General Arrangement Drawing
For AMINE BOOSTER PUMPS
116-P-122/222 A/B

OIEC

N I O C

EQUIPMENT NAME: AMINE BOOSTER PUMPS   **116-P-122/222 A/B**

DOCUMENT TITLE: **General Arrangement Drawing**

Code1	☒ (Approved) Vendor to submits " For Final" (No comment & release for manufacturing)
Code2	☐ (Approved with comments) : Vendor shall correct / revise & resubmit 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 resubmitted before starting manufacturing)
Code4	☐ Not Acceptable quality (Reject)

The above checking result by OIEC shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing

OIEC – SP20 &21	Date:	10.June.2014
	Dept:	Machinery
	Signature:	A.Shahderian

Only for internal review

CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	HV	TL

REV.	DATE	DESCRIPTION	PRE'D	CHK'D	APP'D
05	may,08,14	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
04	feb,11,14	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
03	Nov,28,13	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
02	Aug,24,13	ISSUED FOR APPROVAL	A.Na	S.Ta	A.Ar
01	Oct,04,12	ISSUED FOR APPROVAL	G.Z	G.Z	A.Ar
00	Agu,12,12	ISSUED FOR APPROVAL	S.T/S.G	A.Ar	A.Al

SOUTH PARS GAS FIELD DEVELOPMENT (PHASES 20&21), ASSALUYEH, IRAN ONSHORE FACILITIES	CONTRACT NO.: POGC 572-88-35
	REQ'N NO.: MR-SP2021-ON-MA-0910-0006

I.I.P. Group
IRAN INDUSTRIAL PUMPS

ITEM NO.: 116-P-122/222 A/B

DOCUMENT NO.: VP-SP2021-ON-MA-116-P122 -0002

General Arrangement Drawing
For   AMINE BOOSTER PUMPS
116-P-122/222 A/B

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Page	Rev 0	Rev 1	Rev 2	Rev 3	Rev 4	Page	Rev 5	Rev 6	Rev 7	Rev 8	Rev 9
1.	X	X	X	X	X	1.	X				
2.	X	X	X	X	X	2.	X				
3.	X	X	X	X	X	3.	X				
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I.I.P. Group
IRAN INDUSTRIAL PUMPS

REFERENCE DRAWINGS

DESCRIPTION	DWG. No.
PUMP DATA SHEETS	VP-SP2021-ON-MA-116-P122-0001
SECTIONAL DRAWING	VP-SP2021-ON-MA-116-P122-0004
Mechanical seal Drawing & BOM	VP-SP2021-ON-MA-116-P122-0005
Coupling Drawing & BOM	VP-SP2021-ON-MA-116-P122-0006
ELECTRICAL MOTOR DATA SHEET	VP-SP2021-ON-MA-116-P122-0007
ELECTRICAL MOTOR OUTLINE DRAWING	VP-SP2021-ON-MA-116-P122-0008
SEAL PLAN DWG and P&ID	VP-SP2021-ON-MA-116-P122-0020

ANCHOR BOLT

API PLAN 11/53A

LIFTING LUG

LEVELING SCREW

EARTHING BOSS

Max. MISSALIGNMENT

		0.5 (degree)			
	N	API 610		Nm	

FOUNDATION LOADS (approx. weight)

PUMP :	250 kg
BASE & COUPLING & SEALING SYSTEM :	825 kg
MOTOR :	143 kg
TOTAL :	1218 kg

Dynamic loads are negligible

		FORCE			MOMENTS	
	2 (mm)	Fx	Fy	Fz	Mx	My	Mz
	0.6 (mm)	API 610			API 610		
DISCHARGE :		4980	4100	4980	4600	2360	3520	6260
SUCTION :		6220	4100	8960	4600	2360	3520	6260

VIBRATION LEVEL

Alarm : V(RMS) > 3 mm/sec
Trip : V(RMS) > 3.9 mm/sec

PUMP NOZZLES: ANSI B16.5

NOTE:
1-All changes in this Revision has been marked by a cloud.
2-Since this pump is self-vented so no vent connection is needed.
3-Distance between each anchor bolt and level screw is 100mm.
4-For details of sealing system refer to "VP-SP2021-ON-MA-116-P122-0020"

CENTER OF GRAVITY

		(mm)
PUMP	X	507
	Y	2
	Z	538
DRIVER	X	1423
	Y	0
	Z	542
BASE & COUPL. & SEALING SYS.	X	904
	Y	-58
	Z	362
TOTAL	X	902
	Y	-47
	Z	394

ELECTRICAL MOTOR

ELMOTOR :	WEG	PHASE :	3
FRAME :	160 M	VOLTAGE :	400
KW :	7.5 kw	Hz :	50
ENCL :	EExd	Synchronous Speed :	1500 rpm

COUPLING

COUPLING MANUFACTURER: UNIQUE
TYPE : BOX SPL 100 - 180

Please recheck the dimension based on the centerline of the N7 flange in final issue.

SOUTH PARS GAS FIELD DEVELOPMENT
PHASES 20&21
ASSALUYEH ONSHORE FACILITIES

REV.	DATE	DESCRIPTION	ORIG.	PREP.	CHKD.	APPL.
05	may.08.14	Issued for Approval	I.I.P	S.Ta	S.Ta	OIEC
04	feb.10.14	Issued for Approval	I.I.P	S.Ta	A.Ar	OIEC
03	Nov.28.13	Issued for Approval	I.I.P	S.Ta	A.Ar	OIEC
02	Aug.21.13	Issued for Approval	I.I.P	A.Na	S.Ta	OIEC
01	Oct.30.12	Issued for Approval	I.I.P	G.Z	A.Na	OIEC
00	Aug.05.12	Issued for Approval	I.I.P	G.Z	A.Ar	OIEC

PROJECT No.: POGC-572-B8-35   DOC.CLASS: 01

I.I.P GROUP
IRAN INDUSTRIAL PUMPS CO.

NIOC
PARS OIL AND GAS COMPANY

OIEC

SCALE : none

Vendor: Purchaser:

Document Title: GENERAL ARRANGEMENT DRAWING For AMINE BOOSTER PUMPS
116-P-122/222 A/B

DRAWING No.: VP-SP2021-ON-MA-116-P122-0001

Pump Type: PC-OH 150-200

SHEET No. 3 OF 3   REV. 05