PROJECT REPORT

ON

PACK HOUSE

WITH

COOL CHAMBER

Details Estimate for the work, "Construction of Pack House at different places"

1. Earth work exaction in foundation & trenches in all kinds of soil with in 50m initial lead and 1.50m of intial lift including rough dressing, breaking clods to maximum 5 cm to 7 cm and leveling to bed upto required depth including cost of all labour and T & P etc. complete

Length – Long	2x 8.75	=	17.50 M			
	3x 5.75	=	17.25 M			
			34.75 M			
Step	1x34.75	x	0.75	x0.60	=	15.64 cum.
	1 x 6.30	x	0.90	x 0.20	=	1.13 cum.
						16.77 cum.

@ Rs.5785/ % cum. = Rs.970.00

2. Filling sand in F& P including well water rammed including cost, conveyance, taxes of all materials, cost of all labour etc. complete.

Find	1x 34.75	x	0.75	x 0.10	=	2.61 cum.
In side room	1 x 5.30	x	3.30	x0.225	=	3.99 cum
	1x 5.30	x	4.30	x 0.225	=	5.13 cum

@ Rs.206.90 / cum = Rs.2417.00

3. Providing and laying plain cement concrete of proportion (1:3:6) in foundation and floors using 2.5 cm to 4 cm size black hard crusher broken granite stone mental and screended and washed sharp sand for mortar of approved quality and from approved quarry, washed and cleaned including hoisting, lowering, laying concrete, remmming, watering and curing etc. complete to required levels laid in layers not exceeding 15cm. thick in each layer including cost, conveyance royalties, taxes of all materials and cost of all labours, T&P etc.

	1x 34.75	x	0.75	x0.100	=	2.61 cum.
In side room	1 x 5.50	x	3.50	x 0.10	=	1.93 cum.
	1x 5.50	x	4.75	x 0.10	=	2.61 cum
						7.15 cum.

@ Rs.2961.00/ cum = Rs.21,171.00

4. Laterite stone masonary in CM (1:6) in foundation& plinth including cost conveyance, taxes of all materials cost all labour etc. complete.

1st footing	1x34.75	x	0.50	x 0.300	=	5.21 cum
2nd footing	1x 34.75	x	0.375	x 0.450	=	5.86 cum.
						11.07 cum.

@ Rs.1896.60/ cum = Rs.20995.00

5. R.C.C. work of M-20 grade having minimum compressive strength in work test of 200 Kg/ Cm^2 in 15cm. cubes at 28 days after mixing using 12 to 20 mm size black hard crusher broken grantie stone chips of approved quality and from approved quarry including hoisting lowering and laying concrete and compacting by using vibrators watering and curing for 4 weeks centring and shuttering and finishing the exposed surface smooth providing groves or beads where necessary in all floors including cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P required for the work etc. complete in all respect but excluding cost and conveyance of M.S. rods or steel and binding wires.

a)	Plinth	1 x 19.00	x	0.250	x 0.100	=	0.48 cum.

@ Rs.4153.40 / sqmt = Rs.1,994.00

b)	Lintel	1 x 2.10	x	0.250	x 0.20	=	0.11 cum
		1 x 1.50	x	0.250	x 0.150	=	0.05 cum
							0.16 cum

@ Rs.6606.40 / sqmt. = Rs.961.00

6. Well burnt K.B. brick masonary in cement mortar (1:6) in Super strurcture using kiln burnt bricks of 10” size having a crushing strength of not less than 75 kg per sq.cm after immersing bricks of six hours in water before use with all necessary projections, splays cutting circular moudlign, chamfering, corbelling, watering, curing etc. complete including cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P required for the work etc. complete in all respect.

Length – Long	2 x 5.75	=	11.50	M			
	2 x 3.75	=	7.50	M			
			19.00	M			
Water vat	3 x 0.90	=	2.70	M			
	2 x 2.75	=	5.50	M			
			8.20	M			
	1 x 19.00	x	0.250	x 3.000	=		14.25 cum.
	1 x 8.20	x	0.250	x 0.900	=		1.85 cum.

						16.10 cum
Step	1 x 6.00	x	0.900	x 0.150	=	0.81 cum.
Deduct opening	1 x 1.80	x	0.250	x 2.750	=	-1.24 cum.
	3 x 1.20	x	0.250	x 1.650	=	-1.49 cum.
Plinth bend					=	-0.48 cum
Lintel					=	-0.16 cum.
						14.53 cum.

@ Rs.2670.60 / sqmt. = Rs.38804.00

7. Providing 16 mm thick cement plaster with cement mortar of mix (1:4) with screened and washed sharp sand for mortar and finished smooth to the rough surface of wall in all heights after racking out joints including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.

Room in side	1 x (5.50 + 3.50) x 3.000	=	27.00 sqmt.
Vat	2 x (0.90 + 0.20) x 0.900	=	1.98 sqmt.
			28.98 sqmt.
Deduct opening	0.50 x 1.80 x 2.750	=	-2.48 sqmt.
	0.50 x 1 x 1.20	=	-0.99 sqmt.
			25.51 sqmt.

@ Rs.74.70 / sqmt. = Rs.1906.00

8. Providing 12 mm thick cement plaster with cement mortar of mix (1:6) with screened and washed sharp sand for mortar and finished smooth to the surface of walls in all heights after racking out jointly including watering and curing, rounding of concerns, providing grooves where ever necessary with cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.

Room in side	1 x (6.00 + 4.00) x 3.000	=	30.00 sqmt.
Vat	2 x (2.15 + 1.50) x 0.900	=	3.29 sqmt.
			33.29 sqmt.
Deduct opening	0.5 x 1.80 x 2.750	=	-2.48 sqmt.

	0.5 x 1	x 1.20	x 1.650	=		-0.99 sqmt.
						29.14 sqmt.
				@	Rs.74.70 / sqmt. =	Rs.1906.00

9. Supplying of MS grill of approved design by using M.S. flat, angle, square bar confirming to IS 1977/95 including cutting & mending to proper size, welding, making holes where every necessary with cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.

Door	1 x	1.80	x	2.750	=	4.95 sqmt.
	1 x	1.20	x	1.650	=	1.98 sqmt.
						10.89 sqmt.

@ 20.00 kg/ sqmt. = 217.8 kg

@ Rs.44.20 / kg. = Rs.6126.00

10. Straightening cutting, bending bent up or coiled rods, including cranking, hooking, welding or jointing the M.S. rods or tor confirming to I.S. 432 (Plain) and 1785 (Tor) steel and binding, tying the grills, hoisting and placing in proper position required for R.C.C. works including cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.

Plinth Bend	item -6 a =	0.48 curr	@ 50 kg/ cum	=	24.00 kg.
Lintel	item -6 b =	0.1 curr	@100 kg/ cum	=	11.00 kg.

or 0.35 Qntl. @ Rs.5125.90 / Qntl. = Rs.1,794.00

11. Supplying of MS angle of approved design confirming to IS 1977/95 including cutting & mending to proper size, welding, making holes where ever necessary with conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P ect. Required for the work complete in respect as directed by the Engineer in charge.

60x60x6	4	x	5.00	=	20.00 M
	1	x	6.00	=	6.00 M
					38.00 M
			@ 5.4 Kg/M	=	140.40 Kg

@ Rs. 45.70 / Kg = Rs.6416.00

12. Providing, fitting & fixing of Big six or Trafford A.C. sheet of approved make in roof including drilling holes in wind tiles, fixing on ridges valleys, wind tiles including cost, , conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.

1 x 6.00 x 4.300 = 25.80 sqmt.

@ Rs.224.80 / sqmt. = Rs.5,800.00

13. 2.5 cm (1") thick A.S. flooring with C.C. (1:2:4) laid to proper slope by using 12 mm size black hard crusher broken grantie stone chips of approved quality and from approved quarry including punning, watering and curing for 28 days with cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.

1 x 5.50 x 3.500 = 19.25 sqmt.

1 x 5.50 x 4.750 = 26.13 sqmt.

45.38 sqmt.

@ Rs.142.20 / sqmt. = Rs.6,452.00

14. Painting two coats enamel paint over a coat of red oxide primer to iron works of approved make and shade to make an even shade after preparing the surface smooth by means of sand papering & applying putty wherever necessary in all floors with cost, conveyance, royalties and taxes of all materials, cost of all labour with cost of all T&P and scaffolding required for the work etc. complete as directed by the Engineer in charge.

1 x 1.80 x 2.750 x 2.25 = 11.1 sqmt.

3 x 1.20 x 1.650 x 2.75 = 16.34 sqmt.

27.47 sqmt.

@ Rs.68.70 / sqmt. = Rs.1,887.00

15. White washing two coats with approved good shell lime & mixed with indigo blue over the interior surface of the walls and ceiling in all floors including cost, conveyance, taxes of all materials, cost of indio blue, cost all labour cess, T&P etc. complete in all respect as directed by the Engineer in charge.

Qnty. Same as item No. 7 = 25.51 sqmt.

@ Rs.7.10 / sqmt. =Rs.1812.00

16.
Colour washing two coasts over a coat of washing with approved good shell lime & mixed with colouring materials over the outside of the wall in all floors including cost, , conveyance, taxes of all materials, cost of indigo blue, cost of all labour cess, T&P etc. all complete in all respect as directed by the Engineer in charge.

Qnty same as item No. 8			29.14 sqmt.
Plinth	1 (6.00 + 9.00)	0.600	9.00 sqmt.
			38.14 sqmt.
		@ Rs.8.90 / sqmt	Rs.339.00
			Rs.1,21,750.00
	Add contingency (LS)		Rs.1217.00
		Total	**Rs.122967.00**
		say	Rs.122968.00

Cost of small cool chamber (1.4 MT) one unit turn key basis Rs170000.00

cost of Gen. set, electric wiring etc. **Rs8000.00**

(Cost of machine will vary) how ever project cost is limited to **Rs.30,0000.00**

SMALL COOL CHAMBER
(1.4 MT CAPACITY)

Capacity – 1.4 MT

Size of chamber – 6ft x 4ft x 7ft

Storage capacity – 1.4 MT

Insulation – 60 mm PUF panel

Purpose – store mix vegetables and fruits for short term duration

Temperature range – 2 deg. Centigrade to 6 deg. Centigrade

Clear opening door – 6 feet x 2 feet

Refrigerant – R404A/ R22

Connected power – 1730 watt

Power consumption – 1265 watt

PROFIT ANALYSIS OF SMALL COOL CHAMBER (1.4 MT)

Product storage capacity - 1.4 MT (14 qntl.)

Option – 1

If the products stored on rented basis. The rent charge is Rs.0.30 /Kg/12 hr (Maxmimum 300 days storage)

Collected revenue – 1400 x 0.30x300 - Rs.1,26,000/ per year

Option – 2

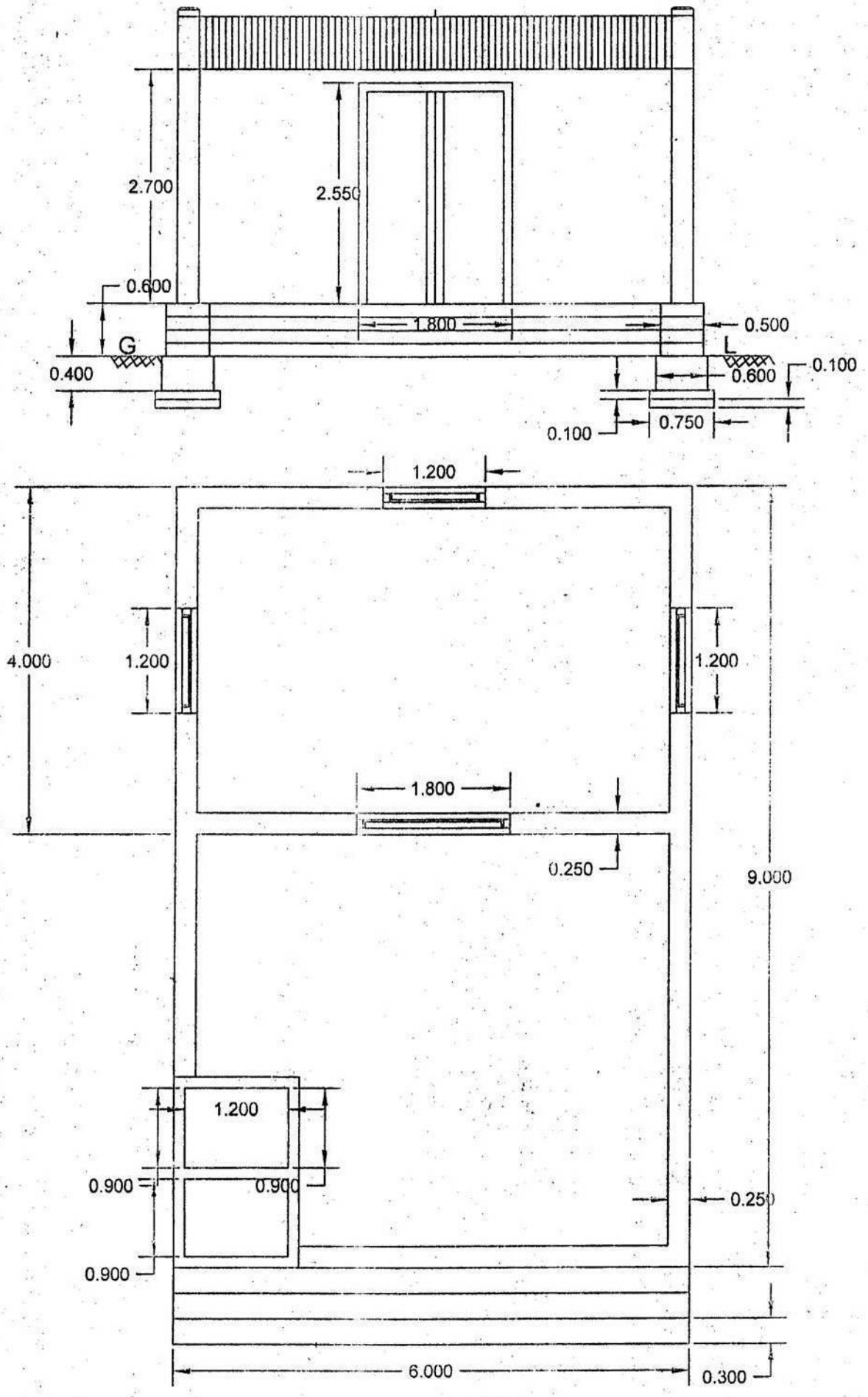
If the product stored on rented basis as well as own trading products will be stored

Collected revenue from rent - 7000x0.30x300 - Rs.63,000/-

Collected revenue from own product - 700x5x8 - Rs.28,000/-

Total profit will be Rs.63,000+Rs.28,000 - Rs.91,000/- (Expenditure will be excluded)

Farmers will store products as per permutation and combination.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