


PROCESS CONNECTIONS			
Code	Description	Size & Rating	Remark
N1	Pump Suction Flange	8", ASME B16.5 300LB RF	
N2	Pump Discharge Flange	8", ASME B16.5 300LB RF	
N3	Pump Drain Flange	3/4", ASME B16.5 300LB RF	Flange with ball valve
N4	Baseplate Drain	NPT 2"	
N5	Cooling Water Inlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
N6	Cooling Water Outlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
N7	Plan53B Vent	1/2", ASME B16.5 1500LB RF	Flange with gate valve
N8	Plan53B Filling	1/2" NPT, Quick Fittings	
N9	Plan53B Drain	1/2", ASME B16.5 1500LB RF	Flange with gate valve

Pipeline Description	
①	Pump Drain
②	Main cooling water inlet
③	Main cooling water outlet
④	Plan11 Flushing pipeline
⑤	Plan53B Flushing pipeline (to seal chamber)
⑥	Plan53B Flushing pipeline (from seal chamber)



PUMP INFORMATION	
Item No:	01-130-P-1 A/B
Service:	QUENCH SOUR WATER PUMPS
Model:	EAP 200K4-500-9
Seal Plan:	11+53B
Motor:	110KW-1485RPM
Motor Critical Speed:	3800RPM

REFERENCE DRAWING	DWG NO.
Seal System Drawing	BU-01-VD-307-MA-DRW-1301-069
Motor outline Drawing	BU-01-VD-307-MA-DRW-1301-101
Coupling Drawing	BU-01-VD-307-MA-DRW-1301-037
Pump data sheet	BU-01-VD-307-MA-DSH-1301-005

- Note:
- 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)
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	
 EIED BUSHEHR PROJECT	DATE: 28 November 2015 DEPT: MA M.F. CODE 1 Signature: _____

04	7/11/15	FOR APPROVAL	Eric	Andy	Tino	AAP
03	13/10/15	FOR APPROVAL	Eric	Andy	Tino	AAP
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

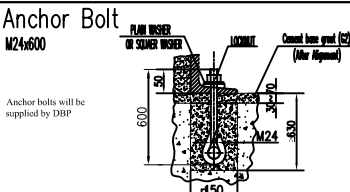
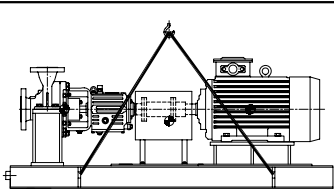
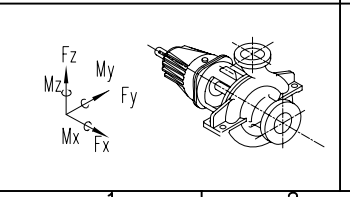
Gas Sweetening, Sulphur Recovery, C2 Recovery, Fractionation and Inter Connection Pipeline Between Plants Project		 BUSHEHR PETROCHEMICAL COMPANY
P.O No.: A315.760AME		SCALE:
DEEP BLUE PUMP	 EIED	Energy Industries Engineering & Design Co.
DRAWING TITLE: Pump Outline Drawing for QUENCH SOUR WATER PUMPS 01-130-P-1 A/B		
DRAWING No.: BU-01-VD-307-MA-DRW-1301-005		SHEET No. 1 OF 1

Remark:  
1. Moment of inertia: 2.69 kg.m2

Static loading calculation results		
FXStatic=±	17340	N
FYStatic=±	13780	N
FZStatic=±	-10183/42183	N
MXStatic=±	26160	N*m
MYStatic=±	41561/36229	N*m
MZStatic=±	25414	N*m

Dynamic loading calculation results		
FXdynamic=±	0	N
FYdynamic=±	147	N
FZdynamic=±	147	N
MXdynamic=±	817/-632	N*m
MYdynamic=±	140	N*m
MZdynamic=±	140	N*m

MAX. ALLOWABLE MISALIGNMENT(mm)	
D≤200	X ≤0.05 Y ≤0.05 Z ±0.1
200 < D ≤300	X ≤0.08 Y ≤0.08 Z ±0.15
300 < D ≤400	X ≤0.10 Y ≤0.10 Z ±0.2



Nozzle Allowable Force & Moment	
DISCHARGE	8" ±7560 ±6220 ±9780 ±7060 ±3520 ±5160 inch Fx Fy Fz Mx My Mz DN Force (N) Moment(Nm)
SUCTION	8" ±9780 ±7560 ±6220 ±7060 ±3520 ±5160 inch Fx Fy Fz Mx My Mz DN Force (N) Moment(Nm)

