

MEGHALAYA ENERGY CORPORATION LIMITED

OFFICE OF THE ADDITIONAL CHIEF ENGINEER MATERIAL MANAGEMENT

LUM JINGSHAI; SHORT ROUND ROAD; SHILLONG-793001 CIN:U40101ML2009GC008374

Phone - 0364-2591930

②ace.mm.meecl@gmail.com



TECHNICAL SPECIFICATION FOR FABRICATION ITEMS

Tender No. ACE(MM)/03/2023

Prepared by the Office of the Additional Chief Engineer (MM), MeECL, Lum Jingshai, Shillong.

MEGHALAYA ENERGY CORPORATION LIMITED



OFFICE OF THE ADDITIONAL CHIEF ENGINEER (EL) MATERIAL MANAGEMENT

LUM JINGSHAI; SHORT ROUND ROAD; SHILLONG-793001 CIN: U40101ML2009SGC008274

1: ace.mm.meecl@gmail.com

Phone - 0364-2591930

General Terms & Conditions

1. Scope:

Notwithstanding the quantity indicated in Price schedule, the scope of work of this tender is to establish the unit rate of fabrication items.

2. **Accepting of Tender:**

- i. MeECL has the right to reject the tender / tenders which do not comply with the tender specifications. Tender / Tenders which comply in all respect to the requirements as stipulated in the tender specification shall be wholly accepted by MeECL.
- ii. Name and Address of the tenderer should be indicated in a distinct manner.
- iii. All the pages of the down loaded documents to be submitted to this office should be signed by the tenderer with date signifying acceptance of the relevant terms & conditions.
- iv. The equipment shall conform in all respect to the relevant IS codes (where applicable) except where otherwise mentioned in the technical specification as enclosed. The tenderer shall assume full responsibility for adequate design and shall ensure that procedures/ techniques conforming to the best modern engineering practices for the operating condition specified are used by the manufacturer.
- **Delivery**: Delivery shall be strictly within the time to be specified in the purchase v. order. Delivery refers to delivery at destination including unloading and placement on plinth unless otherwise stated.
- vi. MeECL reserves the right to accept/ reject any/ all tenders without assigning any reason thereof and is not bound to accept the lowest rate.
- Bid validity of the rate offered should be for a minimum of 2 years with effect from the vii. date of opening of tender.
- viii. L-1 Bidder will be expected to be able to supply the items when ordered at their quoted rates, failing which they may be penalized.
- ix. Tenderer shall note that the MeECL is not bound to place the purchase order with the firm quoting the lowest rates but reserves the right to split the order without assigning

any reasons thereof to place the order partially or wholly on one or a number of suppliers. The offer of these items shall be on individual merit for bid evaluation purposes.

- **x**. Sample of items will have to be furnished when deemed necessary during the tendering process.
- xi. The bid shall be submitted in 1 (one) sealed envelope containing 3(three) separate sealed envelopes properly super scribed as follows:-

3. (i) Envelop -I:

Tender Fee:

- i. Tender fee in a form of Demand Draft/ Banker's cheque pledged in favour of "the Principal Account of MeECL, Shillong". The cost of the tender downloaded from MeECL website shall be INR 2000.00 (Rupees two thousand) only (inclusive of GST).
- ii. Tender without tender fee as indicated at (i) above shall be summarily rejected.

4. (ii) Envelop-II

Qualification of Bidder.

Tenderer shall submit the following documents failing which the bids shall be considered as non responsive.

- i. The Local Bidders has to produce the Schedule Tribe Certificate and Electoral Photo Identity Card (EPIC) issued by the Election Commission to establish his/ her Indigenous identity along with GST Registration and PAN Card. This however does not apply to the Bidders already registered with MeECL.
- ii. In case of Non-Tribal, the Bidder has to produce the Trading License issued by any of the District Councils (viz. KHADC, JHADC & GHADC) of the State of Meghalaya. However, the Residential Certificate, the Electoral Photo Identity Card (EPIC) to establish the identity as the Indian Citizen along with GST Registration and PAN Card & other relevant documents are also to be submitted. This however does not apply to the Bidders already registered with MeECL.
- **iii.** The Bidder/ Tenderer should have had experience as per the Scope of this Tender for a minimum of 5(five) accounting year, ie, 17-18, 18-19, 19-20, 20-21, 21-22. Copy of the purchase order should be submitted along with the Bid.
- iv. Minimum average annual turnover (MAAT): The average annual turnover of the Bidder for the last 5(five) years should not be less than **Rs 19.22 lakhs**. Certified copy of the same should be submitted with the Bid.

5. (i) Envelop-III

Offered Bid: Break-up of Tender rate. The tender rates shall be furnished in detailed break-up viz. Ex-work, FOR Destination, Taxes, Freight and Insurance, etc. up to Shillong, Sumer. Rates are to be invariable quoted in the Schedule Format as Price Schedule.

6. Submission of Tender:

i. The Envelop I, II, III, stated above can be submitted in One Big Envelop properly sealed and should be addressed to: The Additional Chief Engineer (MM),MeECL, Lumjingshai, Shillong.

7. Date of Submission of Tender:

i. The last date of submission of tender shall be 29/05/2023(14:00 hrs)

8. Opening of Tender:

i. The opening of Tender shall be in presence of the Bidder/ Bidders or their authorized representative. The opening of Tender shall be on the 29th May 2023 at 15:00 hrs. The venue of the Tender opening shall be in the office chamber of the Additional Chief Engineer(MM), MeECL, Lumjingshai, Shillong. At the time of opening of Bid, only the envelop (i) Tender fee will be opened. Bidders are requested to note the same.

9. Address of Communication:

i. The Additional Chief Engineer (MM), MeECL, Lumjingshai, Shillong.

Additional Chief Engineer(MM) MeECL, Shillong.

FABRICATION ITEMS

PRICE SCHEDULE – A

SI No	ITEMS	UNIT	Total Qty.	Unit Ex- Works (Price in Rs)	Total Ex- Work (Price in Rs)	Unit (F&I in Rs)	Total (F&I in Rs)	GST	Total
1	Channel Cross Arms								
a)	125 * 65 * 5.8 * 3050 mm	Each	118						
b)	100 * 50 * 5 * 3050 mm	Each	262						
c)	100 * 50 * 6 * 3100 mm	Each	105						
d)	100 * 50 * 6 * 2800 mm	Each	166						
e)	100 * 50 * 6 * 2280 mm	Each	108						
f)	100 * 50 * 6 * 1570 mm	Each	56						
g)	75 * 40 * 4.8 * 2800 mm	Each	84						
h)	75 * 40 * 4.8 * 2280 mm	Each	631						
i)	75 * 40 * 4.8 * 1200 mm	Each	1						
j)	75 * 40 * 4.8 * 1150 mm	Each	1						
k)	75 * 40 * 4.8 * 1100 mm	Each	70						
2	Angle Cross Arms								
a)	50 * 50 * 6 * 2800 mm	Each	1						
b)	50 * 50 * 6 * 1370 mm	Each	222						
c)	50 * 50 * 6 * 560mm	Each	1						
d)	50 * 50 * 6 * 610 mm	Each	432						
e)	45 * 45 * 6 * 1100 mm	Each	1						
f)	50 * 50 * 6 * 650 mm	Each	172						
g)	45 * 45 * 6 * 610 mm	Each	476						
h)	45 * 45 * 6 * 460 mm	Each	175						
i)	35 * 35 * 6 * 460 mm	Each	56						
j)	35 * 35 * 6 * 620 mm	Each	1						
k)	35 * 35 * 6 * 1100 mm	Each	1						
l)	35 * 35 * 6 * 510 mm	Each	174						
3	Y Cross Arms								
a)	33KV 65 * 65 * 6 mm	Each	111						
b)	11KV 50 * 50 * 6 mm	Each	196						
4	Bracing Set								
a)	Single tier (Z - Type								
	(i) 33KV 50 * 50 * 6 mm	Set	113						
	(ii)11KV 50 * 50 * 6 mm	Set	59						
b)	Double tier								
	(i)33KV 50 * 50 * 6 mm	Set	1						
	(ii)11KV 50 * 50 * 6 mm	Set	11						
5	Steel Pole Clamp(Ms Flat 50*5 mm)								
a)	7.5 MT (T)	No	832						
b)	8 mt	1.5							

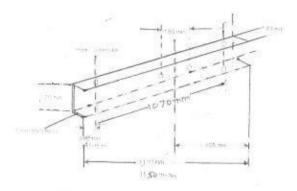
(i) Top Each 732 (ii) (Middle Each 367 (iii) Bottom Each 233 c) 9.5/12.0NDMT (i) Top Each 793	
(iii) Bottom Each 233 c) 9.5/12.0NDMT (i) Top Each 793	
c) 9.5/12.0NDMT (i) Top Each 793	
(i) Top Each 793	
```	
(ii) (Middle Each 299	
(iii) Bottom Each 110	
d) 12.0(HD)/14.5 mt	
(i) Top Each 188	
(ii) (Middle Each 1	
(iii) Bottom Each 98	
6 Stay Clamp(Ms Flat 50*5 mm)	
a) 12.0 H/D / 14.5 Mt Pair 1	
b) 12.0 N/D / 9.5 Mt Pair 103	
c) 8.0 Mt. Pair 253	
d) 7.5 Mt Pair 259	
7 Cradle guard cross arm for DP Structure	
a) 33 KV (65 * 65 * 6*4320 mm) Each 1	
b) 11KV (65 * 65 * 6*3800) mm Each 1	
8 Cradle guard cross arm for	
a) LT Line Each 1	
b) Single Pole 11KV line Each 1	
9 Service Clamp (25 * 5 mm MS Flat	
a) 25 mm dia Each 1	
b) 40 mm dia Each 1	
c) 50 mm dia Each 1	
10 Fencing Post made by Ms angle:	
a) Intermediate Post 50 * 50 * 6 3060 mm Each 10	
b) Corner Post (65 * 65 * 6 * 3060 mm Each 40	
c) End Post (65 * 65 * 6 * 3060 mm Each 1	
d) Stay Post 50 * 50 * 6 * 1900 mm Each 1	
11 Jam clamp (50 * 5 Ms Flat & 50 * 50 * 6 Ms angle)	
a) 8.0 Mt. (Top Set 355	
b) 8.0 Mt. (Middl/9.5 & 12 ND (Top) Set 178	
c) 8.0 Mt. (Bottom/9.5 Mt. & 12 Mt Middle Set 183	
d) 9.5 Mt & 12 ND (Bottom )/ 12 HD (Top) Set 675	
e) 12 Mt H/D & 14.5 Mt (Middle) Set 1	
f) 12 HD/ 14.5 (Bottom) Set 1	
12 Street light bracket clamp (50 * 5 mm MS)	
a) 7.5 Mt (Top) Pair 1	
b) 7.5 (Middle/ 8 Mt (Top) Pair 1	
c) 8 Mt (Middle)/ 9.5 Mt & 12 Mt. ND (Top) Pair 1	
d) 9.5 Mt/12 Mt ND (Middle) Pair 1	

e)	12 Mt.HD/14.5 (Top)	Pair	1			
f)	12 Mt HD/ 14.5 Mt (Middle)	Pair	1			
13	Street light bracket made by GI Pipe		· ·			
a)	25 mm dia	Pair	1			
b)	40 mm dia	Pair	1			
c)	Highway	Pair	1			
14	11 KV Inverted 'V' Type Cross Arm	Each	1			
15	Lightning spike					
a)	11 KV ( Ms angle 50*50*6 &12 mm dia MS rod)	Each	55			
b)	33 KV (Ms angle 65 * 65 * 6 mm & 16 mm dia Ms rod)	Each	130			
16	HT Top Bracket MS Channel:					
a)	75 * 40 *4.8 * 310 mm for 12 HD	Each	12			
b)	75 * 40 *4.8 * 300 mm for 12 ND	Each	478			
c)	75 * 40 *4.8 * 250 mm for 8.0 Mt.	Each	24			
d)	LT Top bracket MS angle 50 * 50 * 6 * 290 mm	Each	1			
17	MS Channel :					
a)	125 * 65 * 6 mm	Kg	1			
b)	100 * 50 * 6 mm	Kg	1			
c)	75 * 40 4.8 mm	Kg	1			
18	MS Angle :					
a)	65 * 65 * 6 mm	Kg	1			
b)	50 * 50 * 6 mm	Kg	1			
c)	45 * 45 * 6 mm	Kg	1			
d)	40 * 40 * 6 mm	Kg	1			
e)	35 * 35 * 6 mm	Kg	1			
19	MS Flat :					
a)	50 * 5 mm	Kg	1			
b)	45 * 5 mm	Kg	1			
c)	40 * 5 mm	Kg	1			
20	GI Flat :					
a)	50 * 5 mm	Kg	1			
b)	45 * 5 mm	Kg	1			
c)	40 * 5 mm	Kg	1			
d)	30 * 5 mm	Kg	1			
e)	20 * 5 mm	Kg	1			

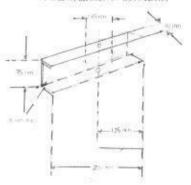
Name and Signature of Bidder

As the wife State

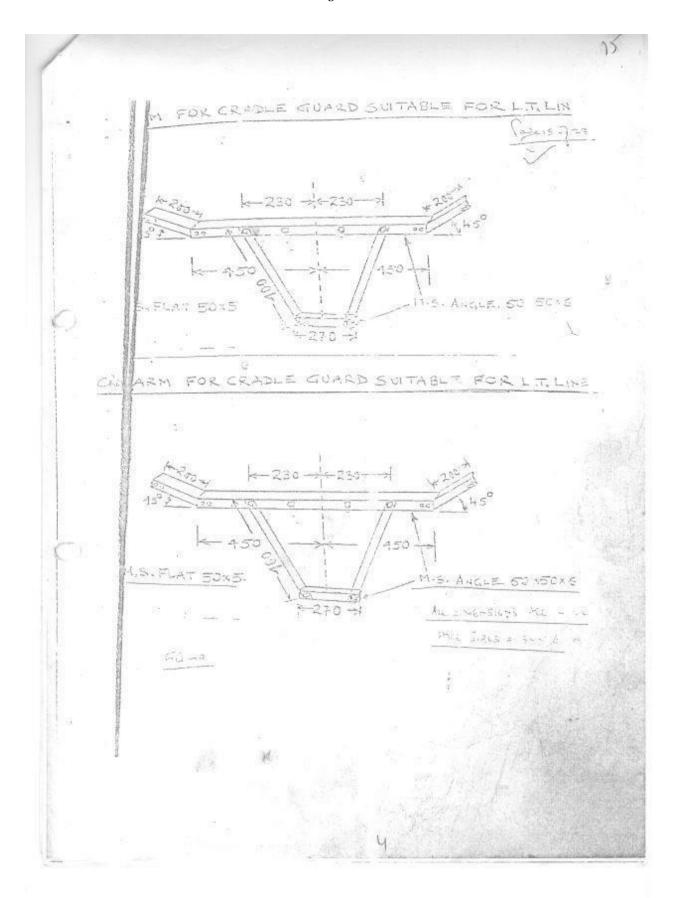
## CHANNEL CROSS ARM 75 × 40 × × 11 10 mm

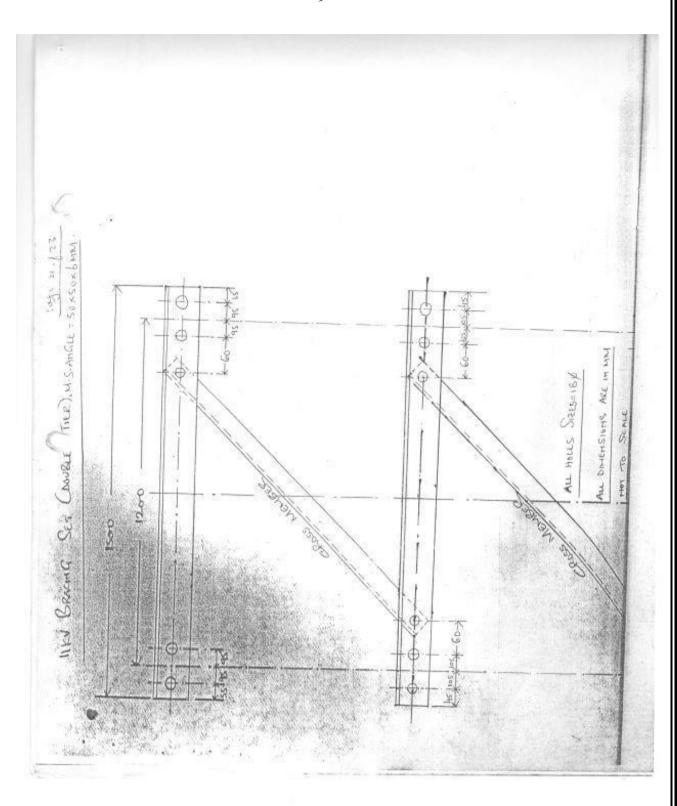


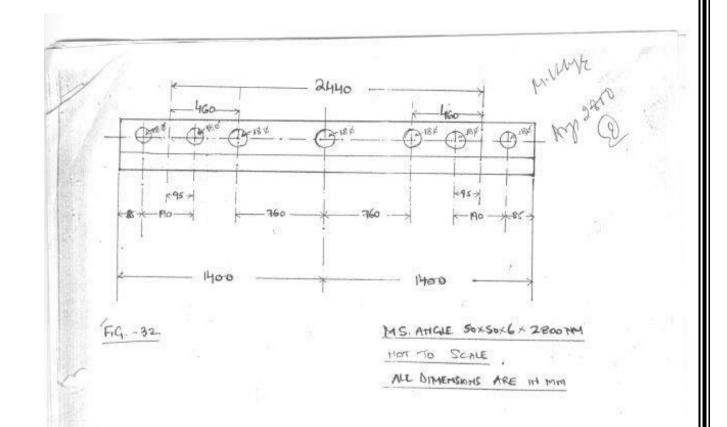
#### 4.5 CHANNEL TOPBRACKET 75 X 40 X 7 X 250 M M I



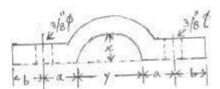
a. let-e-1







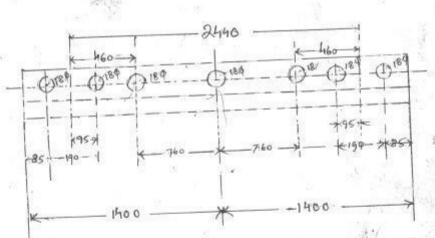
SERVICE WALL CLAMP



Fi G.31

MS FLAT 25X5 MM

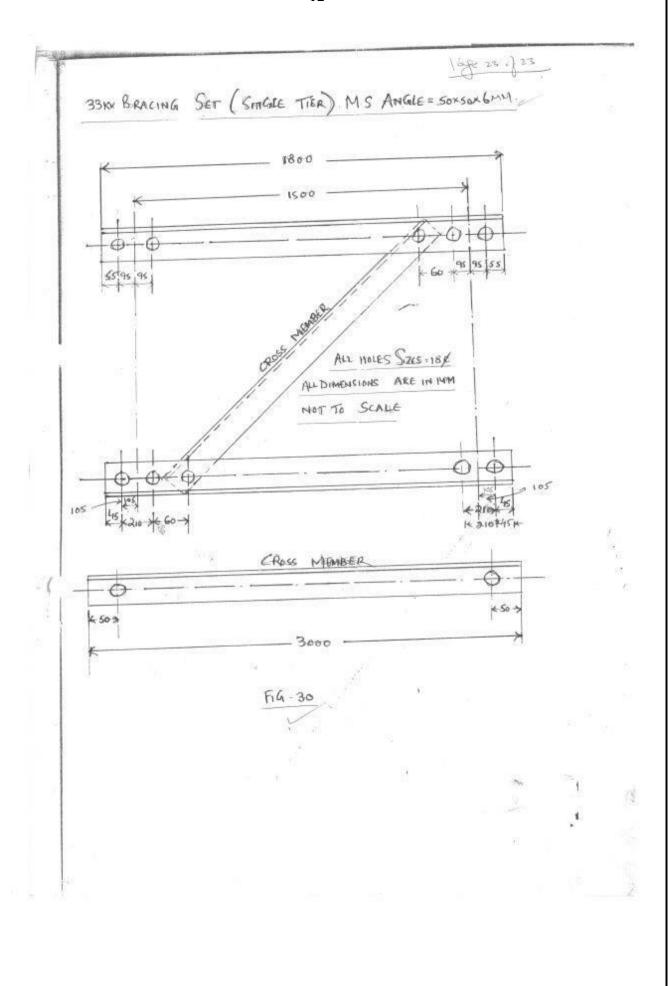
Size of Got Pipe	(mm mm)	(m mm)	(in min)	(M MM)
25 mm	10	25	30	25
Lio mm	25	40	30	25
SOMM	35	50	30	25
Joines	\$ =			

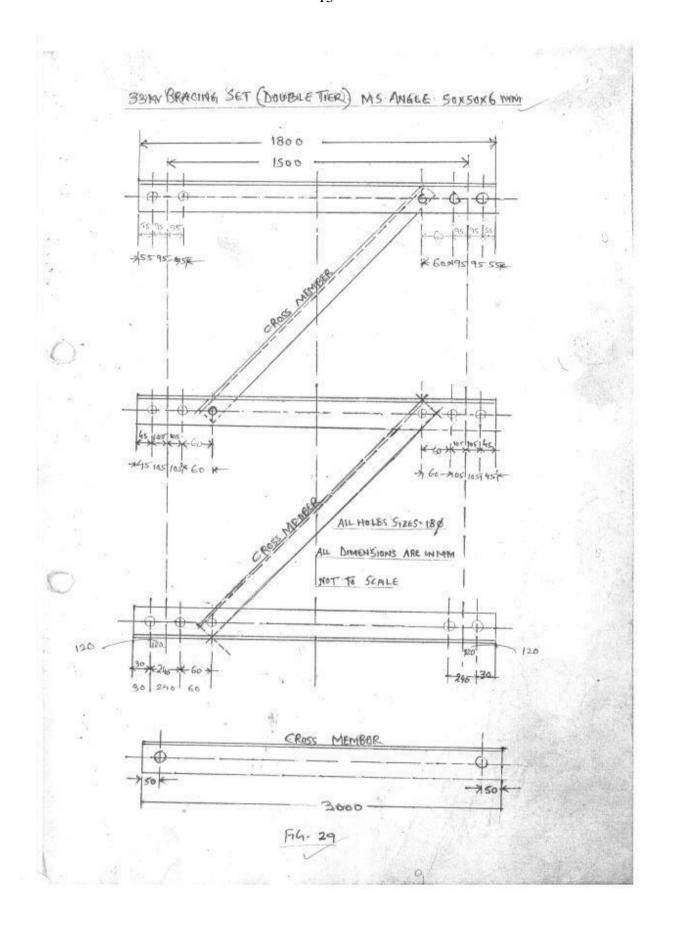


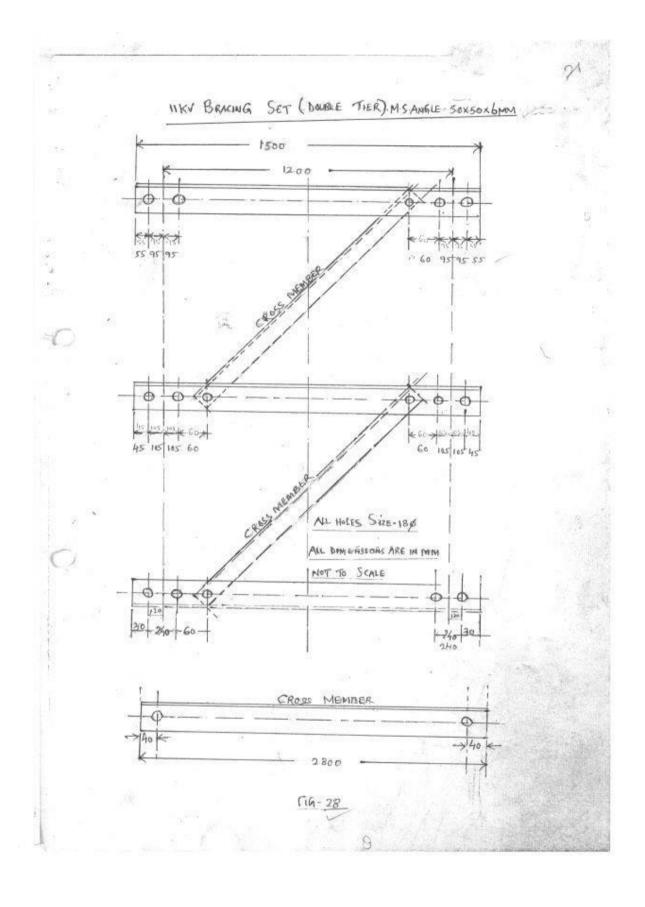
F16-32

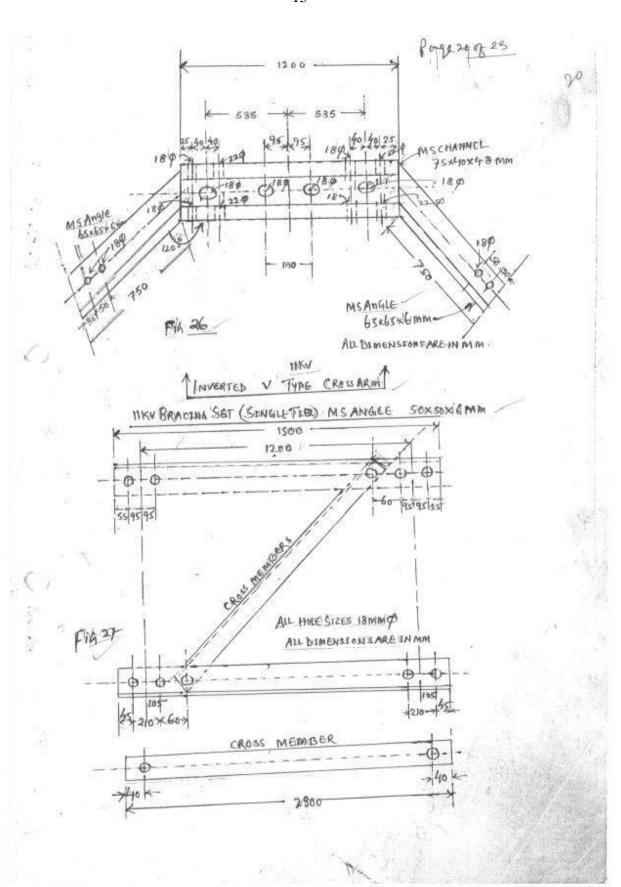
MS ANGLE SOXSOX 6 x 2800 MM NOT TO SCALE ALL DIMENSIONS ARE IN MM.

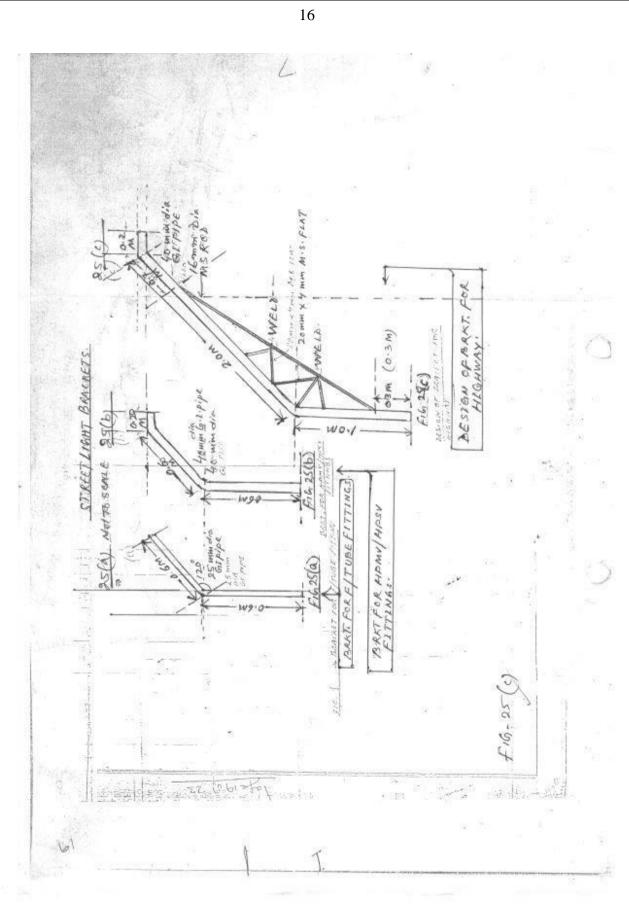
10

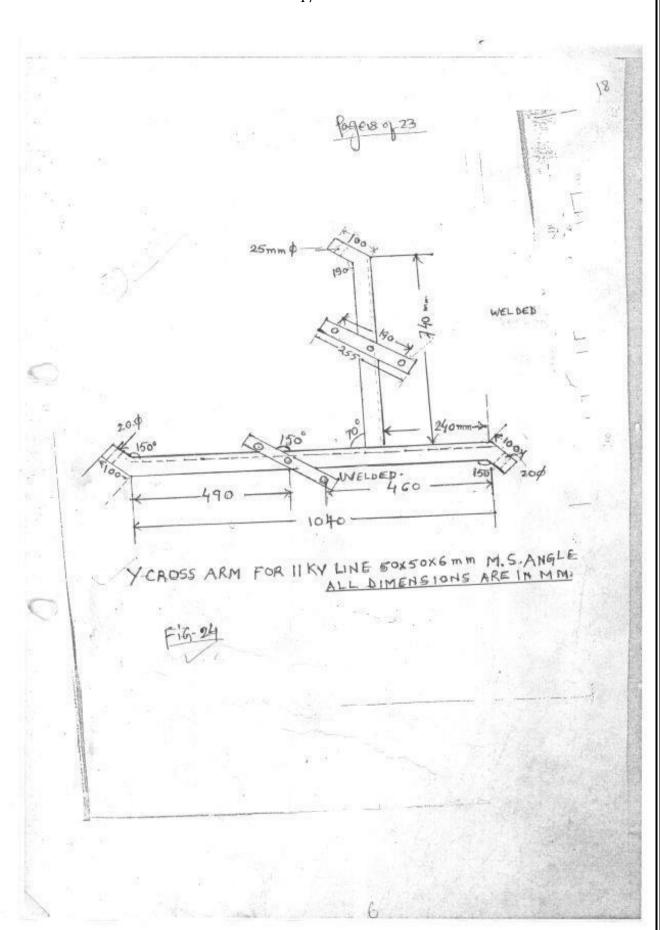


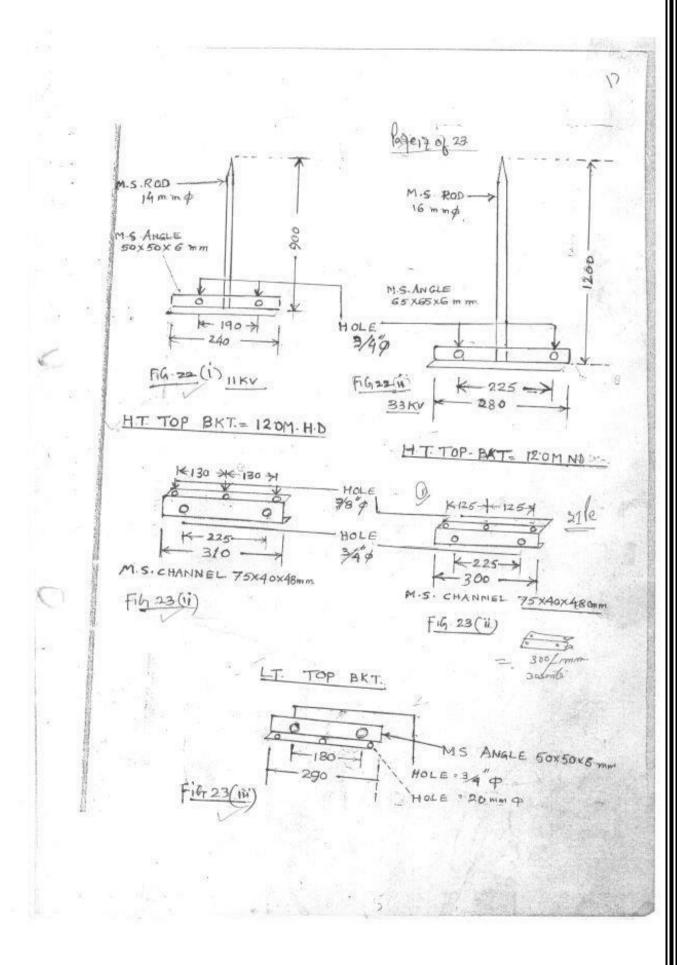


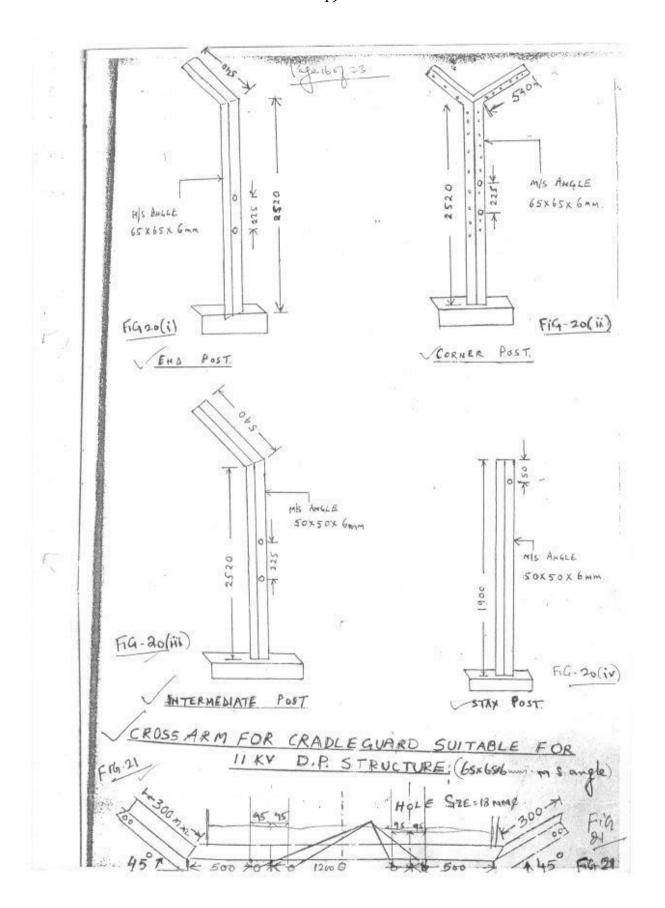


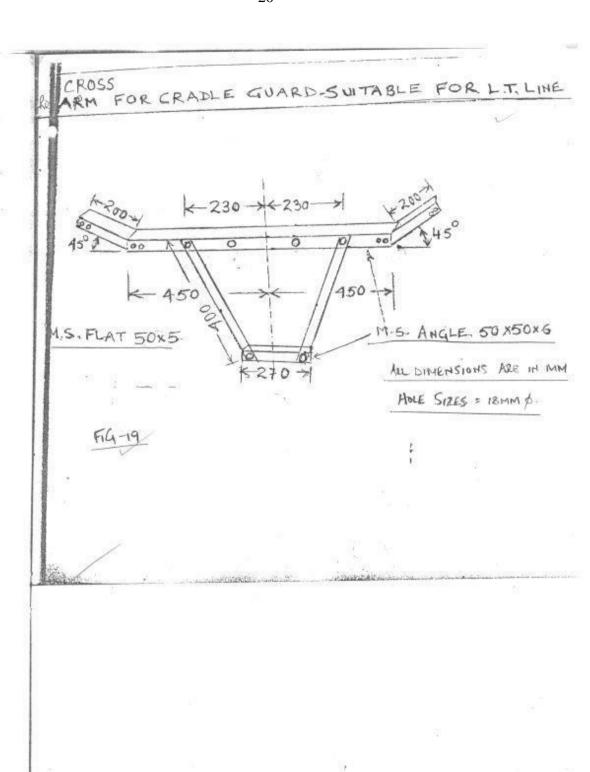


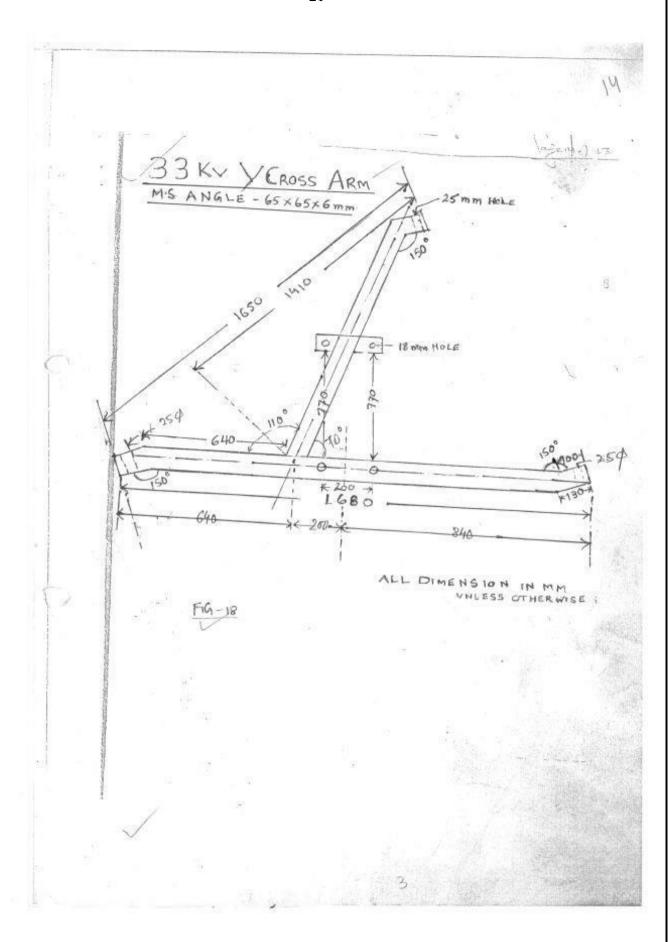


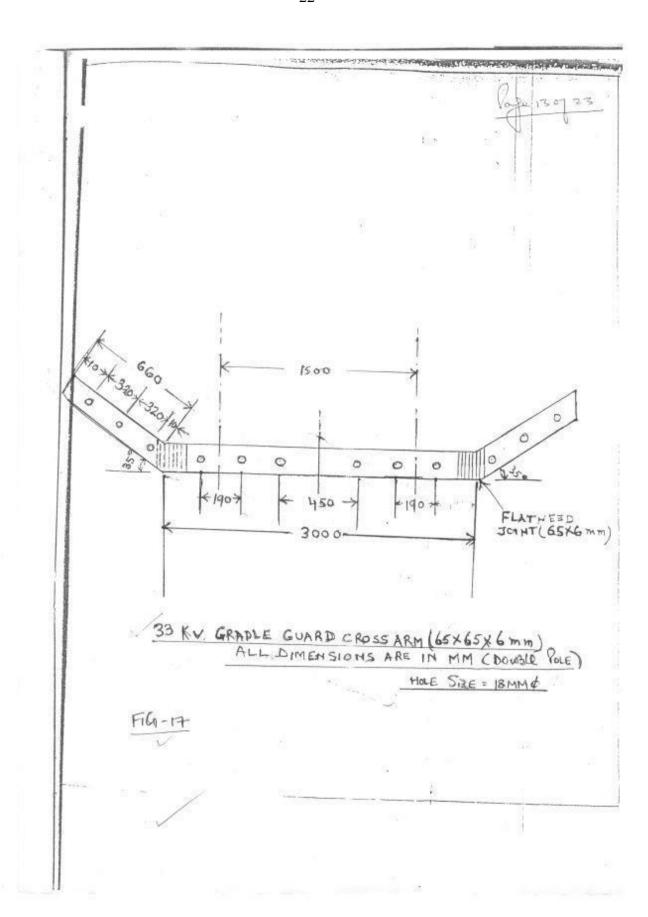


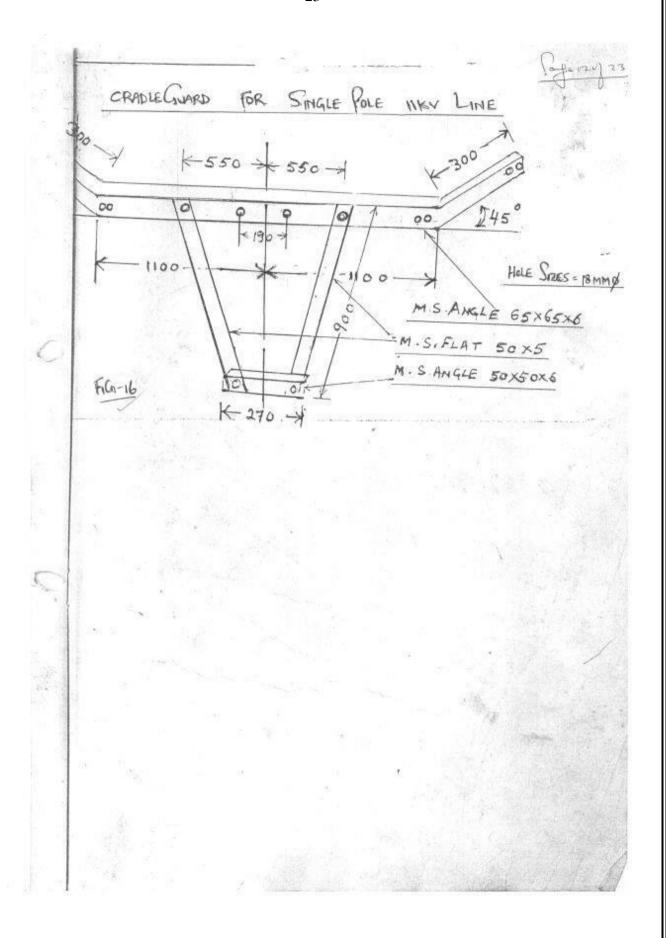












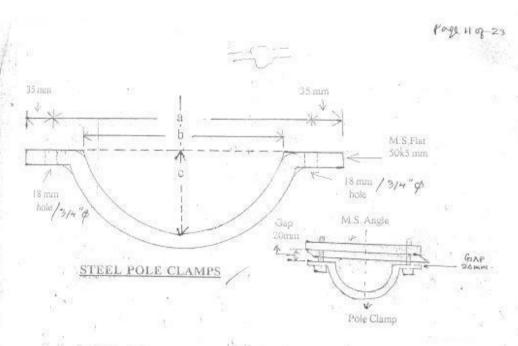
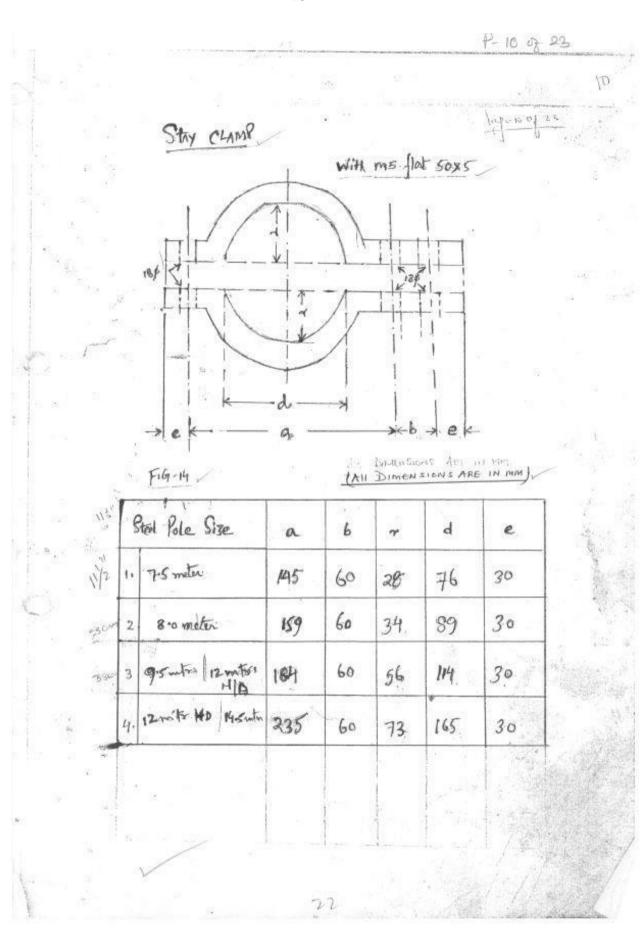
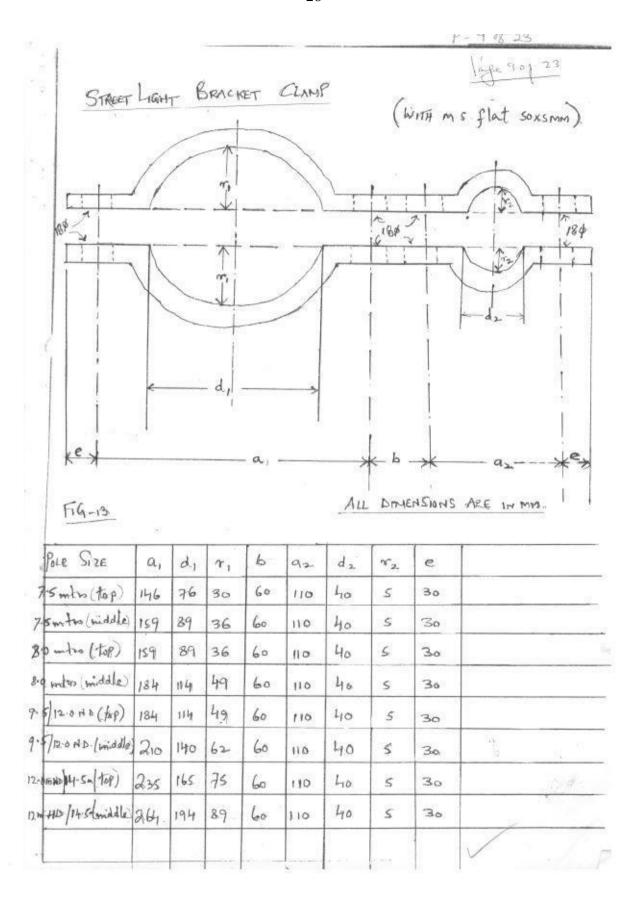
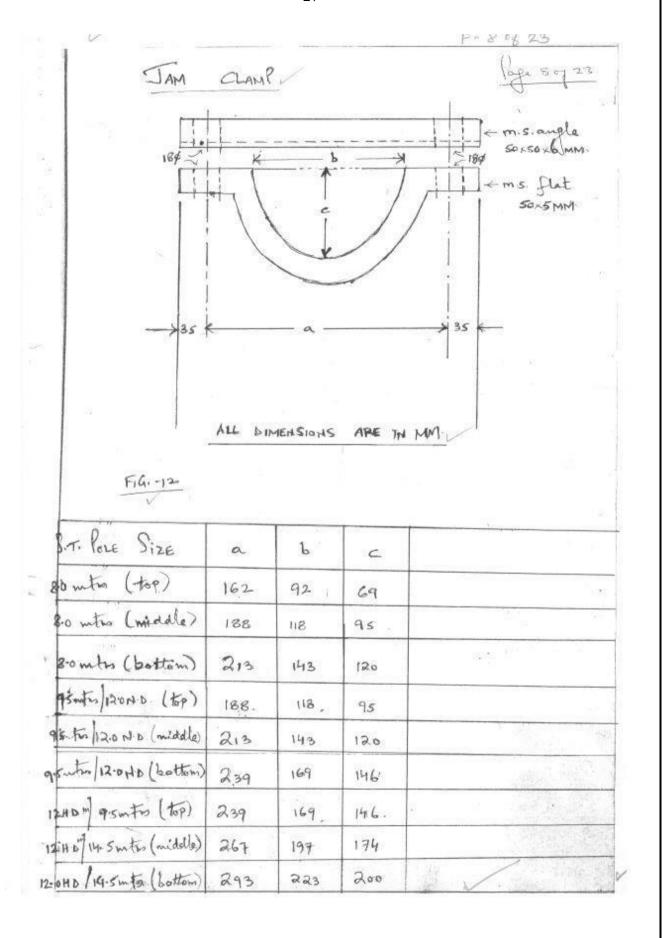


Fig- 15

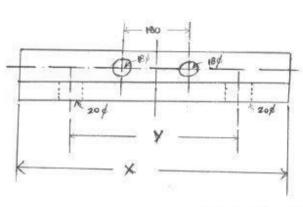
SI. No.	Steel Pole Clamp Size	a (mm)	b (mm)	c (mm)
edia em			-	-e-Brand
1	7.5 mts. (Top) .	180	80	57
2	8.0 mts. (Top)	190,	92	69
	8.0 mts. (Middle)	210	113_	95
	d 9 mts. (Bottom)	240	14.2	120
3	9.5 mts./12 mts/N/D (Top)	225	118	4 95
7 , 17	ado - (Middle)	210	142	1120
0.147	- 40 - (Battom)	240	169	1,148
4	12 mts/14 mts/HD (Top)	225 🗸	169	146
10	- do - (Middle)	264	197	174
	-do - (Bottam)	200	223	200







Pe 707 28

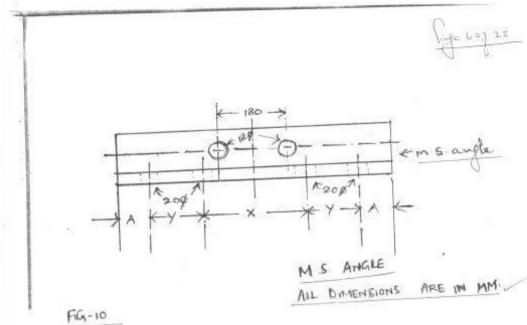


MS ANGLE

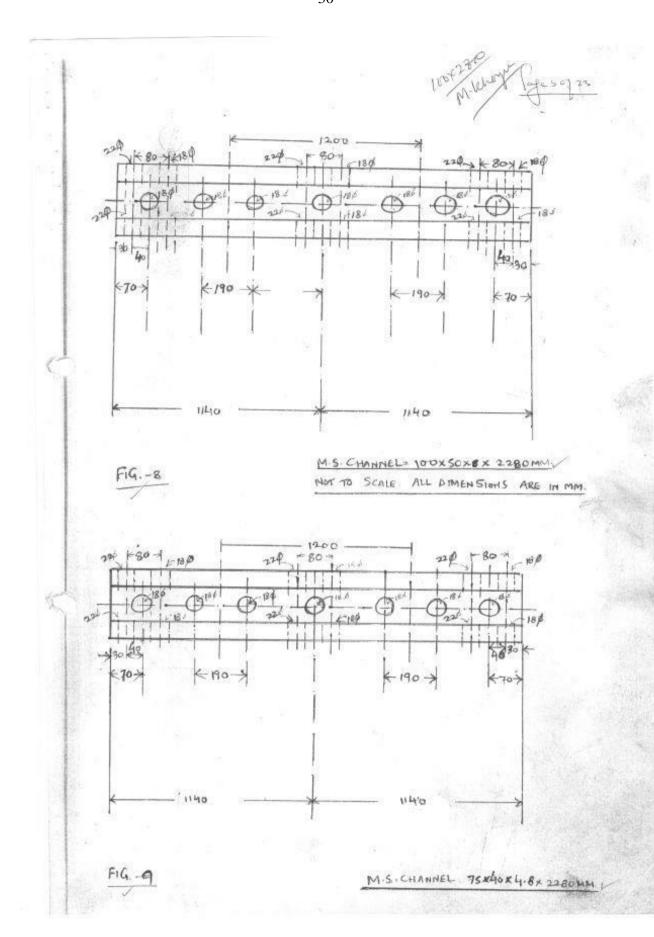
Fig.-11

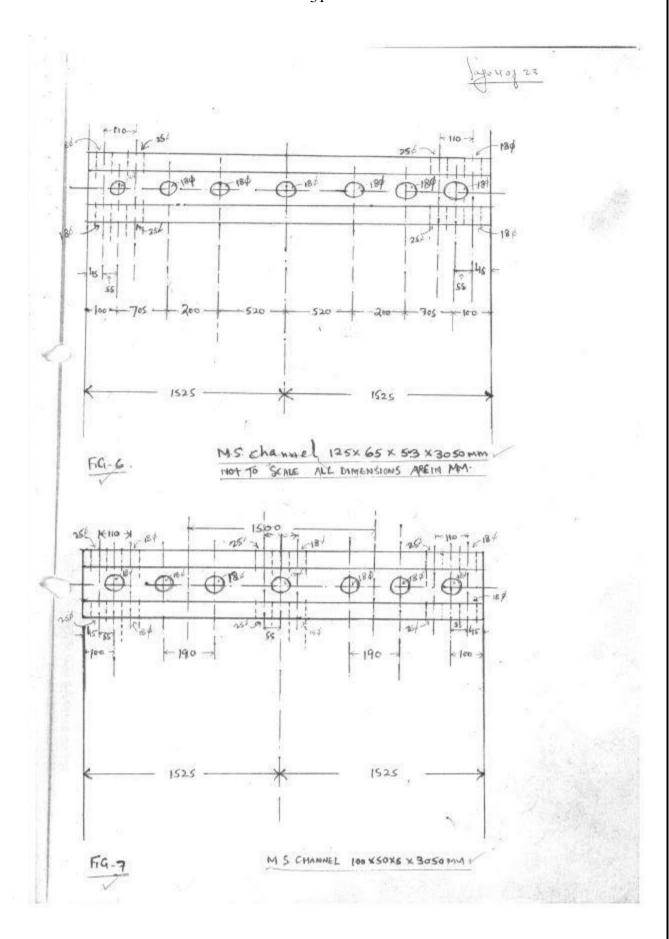
ALL DIMENSIONS ARE IN MIM

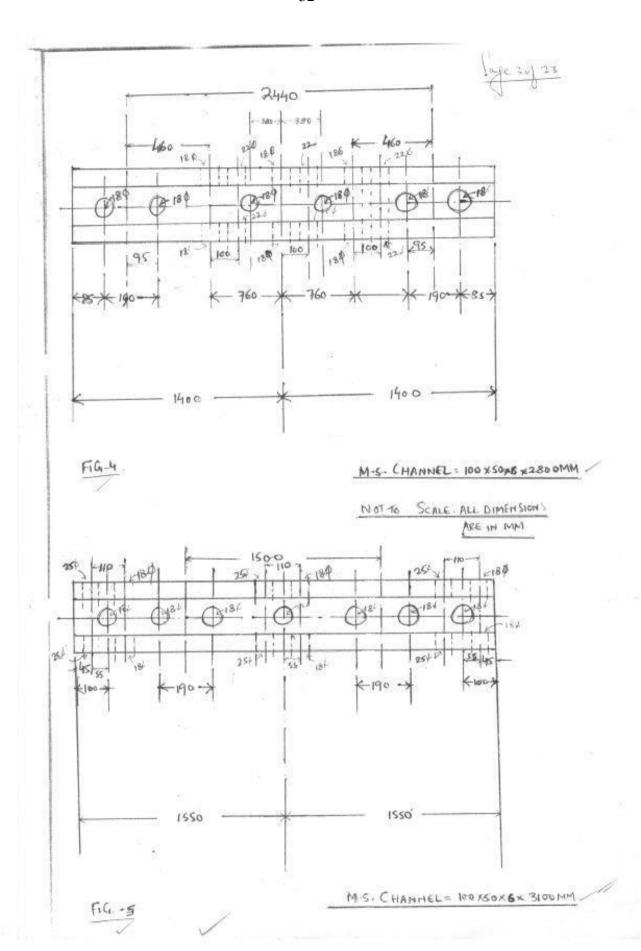
ME ANGLE SIZE	×	Y	
1. 50 x50x 6 -650	6so	\$90	
2. 45×45×6 -460	460	400	
3. 35x35 x5 - 510	510	4 _{So}	
4. 45×45×6 - 610	610	S \$0	

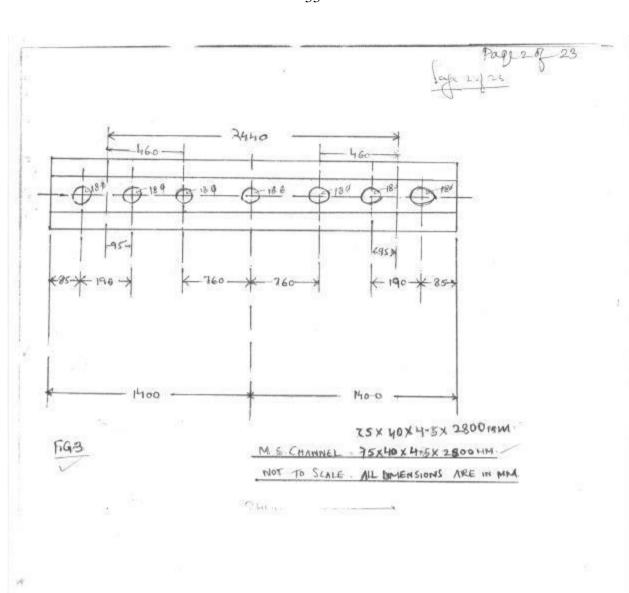


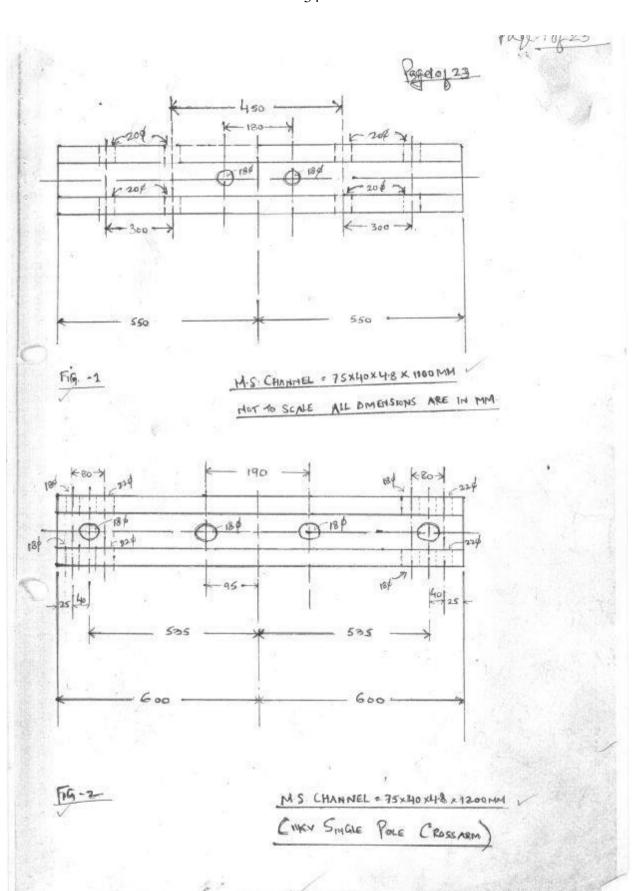
MS. ANGLE SIZE	×	Y	Α	
1. soxsox 6 - 1370	460	430	25	
2. 45×45×6 -1110	450	300	30	26



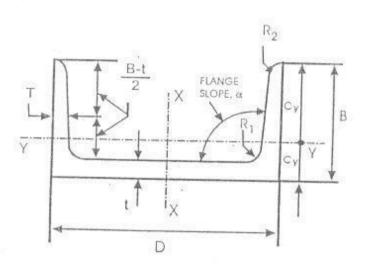








# ANNEXURE - I

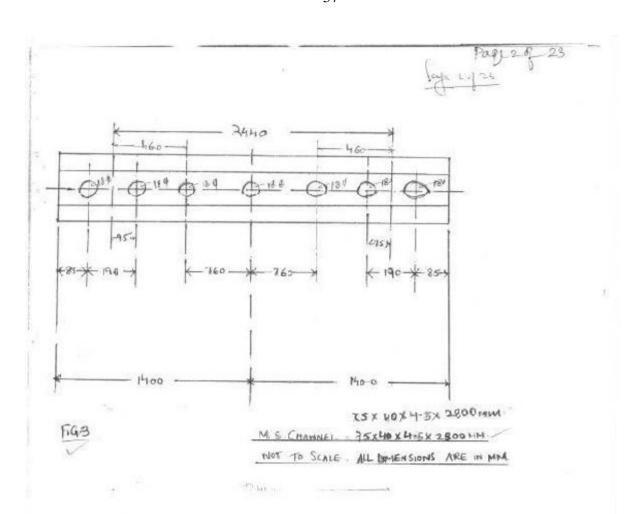




Designation		Sectional Area, a	-			Dimensio	200				610-11	Section	nal Prop	erties		
	THE COUNT	Arrest a	D	В	L	T	Flange Slope, or	К,	R,	С,	Į.	1,	r.	14	$Z_{i}$	Z,
(1)	kg/m (2)	cm ² (3)	mm (4)	mm (5)	mm (6)	лын (7)	deg (8)	mm (9)	mm (101)	mm (11)	cm* (12)	cm*	cm	c m	cm3	em²
Medium Heig	ht Chan	nels				2056	1923	6.5	3.5530	18.57	(12)	(13)	(14)	(15)	(16)	(17)
MC 73	7,14	9.10	7.5	4.0	4,8	7.5	96	8.5	2,4	1,32	78.5	12,0	2-94	1,19	20,9	4-81
MC 100	9,56	12.2	100	50	5.0	7.7	96	9.0	2.4	1,54	192	26.7			-	
MC 125	13-1	16.7	125	65	5.3							2004	3.97	1,48	33.5	7,71
Bank or				43	26.3	8,2	96	9.5	2.4	1.95	425	61.1	505	1,91	68-1	13.4

nonungisaci	Mass	Mass Sectional	-	PHILEUSIONS	SHK		-		0.0000000000000000000000000000000000000		Section	Sectional Judgettes	HO.						
	24	Vica' o	N-18		æ	R	Ç.	n			(Max)	L(Min)		7	(Max)	(IRM)	N	Z,	
000000	W W	CINI	1010 - 0101	101101	11111	1111	CIII	CIII	CHI,	CEH.	CIII.	SH.	0113		CIII	E 13	CIN.	CHE	
(1)	(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	18.	(19)	
2 20 20 - 3	0.9		20 - 20	3.0	4 0	-	0.59	0.59	0.4	= 44	0.6	0.2	0.58	0.58	0.73	0.37	0.4	0.3	
	-	1.40		a C			0.6,5	0.63	0.0	0.5	N.10	0.2	0.58	0.58	0.72	0.17	9.4	0.4	
/ 25 25 - 3		1.41	25 - 25	3.0	۵ د		00	0.71	- 0	- C	- 2	0.3	0.73	0.73	0.93	0.47	0.4	2 2	
3	1.8	2.25		5.0			0.79	0.79	-	1.2	× :	0.5	0.72	0 72	16.0	0.47	0.7	0.7	
2 30 30 - 3		173	30 - 30	3.0	5.0	_	0.83	0.83		-	, 22	0.6	0.89	0.89	1.5	0.57	0.6	0.0	
N	2.2	14.1		5.0			0.92	0.92	No. 1	7 -	11 ×	0.0	0.88	0.88	-:	0.57	- 0	- 0	
£ 35 35 · 3	1.6	14	35 - 35	3.0	5.0	- 1.7	0.95	0.95	2.3	2.7	3.6	0.9	1.05	1.05	1.13	0.67	0.9	9	
*	2	10		4.0		-	1,00	1,00	2.0	2 0	4.7	1.2	1.05	50.1	1.32	0:67	1.7	1.2	
	3.0	3 27		5.0		ыле	- UA	1.04	- U	- U	5.6	 - v	1 02	3,0	1 31	100	4.6	4 2	
2 40 40 - 3	-	4	40 - 40	1 ()	,A	sq	1 08	G S	1 20	ar de	A.	-	1 71	2)	-	0.77	3		
	2.4	Land.		4.0		ily	1.12	1.12	4.5	4.5	7.1	50	1.71	1.71	1.53	0.77	9	0	
	10	3 78		50		onai	91.1	16	1.5	n un a a	8 6	2.2	1.20	1.20	51	0.77	7 - q	- 0	
t > 57 57	-	9	15	2 0	5.5	reas	1 70	30	'n.	5	N 0	9 0	128	×	7.7	0 8 7	- 1	- :	
	27	-		4.0		×	1.25	-25	6.5	6.5	10.4	2.6	1.37	1 37	1.73	0.87	2.4	20	
4 4	ا در د	4.28		5.0		1 1	1.29	1.29	7.9	7 9	12.6	3.2	1.36	1.36	1.72	0.87	14	12	
. 6	4.0	5 07		6.0		ulc	1,13	1 33	9.2	0.7	14.6	N	1.35	5.5.1	1.70	0.87	24	2.4	
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