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

TYPE - II   (Size 2.50 x 0.80 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) $50 \times 25 \times 2.60^{mm}$ Rectangular Hollow section for supporting post of roof.

For post (Front)	2	x	2.10	=	4.20
For post (Back)	2	x	1.80	=	3.60
Tie beam (Length wise)	2	x	2.50	=	5.00
Tie beam (Width wise)	2	x	0.80	=	1.60

14.40 m x 2.71kg/m = 39.024 kg

b) $25 \times 25 \times 2.60^{mm}$ Square Hollow section for common rafters.

4	x	1.30	=	5.20
4	x	0.60	=	2.40

7.60 m x 1.69 kg/m   = 12.844 kg

= 51.868 kg

Say 55.00 kg   Rs. 130.07 / kg   = Rs. 7153.85

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 3	=	3 Nos.
No. of mesh pieces	3	x 6	=	18 Nos.
Top row compartment	1	x 3	=	3 Nos.
No. of mesh pieces	3	x 5	=	15 Nos.
1 pieces weight of mesh			=	6.023 kg.
Hence 33 Nos. (18 + 15) pieces of weight	33	x 6.023	=	198.759

Say 200.00 kg   Rs. 123.87/ kg   = Rs. 24774

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   1 x   3.40 x   1.42   = 4.828

          1 x   3.40 x   0.65   = 2.21
                                        7.038

Say 7.00 m^2 Rs. 793.24/m^2 = Rs. 5552.68

4) Providing lock and locking arrangement with name board.

LS   = Rs. 2500.00
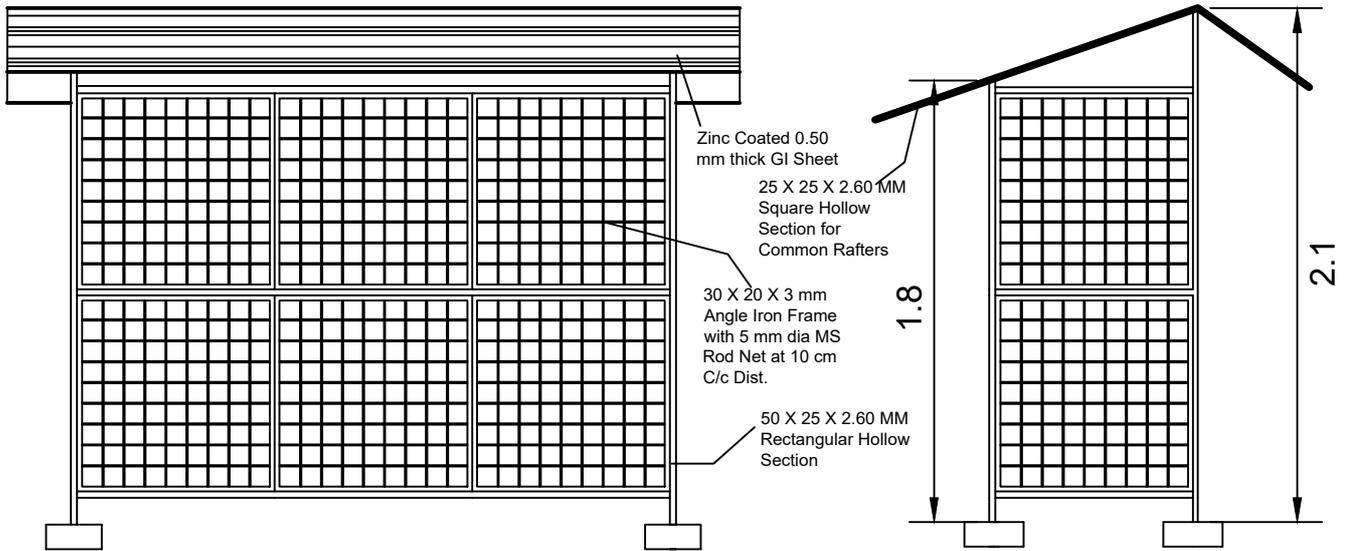Total   = Rs. 39980.53
Unforeseen = Rs.   519.47
Grand Total   = Rs. 40500.00
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Name of work - 2018-19 Construction of a Mini Material Collection Center at various places
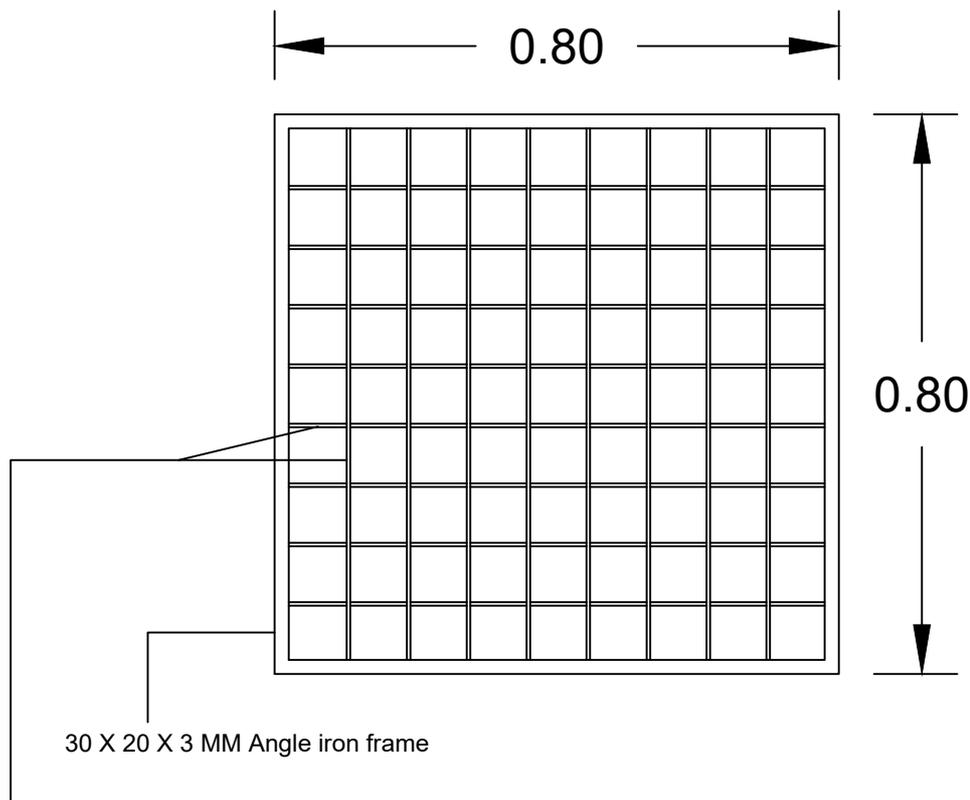
Type No. II (Size 2.50 X 0.80 M)

Zinc Coated 0.50 mm thick GI Sheet

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

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

1.8

2.1

ELEVATION

SIDE VIEW

2.50

0.80

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