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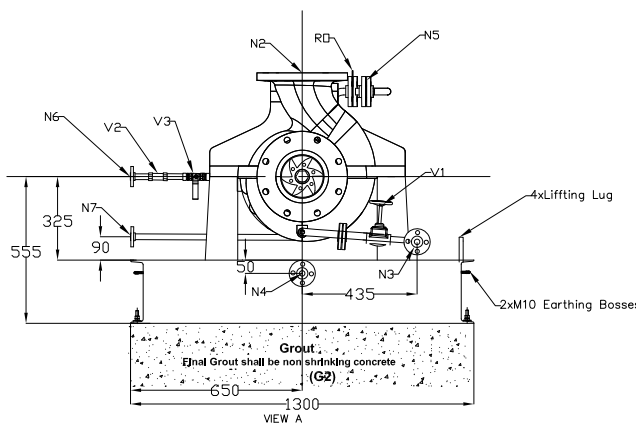
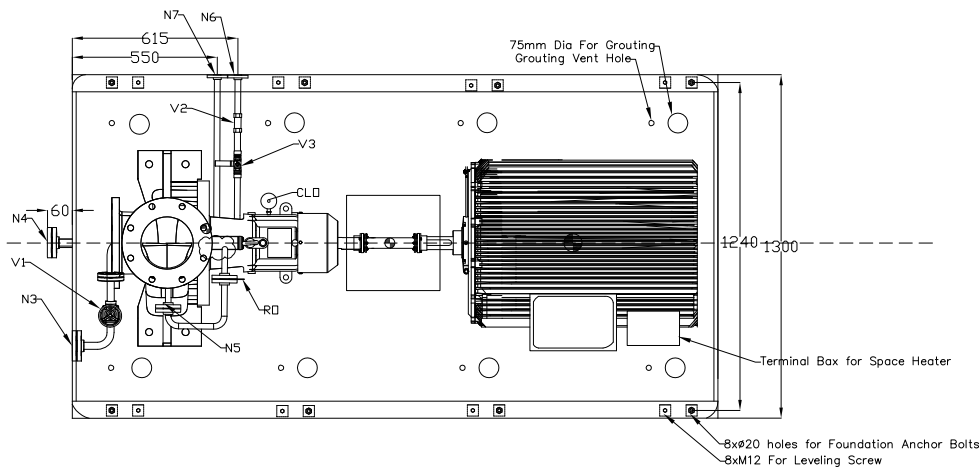
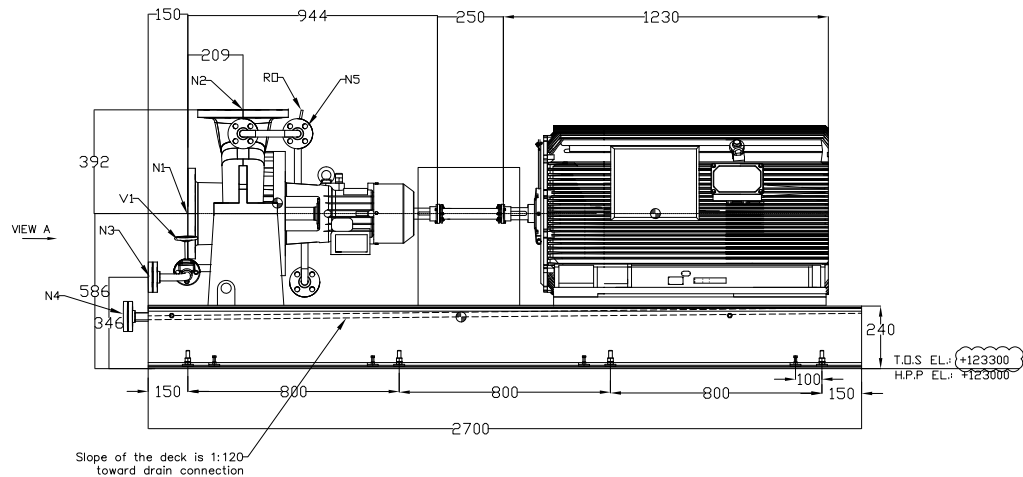
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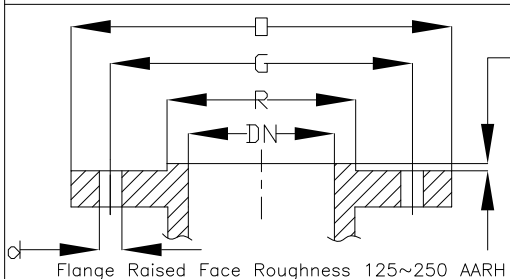


POS.	Q.	NPS	CONN. TYPE	DESCRIPTION	O (mm)	G (mm)	No. of holes	hole Ø (mm)	raised R (mm)	face S (mm)
N1	1	8"	ASME B16.5 # 300 RF	Suction Flange	381	330.2	12	25.4	269.9	1.6
N2	1	8"	ASME B16.5 # 300 RF	Discharge Flange	381	330.2	12	25.4	269.9	1.6
N3	1	3/4"	ASME B16.5 # 300 RF	Pump Drain Blind Flange	117	82.6	4	19	42.9	1.6
N4	1	2"	ASME B16.5 # 150 RF	Base Plate Drain Blind Flange	152	120.6	4	19	92.1	1.6
N5	1	1/2"	ASME B16.5 # 300 RF	Sealing System Flange(By Vendor)	95	66.7	4	15.8	34.9	1.6
N6	1	1/2"	ASME B16.5 # 300 RF	Sealing System Flange Inlet(CW)	95	66.7	4	15.8	34.9	1.6
N7	1	1/2"	ASME B16.5 # 300 RF	Sealing System Flange Outlet	95	66.7	4	15.8	34.9	1.6
V1	1	3/4"	Gate Valve # 800	Pump Drain Valve(By Vendor)						
V2	1	1/2"	Check Valve # 800(By Vendor)							
V3	1	1/2"	Ball Valve # 800(By Vendor)							
CLO	1		CLO	Constant level oiler(By Vendor)						

VIBRATION LEVEL (ISO 2372)  
Alarm :  $V(RMS) > 3 \text{ mm/sec}$   
Trip :  $V(RMS) > 4.5 \text{ mm/sec}$

Max.MISSALIGNMENT		
AXIAL 1.5 (mm)	RADIAL 1.2 (mm)	ANGULAR 0.5 (degree)

PUMP NOZZLES: ASME B16.5



Flange Raised Face Roughness 125~250 AARH

ELECTRICAL MOTOR	
MODEL : Schorch	PHASE : 3
FRAME : 315	VOLTAGE : 400
KW : 110	Hz : 50
RPM : 3000	

Pump Type: IOH2-200-250  
Sealing System Plan: 11-62

COUPLING & Coupling Guard  
COUPLING MANUFACTURER: IIP Group  
MODEL : Flexible Spacer Type

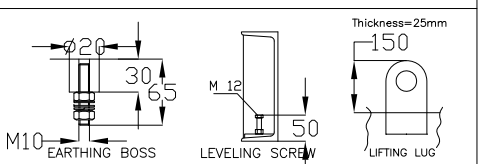
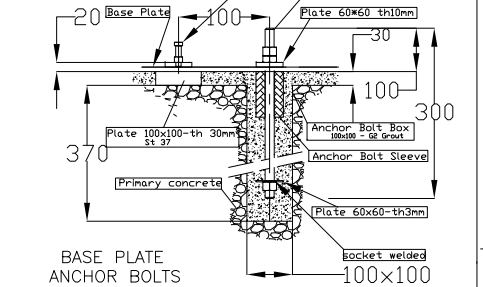
CENTER OF GRAVITY ( mm )

	PUMP	X	54
		Y	489
		Z	626
		X	0
	DRIVER	Y	1895
		Z	586
		X	0
		Y	1184
	BASE	Z	196
		X	4.8
		Y	1392.3
		Z	383.2
	TOTAL	X	
		Y	
		Z	

REFERENCE DOCUMENTS	DOC. NO.
Pump Data Sheet and Performance Curve for 40-P-821A/B	VP-40-000-MA-0011-0050
Pump cross sectional drawing and Part list for 40-P-821A/B	VP-40-000-MA-0011-0122
Coupling Drawing for 40-P-821A/B	VP-40-000-MA-0011-0158
Motor data sheet for 40-P-821A/B	VP-40-000-MA-0011-0194
Motor outline drawing for 40-P-821A/B	VP-40-000-MA-0011-0286
Pump P&ID for 40-P-821A/B	VP-40-000-MA-0011-0302

NOTE  
1-All Dimension are mm.  
2-Coupling guard is Aluminium.  
3-Material of base plate is st37 & bolt A193 Gr B7 and nut A194 Gr 2H.  
4-Maintenance Area is 2m from Motor end and 1m from other sides.  
5-All Dimension Clearances are according to ISO 286-1.

-Bolt material shall conform to specification ASTM A193 Grade B7 (anchor bolts shall be partly hot dip galvanized in thread length plus 100mm length embedded into concrete).  
-Anchor bolt and nut will be supplied by IIP  
-All nuts&washers shall be hot dip galvanized according to ASTM A153  
-Grout thickness 30mm  
-Grout thickness 30mm



NOZZLE LOADS	
FORCE	MOMENTS
N 2XAPI 610	Nm 2XAPI 610
Fx Fy Fz Fe Fv Fw	Mx My Mz Mw
SUCTION : 9780 7560 6220 13840 7060 3520	5160 9420
DISCHARGE : 7560 6220 9780 13840 7060 3520	5160 9420




FOUNDATION LOADS (approx. weight)	
PUMP :	170 Kg
MOTOR :	1070 Kg
BASE PLATE&SEALING SYSTEM :	1000 Kg
TOTAL :	2240 Kg

Code1	Approved: No comment and the document is released for Manufacturing.
Code2	Approved with Minor comment: Vendor shall correct, revise and resubmit the document. The document can be released for Manufacturing if changes incorporated.
Code3	Commented: Vendor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing.
Code4	Not Accepted (Rejected): Vendor shall re-work/re-design/re-specify the contents of the documents according to the comments/ reasons for rejection. All corrected documents shall be resubmitted before starting the Manufacturing process. In this case vendor shall not proceed with subsequent work until receiving code 1 or code 2 or no code from CONSULTANT / OWNER / MC. VENDOR shall resubmit the documents with the same revision within (10) working days(including transmission/mailing time) after receiving the commented documents from CONSULTANT / OWNER / MC.
No Code	No Code/ Only for "FOR INFORMATION" documents and "As-Built DWGs" Document has been submitted for CONSULTANT / OWNER / MC's information(FI) consistency, completeness and correctness of documents content is in VENDOR/EPC contractor responsibility.

Above checking results 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	DATE :	24.2.2022				
	DEPT. :	MA				
	Signature :	S.Razani				
	Only for internal review					
CV	PI	EL	IN	ME	MA	
ST	AR	PR	SA	HV	TL	

04	13.Feb.2022	R	Issue for Approval	A.K	M.B	A.N	GH.P
03	03.Nov.2021	R	Issue for Approval	A.K	M.B	A.N	GH.P
02	23.Sep.2021	R	Issue for Approval	A.K	M.B	A.N	GH.P
01	06.Sep.2021	R	Issue for Approval	A.K	S.G	A.N	GH.P
00	08.August.2021	F	Issue for Approval	A.K	S.G	A.N	GH.P
REV.	DATE	STATUS	PURPOSE OF ISSUE	PREP.	CHKD.	APPD.	AUTH.

		Soroush Mahestan Asaloyeh Company HDPE Project				
		P.O DESCRIPTION: Centrifugal pumps				
Contract No. SMAC-11-19/Box		P.O No. KP-40-000-PS-MA-P0-0011			SCALE: None	
DRAWING TITLE:		General Arrangement Drawing for 40-P-821A/B				
DRAWING NO.		VP-40-000-MA-0011-0086		REV.	SHEET No.	SIZE
				04	1 OF 1	A3