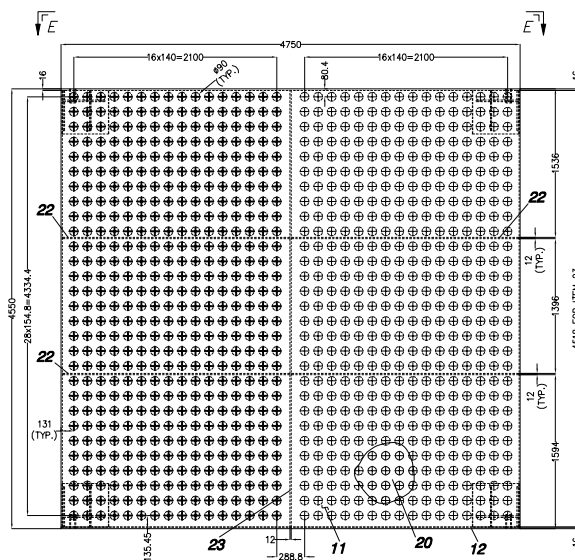
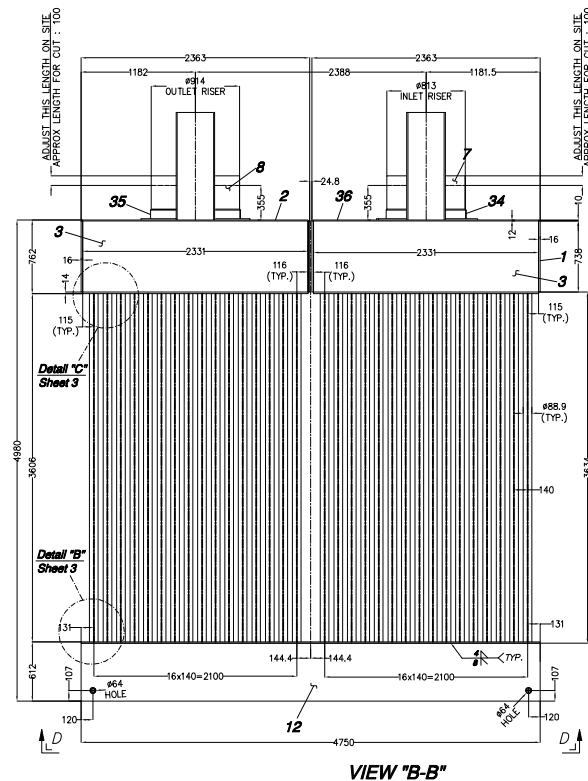
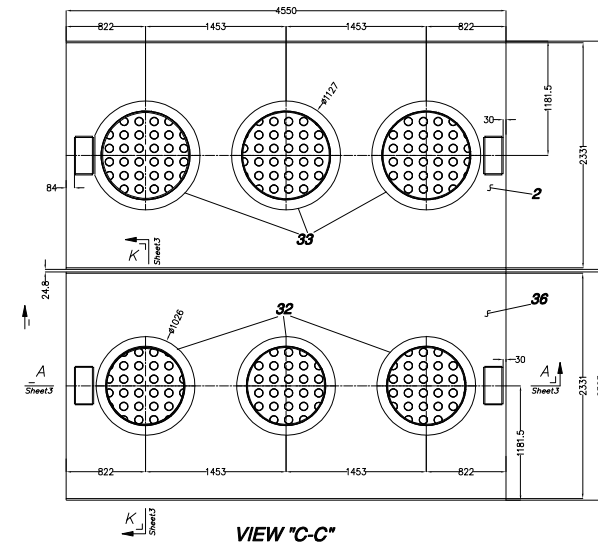
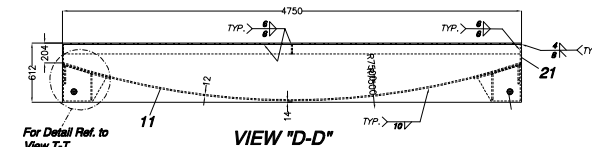
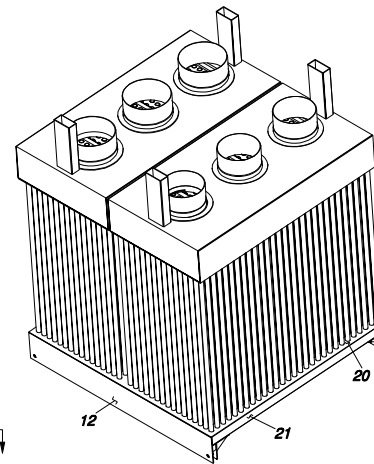


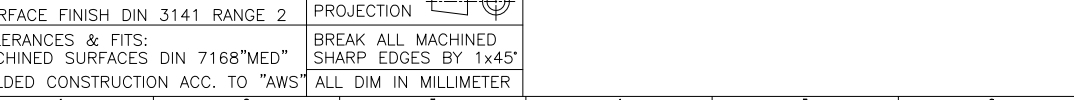
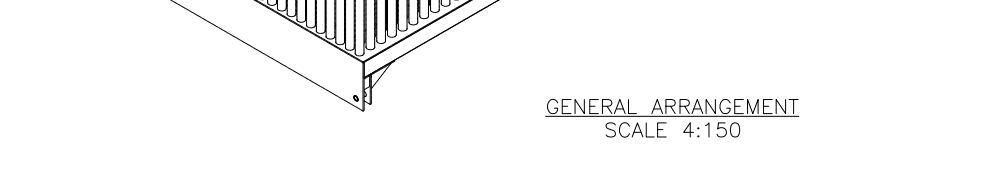
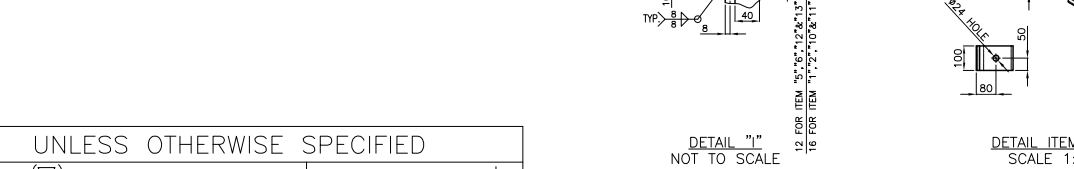
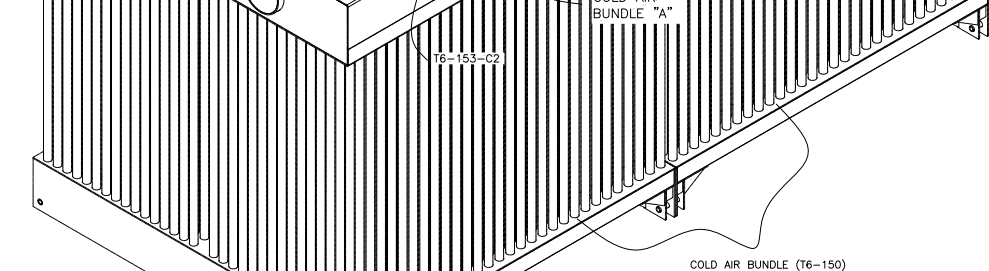
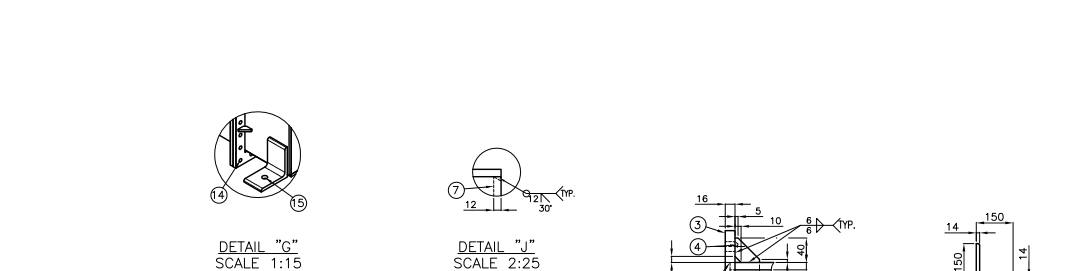
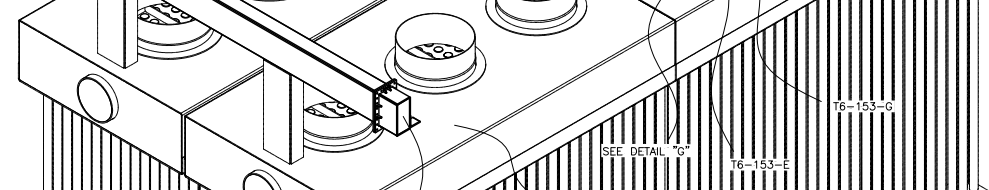
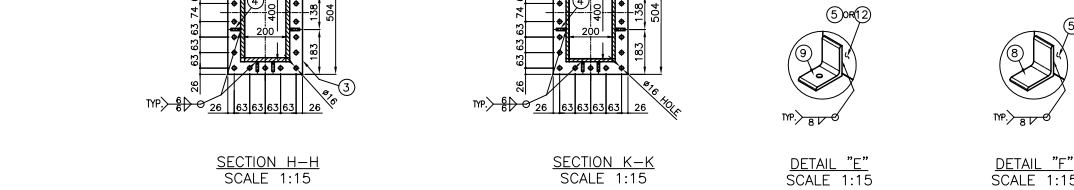
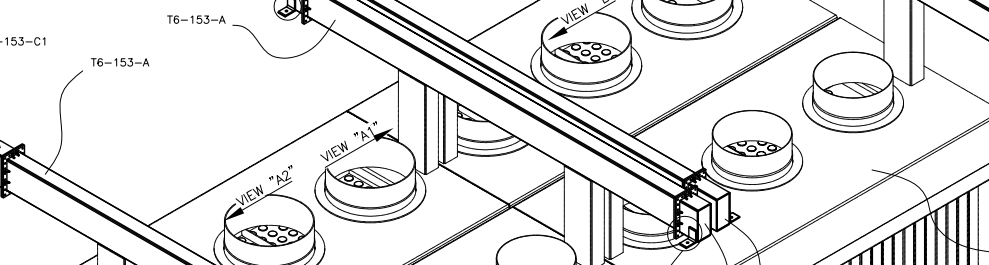
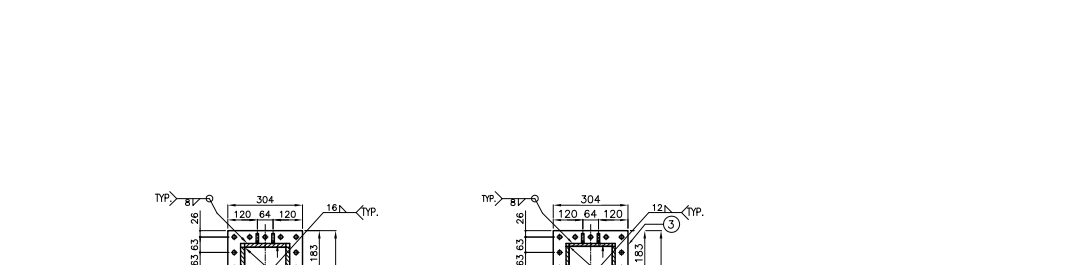
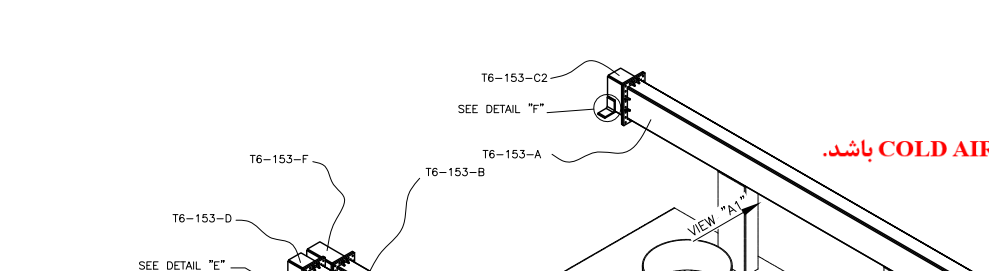
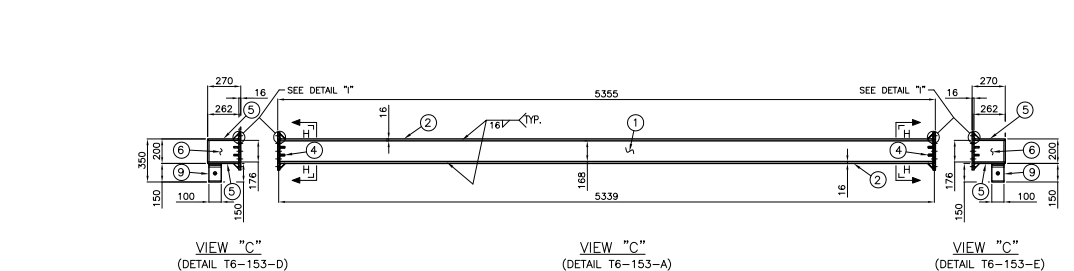
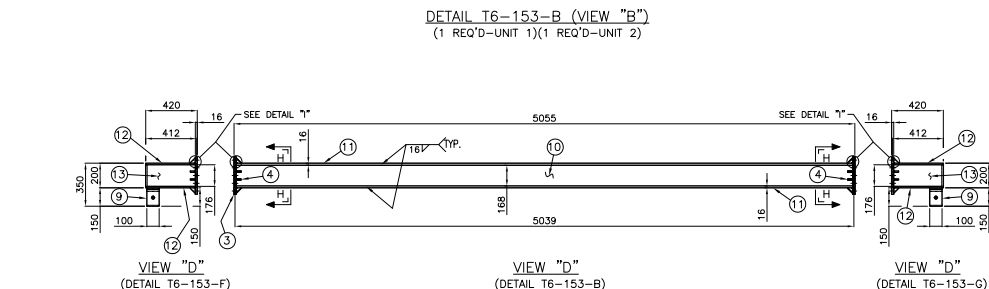
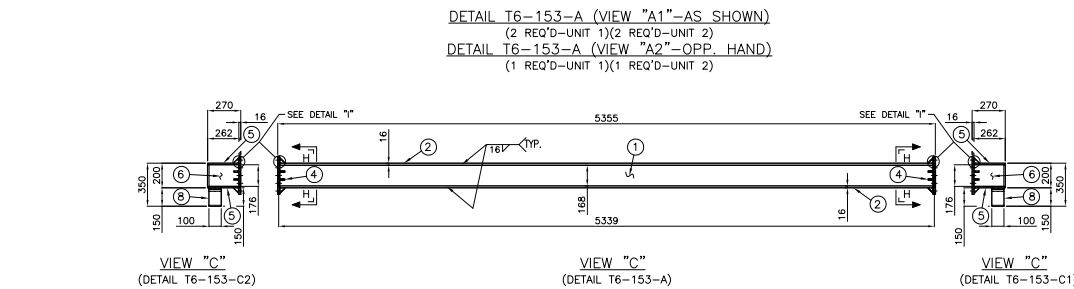
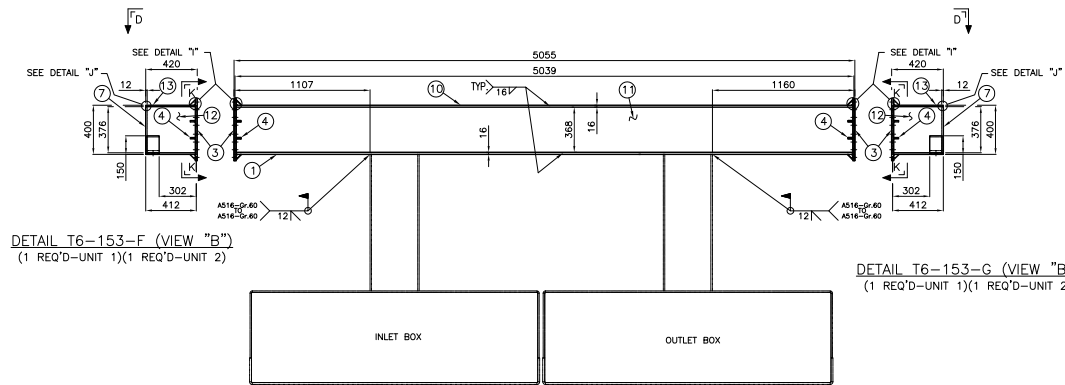
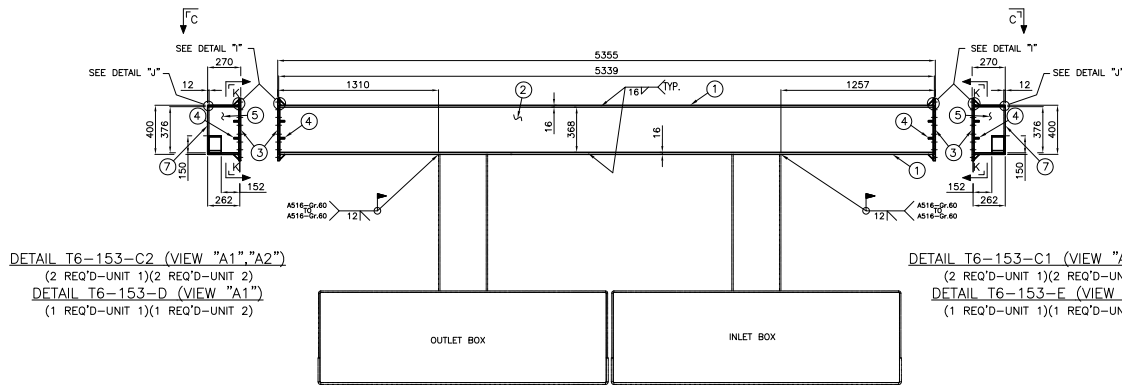


1. ALL DIMENSIONS ARE IN MILLIMETER
2. BILL OF MATERIAL : ROLLED STRUCTURAL SHAPE GIVEN IN METRIC. LENGTH OF ROLLED SHAPES AND ALL PLATE DIMENSIONS ARE GIVEN IN METERS. ALL WEIGHTS ARE IN KILOGRAMS.
3. LENGTH & WEIGHT FOR ITEM (7) & (8) IN B.O.M TABLE IS AFTER CUTTING.
4. SHOP REQUIRED WELDED JUDICUT SEAMS & BOTH LONGITUDINAL AND TRANSVERSE SHALL NOT BE WELDED IN THE VICINITY OF:
 - (a) INTERSECTING JOINTS OR THEIR REINFORCEMENT PLATES
 - (b) JUDICUT SUPPORT LOGS
 - (c) LIFTING OR HANGING LOGS.
5. THIS BOM INCLUDE MATERIALS FOR DRUMS & PIPE & DETAIL & SECTION BOM.
6. FOR FRAME ITEMS PLEASE REFER TO SHEET NO.2
7. FOR DETAIL & SECTION PLEASE REFER TO SHEET NO.3
8. FOR SUPPORT ITEMS PLEASE REFER TO SHEET NO.4
9. FOR REFRACTORY ITEM PLEASE REFER TO SHEET NO.5
10. FOR CONSTRUCTION MATERIALS PLEASE REFER TO SHEET NO.1 & NO.2 & NO.3 & NO.4 & NO.5 ALPHABETICALLY



BILL OF MATERIAL						
NO.	QTY	DESCRIPTION	MATERIAL	WEIGHT (kg)		REMARKS
ITEM	ITEM			UNIT		
1	4	PL 16 THK. x 738 x 4550	SA 240-304	434	1736	
2	1	PL 12 THK. x 2331 x 4650	SA 240-304	1029.6	1029.6	
3	2	PL 12 THK. x 734 x 2331	SA 240-304	166	332	
4	8	UNP 100 x 50 x 434 LG.	—	4.6	36.8	
5	—	—	—	—	—	
6	—	—	—	—	—	
7	3	PPE #813 x 6 THK. x 245(+100) LG.	SA 240-304	29.3	87.9	
8	3	PPE #914 x 10 THK. x 243(+100) LG.	SA 240-304	54.6	163.8	
9	8	PL 12 THK. x 100 x 2651	SA 312-TP304	21	168	
10	928	PPE #88.9 x 3.05 WALL x 3650 LG.	SA 312-TP304	243	22550	ANSI B36.19
11	1	PL 12 THK. x 4812 x 4518	SA 240-304	2069	2069	
12	2	PL 16 THK. x 4750 x 600	SA 240-304	561.6	723.2	
13	4	PPE #60.3 x 8.74 WALL x 145 LG.	SA 312-TP304	1.6	6.4	ANSI B36.19
14	16	PL 12 THK. x 367 x 441	SA 240-304	14	56	
15	4	PL 12 THK. x 400 x 503	SA 240-304	21	84	
16	4	PL 12 THK. x 185 x 300	SA 240-304	2.6	41.6	
17	1	PL 12 THK. x 265 x 300	SA 240-304	3.7	14.8	
18	4	PL 12 THK. x 140 x 100	SA 240-304	1.3	20.8	
19	4	PL 12 THK. x 100 x 265	SA 240-304	1.3	20.8	
20	1	PL 12 THK. x 4550 x 4750	SA 240-304	1450	1450	
21	2	PL 12 THK. x 192 x 4518	SA 240-304	82.5	165	
22	4	PL 12 THK. x 100 x 2355	SA 240-304	22	88	
23	1	PL 12 THK. x 100 x 4518	SA 240-304	43	43	
24	8	UNP 100 x 50 x 4526 LG.	—	—	—	
25	4	UNP 100 x 50 x 2231 LG.	—	—	—	
26	—	—	—	—	—	
27	2	PL 16 THK. x 2331 x 4550	SA 240-304	971	1942	
28	8	PL 12 THK. x 376 x 1112	SA 240-304	39.8	318.4	
29	8	PL 12 THK. x 176 x 1112	SA 240-304	18.6	148.6	
30	2	PL 12 THK. x 734 x 2331	SA 240-304	166	332	
31	4	UNP 100 x 50 x 2331 LG.	—	—	—	
32	3	PL 10 THK. x LG. 856 x 0.1028	SA 240-304	23	69	
33	3	PL 12 THK. x LG. 907 x 0.1127	SA 240-304	30	90	
34	3	PL 12 THK. x 2552 x 130 LG. (924.3 O.D.)	SA 240-304	31.6	94.8	
35	3	PL 15 THK. x 2960 x 132 LG. (925.3 O.D.)	SA 240-304	31.6	94.8	
36	1	PL 12 THK. x 2331 x 4550	SA 240-304	1029.6	1029.6	

AS	1403/07/23	ISSUED FOR APPROVAL	S.Ahmedi	S.Bestami	M.Rahmani
Rev.	DATE	REVISION DETAILS	DRAWN	CHK.	APP.
VENDOR:					
-					
CLIENT:			Golgozar Iron & Steel Development Company 		
DRAWING TITLE:					
Outline Drawing For Cold Air					
WEB SITE :		DWG No. : GUSD-1MPS-NCB-03-01		E-mail:	
DWG No. :		S/N	Project	Dep.	Serial
GUSD-1MPS-NCB-03-01					
				Size	Rev.
				A	4
					Scale:
					Shoow



BILL OF MATERIAL				
FOR: HEAT RECOVERY SYSTEM-COLD AIR BUNDLE SUPPORT				
DWG: GGMMH48-T6-153				
ITEM	QTY	DESCRIPTION	WEIGHT (kg)	MATERIAL
T6-153-A (3 REQ'D-UNIT1 & 3 REQ'D-UNIT2)				
1	12	PL 16 x 168 x 5339	113	AS16-Gr.60
2	12	PL 16 x 368 x 5339	247	AS16-Gr.60
3	12	PL 16 x 304 x 504	9	AS16-Gr.60
4	96	PL 10	0.1	AS16-Gr.60
T6-153-B (1 REQ'D-UNIT1 & 1 REQ'D-UNIT2)				
3	4	PL 16 x 304 x 504	9	AS16-Gr.60
4	32	PL 10	0.1	AS16-Gr.60
10	4	PL 16 x 188 x 5039	106	AS16-Gr.60
11	4	PL 16 x 368 x 5039	233	AS16-Gr.60
T6-153-C1 (2 REQ'D-UNIT1 & 2 REQ'D-UNIT2)				
3	8	PL 16 x 304 x 504	9	AS16-Gr.60
4	64	PL 10	0.1	AS16-Gr.60
5	16	PL 12 x 262 x 376	9	AS16-Gr.60
6	16	PL 12 x 176 x 262	4	AS16-Gr.60
7	8	PL 12 x 176 x 376	6	AS16-Gr.60
8	8	L 150 x 14 x 100 LG.	3	AS16-Gr.60
T6-153-D (1 REQ'D-UNIT1 & 1 REQ'D-UNIT2)				
3	4	PL 16 x 304 x 504	9	AS16-Gr.60
4	32	PL 10	0.1	AS16-Gr.60
5	8	PL 12 x 262 x 376	9	AS16-Gr.60
6	8	PL 12 x 176 x 262	4	AS16-Gr.60
7	4	PL 12 x 176 x 376	6	AS16-Gr.60
9	4	L 150 x 14 x 100 LG.	3	AS16-Gr.60
T6-153-E (1 REQ'D-UNIT1 & 1 REQ'D-UNIT2)				
3	4	PL 16 x 304 x 504	9	AS16-Gr.60
4	32	PL 10	0.1	AS16-Gr.60
5	8	PL 12 x 262 x 376	9	AS16-Gr.60
6	8	PL 12 x 176 x 262	4	AS16-Gr.60
7	4	PL 12 x 176 x 376	6	AS16-Gr.60
9	4	L 150 x 14 x 100 LG.	3	AS16-Gr.60
T6-153-F (1 REQ'D-UNIT1 & 1 REQ'D-UNIT2)				
3	4	PL 16 x 304 x 504	9	AS16-Gr.60
4	32	PL 10	0.1	AS16-Gr.60
7	4	PL 12 x 176 x 376	6	AS16-Gr.60
9	4	L 150 x 14 x 100 LG.	3	AS16-Gr.60
12	8	PL 12 x 376 x 412	15	AS16-Gr.60
13	8	PL 12 x 176 x 412	7	AS16-Gr.60
BOLTS, NUTS & WASHER (FOR TWO UNITS)				
14	352	M12 x 65 GLVD. BOLTS, NUT & WASHER	-	DIN 933,934,125
15	8	M22 x 95 GLVD. BOLTS, NUT & WASHER	-	DIN 933,934,125

