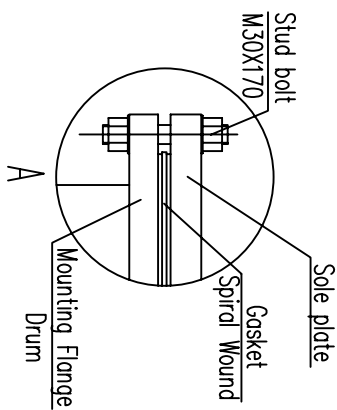


PROCESS CONNECTIONS		
Code	Description	Size & Rating
N1	Pump Discharge Flange	1", ASME B16.5 300LB RF
N2	Pump Vent Flange	3/4", ASME B16.5 300LB RF
N3	Cooling Water Inlet	1", ASME B16.5 150LB RF
N4	Cooling Water Outlet	1", ASME B16.5 150LB RF
N5	Pan 53B vent	1/2", ASME B16.5 150LB RF
N6	Pan 53B filling	1/2" NPT, Quick Fittings
N7	Pan 53B drain	1/2", ASME B16.5 150LB RF
Pipe Description		
①	Seal vent pipe	
②	Main cooling water inlet	
③	Main cooling water outlet	
④	Pan14 Flushing pipeline	
⑤	Pan53B Flushing pipeline (to seal chamber)	
⑥	Pan53B Flushing pipeline (from seal chamber)	
⑦	Balance pipeline & Pan 14 return line	

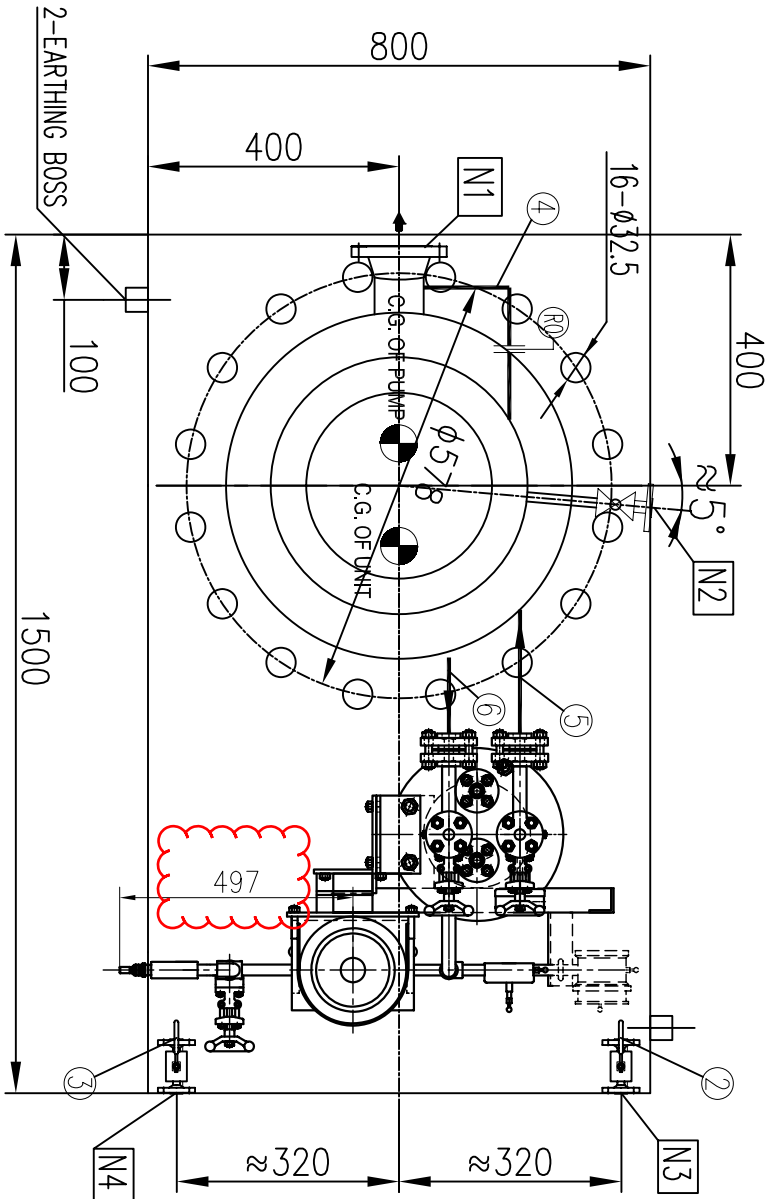
WEIGHT TABLE	
PUMP	230 KG
MOTOR	85.4 KG
SEAL SYSTEM	356 KG
BASEPLATE	100 KG
OTHERS	59 KG
TOTAL WEIGHT	1301.4 KG
ROTOR WEIGHT	115 KG
MAX. MAINTENANCE WEIGHT	190 KG

Static loading calculation results		Dynamic loading calculation results	
FXStatic=±	2840 N	FXdynamic=±	175 N
FVStatic=±	3560 N	FVdynamic=±	175 N
FZStatic=±	-11483/16123 N	FZdynamic=±	72 N
MXStatic=±	3011 N*m	MXdynamic=±	376 N*m
MYStatic=±	1531 N*m	MYdynamic=±	376 N*m
MZStatic=±	1897 N*m	MZdynamic=±	18/-18 N*m



K View

MOUNTING PLATE: DN 450 ASME B16.5 150LB RF




PUMP INFORMATION	
Item No:	01-160-P-1 A/B
Service:	SOUR WATER SUMP PUMPS
Model:	LDB 8.5-25X2-B-V
Seal Plan:	14-53B
Motor:	5.5kW-2910RPM

REFERENCE DRAWING	DWG NO.
Seal System Drawing	BU-01-W-307-MA-DRW-1601-077
Motor outline Drawing	BU-01-W-307-MA-DRW-1601-109
Coupling Drawing	BU-01-W-307-MA-DRW-1601-045
Pump Data Sheet	BU-01-W-307-MA-DSH-1601-013

1) as per comment no. 1 in last revision, items no. 1, 1, 1, 4, 1, 10 shall be added in this document after vendor receive data from motor vendor.

1. Pump rotation direction: CCW viewed from the drive end.
2. Vessel item number is 01-160-V-2
3. Vibration level complies to API610 requirement, table 8 and table 9.
4. Bolt/nut and related gasket for mounting plate will be provided by DBP.

Code1	<input checked="" type="checkbox"/> (Approved) No comment and the document is released for Manufacturing
Code2	<input type="checkbox"/> (Approved with comments) Vendor shall correct, revise and resubmit the document The document is released for manufacturing
Code3	<input type="checkbox"/> (Commented) : Vendor shall correct / revise & resubmit document
Code4	<input type="checkbox"/> Not Acceptable quality (Reject)
The above checking result 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	
 BUSISHEH PROJECT	DATE : 5 October 2015 M.F. CODE 1 Signature

03/29/08/15	FOR APPROVAL	Eric	Andy	Tino	AAP
02/13/08/15	FOR APPROVAL	Eric	Andy	Tino	AAP
01/08/07/15	FOR APPROVAL	Eric	Andy	Tino	AAP
00/25/03/15	FOR APPROVAL	Eric	Andy	Tino	AAP
REV.	DATE	PURPOSE OF ISSUE	PREP. BY	CHKD. BY	AUTH. BY

Gas Sweetening, Sulphur Recovery, C2 Recovery,
Fractionation and Inter Connection Pipeline
Between Plants Project



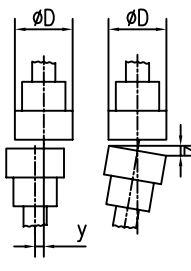
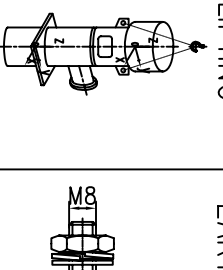
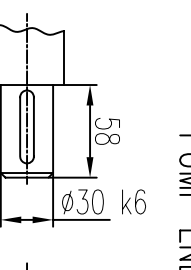
P.O. No.:	A315.760AME	SCALE:
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DEEP BLUE PUMP  **Energy Industries Engineering & Design Co.**

DRAWING TITLE:
Pump Outline Drawing for SOUR WATER SUMP PUMPS
01-160-P-1 A/B

DRAWING No.: BU-01-W-307-MA-DRW-1601-013 SHEET No. 1 OF 1

Outer Diameter Coupling (D)	Radial Displacement	Allow Tilt
D ≤ 200	< 0.05	< 0.2 / 1000
200 < D ≤ 300	< 0.08	< 0.3 / 1000
300 < D ≤ 400	< 0.1	< 0.4 / 1000
MAX. ALLOWABLE MISALIGNMENT(mm)		

LIFTING	EARTHING BOSS	PUMP END
		

Nozzle Allowable Force & Moment		
Fx	Fy	Fz
±1420	±1780	±1160
Discharge (l")		
Mx	My	M
±920	±460	±700
Moment(Nm)		

Minimum Clearance for impeller & casingwear ring 0.4~0.45mm	
Pump shaft information	
Name	Upper Shaft Middle Shaft Lower Shaft
Length(mm)	1805 1540 816
Quantity	1 2 1

Remark:
1. Moment of inertia: 0.03 kgm2