
Roofing Area	1 X 2 x 25.08 x 7.50 X = 376.20	
	TOTAL NET QTY. = 376.20	SQM
		376.20 SQM
21	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 with Aluminium-Zinc alloy (55% aluminium 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 25mm 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 sublet square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. & 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 kg/sqm) 301 mm to 600 mm girth (Surface Width)..(As directed by Engineer in charge.)	SQM
Ridge at roofing lvl	1 X 1.00 X 25.10 X 0.3 = 7.53	
	TOTAL NET QTY. = 7.53	SQM
	SAY = 8.00	SQM
22	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 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) (Without mechanical gear)...	Sqm
Rulling Shutter	1 X 2.00 X 1.80 X 2.4 X .... = 8.64	
	TOTAL NET QTY. = 8.64	SQM
		8.64 SQM
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.As directed by Engineer in charge.	sqm
V1	2 X 7 X 1.40 X 1.40 = 27.44	
V2	0 X 13 X 1.00 X 0.60 = 0.00	
	Total 27.44	
	Say 27.44	
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete.(Anti Corossive Paint)	Rmts
	0 x 6.00 = 0.00	
		0.00
		0.00 Rmts
25	Providing and fixing wind oppareted tarbo S S. ventiletar systim (24 inch dia.) over exsiting roof including cutting of sheet ,propar fixing in position to true line & level with all fixtures & fastning, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterfoof joints with approved water proffing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light parpose at terrace [As directed by Engineer in charge]. (Jalgaon D.S.R.304 /123)	Nos
For W H Bldg	2 x 2 x 1 x 1.00 = 4.00	
	Total = 4.00	
	say = 4.00	Nos

26 Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface Sq.m

<b>III stage</b>	1	X	1	X	25.10	X	11.54	=	289.65		
								Total	=	289.65	
								<b>Say</b>	=	<b>289.65</b>	Sq.m

SUBWORK II :- Electrification Work

I.N.	DESCRIPTON OF ITEM	Qty	UNIT
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	18.00	Each
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	18.00	Rmt
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	3.00	Rmt
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. CSR 2019-20 Item No 1-7-7	2.00	Each
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	5.00	kg
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR 2019-20 Item No 5-4-1 Additional specification no. SW-SWR/MCBDB	1.00	Each
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each
8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each

- 10 Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL
- 12.00 Rmt
- 11 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10
- 12.00 Rmt
- 12 Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL
- 2.00 Each
- 13 Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU
- 2.00 Each
- 14 Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB
- 1.00 Each
- 15 Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete .CSR 2019-20 Item No 2-5-4 Additional specification No . FGODF/ FLS2.
- 2.00 Each
- 16 Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC
- 2.00 Each
- 17 Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length buried in earth upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item. CSR 2018-19 Item No 44.18 Additional Spec No:BDW 1 PAGE No 581
- 1.00 No.
- 18 Providing and fixing copper strip 25mm wide and 3mm thick for lightning conductor including fixing with screws required scaffolding etc. complete Note- Lightning conductor and earthing pits is not considered in this item. CSR 2019-20 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge
- 2.00 Rmt

0						
Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited						
At Kheengar Tal.Mahabaleshwar Dist. :- Satara						
NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED						
Elect.C.S.R.2022-23 & M.R.						
SUBWORK II :- Electrical Work.						
I.N.	DESCRIPTION OF ITEM	Qty	UNIT	I.N./ P.N	Total Rate/Unit	Total Amount
1	2	3	4	5	9	10
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	18.00	each	1-6-2/8	106	1908.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	18.00	each	1-6-4/8	129	2322.00
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia,CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	3.00	each	1-6-6/8	137	411.00
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box.CSR2019-20 Item No 1-7-7	2.00	Point	1-7-6/12	803	1606.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	5.00	sqm	6-1-9/106	1040	5200.00
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR2019-20 Item No 5-4-1Additional specification no. SW-SWR/MCBDB	1.00	Each	5-4-1/91	2356	2356.00
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each	5-3-17/91	772	1544.00

8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each	5-3-7/90	510	1020
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results. CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each	9-1-3/160	6055	6055.00
10	Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL	12.00	Rmt	7-1-30/128	261	3132.00
11	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10	12.00	Rmt	7-6-10/140	241	2892.00
12	Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL	2.00	Each	7-7-4/141	196	392.00
13	Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU	2.00	Each	7-9-2/142	35	70.00
14	Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB	1.00	Each	5-4-14/92	15	15.00
15	Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete. CSR 2019-20 Item No 2-5-4 Additional specification No. FGODF/ FLS2.	2.00	Each	2-5-4/31	1670	3340.00
16	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC	2.00	Each	2-9-1/34	4825	9650.00
17	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length buried in earth upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item. CSR 2020-21 Item No 44.18 Additional Spec No:BDW 1 PAGE No 581	1.00	nos	S.S.R.2022-23-44.18/295	25784	25784.00

18	Providing and fixing copper strip 25mm wide and 3mm thick for lightening conductor including fixing with screws required scaffolding etc.complete Note- Lightening conductor and earthing pits is not considered in this item. CSR 2020-21 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge	2.00	Rmt	S.S.R.2022- 23- 44.19/295	793	1586.00
						<b>69283.00</b>

Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

RECAPITULATION SHEET

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR SYRUP PRODUCTIONS UNIT SHED

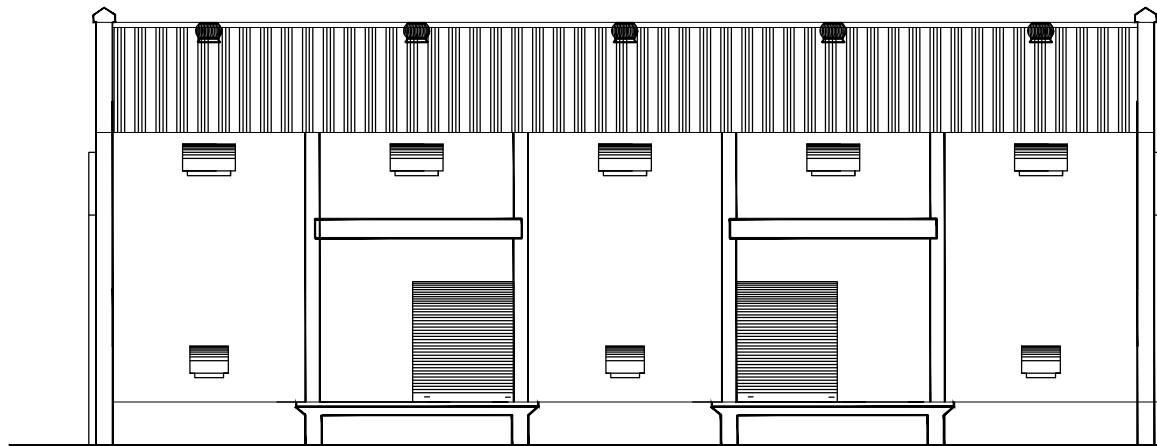
BASED ON STATE SSR 2022-23

366.92

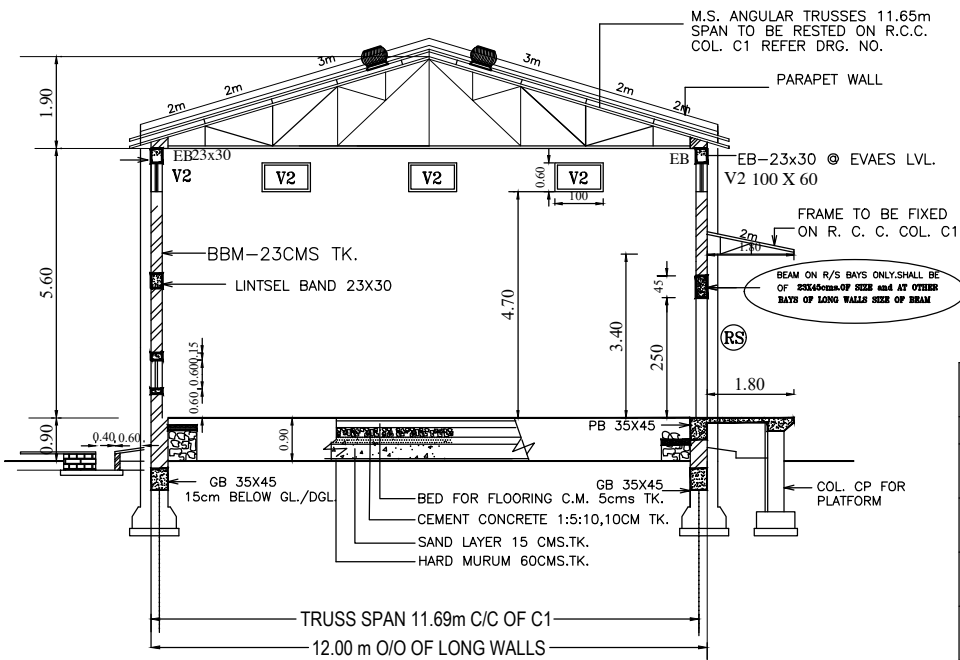
PARTICULARS	Capacity	Unit	AMOUNT IN RS.	Cost per MT	Cost per Sqm
1 SUB WORK I :- Civil work		M.T.	Rs. 4735876.00		12907.11
2 SUBWORK II :- Electrification Work		M.T.	Rs. 69283.00		188.82
3 SUB WORK III :- Lab Testing.		M.T.	Rs. 31065.00		84.66
4 SUBWORK IV:- Royalty Charges		M.T.	Rs. 135764.00		370.01
		<u>Total</u>	<u>Rs. 4971988.00</u>		<u>13550.61</u>
Add GST @ 18%	18%		Rs. 894957.84		
Add Labour Insurance @ 0.5%	0.50%		Rs. 24859.94		
		<u>Total</u>	<u>5891805.78</u>		<u>16057.47</u>
		Grand total Rs.	5891805.78		

Prepared by

Checked by



ELEVATION



SECTION 'A'-'A'

SCHEDULE OF REINFORCEMENT OF COLUMNS FOOTINGS

SR.NO.	DESCRIPTION	STEEL	SHORT SIDE LONG SIDE	
			FOOTING SIZE	REINFORCEMENT FOR COLUMN
				MAIN TRANSVERSE
1.	1.20X1.20X0.45	12 MM # 10 NO BOTHWAYS	C1 30X45	8 NOS 16MM # TMT FE 500 BARS 8MM # 4 LEGGED STIRRUPS AT 150MM C/C
2.	1.20X1.20X0.45	12 MM # 10 NO BOTHWAYS	C2 30X45	8 NOS 12MM # TMT FE 500 BARS 8MM # 4 LEGGED STIRRUPS AT 150MM C/C
3.	1.50X1.30X0.45	12 MM # 10 NO BOTHWAYS	C3 30X35	8 NOS 16MM # TMT FE 500 BARS 8MM # 4 LEGGED STIRRUPS AT 150MM C/C
4.			C4 15X35	8 NOS 16MM # TMT FE 500 BARS 8MM # 4 LEGGED STIRRUPS AT 150MM C/C
5.	1.10X1.10X0.45	12 MM # 10 NO BOTHWAYS	CP 57X30	8 NOS 16MM # TMT FE 500 BARS 8MM # 4 LEGGED STIRRUPS AT 150MM C/C

SCHEDULE OF REINFORCEMENT OF BEAM,DROP,BAND,LINTEL,W.SHED

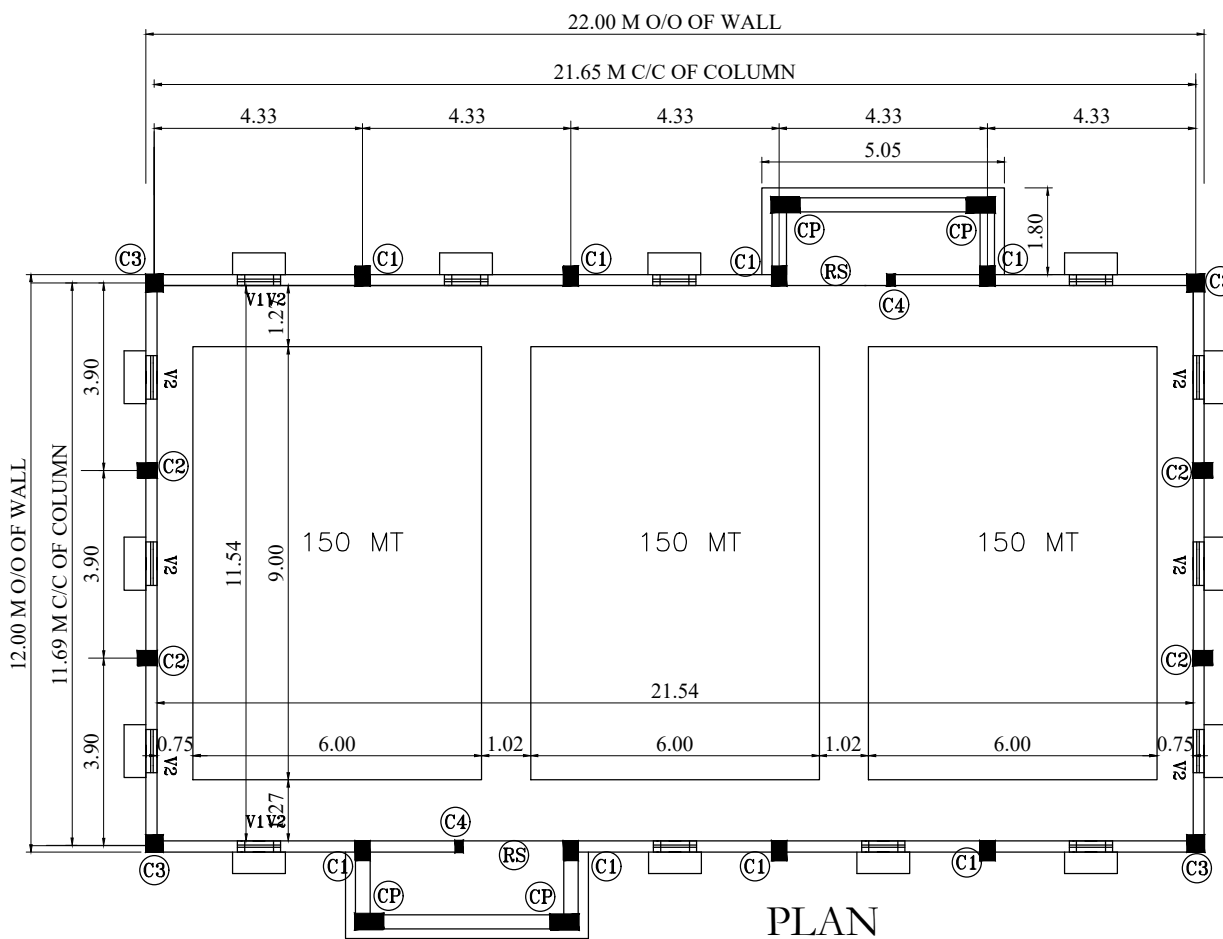
SR.NO.	SECTION	REINFORCEMENT		DISTRIBUTION
		STRAIGHT	BENT-UP	
1.	BEAM OVER DOOR 0.30 X 0.45	TOP - 3 NOS 12 MM # BARS BOTT - 3 NOS 16 MM # BARS	2 NOS 10MM # MS BARS BENT-UP WARDS	8 MM # STIRRUPS AT 150 MM C/C
2.	EAVES BAND 0.30 X 0.30	TOP - 4 NOS 12 MM # BARS BOTT - 4 NOS 12 MM # BARS	---	8 MM # STIRRUPS AT 150 MM C/C
3.	LINTEL OVER VENTILATORS 0.34 X 0.15	4 NOS 10 MM # BARS MS BARS	---	8 MM # STIRRUPS AT 150 MM C/C
4.	WEATHER SHED FOR VENTILATORS	12 MM BARS AT 150 MM C/C TO BE ANCHORED IN LINTEL/BAND	---	8 MM # STIRRUPS AT 150 MM C/C
5.	COPING FOR PLATFORMS	12 MM # BARS AT 150 MM C/C	---	12 MM # MS BARS AT 150 MM C/C

SCHEDULE OF R. C. C. COLUMNS.

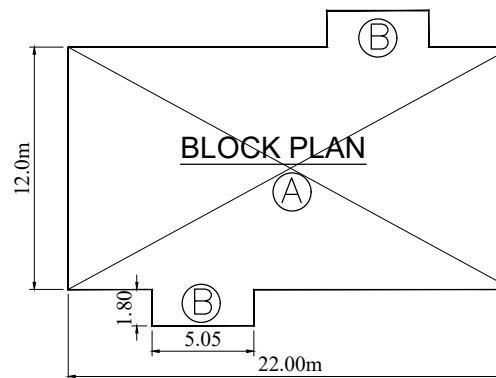
TYPE	SIZE	NO.	REMARKS
C1	30 X 45	8	● LONG WALLS
C2	30 X 45	4	● GABLE WALLS
C3	30 X 35	4	● GABLE WALLS
C4	15 X 35	2	TO BE POSTED ON DB ● RS PANNELS
CP	57 X 30	4	FOR PLATFORMS BELOW BEAM.

SCHEDULE OF ROLLING SHUTTERS/VENTILATORS

TYPE	SIZE (IN CMS)	NO.	DISCRIPTION
RS	180 X 240	2	PULL AND PUSH TYPE FIXED FORM INSIDE
V1	60 X 60	8	STEEL VENTILATORS FULLY GLAZED WITH SHUTTERS(BOX HINGES) 6mm SQ. MESH 18 SWG. TO BE FIXED BY 19mmX3mm M.S. FLAT & 12mm SQ. BARS (7 NOS.) IN VERTICLE POSITION ● 10cms C/C FIXED TO FRAME FROM OUTSIDE.
V2	100 X 60	16	12MM SQ. BARS (11 NOS) IN VERTICAL POSITION ● 100MS C/C FIXED TO FRAME FROM OUTSIDE.



PLAN



BUILT UP AREA CALCULATIONS

BUILDING SIZE [PROPOSED] SQ. M.  
 MAIN BUILDING : (A)  
 22.00m X 12.00m = 264.00  
 PLATFORMS : (B)  
 2 NO X5.05m X 1.80m = 18.18  
 TOTAL B / UP = 282.18 sq. m.

DRAWING NO.	
	SCALE 1:100 PLOT SCALE 1:100
PROPOSED CONSTRUCTION	
OF 1/450 MT CAPACITY	
WH. BUILDING	
OWNER	



<b>Bed concrete in WH.</b>	1	X	1	X	17.40	X	15.54	X	0.10	=	27.04
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**Column footing**

Column C1	2	X	5	X	1.6	X	1.4	X	0.10	=	2.24
Column No. C3	1	X	3	X	1.50	X	1.40	X	0.10	=	0.63
Column No.C2 END	1	X	3	X	1.50	X	1.40	X	0.10	=	0.63
Column No.Platform	1	X	4	X	1.20	X	1.20	X	0.10	=	0.58

**For Ground Beam PANEL**

C1-C1 middle	2	X	2	X	4.1	X	0.65	X	0.05	=	0.53
C1-C3 END WALL	2	X	2	X	3.65	X	0.65	X	0.05	=	0.47
C3-C2	2	X	2	X	4.1	X	0.65	X	0.05	=	0.53
C2-C2 M	2	X	2	X	3.65	X	0.65	X	0.05	=	0.47
									Total	=	33.12
									say	=	33.12

-- 5 --

- 4 Providing and laying Cast 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 ,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 (Natural Sand / Crushed sand VSI Grade finely washed etc) CUM

**Column footing**

Column C1	2	X	5	X	1.3	X	1.1	X	0.45	=	6.44
Column No. C3	1	X	3	X	1.20	X	1.10	X	0.45	=	1.78
Column No.C2 END	1	X	3	X	1.20	X	1.10	X	0.45	=	1.78
Column No.Platform CP	1	X	4	X	1.00	X	1.00	X	0.40	=	1.60
									Total		11.60
									say		11.60

- 5 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 drawings or as directed including steel centering, formwork, cover blocks compacting and 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 (Natural Sand / Crushed sand VSI Grade finely washed etc) C.um

**Column up to plinth**

Column C1	2	X	5	X	0.30	X	0.45	X	3.60	=	4.86
Column No.C2	1	X	3	X	0.30	X	0.45	X	3.60	=	1.46
Column No. C3	1	X	3	X	0.34	X	0.34	X	3.60	=	1.25
Column No.Platform	1	X	4	X	0.57	X	0.30	X	3.60	=	2.46

**Column above plinth**

Total	10.03
say	10.03

- 6 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).... C.um

Ground Beam / Plinth Beams											
<b>Ground Beam</b>											
C1-C1 middle	2	X	2	X	4.1	X	0.34	X	0.45	=	2.51
C1-C3 END WALL	2	X	2	X	3.65	X	0.34	X	0.45	=	2.23
C3-C2	2	X	2	X	4.1	X	0.34	X	0.45	=	2.51
C2-C2 M	2	X	2	X	3.65	X	0.34	X	0.45	=	2.23
<b>Plinth Beam</b>											
C1-C1 middle	2	X	2	X	4.1	X	0.34	X	0.45	=	2.51
C1-C3 END WALL	2	X	2	X	3.65	X	0.34	X	0.45	=	2.23
C3-C2	2	X	2	X	4.1	X	0.34	X	0.45	=	2.51
C2-C2 M	2	X	2	X	3.65	X	0.34	X	0.45	=	2.23
										Total	18.96
										say	18.96

-- 7 --

- 7 Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed CUM designs and drawings including centering, formwork, cover blocks 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 concrete mixer With natural sand.

Ventilators - V1 Long side	2	x	7	x	1.55	x	0.520	x	0.08	=	0.90	
										Total	<b>0.90</b>	
										Say	0.90	
8 Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work <u>in slabs</u> as per detailed drawing and design as directed including dewatering if necessary centering, formwork, compaction, finishing the formed surface wit												
PLATFORM SLAB	1	X	2	X	5.00	X	1.800	X	0.10	=	1.80	
deduct column offset	-2	X	2	X	0.30	X	0.15	X	0.10	=	-0.02	
										Total	1.78	
										say	1.78	
9 Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc.												
	1	X	1	x	17.40	X	15.54	X		=	270.40	
										TOTAL NET QTY. =	270.40	sqm
										Say	270.40	SQM
10 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, linteis pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bass, binding with wires or tack welding and supporting as required complete .....												
FOOTING	1	X	1	X	11.60	X	80.00		....	=	928.00	
COLUMN	1	X	1	X	10.03	X	90.00		....	=	902.70	
BEAM	1	X	1	X	18.96	X	110.00		....	=	2085.60	
CHHAJJA	1	X	1	X	0.90	X	50.00		....	=	45.00	
										TOTAL NET QTY. =	3961.30	KG
										TOTAL NET QTY. =	3.96	MT`
										Say	3.96	MT`
11 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.												
For Plinth Work												
<b>For PANEL</b>												
C1-C1 middle	2	X	2	X	4.1	X	0.23	X	0.75	=	2.83	
C1-C3 END WALL	2	X	2	X	3.65	X	0.23	X	0.75	=	2.52	
C3-C2	2	X	2	X	4.1	X	0.23	X	0.75	=	2.83	
C2-C2 M	2	X	2	X	3.65	X	0.23	X	0.75	=	2.52	
										Total	=	10.70
										say	=	10.70
12 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.												
For Super Structure												
<b>For PANEL</b>												
C1-C1 middle	2	X	2	X	4.1	X	0.23	X	2.10	=	7.92	
C1-C3 END WALL	2	X	2	X	3.65	X	0.23	X	2.10	=	7.05	
C3-C2	2	X	2	X	4.1	X	0.23	X	2.10	=	7.92	
C2-C2 M	2	X	2	X	3.65	X	0.23	X	2.10	=	7.05	
Gable	0.5	X	2	X	15.70	X	0.23	X	2.75	=	9.93	
										Total	<b>39.87</b>	



- 16 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.... SqM

Outside									
Long wall	2	X	1	X	17.40	X	3.90	=	135.72
short wall	1	X	2	X	15.54	X	3.90	=	121.21
Gable wall	0.5	X	2	X	14.17	X	2.00	=	28.34
Column offset C1	6	X	1	X	0.74	X	3.90	=	17.32
C3	4	X	1	X	0.64	X	3.90	=	9.98
Ite C2	4	X	1	X	0.54	X	3.90	=	8.42
Weather sheds over									
V1 top, bottom	2	X	7	X	1.55	X	0.67	=	14.54
Sides	2	X	7	X	0.450	X	0.08	=	0.47
V 2 top, bottom	2	X	13	X	1.10	X	0.67	=	19.16
Sides	2	X	13	X	0.450	X	0.08	=	0.88
Deduction									
rolling shutter	1	X	1	X	1.80	X	2.10	=	3.78
v1	0.5	X	7	X	1.40	X	1.40	=	6.86
v2	0	X	13	X	1.30	X	0.45	=	0.00
Total								=	356.04
Dedu.								=	10.64
Net								=	345.40
Say								=	345.40

- 17 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats SqM including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete....

1	X	1.00	X	183.98	X	....	X	....	=	183.98	
TOTAL NET QTY. =										183.98	SQM
										183.98	SQM

- 18 Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old SQM plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.

1	X	1.00	X	345.40	X	....	X	....	=	345.40	
EXTERNAL PORTIONS PAINTINGS										345.40	SQM
TOTAL NET QTY. =										345.40	SQM

- 19 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 M.T

1	X	1.00	X	17.76	X	16.00	X		=	284.16	
ROOF TRUSS										30.00	kg/sqm
										8524.80	KG
										8.52	M.T
TOTAL NET QTY. =										8.52	MT

20	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) vath COLORBOND (R) steel quality with thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 coat on back surface. Profile sheet shall have nom. 950-1050 mm width and nominal 25-30 mm deep ribs with subtle square fluting in shall be designed for anti-capillary groove. & 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 kg/sqm)..(As directed by Engineer in charge.)	SQM
Roofing Area	1 X 2 x 17.76 x 7.50 X = 266.40	
	TOTAL NET QTY. = 266.40	SQM
		266.40 SQM
21	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 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 mm, comprising of nominal 25mm 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 sublet square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. & 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 kg/sqm) 301 mm to 600 mm girth (Surface Width)..(As directed by Engineer in charge.)	SQM
Ridge at roofing lvl	1 X 1.00 X 17.76 X 0.3 = 5.33	
	TOTAL NET QTY. = 5.33	SQM
	SAY = 6.00	SQM
22	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 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) (Without mechanical gear)...	Sqm
Rulling Shutter	1 X 2.00 X 1.80 X 2.4 X .... = 8.64	
	TOTAL NET QTY. = 8.64	SQM
		8.64 SQM
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.As directed by Engineer in charge.	sqm
V1	2 X 7 X 1.40 X 1.40 = 27.44	
V2	0 X 13 X 1.00 X 0.60 = 0.00	
	Total 27.44	
	Say 27.44	
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete.(Anti Corossive Paint)	Rmts
	0 x 6.00 = 0.00	
		0.00
		0.00 Rmts
25	Providing and fixing wind oppareted tarbo S S. ventiletar systim (24 inch dia.) over exsiting roof including cutting of sheet ,propar fixing in position to true line & level with all fixtures & fastning, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterfoof joints with approved water proffing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light parpose at terrace [As directed by Engineer in charge]. (Jalgaon D.S.R.304 /123)	Nos
For W H Bldg	2 x 2 x 1 x 1.00 = 4.00	
	Total = 4.00	
	say = 4.00	Nos

26 Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface Sq.m

<b>III stage</b>	1	X	1	X	17.40	X	15.54	=	270.40		
								Total	=	270.40	
								<b>Say</b>	=	<b>270.40</b>	Sq.m

SUBWORK II :- Electrification Work

I.N.	DESCRIPTON OF ITEM	Qty	UNIT
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	18.00	Each
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	18.00	Rmt
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	3.00	Rmt
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. CSR 2019-20 Item No 1-7-7	2.00	Each
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	5.00	kg
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR 2019-20 Item No 5-4-1 Additional specification no. SW-SWR/MCBDB	1.00	Each
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each
8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each

- 10 Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL
- 12.00 Rmt
- 11 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10
- 12.00 Rmt
- 12 Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL
- 2.00 Each
- 13 Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU
- 2.00 Each
- 14 Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB
- 1.00 Each
- 15 Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete .CSR 2019-20 Item No 2-5-4 Additional specification No . FGODF/ FLS2.
- 2.00 Each
- 16 Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC
- 2.00 Each
- 17 Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length buried in earth upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item. CSR 2018-19 Item No 44.18 Additional Spec No:BDW 1 PAGE No 581
- 1.00 No.
- 18 Providing and fixing copper strip 25mm wide and 3mm thick for lightning conductor including fixing with screws required scaffolding etc. complete Note- Lightning conductor and earthing pits is not considered in this item. CSR 2019-20 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge
- 2.00 Rmt

Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED

LEADS & RATES OF MATERIALS

BASED ON STATE SSR 2022-23

S.N.	MATERIAL & LOCATION	UNIT	<u>Lead in KM</u>	Actual lead	LEAD DIFF.	Pay load Factor	NET	Rate /unit
1	2	3	4	5	6	7	8	9
1	SAND	CU M	<u>5</u>	263.19	263.19	1.00	263.19	263.19
2	CRUSHED METAL UPTO 40 MM	CU M	<u>5</u>	263.19	263.19	1.00	263.19	263.19
3	METAL ABOVE 40 MM	CU M	<u>5</u>	252.22	252.22	1.00	252.22	252.22
4	RUBBLE	CU M	<u>5</u>	321.99	321.99	1.00	321.99	321.99
5	BRICKS	1000 NOS	<u>5</u>	531.38	531.38	1.00	531.38	531.38
6	HARD MURUM	CU M	<u>2</u>	203.32	203.32	1.00	203.32	203.32
7	SOFT MURUM	CU M	<u>2</u>	203.32	203.32	1.00	203.32	203.32
8	ROYALTY CHARGES	CU M	<u>1</u>	237.37		1.00	0.00	0.00

Jr.Engineer

Sectioanl Engineer

		QTY	RATE	AMOUNT
1 C.C. 1:3:6 for foundation & bedding	SAND	0.47	263.19	123.70
	METAL	0.94	263.19	247.40
2 P & C U.C.R masonry	SAND	0.35	263.19	92.12
	RUBBLE	1.16	321.99	373.51
3 P & C B.B. masonry in plinth & S.S	SAND	0.32	263.19	84.22
	BRICKS	0.475	531.38	252.41
4 P & L R.C.C. (M-20) 1:1.5:3	SAND	0.425	263.19	111.86
	METAL	0.85	263.19	223.71
4-A P & L R.C.C. 1:2:4	SAND	0.425	263.19	111.86
	METAL	0.85	263.19	223.71
5 P & A 12 mm tk plaster	SAND	0.015	263.19	3.95
6 P & A 20 mm tk plaster	SAND	0.025	263.19	6.58
7 P & F ploished shahabad for sills & dado	SAND	0.022	263.19	5.79
8 P & C half brick wall	sand	0.034	263.19	8.95
	bricks	0.12	531.38	63.77
9 P & a flush pointing in c.m.1:3 for stone masonry	sand	0.003	263.19	0.79
10 M.S.Channel	KG			0.00
11 Wind ties 1.90 kg / mtr	RMT			0.00
12 M.S.angle sill 4.68 kg / mtr.	RMT			0.00
13 M.S.ladder 18.40 kg/ mtr.	RMT			0.00
14 V1 & V2 vents 43.33 kg/m2.	SQM.			0.00
15 P & L R. C. C. M30	SAND	0.425	0.00	0.00
	METAL	0.85	0.00	0.00

The centre falls under sugarcane area / corporation /Trible	Building	Road
Hence percentage required to be added will be percentage	0.00%	0.00%
Municipal Council Area	4.00%	10.80%
TOTAL	4.00%	10.80%
Dedn for SCADA	-25.00%	5.00%

## Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited

At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED

## SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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.	32.42	cum	21.01/153	239.00						239.00	0.00	239.00	7748.00
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and	24.46	CUM	21.05/153	365.00						365.00	0.00	365.00	8928.00
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel gneiss metal for foundation and bedding including	33.12	CUM	24.01/175	5830.00	-126.00	111.86	223.71			6039.57	0.00	6039.57	200031.00
4	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip	11.60	cum	25.11/178	7104.00	-126.00	111.86	223.71			7313.57	0.00	7313.57	84837.00
5	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	10.03	cum	25.31/179	13783.00	-126.00	111.86	223.71			13992.57	0.00	13992.57	140345.00
6	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	18.96	cum	25.50/181	12269.00	-126.00	111.86	223.71			12478.57	0.00	12478.57	236594.00
7	Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed designs and drawings including centering, formwork, cover blocks	0.90	CUM	26.05/184	13932.00	-126.00	111.86	223.71			14141.57	0.00	14141.57	12727.00
8	Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including	1.78	cum	26.09/184	13932.00	-126.00	0.00	111.86			13917.86	0.00	13917.86	24774.00
9	Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20	270.40	SQM	33.30/216	796.00	-126.00	111.86	223.71			1005.57	0.00	1005.57	271906.00

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED

SUB WORK I :-Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
1	2	3	4	5	6	-126.00 7	8	9	10	11	12	13	14	15
10	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns.	3.96	MT	26.33/188	89703.00						89703.00	0.00	89703.00	355340.00
11	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	10.70	Cum	27.01/197	7755.00		252.41				8007.41	0.00	8007.41	85679.00
12	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking	31.82	Cum	27.05/197	7994.00		252.41				8246.41	0.00	8246.41	262401.00
13	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm,	162.24	CUM	21.37/157	599.00						599.00	0.00	599.00	97182.00
14	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. Complete	55.38	CUM	21.40/157	1454.00						1454.00	0.00	1454.00	80523.00
15	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions	183.98	sqm	32.04/209	278.00	3.95					281.95	0.00	281.95	51873.00
16	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in	345.40	sqm	32.11/209	639.00	3.95					642.95	0.00	642.95	222075.00
17	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the	183.98	SQM	36.11/227	48.00						48.00	0.00	48.00	8831.00
18	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including	345.40	SQM	35.16/224	97.00						97.00	0.00	97.00	33504.00

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED

SUB WORK I :- Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
1	2	3	4	5	6	-126.00	8	9	10	11	12	13	14	15
19	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs	8.52	MT	23.04/173	119459.00						119459.00	0.00	119459.00	1018364.00
20	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	266.40	SQM	38.34/236	1173.00						1173.00	0.00	1173.00	312487.00
21	Providing and fixing of colour coated Zinaluminium R) AZ150 ( min 150 gms/sq.mt. Total on each side ) profiled sheets for roofing. The	6.00	SQM	38.35/237	751.00						751.00	0.00	751.00	4506.00
22	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	8.64	SQM	39.24/248	4829.00						4829.00	0.00	4829.00	41723.00
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and	27.44	SQM	39.30/249	4827.00						4827.00	0.00	4827.00	132453.00
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps	0.00	Rmts	41.56/271	1128.00						1128.00	0.00	1128.00	0.00
25	Providing and fixing wind oppareted tarbo S S. ventiletar systim (24 inch dia.) over exsiting roof	4.00	Nos	42/529	9702						0.00	0.00	0.00	0.00
26	Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface	270.40	Sq.m	21.24/156	108.00						108.00	0.00	108.00	29203.00

TOTAL RS

3724034.00

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED

SUB WORK I :- Civil work

BASED ON STATE SSR 2022-23

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES			LIFTS & RA	TOTAL OF	ADD % for	TOTAL OF	AMOUNT
							6 TO 11	Area	12 TO 13					
1	2	3	4	5	6	-126.00	8	9	10	11	12	13	14	15

SUBWORK II :- Electrification Work

1	Supplying & erecting mains with 2x1.5 sq.mm. and	18.00	Each	1-6-2/11	106						106.00	0.00	106.00	1908.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and	18.00	Rmt	1-6-4/11	129						129.00	0.00	129.00	2322.00
3	Supplying & erecting mains with 2x4 sq.mm. and	3.00	Rmt	1-6-6/11	137						137.00	0.00	137.00	411.00
4	Supplying and erecting Ceiling rose / Batten holder /	2.00	Each	1-7-7/13	803						803.00	0.00	803.00	1606.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3	5.00	kg	6-1-9/114	1040.00						1040.00	0.00	1040.00	5200.00
6	Supplying and erecting triple pole and neutral	1.00	Each	5-4-1/98	2356.00						2356.00	0.00	2356.00	2356.00
7	Supplying, erecting & marking FPMCB 40A to 63A	2.00	Each	5-3-17/97	1544.00						1544.00	0.00	1544.00	3088.00
8	Supplying, erecting & marking DPMCB 6 A to 32 A	2.00	Each	5-3-7/96	510						510.00	0.00	510.00	1020.00
9	Supplying & erecting conventional spike Providing	1.00	Each	9-1-3/161	6055						6055.00	0.00	6055.00	6055.00
10	Supplying, erecting & terminating XLPE armoured	12.00	Rmt	7-1-30/128	261						261.00	0.00	261.00	3132.00
11	Supplying and laying (including excavation of	12.00	Rmt	7-6-10/140	241						241.00	0.00	241.00	2892.00
12	Supplying & erecting Siemens type brass cable	2.00	Each	7-7-4/141	196						196.00	0.00	196.00	392.00
13	Supplying & erecting crimping type copper lugs for	2.00	Each	7-9-2/142	35						35.00	0.00	35.00	70.00
14	Supplying and erecting single pole and neutral	1.00	Each	5-4-14/99	15						15.00	0.00	15.00	15.00
15	Supplying and erecting LED Street light fitting	2.00	Each	2-5-4/35	1670						1670.00	0.00	1670.00	3340.00
16	Supplying and erecting Street light bracket made	2.00	Each	2-9-2/40	4825						4825.00	0.00	4825.00	9650.00
17	to 44.18 Additional Spec No:BDW 1 pAGE No 581	1.00	0	44.18	25784						25784.00	0.00	25784.00	25784.00
18	Providing and fixing copper strip 25mm wide and	2.00	Rmt	44.19/581	793						793.00	0.00	793.00	1586.00

TOTAL RS 70827.00

Jr.Engineer

Sectioanl Engineer

ahabaleshwar Strawberry and Organic Farmer Producer Company Limited

At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED

SUBWORK IV:- Royalty Charges

Item.. No.	Description of item	Executed Quantity	Quantity of Material for Royalty Cu. M				Rubble / Rd metal	Remark
			Cement in bags	SAND	Crusher METAL	MURUM		
1	2	3	4	5	6	7	8	9
3	Providing and laying Cast in situ/Ready Mix cement	33.12		0.425	14.076			
4	Providing and laying Cast in situ/Ready Mix cement	11.60		0.425	4.93			
5	Providing and laying Cast in situ/Ready Mix cement	10.03		0.425	4.2628			
6	Providing and laying Cast in situ/Ready Mix cement	18.96		0.425	8.058			
7	Providing and casting in situ cement concrete M-20 of	0.90		0.425	0.3825			
8	Providing & laying in situ cement concrete M-20 of trap	1.78		2.425	4.3165			
9	Providing and laying in situ cement concrete M-20 with	270.40		0.425	114.92			
11	Providing second class Burnt Brick masonry with	10.70		0.32	3.424			
12	Providing second class Burnt Brick masonry with	31.82		0.32	10.182			
13	Filling in plinth and floors with contractors	162.24				1.2	194.69	
14	Providing soling using 80 mm size trap metal in 15 cm.	55.38					1.32	73.1
15	Providing internal cement plaster 12mm thick in single	183.98		0.015	2.7597			
16	Providing sand faced plaster externally in cement	345.40		0.033	11.398			
	<b>Total</b>		0.00	178.71	0.00	194.69	73.10	



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Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited						
At Kheengar Tal.Mahabaleshwar Dist. :- Satara						
NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED						
Elect.C.S.R.2022-23 & M.R.						
SUBWORK II :- Electrical Work.						
I.N.	DESCRIPTON OF ITEM	Qty	UNIT	I.N./ P.N	Total Rate/Unit	Total Amount
1	2	3	4	5	9	10
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	18.00	each	1-6-2/8	106	1908.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	18.00	each	1-6-4/8	129	2322.00
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia,CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	3.00	each	1-6-6/8	137	411.00
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box.CSR2019-20 Item No 1-7-7	2.00	Point	1-7-6/12	803	1606.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	5.00	sqm	6-1-9/106	1040	5200.00
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR2019-20 Item No 5-4-1Additional specification no. SW-SWR/MCBDB	1.00	Each	5-4-1/91	2356	2356.00
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each	5-3-17/91	772	1544.00

8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each	5-3-7/90	510	1020
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results. CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each	9-1-3/160	6055	6055.00
10	Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL	12.00	Rmt	7-1-30/128	261	3132.00
11	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10	12.00	Rmt	7-6-10/140	241	2892.00
12	Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL	2.00	Each	7-7-4/141	196	392.00
13	Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU	2.00	Each	7-9-2/142	35	70.00
14	Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB	1.00	Each	5-4-14/92	15	15.00
15	Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete. CSR 2019-20 Item No 2-5-4 Additional specification No. FGODF/ FLS2.	2.00	Each	2-5-4/31	1670	3340.00
16	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC	2.00	Each	2-9-1/34	4825	9650.00
17	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length buried in earth upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item. CSR 2020-21 Item No 44.18 Additional Spec No:BDW 1 PAGE No 581	1.00	nos	S.S.R.2022-23-44.18/295	25784	25784.00

18	Providing and fixing copper strip 25mm wide and 3mm thick for lightening conductor including fixing with screws required scaffolding etc.complete Note- Lightening conductor and earthing pits is not considered in this item. CSR 2020-21 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge	2.00	Rmt	S.S.R.2022- 23- 44.19/295	793	1586.00
						<b>69283.00</b>

Mahabaleshwar Strawberry and Organic Farmer Producer Company  
Limited

At Kheengar Tal.Mahabaleshwar Dist. :- Satara

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE  
PRODUCTIONS UNIT SHED

Built Up Area --  $17.76 \times 16.00 = 284.16$  Sq.m.

Estimated cost Rs.4657486.00

BASED ON STATE SSR 2022-23

Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

RECAPITULATION SHEET

NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED

BASED ON STATE SSR 2022-23

286.16

PARTICULARS	Capacity	Unit	AMOUNT IN RS.	Cost per MT	Cost per Sqm
1 SUB WORK I :-Civil work		M.T.	Rs. 3724034.00		13013.82
2 SUBWORK II :- Electrification Work		M.T.	Rs. 69283.00		242.11
3 SUB WORK III :- Lab Testing.		M.T.	Rs. 31065.00		108.56
4 SUBWORK IV:- Royalty Charges		M.T.	Rs. 105986.00		370.37
		<u>Total</u>	<u>Rs. 3930368.00</u>		<u>13734.86</u>
Add GST @ 18%	18%		Rs. 707466.24		
Add Labour Insurance @ 0.5%	0.50%		Rs. 19651.84		
		<u>Total</u>	<u>4657486.08</u>		<u>16275.81</u>
		Grand total Rs.	4657486.08		

Prepared by

Checked by

**Mahabaleshwar Strawberry and Organic Farmer Producer Company Limited**  
At Kheengar Tal.Mahabaleshwar Dist. :- Satara

**NAME OF WORK :- PROPOSED NEW CONSTRUCTION WORKS FOR WINE PRODUCTIONS UNIT SHED**

**SUB WORK III :- Lab Testing.**

**BASED ON STATE SSR 2022-23**

Statement showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of Tests	Rate per Test	Amount	Remarks
1	Cement	382.03	Bags	Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	3770.00	3770.00	one test per 1000 Bags
2	Concrete M-10 grade	83.46	cum	i) Concrete cube compressive strength (Set of 3 Cubes)	2	690.00	1380.00	1 test for 15 cum
3	Concrete M-20 grade	36.78	cum	i) Mix Design with all tests on basic materials	1	13755.00	13755.00	One per 500 cum of concrete
				ii) Concrete cube compressive strength (Set of 3 Cubes)	2	690.00	1380.00	1 test for 15 cum
5	Crushed metal for concrete	67.91	cum	i) Water absorption, Specific gravity, Impact value, Crushing value	1	2600.00	2600.00	one test per 1000 cum per source / change in source.
6	Bricks	20197.00	cum	Crushing value, Water absorption, & Specific Gravity	1	2175.00	2175.00	one test per 50000 Nos. of bricks or part.
8	TMT steel bars	3.96	M.T.	Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	1	1595.00	1595.00	1 test per 10.00 M.T. and one for each dia. Of use bar
9	Sand	59.42	cum	Fineness Modulus, silt & clay content.	1	1380.00	1380.00	1 test per source
10	Murum in plinth	162.24	cum	i) Plasticity Index	1	1170.00	1170.00	1 test per 1000 Cum.
				ii) Field Density of compacted layer	1	1860.00	1860.00	1 test per 250 Sq.m
					TOTAL		31065.00	