Name of Work: <u>2018-19 Construction of Mini Material Recovery Collection Centre at Various Places.</u>

TYPE - VII (Size 2.50 x 1.60 M)

1) 10.16.1 Steel work in built up tubular (round, square or rectanglar hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes.

a) 50 x 25x2.60^{mm} Rectangular Hollow section for supporting post of roof.

For post	4	x	2.10	=	8.40
Tie beam (Length wise)	2	x	2.50	=	5.00
Tie beam (Width wise)	4	x	1.60	=	6.40
Additional Central Portion	4	x	2.75	=	11.00

30.80 m x 2.71kg/m   = 83.466 kg

b) 25x25x2.60^{mm} Square Hollow section for common rafters.

2x4	x	1.00	=	8.00 m
2x4	x	0.55	=	4.40 m

= 12.40 m x 1.69 kg/m   = 20.956 kg

= 104.92

Say 105.00kg   Rs. 130.07 / kg   = Rs. 13657.35

2) 10.25.2 Item shifted to head 14 as item 14.74 steel work welded in built up sections of framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in grainting, frames, guard bar, ladder, railing brackets, gates and similar works.

a) 30 x 20 x 3^{mm} angel iron frame and 5^{mm} dia MS rods vertical and horizontal nets at 10cm c/c for compartment

Bottom row compartment	1	x	4	=	4 Nos.
No. of mesh pieces	4	x	6	=	24 Nos.
Top row compartment	1	x	4	=	4 Nos.
No. of mesh pieces	4	x	5	=	20 Nos.
Additional (Bottom + top)	1	x	2	=	2 Nos.
1 pieces weight of mesh				=	6.023
Hence 46 Nos. (24 +20 + 2) pieces of weight	46	x	6.023	=	277.05

Say 277.00 kg   Rs. 123.87/ kg   = **Rs. 34090.39**

3) 12.50 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation asapproved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of thesheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 micronsminimum to avoid scratches during transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping

Roof	2 x	3.45	x	0.38	=	6.072
Sky light roof	2 x	3.45	x	0.80	=	5.52

$$11.592 \text{ m}^2$$

Say 12.00 m^2   Rs. 793.24/m^2 = **Rs. 9518.88**

4) Providing lock and locking arrangement with name board.

LS   = **Rs. 2500.00**

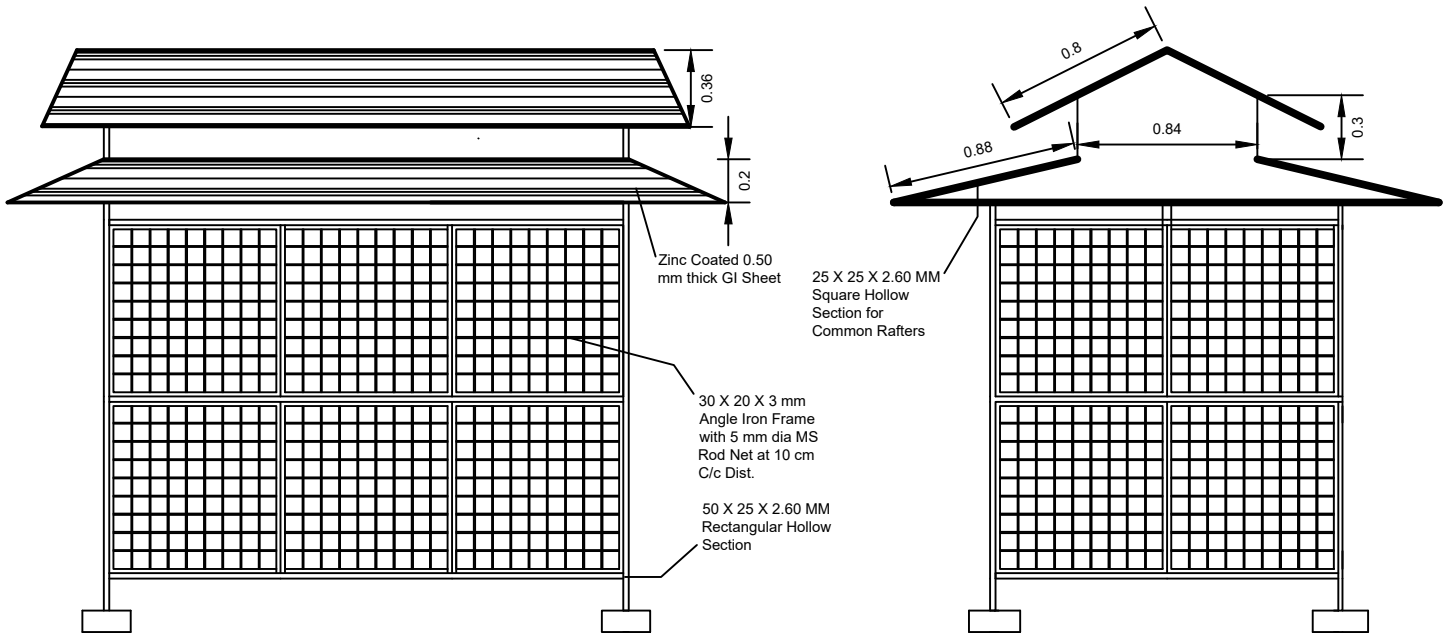Total   = Rs. 59766.62

Unforeseen   = Rs. 233.38

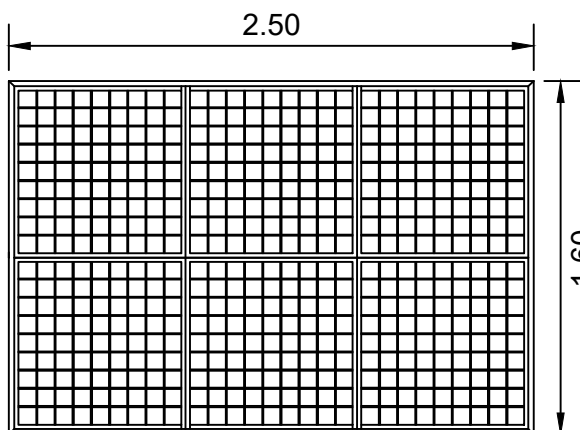**Grand Total**   =   Rs. 60000.00
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Name of work - 2018-19 Construction of a Mini Material Collection Center at various places
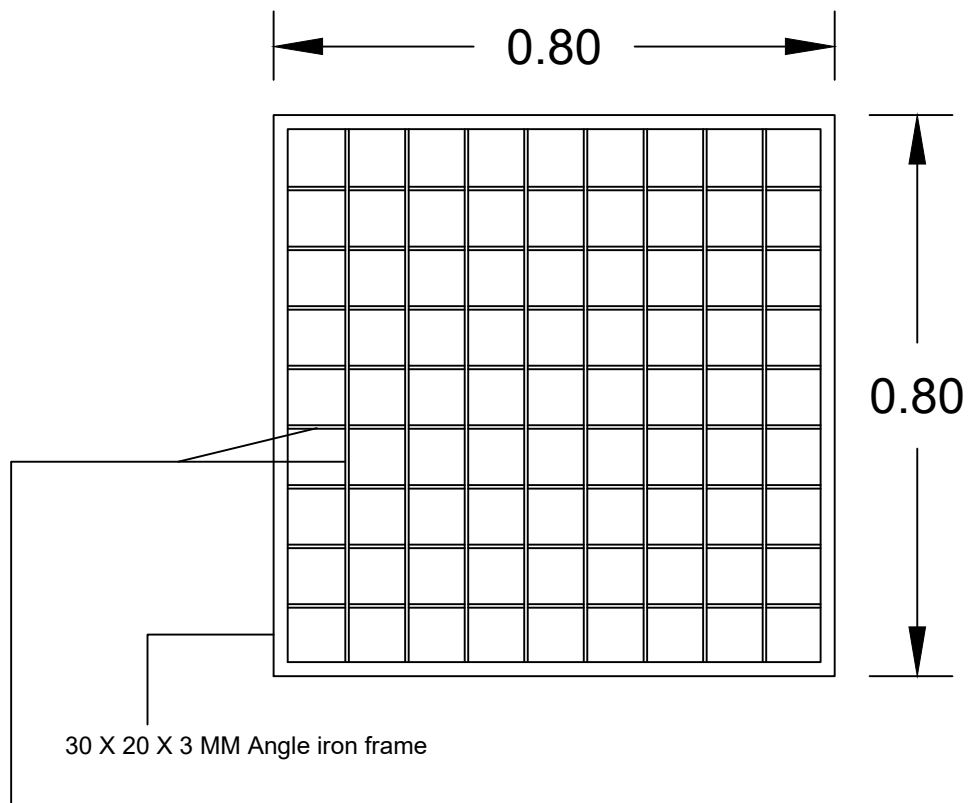
Type No. VII (Size 2.50 X 1.60 M)

0.36

0.2

Zinc Coated 0.50
mm thick GI Sheet

30 X 20 X 3 mm
Angle Iron Frame
with 5 mm dia MS
Rod Net at 10 cm
C/c Dist.

50 X 25 X 2.60 MM
Rectangular Hollow
Section

ELEVATION

0.8

0.84

0.3

0.88

25 X 25 X 2.60 MM
Square Hollow
Section for
Common Rafters

SIDE VIEW

2.50

1.60

PLAN

Details of one piece of mesh

0.80

0.80

30 X 20 X 3 MM Angle iron frame

5 MM Dia M.S. rods for net @ .085 M c/c

Data for 1 piece of mesh in size 0.80 X 0.80 M

(a) 30 X 20 X 3 MM Angle iron frame :-
      Vertical Frame   -2 X 0.80 = 1.60
      Horizontal Frame -2 X 0.80 = 1.60
                          3.20 M X 1.10 Kg/M = 3.52 Kg
(b) 5 MM Dia M.S. rods Vertical and Horizontal net :-
      Vertical   - 9 X 0.80 = 7.20
      Horizontal   - 9 X 0.80 = 7.20
                          14.40 M X 0.154 Kg/M = 2.217 Kg
                                                  5.737
                          add 5 % wastage   0.286
                                                  6.023 Kg