




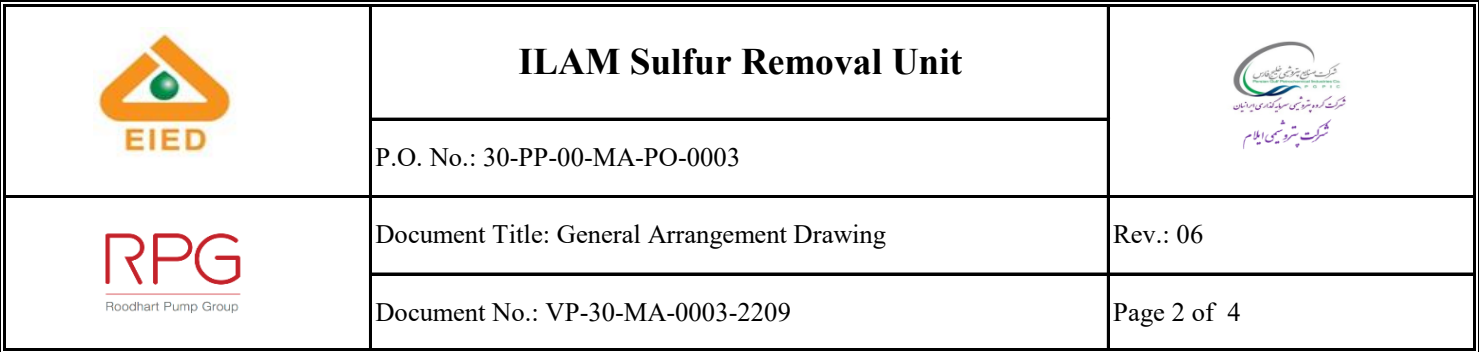









	<p align="center"><b>ILAM Sulfur Removal Unit</b></p>	
	<p>P.O. No.: 30-PP-00-MA-PO-0003</p>	
	<p>Document Title: General Arrangement Drawing</p>	<p>Rev.: 06</p>
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## Table of Contents

### 1. General Arrangement Drawing 30-P-3001-AB

GENERAL NOTES

REFERENCE DOCUMENTS

DOCUMENT TITLE	DOCUMENT NUMBER
INSTRUMENT LIST	VP-30-MA-0003-2205
INSTRUMENT DATA SHEET	VP-30-MA-0003-2218
PUMP DATA SHEET	VP-30-MA-0003-2206
PIPING & INSTRUMENT DIAGRAM'S DRAWING	VP-30-MA-0003-2208
CROSS SECTIONAL DRAWING	VP-30-MA-0003-2210
SURFACE PREPARATION AND PAINTING PROCEDURE	VP-30-MA-0003-4003

NOZZ/DISCREPTION:	SIZE	CODE
N1 Suction flange	3"	ASME B16.5 300#RF
N2 Discharge flange	2"	ASME B16.5 600#RF
N3 Seal Plan vent	1/2"	ASME B16.5 300#RF
N4 Casing Drain (valve and blind flange)	3/4"	ASME B16.5 600#RF
N5 Baseplate drain	2"	Female NPT
N6 Barrier fluid refill plugged connection NDE		Quick Coupling
N7 Barrier fluid refill plugged connection DE		Quick Coupling
N8 Plan 538 Vent valve NDE	1/2"	ASME B16.5 600#RF
N9 Plan 538 Vent valve DE	1/2"	ASME B16.5 600#RF
N10 Accumulator nitrogen re-fill NDE		Screw Coupling
N11 Accumulator nitrogen re-fill DE		Screw Coupling
N12 Plan 538 drain valve NDE	3/4"	ASME B16.5 600#RF
N13 Plan 538 drain valve DE	3/4"	ASME B16.5 600#RF
N14 Reservoir drain valve NDE	3/4"	ASME B16.5 600#RF
N15 Reservoir drain valve DE	3/4"	ASME B16.5 600#RF

	FOUNDATION LOADS per bolt (N)		
	STATIC LOADS	DYNAMIC LOADS	TOTAL DOWNWARD FORCE
RIGHT SIDE (from NDE)	8635	34	8669
LEFT SIDE (from NDE)	6136	-34	6102

06	10-08-2017	AS BUILT	J.C.	ASC	J.V.D.X.	J.vd
05	13-06-2017	ISSUED FOR APPROVAL	D.C.	ASC	J.V.D.X.	J.vd
04	23-05-2017	ISSUED FOR APPROVAL	J.C.	ASC	J.V.D.X.	J.vd
03	04-01-2016	ISSUED FOR APPROVAL	A.C.	ASC	J.V.D.X.	J.vd
02	25-11-2016	ISSUED FOR APPROVAL	L.H.	ASC	J.V.D.X.	J.vd
01	20-10-2016	ISSUED FOR APPROVAL	H.V.	ASC	J.V.D.X.	J.vd
00	07-09-2016	ISSUED FOR APPROVAL	H.V.	ASC	J.V.D.X.	J.vd
REV.	DATE	DESCRIPTION	PREP.	CH'D.	APP'D.	AUTH BY

ILAM Sulfur Removal Unit

PO No.: 30-DD-00-MA-PO-003-00

STATUS:

SCALE :



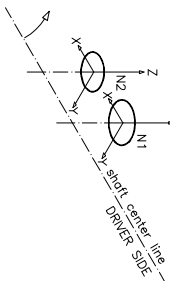
ROODHARTPUMPGROUP



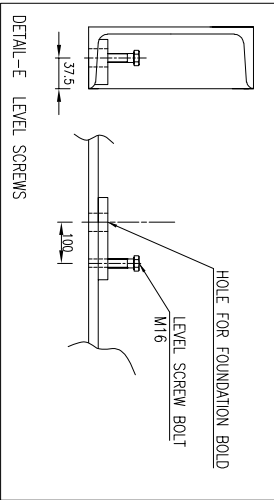
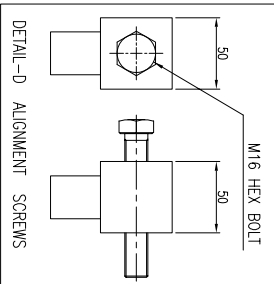
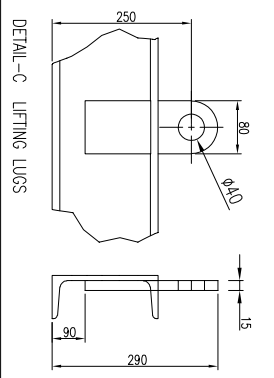
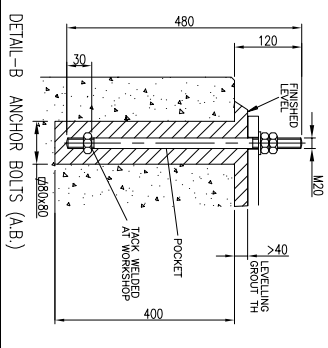
Document Title  
GENERAL ARRANGEMENT 30-P-3001A/B  
RCBB5-80-50-80X6

DRAWING No.	VP-30-MA-0003-2209	SHEET No.	4 OF 4
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Nozzle	Forces (N) 2x API	
	F <sub>x</sub>	F <sub>y</sub>
Suction (N1)	2140	1780
Discharge (N2)	1420	1160
Moments (Nm)		
Suction (N1)	1900	1440
Discharge (N2)	920	700



EARTHING BOSS BILL OF MATERIAL (ZY)	
A	1 BOSS, Ø40 LG=35 SI 317.2
B	2 M10 SPRING WASHER ST.
C	1 M10 SPRING WASHER ST.
D	2 M10 HEX. NUT ASI 316
E	1 THREADED END M10x60 ASI 316



PUMP	
Make	ROODHART
Type/Size	RCBB5 80-50-80x6
Tag no.	30-P-3001 A/B

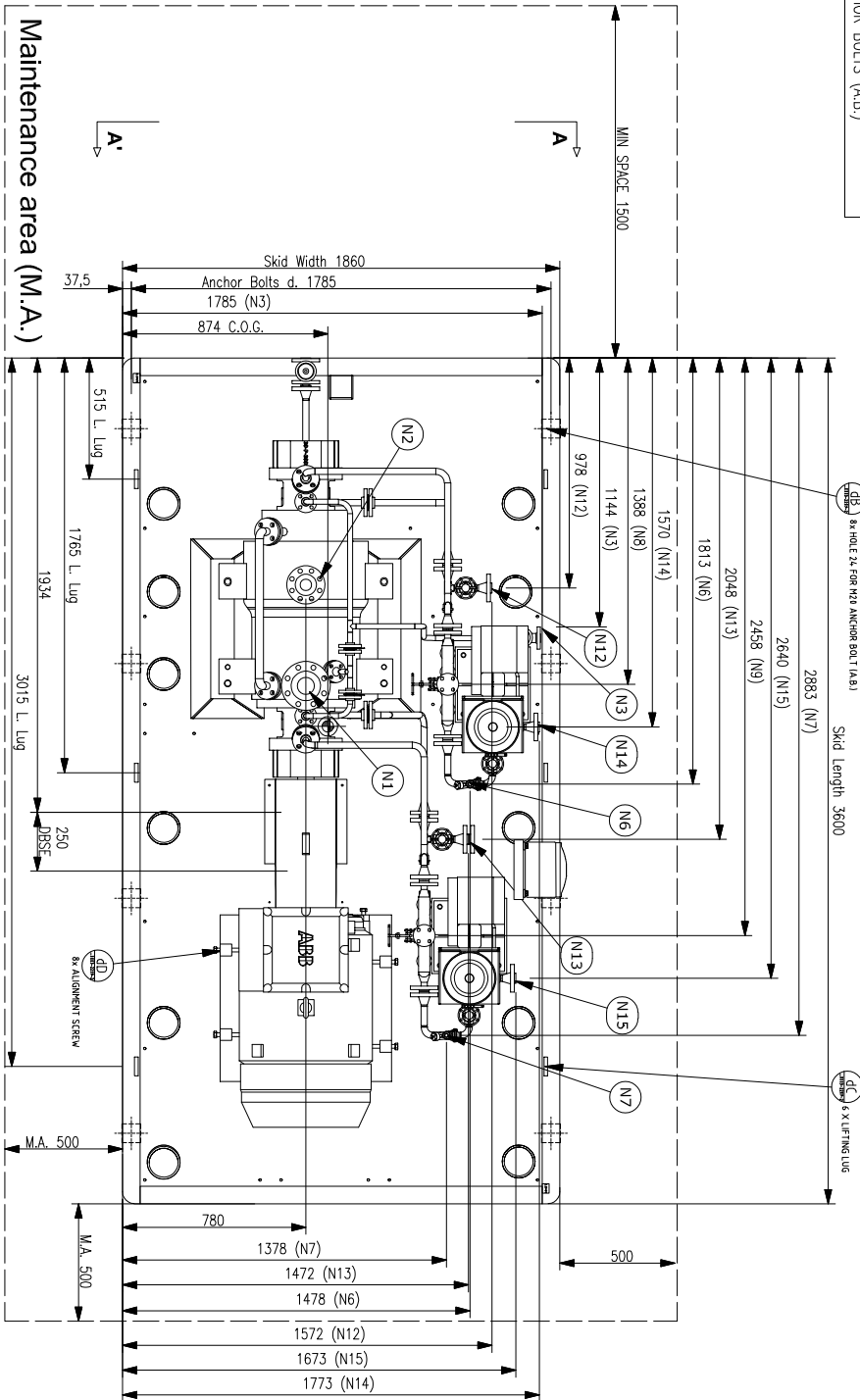
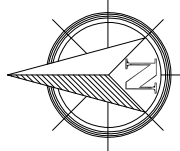
MECHANICAL SEAL	
Make	FLUEN ITALY
Type/Size	CARTRIDGE DOUBLE SEAL
Seal Plan	11 + 338

COUPLING	
Make	KTR
Type/Size	RABEX-N 70
DBSE	250mm

OPERATING CONDITIONS	
Pumped liquid	CH4+Cl2+H2C6H6
Capacity	44.44 m <sup>3</sup> /h
Head	497.3 m
Speed	2977 rpm
Specific gravity	0.599
Temperature	54.7 °C
Vapor pressure	5.5 bara

MOTOR/DRIVER	
Make	ABB
Type	IC411
Power	75kW @ 2977 rpm
Voltage	400V~3 phase 50Hz
Alex	Exd IIC T4
Tag No.	30-MP-3001 A/B

COMPONENT	
Pump	Weight in kg
Driver	2800
Coupling and guard	625
Seal system	40
Base plate	300
Total Weight	1340
	5105



Maintenance area (M.A.)

