

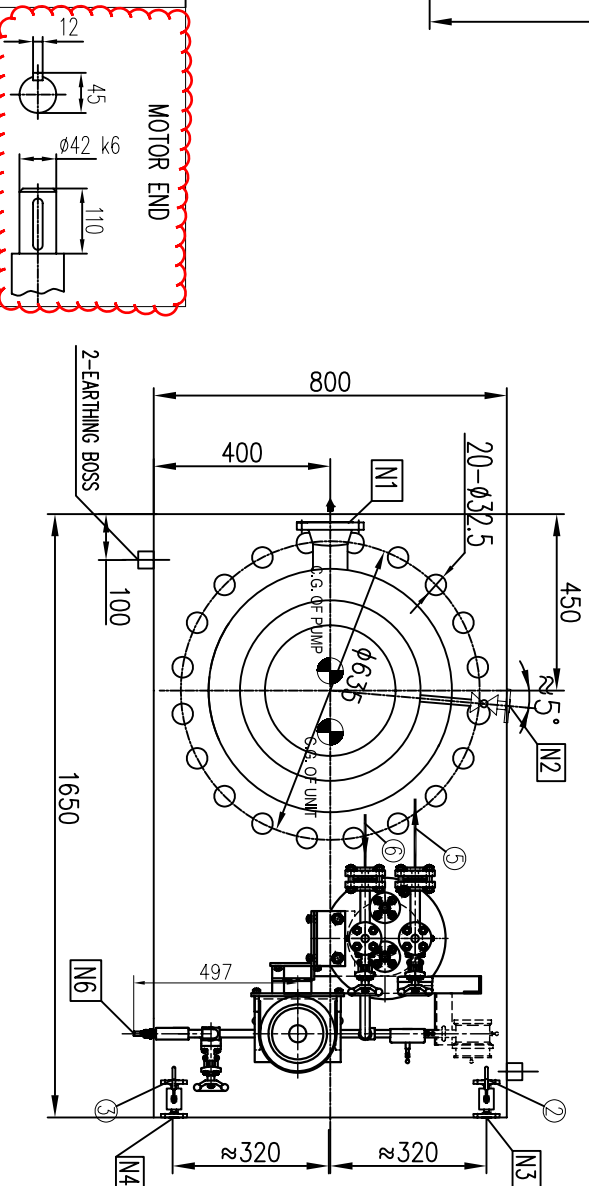
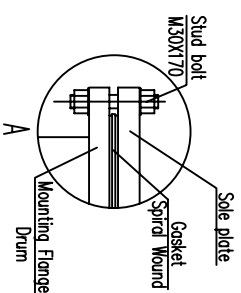
PROCESS CONNECTIONS			
Code	Description	Size & Rating	Remark
N1	Pump Discharge Flange	3", ASME B16.5 300LB RF	
N2	Seal Vent Flange	3/4", ASME B16.5 300LB RF	Flange with ball valve
N3	Cooling Water Inlet	1", ASME B16.5 150LB RF	Flange with ball valve
N4	Cooling Water Outlet	1", ASME B16.5 150LB RF	Flange with ball valve
N5	Pan 53B vent	1/2", ASME B16.5 1500LB RF	Flange with gate val
N6	Pan 53B filling	1/2" NPT, Quick-Fittings	
N7	Pan 53B drain	1/2", ASME B16.5 1500LB RF	Flange with gate val

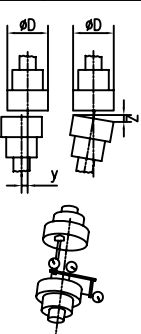
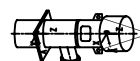
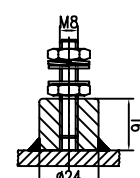
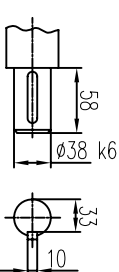
Pipeline Description

①	Seed vent pipe
②	Main cooling water inlet
③	Main cooling water outlet
④	Plan14 Flushing pipeline
⑤	Plan53B Flushing pipeline (to seed chamber)
⑥	Plan53B Flushing pipeline (from seed chamber)
⑦	Balance pipeline & Plan 14 return line

WEIGHT TABLE	
PUMP	1465 KG
MOTOR	167 KG
SEA SYSTEM	336 KG
BASEPLATE	180 KG
OTHERS	50 KG
TOTAL WEIGHT	2198 KG
ROTOR WEIGHT	174 KG
MAX. MAINTENANCE WEIGHT	310 KG

Static loading calculation results		Dynamic loading calculation results	
FStatic=1	3560 N	Fdynamic=1	134 N
FStatic=1	4440 N	Fdynamic=1	134 N
FStatic=1	-20467/26347 N	Fdynamic=1	0 N
MStatic=1	4833 N*m	Mdynamic=1	220 N*m
MStatic=1	2466 N*m	Mdynamic=1	220 N*m
MStatic=1	2932 N*m	Mdynamic=1	97/-97 N*m



	<p>LIFTING</p> 	<p>EARTHING BOSS</p> 	<p>PUMP END</p> 	<p>Outer Diameter Coupling (D)</p>		
				<p>Rigid Displacement</p>	<p>Avail Tilt</p>	
				<p>$D \leq 200$</p>	<p>< 0.05</p>	<p>$< 0.2 / 1000$</p>
				<p>$200 < D \leq 300$</p>	<p>< 0.08</p>	<p>$< 0.3 / 1000$</p>
				<p>$300 < D \leq 400$</p>	<p>< 0.1</p>	<p>$< 0.4 / 1000$</p>
<p>MAX. ALLOWABLE MISALIGNMENT(mm)</p>						

Name	Upper Shaft	Middle Shaft	Lower Shaft
Length(mm)	1575	1540/900	1344
Quantity	1	2	1

Pump shaft information

Minimum Clearance for impeller & casing wear ring 0.4~0.45 mm

Motor end


2-EARHING BOSS

Remark:
1. Moment of inertia: 0.15 kg.m²

PUMP INFORMATION	
Item No:	01-120-P-3
Service:	AGRU MAINLINE DRAINS PUMP
Model:	LD8 120-40/5-B-V
Serial Plant:	14+538
Motor:	15kW 1455RPM
Motor Critical Speed:	6700RPM

REFERENCE DRAWING	DWG. NO.
Seed System Drawing	BL-01-V0-307-4A-RN-1203-066
Motor outline Drawing	BL-01-V0-307-4A-RN-1203-098
Coupling Drawing	BL-01-V0-307-4A-RN-1203-034
Pump Data Sheet	BL-01-V0-307-4A-RN-1203-002

Note: 1. Pump rotation direction: CCW viewed from the drive-end.
2. Vessel item number is 01-120-V-7.
3. Vibration level complies to API610 requirement, table 8 and table 9.
4. Boltout and redted 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)
<p>The above checking result by EED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual</p>		
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>EIED BUSHEHR PROJECT</p> </div> <div style="text-align: center;"> <p>DATE : _____</p> <p>DEPT: _____</p> <p>Signature _____</p> </div> </div>		

4 November 2015

M.F.
CODE 1

02/29/08/15	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	APPD. BY	AUTH. BY

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



BUSHEHR PETROCHEMICAL COMPANY

P.O No.: A315.760AME

SCALE:

DEEP BLUE PUMP



Energy Industries
Engineering & Design Co.

DRAWING TITLE:

Pump Outline Drawing for AGRU AMINE DRAINS PUMP

01-120-P-3

DRAWING No.: BU-01-VD-307-MA-DRW-1203-002	SHEET No. 1 OF 1
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