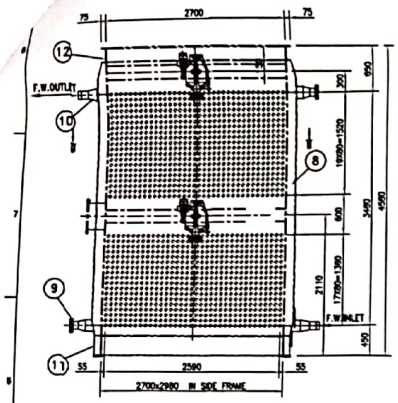

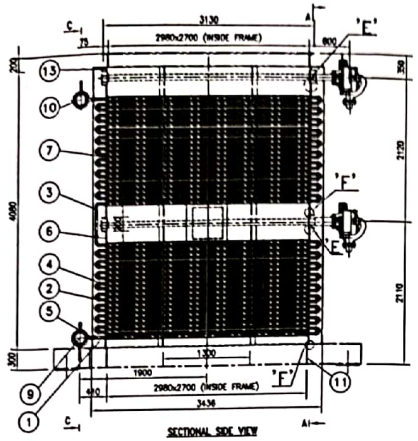

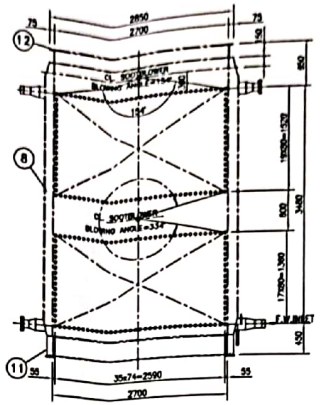

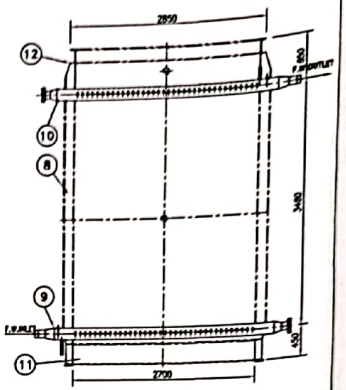

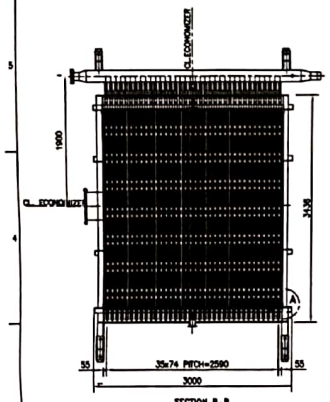

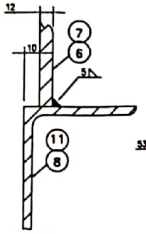

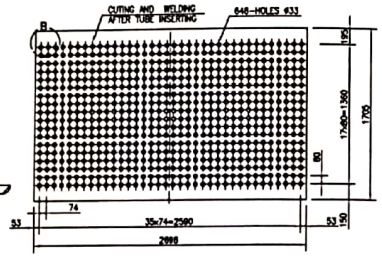

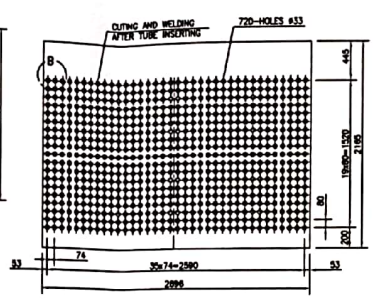

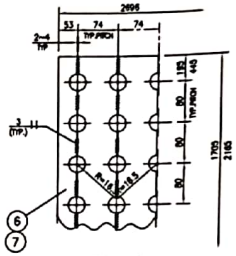

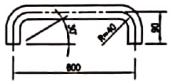

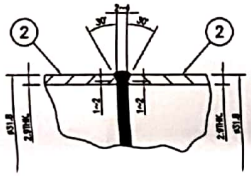

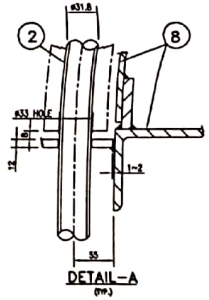

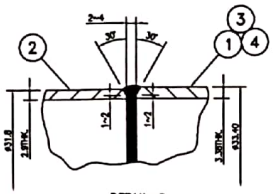

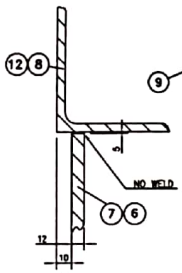

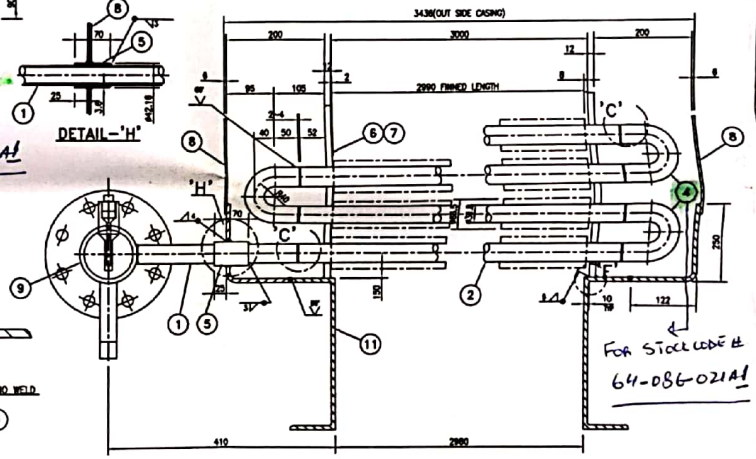

NOTES:-

1:- ALL DIMENSIONS ARE IN "MM" UNLESS OTHERWISE SPECIFIED.
2:- W.P.S, WELDING METHOD AND FILLER MATERIAL WILL BE SPECIFIED BY Q.C / WELDING ENGINEER.
3:- POST WELD HEAT TREATMENT AS PER ASME SECTION I (LATEST EDDITION)
4:- N.D.T OF WELDED JOINTS AS PER ASME SECTION I (LATEST EDDITION)
5:- MATERIAL CERTIFICATION SHOULD BE ACCORDING TO ASME SECTION II PART A, ASME SECTION II PART D AND ASME SECTION I (LATEST EDDITION)
6:- FOR ECONOMIZER ASSEMBLY REF.SEE DWG.NO.812-02400
7:- SOLID FIN.DIA.63.5 MM , FIN THICKNESS 1.25 MM, FIN DENSITY 78 FIN/M MATERIAL CARBON STEEL. TUBE MATERIAL A-192.
8:- ESTIMATED WT. =19019.0 KGS.

DESIGN DATA

DESIGN STANDARD	:	ASME SECTION I – EDD 2001 ADDENDA 02
DESIGN PRESSURE	:	55.17 BARG. (800 PSIG)
DESIGN TEMPERATURE	:	232 °C (450 °F)
HYDRO TEST PRESSURE	:	82.76 BARG. (1200 PSIG)

BILL OF QUANTITY

ITEM NO.	DESCRIPTION	CERTIFIC. MATERIAL	QTY.	REF.DWG.NO	MATERIAL	WEIGHT KGS.
13	PLATE 12THK.x2696x50		02		A-36	25.0
12	TOP FRAME UPN 200X75		01	B12-02404		
11	BOTTOM FRAME UPN 300X100		01	B12-02404		
10	OUTLET HEADER Ø168.28x7.11THK		01	B12-02403		
9	INLET HEADER Ø168.28x7.11THK		01	B12-02403		
8	ECONOMIZER CASING		01	B12-02402		
7	TUBE PLATE 12THK.x2696x2165 LG		02		A-285GRA	984.00
6	TUBE PLATE 12THK.x2696x1705 LG		02		A-36	782.00
5	PIPE OD42.16X3.56THK.x70LG.		72		A-1068	20.0
4	PIPE BEND ø33.40x3.38THK.x228 LG		1296		A-1068	744.0
3	PIPE ø33.40x3.38THK.x748 LG		36		A-1068	88.0
2	FIN TUBE OD31.8x2.9THK.x3128LG.		1368	SEE NOTE-7	A-192	16408.0
1	PIPE ø33.40x3.38THK.x248 LG		72		A-1068	45.0

REV	DESCRIPTION	DWN	CKD	APPVD	DATE
1	MANEHOLE LOCATION CHANGED	MUN	SC	SHU	12.3.04

COMPUTER REFERENCE DRAWING NUMBER: B1202401

ENGINEERED BY: ERK/DESCON
SCALE: 1:30
DRAWN BY: MUN
CHECKED BY: TA
APPROVED BY: SHU
DATE: 16-07-2003

DESCON ENGINEERING LIMITED
P.O.BOX 1201,LAHORE-54000 PAKISTAN
TEL:6369134, TLX:44338 DESCN PK,CABLE:AMEERI FAX:[92] 636406-6369587

CLIENT: NATIONAL REFINERY LTD.
PROJECT: DWWT - 08052
TITLE: ECONOMIZER TUBE ARRANGEMENT

ISSUED FOR	PROJECT NO.	DRAWING NO	REV	SHEET
FABRICATION	6117	812-02401	1	NO 1
CONSTRUCTION				OF 1

THIS DRAWING IS PRIVATE AND IS THE PROPERTY OF DESCON ENGG IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF DESCON ENGG AND RETURNED WITH THE TENDER AND/OR ON COMPLETION OF THE ORDER TO DESCON ENGINEERING LIMITED LAHORE

Scanned with CamScanner