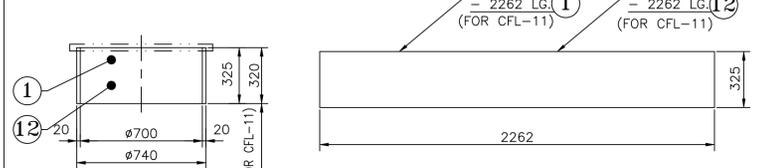


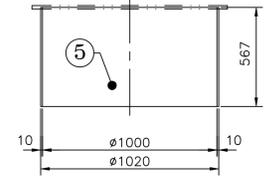
BILL OF MATERIALS

ERECTION MARK	ITEM NO.	MAT. SPECS.	SECTION	LENGTH IN mm.	REQD. NOS.	UNIT WT.	TOTAL WT.	EREC. NOS.	WT. FOR ALL EREC.	REMARKS
CFL-1	1		PL.325x20	2262	1	157.00	115.42			
							115.42	2	230.84	
CFL-2	2		PL.1081x10	3173	1	78.50	269.25			
							269.25	1	269.25	
CFL-3	3		PL.1120x12	5473	1	94.20	577.42			
	4		PL.863x12	5473	1	94.20	444.93			
CFL-4	5	SEE ABSTRACT	PL.568x10	3173	1	78.50	141.48			
							141.48	1	141.48	
6	PL.780x10		3173	1	78.50	194.28				
							194.28	1	194.28	
7	PL.262x12		2281	1	94.20	56.30				
CFL-5							56.30	1	56.30	
	8		PL.428x12	980	1	94.20	35.51			
CFL-6							35.51	2	71.02	
	9		PIPE ϕ 110.3x5.6T.	190	1	14.46	2.75			
CFL-7							2.75	1	2.75	
	10		PL.1231x10	6315	1	78.50	610.24			
CFL-8							610.24	1	610.24	
	11		PL.279x20	2457	1	157.00	107.62			
CFL-9							107.62	1	107.62	
	12		PL.320x20	2262	1	157.00	113.64			
CFL-10							113.64	1	113.64	

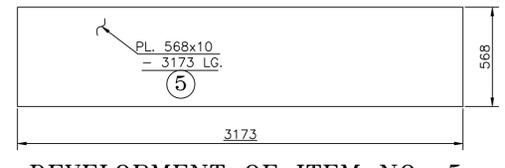
TOTAL WT. = 3842.12 KG. = 3.842 T.



DEVELOPMENT OF ITEM NO.-1
DEVELOPMENT OF ITEM NO.-12

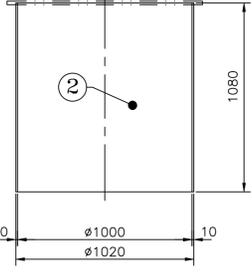


DETAIL OF CFL-4
(QTY. 1 NO.)

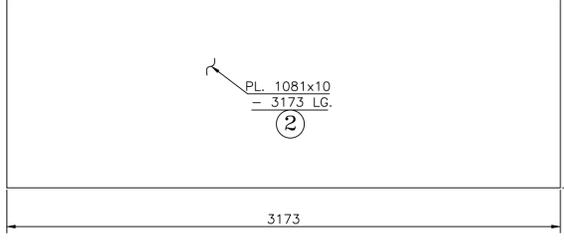


DEVELOPMENT OF ITEM NO.-5

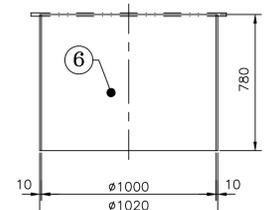
DETAIL OF CFL-1
(QTY. 2 NOS.)
DETAIL OF CFL-11
(QTY. 1 NO.)



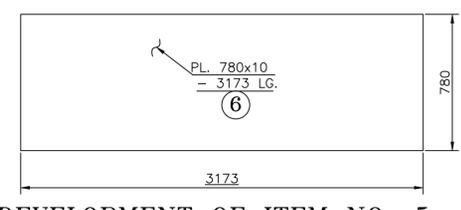
DETAIL OF CFL-2
(QTY. 1 NO.)



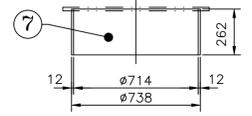
DEVELOPMENT OF ITEM NO.-2



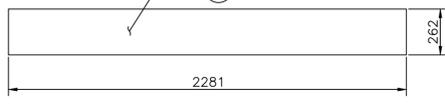
DETAIL OF CFL-5
(QTY. 1 NO.)



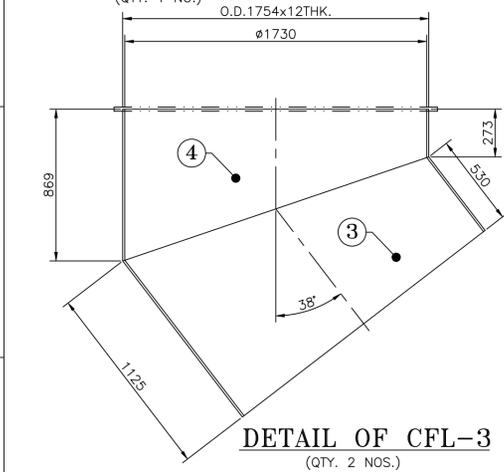
DEVELOPMENT OF ITEM NO.-5



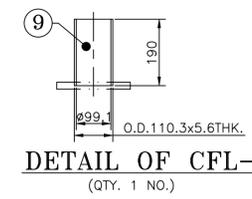
DETAIL OF CFL-6
(QTY. 1 NO.)



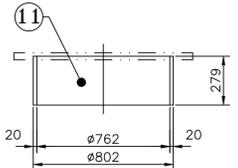
DEVELOPMENT OF ITEM NO.-7



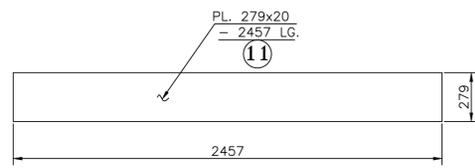
DETAIL OF CFL-3
(QTY. 2 NOS.)



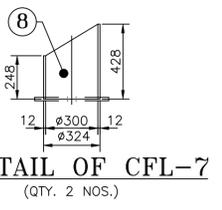
DETAIL OF CFL-8
(QTY. 1 NO.)



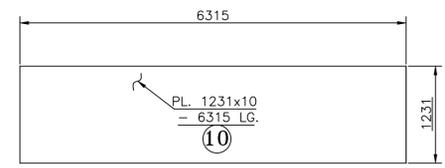
DETAIL OF CFL-10
(QTY. 1 NO.)



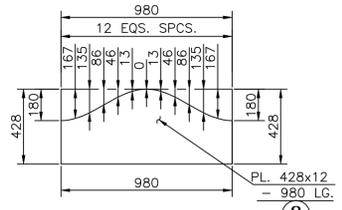
DEVELOPMENT OF ITEM NO.-11



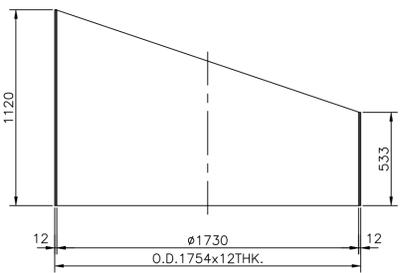
DETAIL OF CFL-7
(QTY. 2 NOS.)



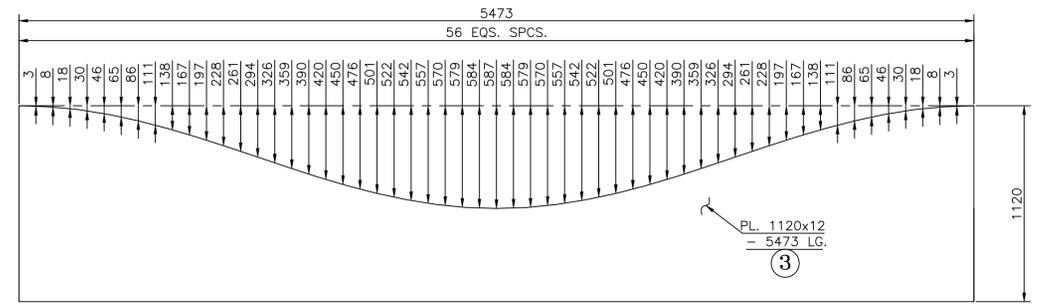
DEVELOPMENT OF ITEM NO.-10



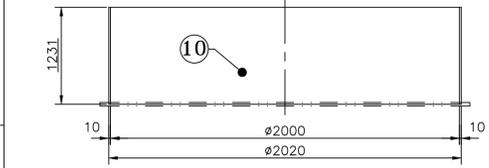
DEVELOPMENT OF ITEM NO.-8



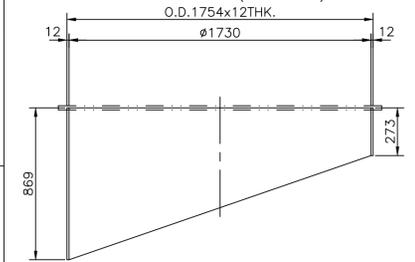
DETAIL OF ITEM NO.-3



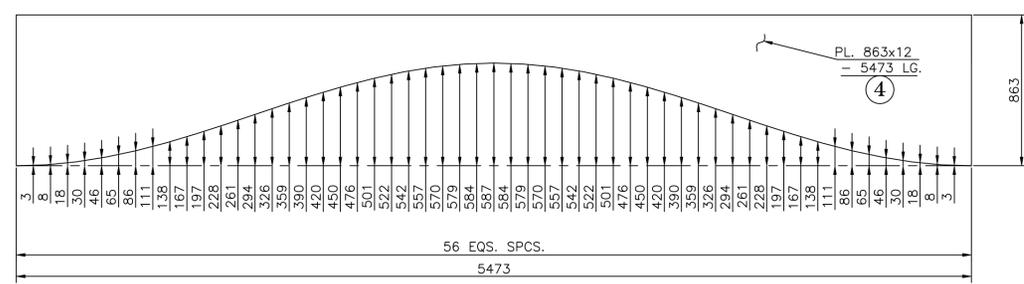
DEVELOPMENT OF ITEM NO.-3



DETAIL OF CFL-9
(QTY. 1 NO.)



DETAIL OF ITEM NO.-4



DEVELOPMENT OF ITEM NO.-4

ABSTRACT

SL.NO.	SECTIONS	WT. IN KGS.	REMARKS
1	PL. 10 THK.	1215.25	IS:2062-2002,(GR-A)
2	PL. 12 THK.	2172.02	IS:2062-2002,(GR-A)
3	PL. 20 THK.	452.10	ASTM A516 GR.70
4	PIPE ϕ 110.3x5.6T.	2.75	IS:1161-1979

- NOTES :-**
- ALL DIMENSIONS AND LEVELS ARE IN mm.
 - ± 0.00 CORRESPONDS TO 483.6 m. ABSOLUTE.
 - FOR MARKING REF. DRG. MEC/11/12/Q6YM/DE/41/0560 (SH. 01 OF 02 & 02 OF 02)
 - ALL PLATE ARE TO BE CUT AFTER VERIFICATION OF DIMENSIONS AS PER FULL SCALE SHOP LAYOUT.

REV.	DATE	ZONE	DESCRIPTION	BY	VERIFIED

REV.NO.	DATE	ZONE	DESCRIPTION	BY	VERIFIED

STRUCTURAL		RECONSTRUCTION OF BF NO. 1	
LOCATION	RANCHI	1750 m ³ BLAST FURNACE	
DESIGNED	-	STOVE SHELL	
DRAWN	-	DETAIL OF FLANGE CONNECTION	
CHECKED AND VERIFIED	-	MKD. CFL-1 TO CFL-11.	
APPROVED	-	WITH BILL OF MATERIALS	
SIG.	SCALE - 1:50	SHEET	REV.
DATE	DRG. No. MEC/11/12/Q6YM/DE/41/0566	1 OF 1	O