

(A) - Part

Rate as per DSR 2021

Annexure - I

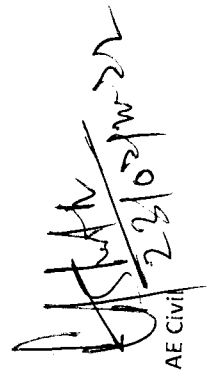
Estimating and costing of Construction of MS Frame shed for de-humidifier Physics Dept. at terrac of 2nd floor Block-04 in IIT Patna

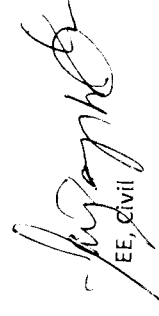
SN	Description of items	L,m	B,m	H,m	Qty	Units	Rate, Rs.	Amount, Rs.
1	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. all complete.							
10.16.1	Hot finished welded type tubes , including base plate by 50*5 MS patty, Rectangular tube size (60*40 mm*2.9) , 25*25*2.6 mm and (40*40*2.6)mm.				1430	kg	154.9	221507.00
2	Painting on MS post and Frame & G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :							0.00
13.53.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution sqm				40	sqm	150.2	6008.00
3	RCC fastener 200 mm long				40	each	30	1200.00
								0.00
4	12.50 Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat: 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				90.000	sqm	671.55	60439.50
5	21.17 Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment). Qty- 27.684 m2 @ 2.5kg/m2= 69.21 kg. =70kg approx.				70	kg	560.85	39259.50

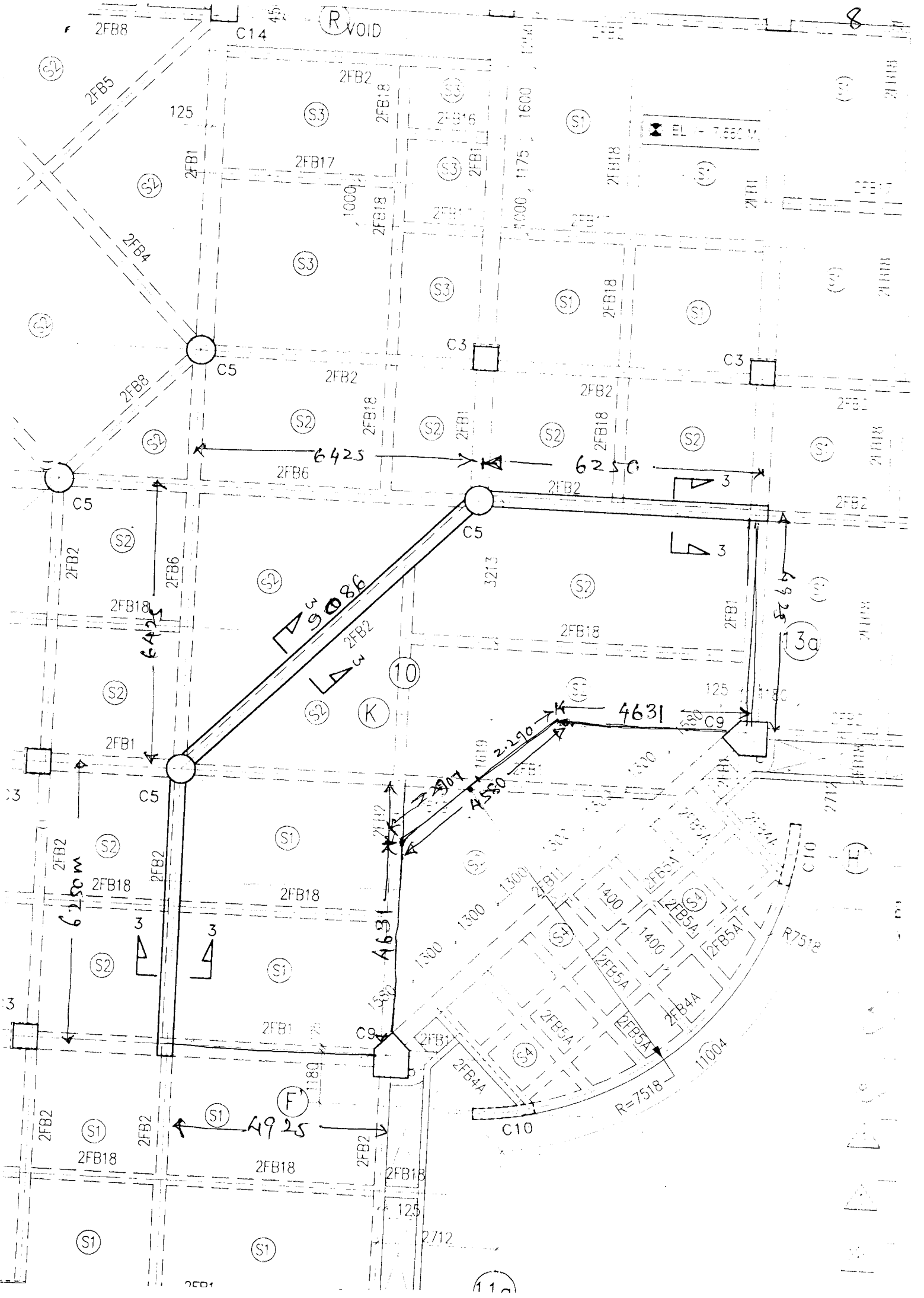
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25/10/2021

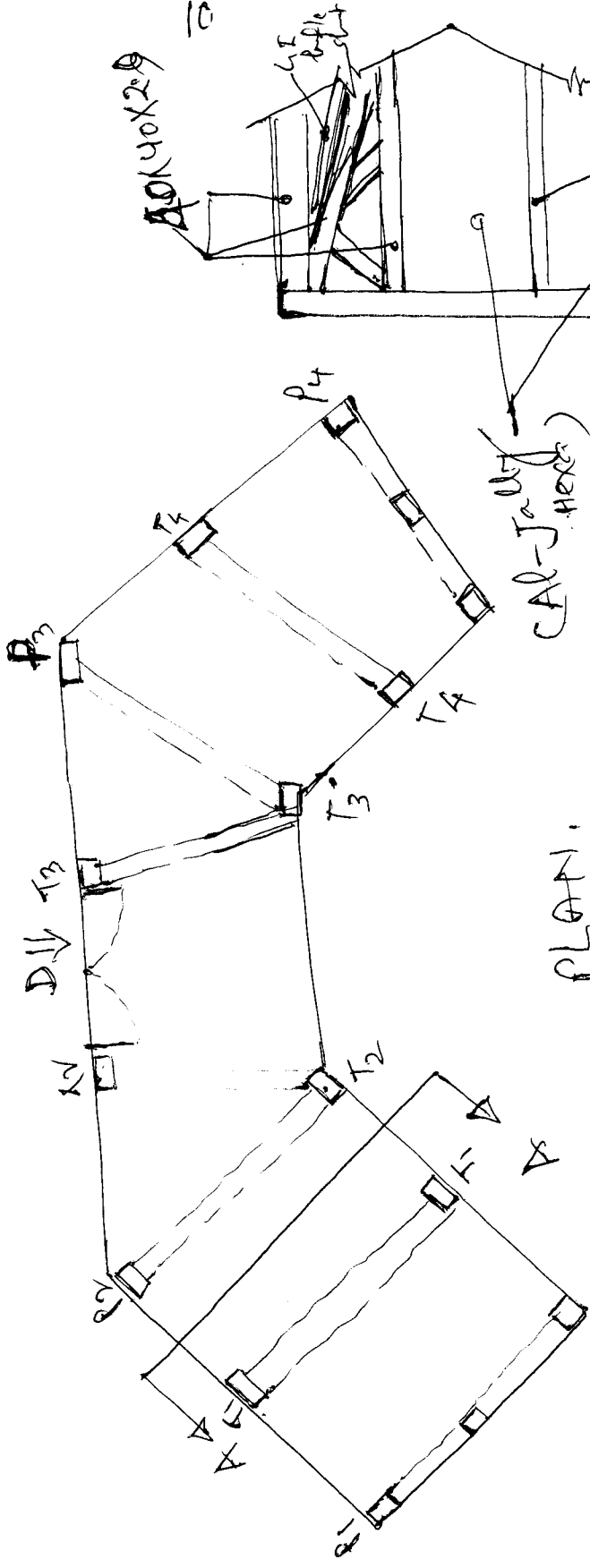
6	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :							
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)							
	4.1.5	Powder coated aluminium (minimum thickness of powder coating 50 micron) C.C work 1:3:6 (1 Cement : 3 coarse sand (zone-II) : 6 graded stone aggregate 20 mm nominal size) Edge of plinth	35.000	kg	564.8				19768.00
			22	0.100	0.100	0.22		6833.4	1503.35
			Total						349685.35
					Add cost index 1.9% on DSR 2021 rate				6644.02
					G.Total, Rs.				356329.37
					Say				Rs.3, 56, 329/-
					A				
					Cost of (A+B)				Rs. 356329+67732= Rs.4, 24, 061/- only

Rs. Three Lakh Fifty Six Thousand Three Hundred Twenty Nine only

  
 AE Civil  
 22/10/2022

  
 EE, Civil





PLAN.

- a) M.S. Post  $\rightarrow 60 \times 40 \times 2.9 \text{ mm} \Rightarrow 8 \times 3.66 \text{ m} = 29.28 \text{ m}$   $60 \times 40 \times 2.9 \text{ mm}$   
 $\Rightarrow 2 \times 3.20 \text{ m (e.r.)} = 6.40 \text{ m}$   
 $\Rightarrow 6 \times 2.75 \text{ m} = \frac{16.50 \text{ m}}{52.18 \text{ m}}$   
 $\Rightarrow 4 \times 3 \times 4.925 \text{ m} = 59.10 \text{ m}$
- b) Truss / Purlin  $\rightarrow 40 \times 40 \times 2.6 \text{ mm} \Rightarrow 4 \times 4.925 \text{ m} = 19.70 \text{ m}$   $78.80 \text{ m}$   
 $(P_1 \text{ to } P_4)$  Purlin  $\rightarrow 4 \times 4.925 \text{ m} = 19.70 \text{ m}$   $78.80 \text{ m}$   
 $(P_1 \text{ to } P_4)$  Purlin  $\rightarrow 4 \times 4.925 \text{ m} = 19.70 \text{ m}$   $78.80 \text{ m}$
- c) Binder =  $25 \times 25 \times 2.6 \text{ mm} \rightarrow 45.278 \times 2 \text{ m} = 90.558 \text{ m}$
- d) Top Binder  $\rightarrow 45.278 \text{ m} \times 1 = 45.278 \text{ m}$   
 $(40 \times 40 \times 2.6 \text{ mm})$
- e)  $25 \times 40 \times 2.6 \text{ mm}$  Flood  $\rightarrow 6.10 \text{ m}$   
 $(40 \times 40 \times 2.6 \text{ mm})$  Top Purlin  $\rightarrow 22 \text{ m} \times 7 \text{ nos} = 154 \text{ m}$

Section at A-A.  
 J. S. J. S.  
 28/02/2022  
 AEV(C)

B-Part

Annexure I

Rate as per DSR 2021

Estimating and costing of Construction of MS Foundation for Dehumidifier Machine for Physics Dept. at BI-04 in IIT Patna

SN	DSR/NDSR	Description of items	Qty	Units	Rate, Rs.	Amount, Rs.
2	10.1	10.25 Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
		10.25.1 In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete kg	285	kg	102.25	29141.25
3	13.53	Painting on MS post and Frame & G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
	13.53.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution sqm	12	sqm	150.2	1802.40
5	NDSR/MR	RCC Anchor fastener 16mm dia. 150 mm long 5.8 grade chemical grouting in all complete.	3	ltrs.	4000	12000.00
6	NDSR/MR	Chemical Anchor dash Fastner 16mm dia. 150 mm long	32	each	350	11200.00
7	NDSR/MR	Chemical Gun and Applicator	1	job	8000	8000.00
8	NDSR/MR	Dumppping rubber pad	2	m2	2500	5000.00
				Total	A	67143.65
				Add cost index 1.9% on DSR items		587.93
				<b>B</b>	<b>G. Total, Rs.</b>	<b>67731.58</b>

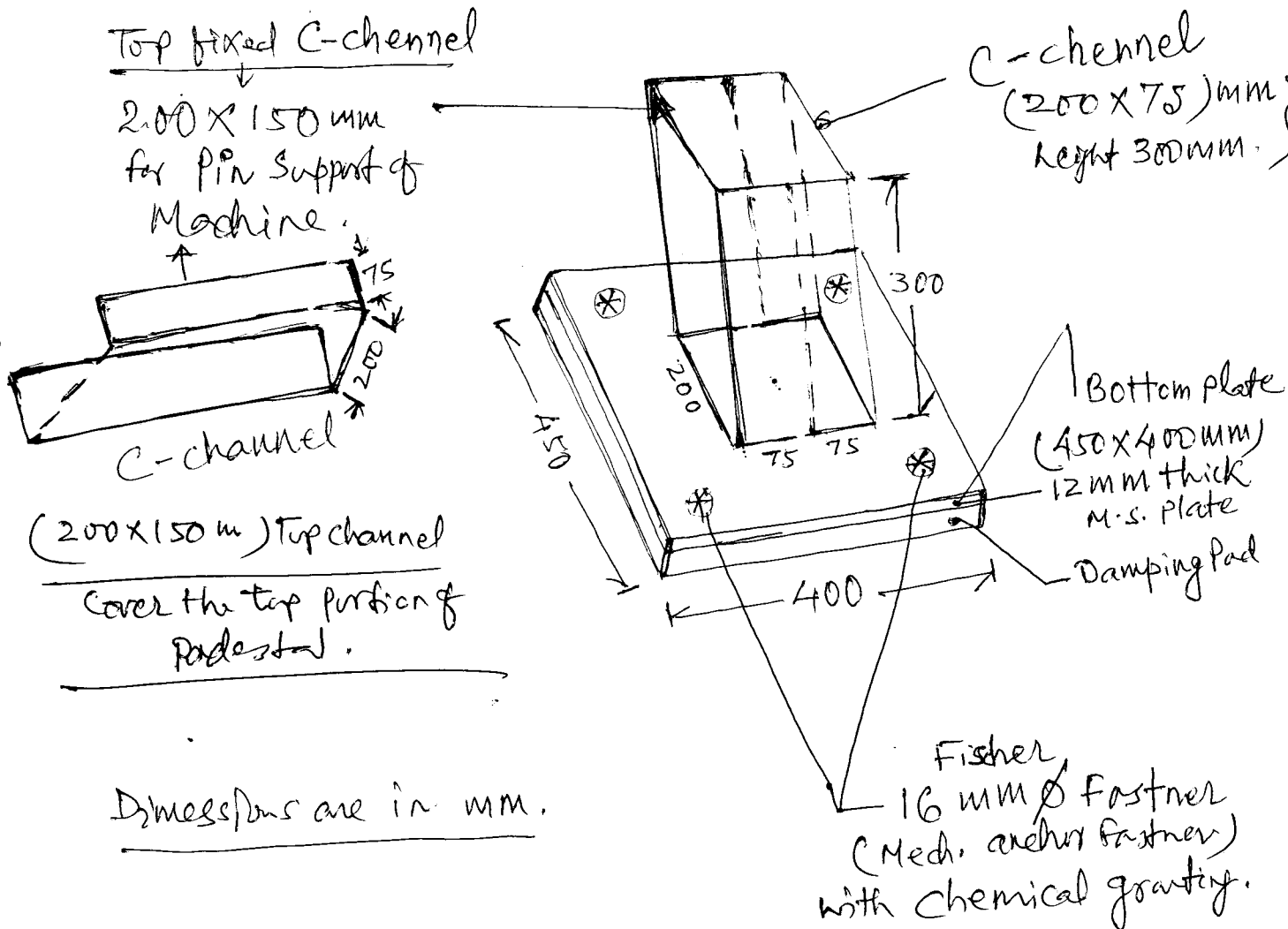
i.e. 67732/- only.

*[Signature]*  
23/11/2021  
AE CIVIL

may 14 12  
EE CIVIL

7

DRAWING OF M.S Frame foundation of dehumidifier  
of physics dept; 2nd Floor open terrace of Bl-04, IIT Patna



Base M.S. Foundation 08 Nos.

*[Signature]*  
18/02/2022  
AEC/A2