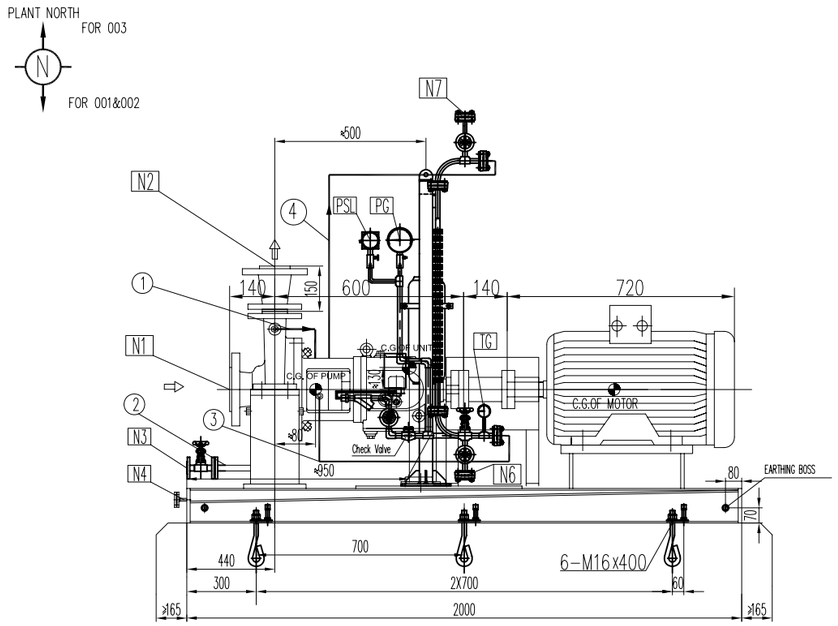
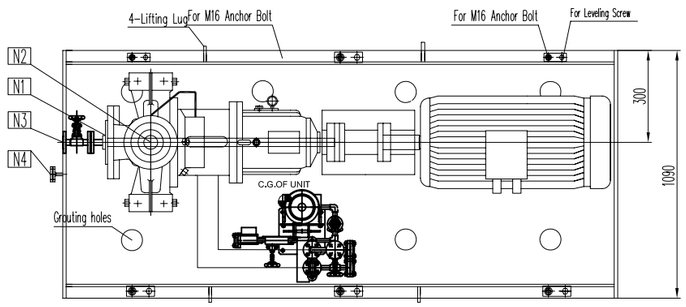
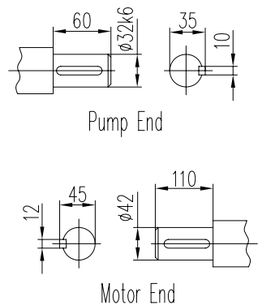
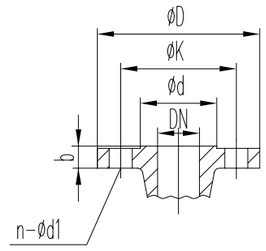








PROCESS CONNECTIONS			
Code	Size & Rating	Description	Remark
N1	2"-ANSI 300Lb-RF	Pump Suction	
N2	1 1/2"-ANSI 300Lb-RF	Pump Discharge	
N3	3/4"-ANSI 300Lb-RF	Pump Drain	Flange With valve
N4	1"-ANSI 150lb-RF	Baseplate Drain	With blind flange
N5	M14*1.5	Nitrogen connection	
N6	3/4"-ANSI 300Lb-RF	53B system drain	Flange With valve
N7	1/2"-ANSI 300Lb-RF	53B system vent	Flange With valve

Pipeline Description
① Plan 11 Flushing Pipe
② Pump Drain Pipe
③ Pipe for barrier fluid to seal
④ Pipe for barrier fluid from seal

Note:
1. Pump is self-vent.
2. Discharge size is from 1 1/4" 300LB to 1 1/2" 300LB with adaptor flange
3. Nitrogen bottle will be used for charging bladder accumulator
4. Nitrogen charging kit will be provided by DBP.

4

Code1	☐	(Approved) Vendor to submit "For Final (No comment & release for manufacturing)
Code2	☐	(Approved with comments) Vendor shall correct / revise & submit it as "For Final" (Released for manufacturing if change incorporated as indicated)
Code3	☐	(Commented) : Vendor shall correct / revise & resubmit . It as " For Approval" of the date specified : (Corrected documents to be
Code4	☐	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

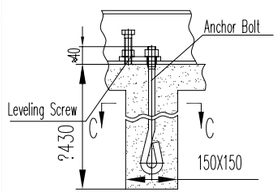
EIED
WEST KAROON PROJECT

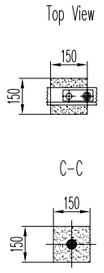
DATE :
DEPT:
Signature :

Only for internal review

CV	PI	EL	IN	ME	MA
CS	CA	PR	SA	HV	TL

Anchor Bolt
Manufacture: Deep Blue Pump Co.
Size: M16X400
Material: A193 B7





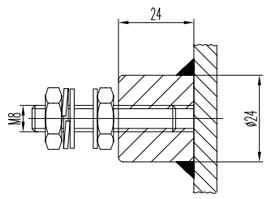
Rotary Parts:

Pump rotary parts:
Mass: 20.8 kg, Speed: 2930 rpm

Motor rotary parts:
Mass: 45 kg, Speed: 2930 rpm

Maximum Allowable Amplitude For Foundation:
Velocity Peak-Peak: 4 mm/s
Displacement Peak-Peak: 25.4 μm

EARTHING BOSS



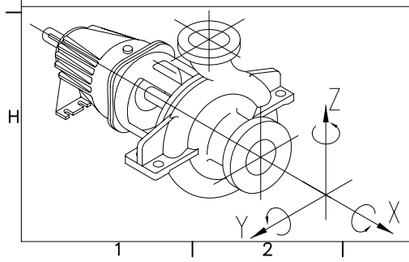
186	200	124	250	760	100
Pump	Baseplate	Motor	Seal System	All	Maintenance weight

Weight(kg)

Drain	ANSI B16.5 300lb RF	3/4"	117.3	15.7	82.5	42.9	4-Ø18
Discharge	ANSI B16.5 300lb RF	1 1/2"	155.4	20.5	114.3	73	4-Ø22
Suction	ANSI B16.5 300lb RF	2"	165	22.3	127	92	8-Ø18
Name	Standard	DN	ØD	b	ØK	Ød	n-Ød1

Flange Size

Consumer: NIOC	Capa.:	20	m³/h	DRIVER	
Designer:	Head:	60	m	Motor Type: EXD IIB T4	
Project: WEST KAROON OIL FIELDS EARLY PRODUCTION UNIT Arvandan Refinery Plant	Temp.:	84/90	°C	VOLTS/PHASE/HERTZ: 400V/3PH/50HZ	
Plant:	Speed:	2930	r/min		
Item No.: 0211-PA-001/002/003 A/B	Power:	15	kW	MECH.SEAL	
Service: RECYCLE WATER PUMPS	Motor Type:	YB3 160		API flushing plan: 11+53B(Air fin cooler)	
Project Information	Base Information				



DISCHARGE	1 1/2"	±1420	±1160	±1780	±920	±460	±700
		Fx	Fy	Fz	Mx	My	Mz
	DN	Force (N)			Moment(Nm)		
SUCTION	2"	±1780	±1420	±1160	±920	±460	±700
		Fx	Fy	Fz	Mx	My	Mz
	DN	Force (N)			Moment(Nm)		

Nozzle Allowable Force & Moment

DEEP BLUE PUMP CO. | APIFLO-P 32K2-250A | General Arrangement

REV.	DATE	DESCRIPTION	ORIG. BY	PREP. BY	CHKD. BY	APPD. BY	AUTH. BY
4	26-Nov-2013	FOR APPROVAL		Will	Andy	Ryan	
3	6-Nov-2013	FOR APPROVAL		Will	Andy	Ryan	
2	26-Sep-2013	FOR APPROVAL		Will	Andy	Ryan	
1	2-Sep-2013	FOR APPROVAL		Will	Andy	Ryan	
0	20-Aug-2013	FOR APPROVAL		Will	Andy	Ryan	

West Karoon Oil Fields
Early Production Units
(Arvandan)

AOGC
ARVANDAN OIL AND GAS COMPANY

P.O. No.: | STAGE: | SCALE:

DEEP BLUE PUMP CO. | MAYSAN Engineering & Construction Company | EIED | Energy Development Pioneer Co.

DRAWING TITLE:

General drawing for RECYCLE WATER PUMPS
(0211-PA-001/002/003 A/B)

DRAWING No.: VD-AOGC-GA-GEN-5001-0029 | SHEET No. 1 OF 1 | REV. 04