





	ILAM Sulfur Removal Unit		
	P.O. No.: 30-PP-00-MA-PO-0003		
	Document Title: General Arrangement Drawing	Rev.: 04	
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## General Arrangement Drawing 30-P-4002 AB

<b>Code1</b>	<input type="checkbox"/> <b>No Comment</b> No comment and the document are released for Manufacturing.
<b>Code2</b>	<input type="checkbox"/> <b>No Comment with Note</b> Vendor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated..
<b>Code3</b>	<input type="checkbox"/> <b>Commented</b> Vendor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process.
Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.	
	<b>Date:</b> <b>Dept:</b> <b>Signature:</b>

04	23-05-2017	Revised Issue	Issued For Review	J.G.	A.S	JV.V	J.VV
03	04-01-2017	Revised Issue	Issued For Review	A.C.	A.S	JV.V	J.VV
02	25-11-2016	Revised Issue	Issued For Review	S.A	A.S	JV.V	J.VV
01	20-10-2016	Revised Issue	Issued For Review	S.A	A.S	JV.V	J.VV
00	9-9-2016	First Issue	Issued For Review	S.A	A.S	JV.V	J.VV
<b>Rev.</b>	<b>Date</b>	<b>Status</b>	<b>Purpose of Issue</b>	<b>PRE'D</b>	<b>CHC'D</b>	<b>APP'D</b>	<b>AUT'D</b>

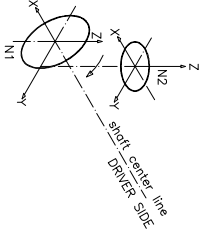
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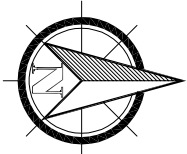
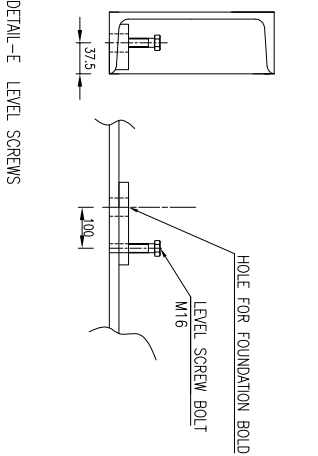
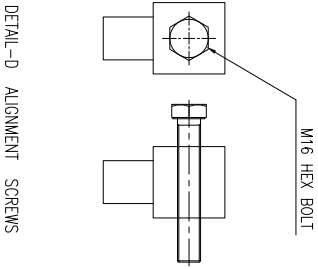
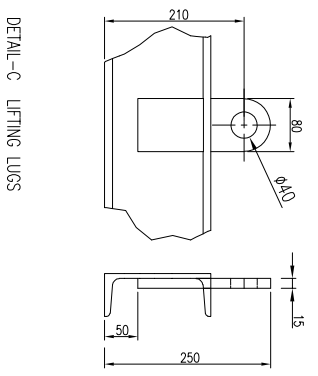
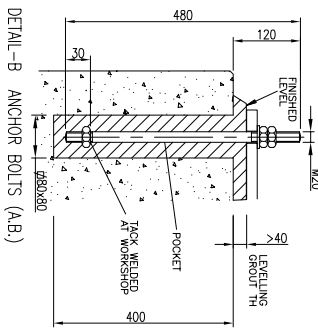
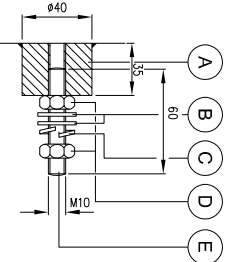
1. General Arrangement Drawing 30-P-4002 AB

Forces (N) 2xAPI			
Nozzle	Fx	Fy	Fz
Suction (N1)	3560	2840	2320
Discharge (N2)	1420	1160	1780
		2560	
Moments (Nm)			
Nozzle	Mx	My	Mz
Suction (N1)	2660	1360	2000
Discharge (N2)	920	460	700
		1240	



EARTHING BOSS BILL OF MATERIAL (2X)	
A	1 BOSS, Ø40 LG=35 SI.37.2
B	2 M10 WASHER SI. 316
C	1 M10 SPRING WASHER SI.
D	2 M10 HEX. NUT AISI 316
E	1 THREADED END M10x60 AISI 316

DETAIL-A EARTHING BOSS x 2



PUMP	
Make	ROODHART
Type/Size	RCOH2-100-50-315
Tag no.	30-P-4002 A/B

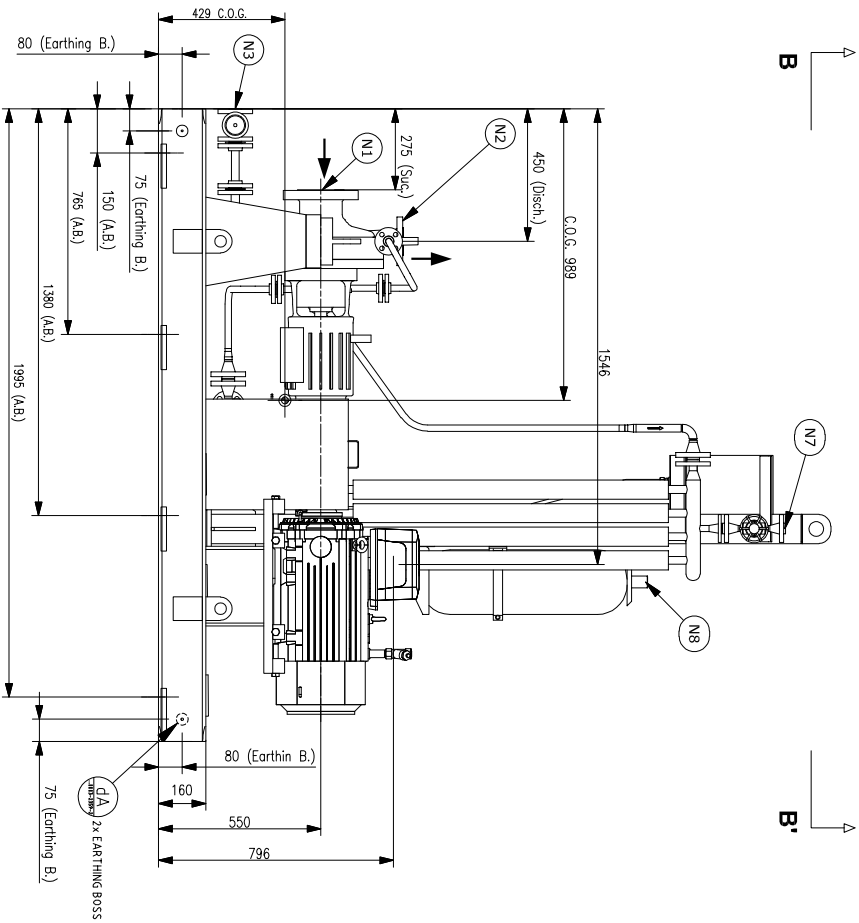
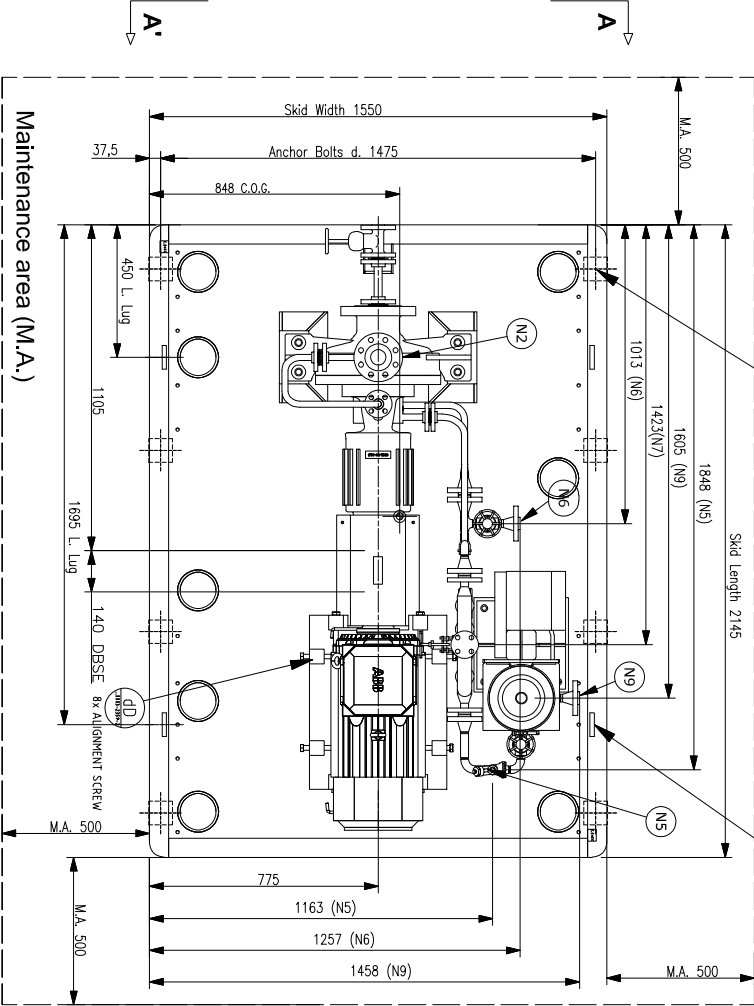
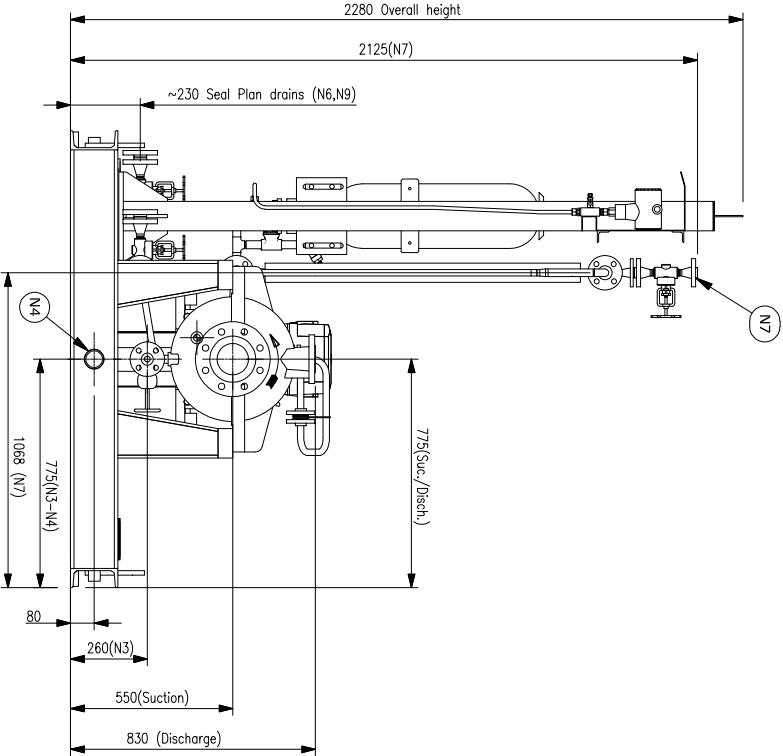
MECHANICAL SEAL	
Make	FLUTER ITALY
Type/Size	CARTRIDGE DOUBLE SEAL
Seal Plan	11 + 53B

COUPLING	
Make	KTR
Type/Size	RADEX-N 50
DBSE	140mm

OPERATING CONDITIONS	
Pumped liquid	C4+DIT+MERCAPTANS
Capacity	44 m <sup>3</sup> /h
Head	87.90 m
Speed	2960 rpm
Specific gravity	0.5458
Temperature	40 °C
Vapor pressure	8.7 baro

MOTOR/DRIVER	
Make	ABB
Type	IC411
Power	18.5kW @ 2354 rpm
Voltage	400V~3 phase 50Hz
Alex	ExdIIcT4
Tag No.	30-MP-4002 A/B

COMPONENT	
Pump	Weight in Kg 185
Driver	233
Coupling and guard	20
Seal system	150
Base plate	560
Total Weight	1178



## GENERAL NOTES

### REFERENCE DOCUMENTS

DOCUMENT TITLE	DOCUMENT NUMBER
INSTRUMENT LIST	VP-30-MA-0003-2355
INSTRUMENT DATA SHEET	VP-30-MA-0003-2368
PUMP DATA SHEET	VP-30-MA-0003-2366
PIPING & INSTRUMENT DIAGRAM'S DRAWING	VP-30-MA-0003-2368
CROSS SECTIONAL DRAWING	VP-30-MA-0003-2360
SURFACE PREPARATION AND PAINTING PROCEDURE	VP-30-MA-0003-4003

NOZZLE DESCRIPTION:	SIZE	CODE
N1 Suction flange	4"	ASME B16.5 300#RF
N2 Discharge flange	2"	ASME B16.5 300#RF
N3 Casing Drain (valve and blind flange)	3/4"	ASME B16.5 300#RF
N4 Baseplate drain	2"	Female NPT
N5 Barrier fluid refill plugged connection	3/4"	Quick Coupling
N6 Plan 53B drain valve	3/4"	ASME B16.5 600#RF
N7 Plan 53B Vent valve DE	1/2"	ASME B16.5 600#RF
N8 Accumulator nitrogen re-fill		Screw Coupling
N9 Reservoir drain valve	3/4"	ASME B16.5 600#RF

FUNDATION LOADS per bolt (N)		
STATIC LOADS	DYNAMIC LOADS	TOTAL DOWNWARD FORCE
RIGHT SIDE (from NDE)	2895	-20
LEFT SIDE (from NDE)	1710	20
		1730

REV.	DATE	DESCRIPTION	PREP. BY	CHK'D. BY	APP'D. BY	AUTH. BY
04	23-05-2017	ISSUED FOR APPROVAL	J.G.	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	21-10-2016	ISSUED FOR APPROVAL	H.V.	ASC	J.V.D.X.	J.vd
00	09-09-2016	ISSUED FOR APPROVAL	H.V.	ASC	J.V.D.X.	J.vd

## ILAM Sulfur Removal Unit

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

STATUS:

SCALE :



ROODHARTPUMP GROUP



Document Title GENERAL ARRANGEMENT 30-P-4002 A/B

DRAWING No. VP-30-MA-0003-2359

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