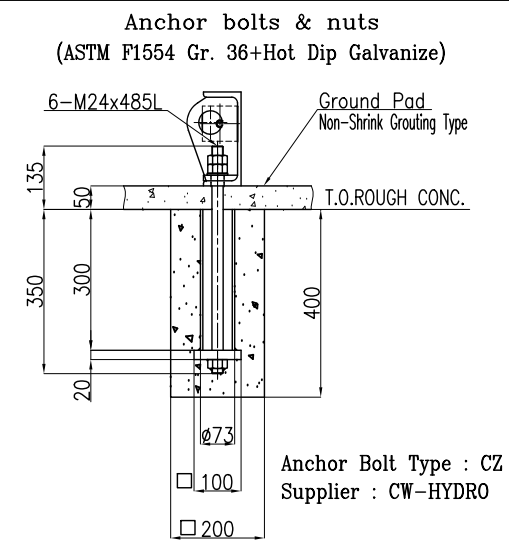
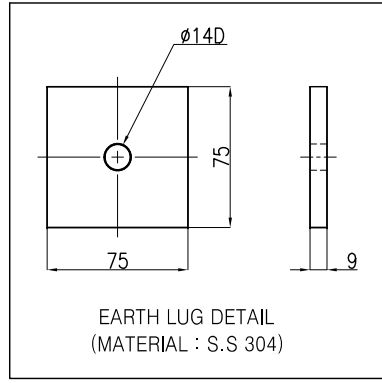
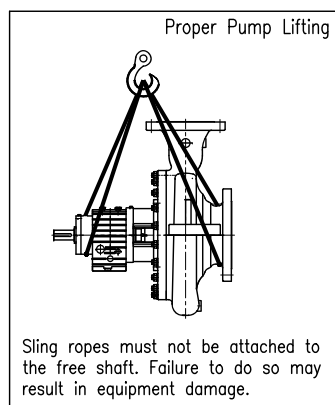


PUMP					MOTOR			
MODEL	CAPACITY (m ³ /hr)	HEAD (m)	REVOLUTION (RPM)		FRAME	POWER (KW)	VOLT (V)	POLE (P)
HB 50x40-160RH	8	21	2840		112	3.7	400	2

WEIGHT					UNIT : kg			
	PUMP	MOTOR	BASE PLATE	53B SYSTEM	TOTAL			
STATIC	195	80	530	150	955			
DYNAMIC	234	80	530	180	1024			

Tie-in Point List		
No.	Tie-in Point	Specification
TP10	N2 Charging	5/8" UNF
TP9	Sealing System Vent	3/4", ANSI CL 600 R.F
TP8	Sealing System Drain	3/4", ANSI CL 600 R.F
TP7	Sealing System Filling	3/4", ANSI CL 600 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	1 1/2", ANSI CL 300 R.F
TP1	Pump Suction	2", ANSI CL 300 R.F



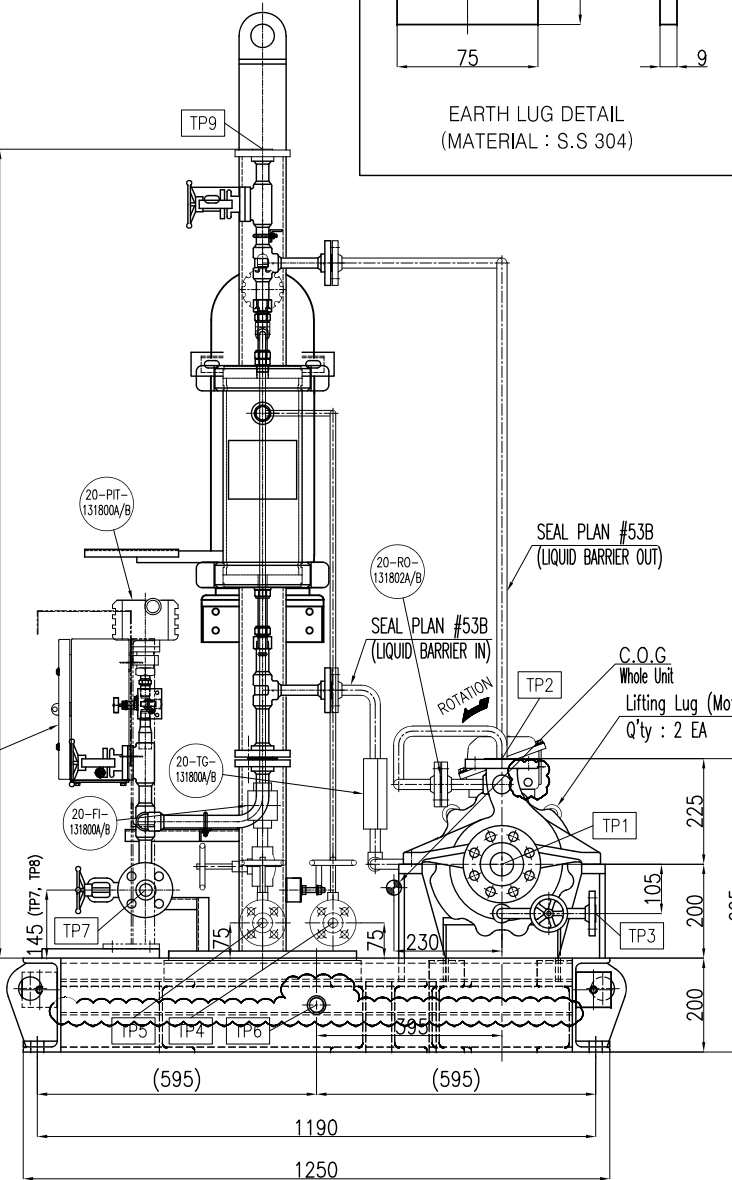
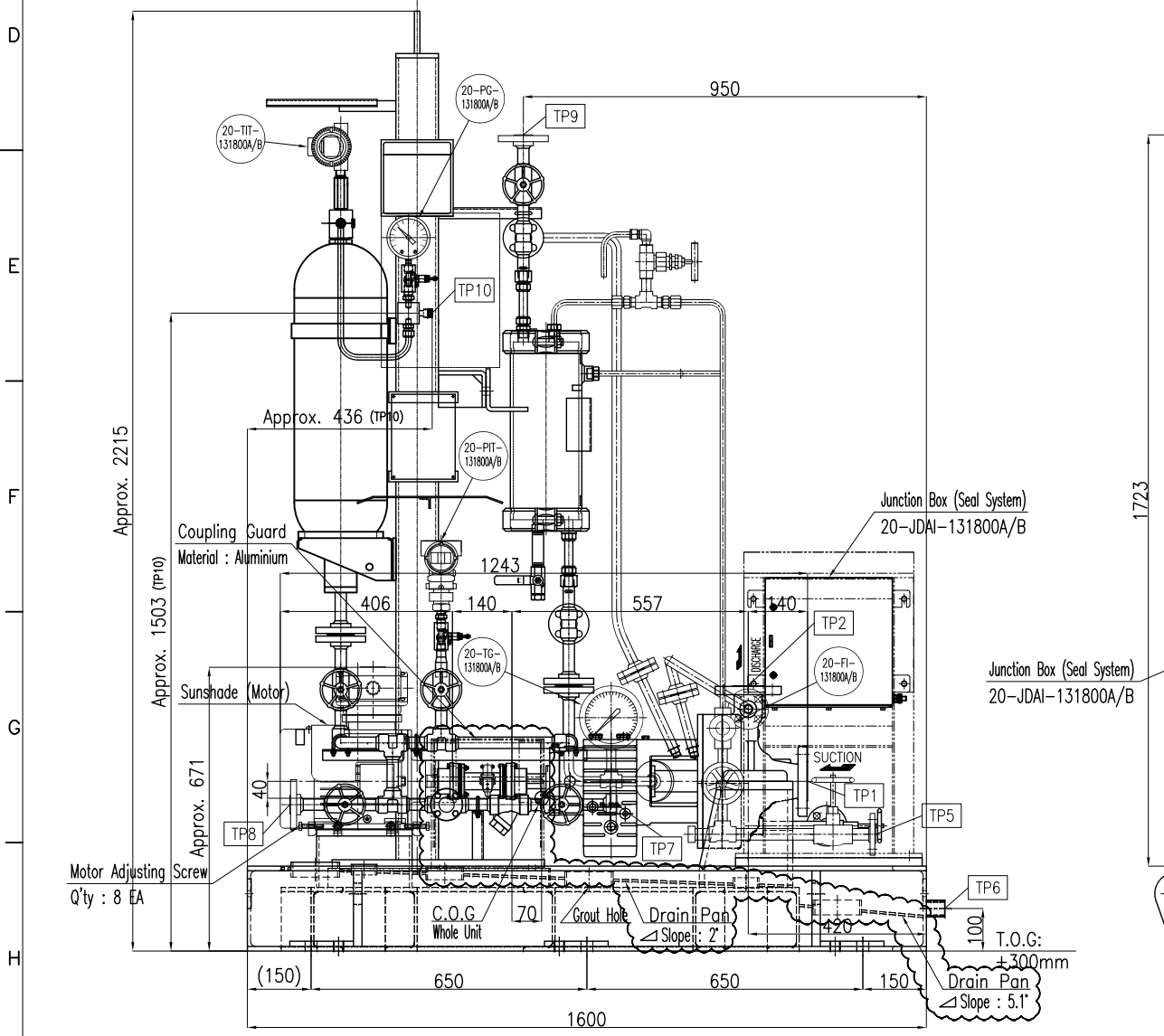
Flange Rating ANSI B16.5 300LB (RF)

Rating	ød	øg	øD	øC	Q-øH	t
Suction	50	92.1	165	127	8-ø20	22.5
Discharge	40	73.1	156	114.3	4-ø23	21

End Suction Top Discharge

Nozzle Loadings Data

Nozzle	Size (ø)	Force(N)			Moment(N-m)		
		Fx	Fy	Fz	Mx	My	Mz
Suction	50	1780	1420	1160	920	460	700
Discharge	40	1420	1160	1780	920	460	700



20-FI-131800A/B	FLOW INDICATOR [COOLER COOLING WATER OUTLET LINE]
20-PIT-131800A/B	PRESSURE TRANSMITTER [SEALING SYSTEM (PLAN #53B)]
20-TIT-131800A/B	TEMPERATURE TRANSMITTER [SEALING SYSTEM (PLAN #53B)]
20-PG-131800A/B	PRESSURE GAUGE [SEALING SYSTEM (PLAN #53B)]
20-TG-131800A/B	TEMPERATURE GAUGE [SEALING SYSTEM (PLAN #53B)]
20-RO-131800A/B	ORIFICE [SEAL FLUSHING LINE (PLAN #11)]

Grout Hole
Rasied Lip Edges
Min. 13mm

NOTE

- Permissible amplitude of vibration : 3.2 mm/s (r.m.s)
- Mass moment of inertia of machine
- Pump rotor : 0.161 kg-m
- Motor rotor : 0.007 kg-m
- Max. maintenance weight : 195 kg
- The shape of the aux. piping shown in the GA drawing may be different from that of the aux. piping of the actual product.

REFERENCE DOCUMENTS

DOC. NO.

LEGEND

DES.

SYMBOL

Q-øH

EQUIPMENT LIST

Code	Description
------	-------------

Code 1 ☒ **Approved:**
No comment and the document is released for Manufacturing.

Code 2 ☐ **Approved with Minor comment:**
Vendor shall correct, revise and resubmit the document.
The document can be released for Manufacturing if changes incorporated.

Code 3 ☐ **Commented:**
Vendor shall correct, revise and resubmit the document by the date specified.
The document shall be revised under the Status of "To Be Revised Issue".
All corrected documents shall be resubmitted before starting the Manufacturing.

Code 4 ☐ **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/travel time after receiving 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 : 18.Apr.2021
DEPT. : MA
Signature : D. M.

Only for Internal review

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

05	11/03/2021	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
04	20/11/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
03	11/09/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
02	25/08/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
01	17/07/2020	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. KP-20-00-PS-MA-PO-0001

DRAWING TITLE:
General arrangement drawing for 20-P-1301 A/B

DRAWING NO.
VP-20-00-MA-0001-0405

REV.	SHEET No.	SIZE
05	1 OF 1	A3