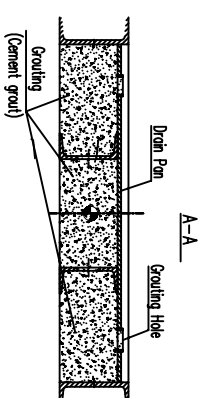
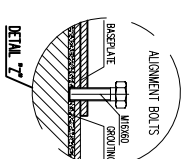
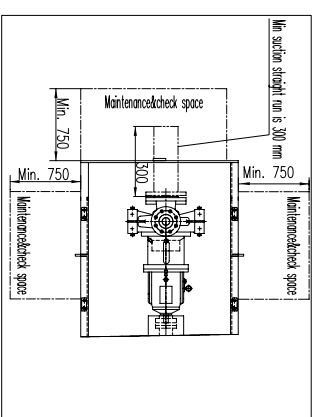


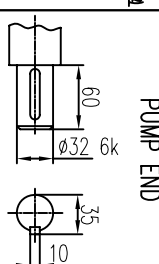
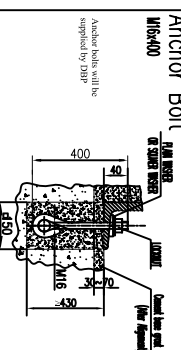
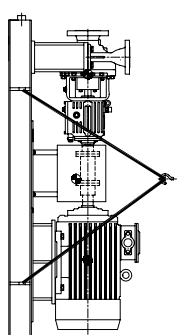
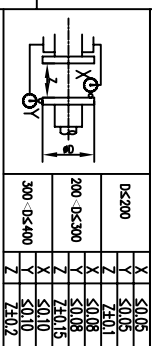
PROCESS CONNECTIONS			
Code	Description	Size & Rating	Remark
N1	Pump Suction Flange	4", ASME B16.5 300LB RF	
N2	Pump Discharge Flange	4", ASME B16.5 300LB RF	
N3	Pump Drain Flange	3/4", ASME B16.5 300LB RF	Flange with bolt washer
N4	Basepipe Drain	NPT 2"	
N5	Cooling Water Inlet Flange	1", ASME B16.5 150LB RF	Flange with bolt washer
N6	Cooling Water Outlet Flange	1", ASME B16.5 150LB RF	Flange with bolt washer
N7	Process Vent	1/2", ASME B16.5 150LB RF	Flange with gasket
N8	Process Filling	1/2" NPT Quick-Fittings	
N9	Process Drain	1/2", ASME B16.5 150LB RF	Flange with gasket and bolt washer
Pipeline Description			
①	Pump Drain		
②	Main cooling water inlet		
③	Main cooling water outlet		
④	Plant1 Flushing pipeline		
⑤	Plant53B Flushing pipeline (to seal chamber)		
⑥	Plant53B Flushing pipeline (from seal chamber)		



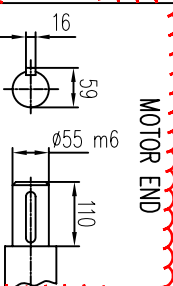
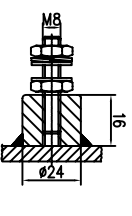
WEIGHT TABLE	
PUMP	156 KG
MOTOR	294 KG
SEAL SYSTEM	336 KG
BASEPLATE	292 KG
OTHERS	50 KG
TOTAL WEIGHT	1128 KG
ROTOR WEIGHT	21.7 KG
MAX. MAINTENANCE WEIGHT	83.3 KG



Remark:  
1. Moment of inertia: 0.082 kg.m<sup>2</sup>



DISCHARGE	4"	±2840	±2320	±3560	±2660	±1360	±20000
	inch	Fx	Fy	Fz	Mx	My	Mz
	DN	force (N)					
	4"	±3560	±2840	±2320	±2660	±1360	±20000
SUCTION	inch	Fx	Fy	Fz	Mx	My	Mz
	DN	force (N)					
		Moment(lb)					



Static loading calculation results	
FStatic=1	6400 N
FStatic=1	5160 N
FStatic=1	-3469/15229 N
MStatic=1	8475 N*m
MStatic=1	11226/9841 N*m
MStatic=1	7565 N*m

Dynamic loading calculation results	
F $\chi$ dynamic=1	0 N
F $\gamma$ dynamic=1	54 N
F $\zeta$ dynamic=1	54 N
M $\chi$ dynamic=1	98/-45 N*m
M $\gamma$ dynamic=1	32 N*m
M $\zeta$ dynamic=1	32 N*m


PUMP INFORMATION	
Item No:	07-120-P-4
Service:	AMINE MAKE-UP PUMP
Model:	EAP 100K2-200-9
Seal Plant:	11+5.3B
Motor:	22KW-290RPM
Motor Critical Speed:	5300RPM

REFERENCE DRAWING	DWG NO.
Seal System Drawing	BL-01-10-307-MA-DRW-1204-067
Motor outline Drawing	BL-01-10-307-MA-DRW-1204-099
Coupling Drawing	BL-01-10-307-MA-DRW-1204-035
Pump data sheet	BL-01-10-307-MA-DSH-1204-003

1. The pump is self vent.
2. Rotation: Clockwise viewed from drive-end.
3. Vibration level complies to API610 requirement, table 8 and table 9.

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 EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing</p>
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 <p><b>EIED</b> <b>BUSHKAR PROJECT</b></p>	<p>DATE</p> <p>DEPT:</p> <p>Signat</p>
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**4 November 2015**  
**MA**  
**M.F.**  
**CODE 1**

02	29/06/15	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	CHND. BY	APPD. BY	AUTH. BY

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



BUSHEHR PETROCHEMICAL COMPANY

P.O No.:	A315.760AME
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SCALE:

**DEEP BLUE PUMP**



Energy Industries  
Engineering & Design Co.

DRAWMING TIT

## Pump Outline Drawing for AMINE MAKE-UP PUMP

01-120-P-4

DRAWING No.: BU-01-VD-307-MA-DRW-1204-003	SHEET No. 1 OF 1
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