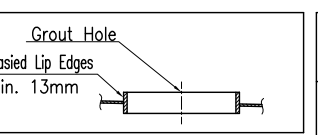
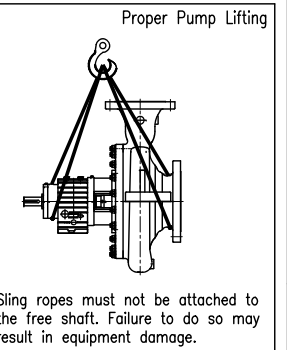


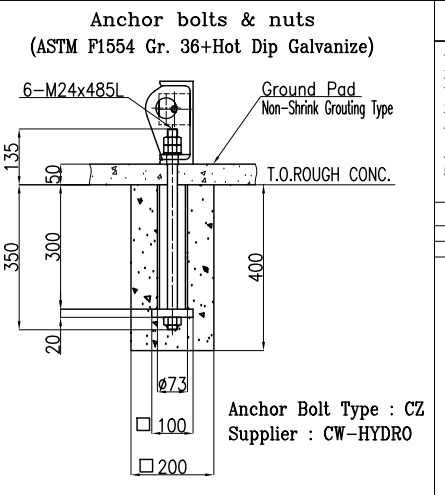
PUMP				MOTOR			
MODEL	CAPACITY (m ³ /hr)	HEAD (m)	REVOLUTION (RPM)	FRAME	POWER (KW)	VOLT (V)	POLE (P)
HB 80x50-315H	88	99.6	2960	200L	30	400	2

WEIGHT UNIT : Kg					WEIGHT	
	PUMP	MOTOR	BASE PLATE	53B SYSTEM	TOTAL	
STATIC	400	300	630	185	1515	PUMP ROTOR
DYNAMIC	480	300	630	222	1632	MOTOR ROTOR
						55 kg 90 kg

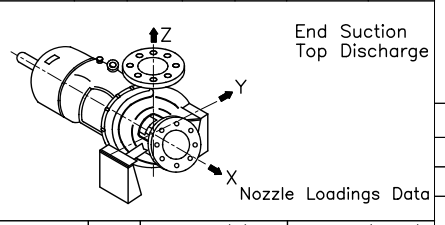
Tie-in Point List	
TP10	N2 Charging 5/8" UNF
TP9	Sealing System Vent 3/4, ANSI CL 300 R.F, BL
TP8	Sealing System Drain 3/4, ANSI CL 300 R.F
TP7	Sealing System Filling 3/4, ANSI CL 300 R.F
TP6	Base Plate Drain NPT 1"
TP5	Cooling Water Outlet 3/4", ANSI CL 150 R.F
TP4	Cooling Water Inlet 3/4", ANSI CL 150 R.F
TP3	Pump Casing Drain 1/2", ANSI CL 300 R.F
TP2	Pump Discharge 2", ANSI CL 300 R.F
TP1	Pump Suction 3", ANSI CL 300 R.F
No.	Specification



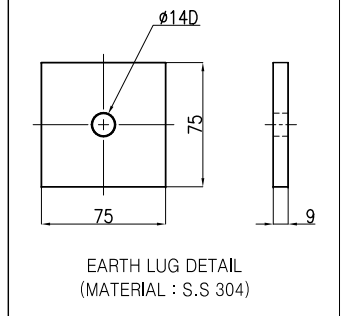
20-FI-141804A/B	FLOW INDICATOR [COOLER COOLING WATER OUTLET LINE]
20-PIT-141804A/B	PRESURE TRANSMITTER [SEALING SYSTEM (PLAN #53B)]
20-TIT-141804A/B	TEMPERATURE TRANSMITTER [SEALING SYSTEM (PLAN #53B)]
20-PG-141804A/B	PRESSURE GAUGE [SEALING SYSTEM (PLAN #53B)]
20-TG-141804A/B	TEMPERATURE GAUGE [SEALING SYSTEM (PLAN #53B)]



Flange Rating ANSI B16.5 300LB (RF)						
Rating	Ød	Øg	ØD	ØC	Q-ØH	t
Suction	80	127	210	168.3	8-Ø23	29
Discharge	50	91.9	165	127	8-Ø20	22.5



Nozzle	Size (Ø)	Force(N)			Moment(N-m)		
		Fx	Fy	Fz	Mx	My	Mz
Suction	80	2660	2140	1780	1900	940	1440
Discharge	50	1420	1160	1780	920	460	700



- NOTE
- Permissible amplitude of vibration : 3.2 mm/s (r.m.s)
 - Mass moment of inertia of machine
 - Pump rotor : 1.4 kgm
 - Motor rotor : 0.168 kgm
 - Dynamic load generated by machine due to unbalanced rotor's mass : 42.6 kgf
 - Max. maintenance weight : 400 kg
 - The shape of the aux. piping shown in the GA drawing may be different from that of the aux. pip

REFERENCE DOCUMENTS	DOC. NO.

LEGEND	
DES.	
SYMBOL	

EQUIPMENT LIST	

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 "To 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 reaching 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(excluding transmission/travelling time) after reaching the commented documents from CONSULTANT / OWNER / MC.

No Code ☐ No Code/ Only for "FOR INFORMATION" documents and "As-Built Drawn" 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.

DATE : 20.Jun.2021

DEPT. : MA

Signature : D. M.

Only for Internal review

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

05	08/06/2021	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
04	31/05/2021	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
03	09/08/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
02	31/01/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
01	07/01/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
00	13/03/2020	F	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
REV.	DATE	STATUS	PURPOSE OF ISSUE	PREP.	CHKD.	APPD.	AUTH.

EIED Kangan Olefin Project

Centrifugal Pumps & Special Pumps

Contract No. 0000-00-0000

P.O. No. KP-20-00-PS-MA-PO-0001

SCALE: N/S

DRAWING TITLE: General arrangement drawing for 20-P-1403 A/B

DRAWING NO. VP-20-00-MA-0001-1805

REV. 05

SHEET No. 1 of 1

SIZE A3