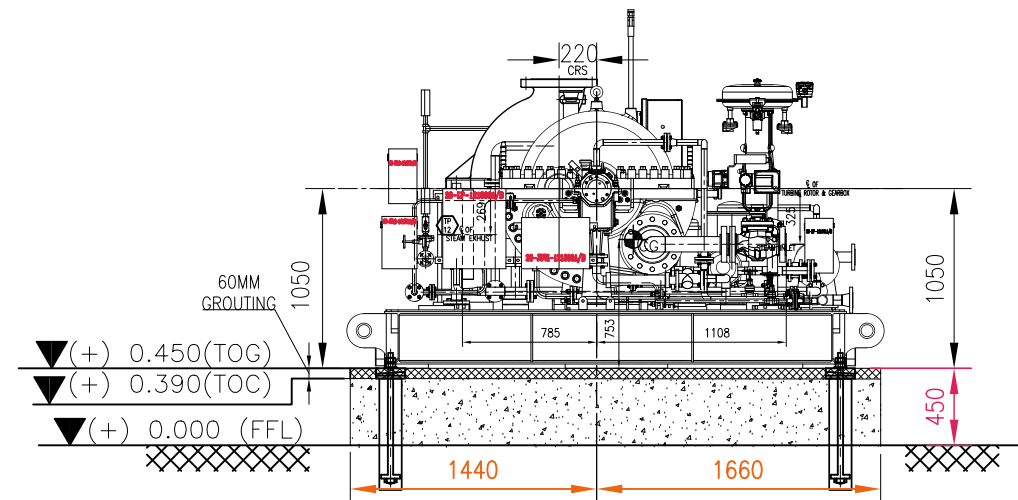


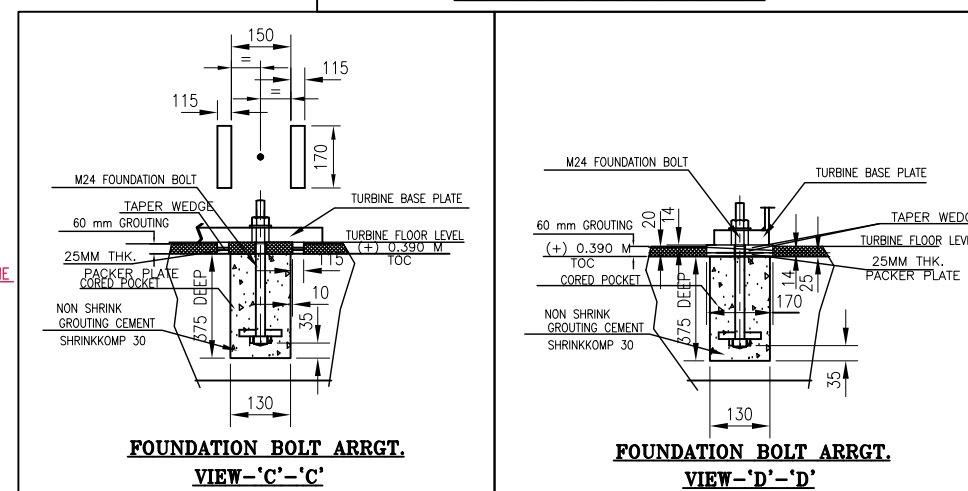


**NOTE:—**

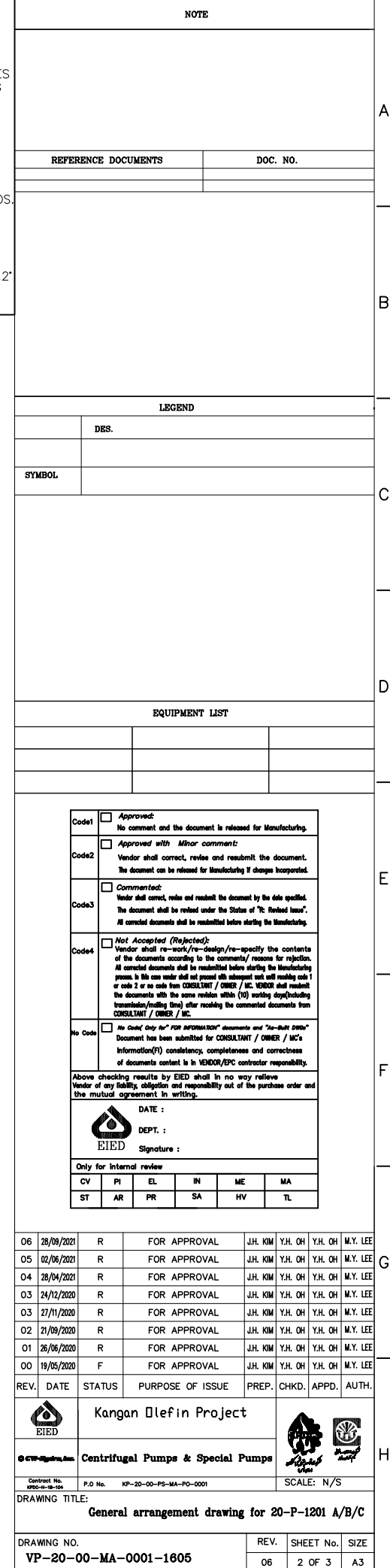
1. CIVIL DESIGN & CONSTRUCTION ARE NOT IN 'TTL' SCOPE.
2. ALL DIMENSIONS ARE IN mm
3. MINIMUM ONE METER WORKING SPACE IS REQUIRED AROUND ALL SIDS IN RELATION WITH THE OVER ALL DIMENSIONS GIVEN IN THIS DRAWING
4. FOUNDATION BOLTS (WITH NUTS, WASHERS & KEEP PLATES) FOR TURBINE ARE IN 'TTL' SCOPE OF SUPPLY.
5. MAXIMUM PERMISSIBLE AMPLITUDE OF VIBRATION ON TOP OF DECK IS 30 MICRONS
6. THE DESIGN CALCULATIONS AND ALL NECESSARY SAFETY MARGINS TO BE CONSIDERED FOR THE CONSTRUCTION OF FOUNDATION, IS THE RESPONSIBILITY OF CIVIL DESIGNER.
7. DYNAMIC FORCES GIVEN IN LOADING DATA TABLE ARE AT OPERATING SPEEDS.
8. ~~DELETED.~~
9. T.O.C : TOP OF CONCRETE
10. T.O.G : TOP OF GROUTING
11. FOUNDATION BOLT HOLE TO BOLT HOLE DIMENSION TOLERANCE HORIZONTALLY  $\pm 1.5\text{MM}$ , POCKET /HOLE STRAIGHTNESS TOLERANCE 0.2'
12. ~~DELETED.~~



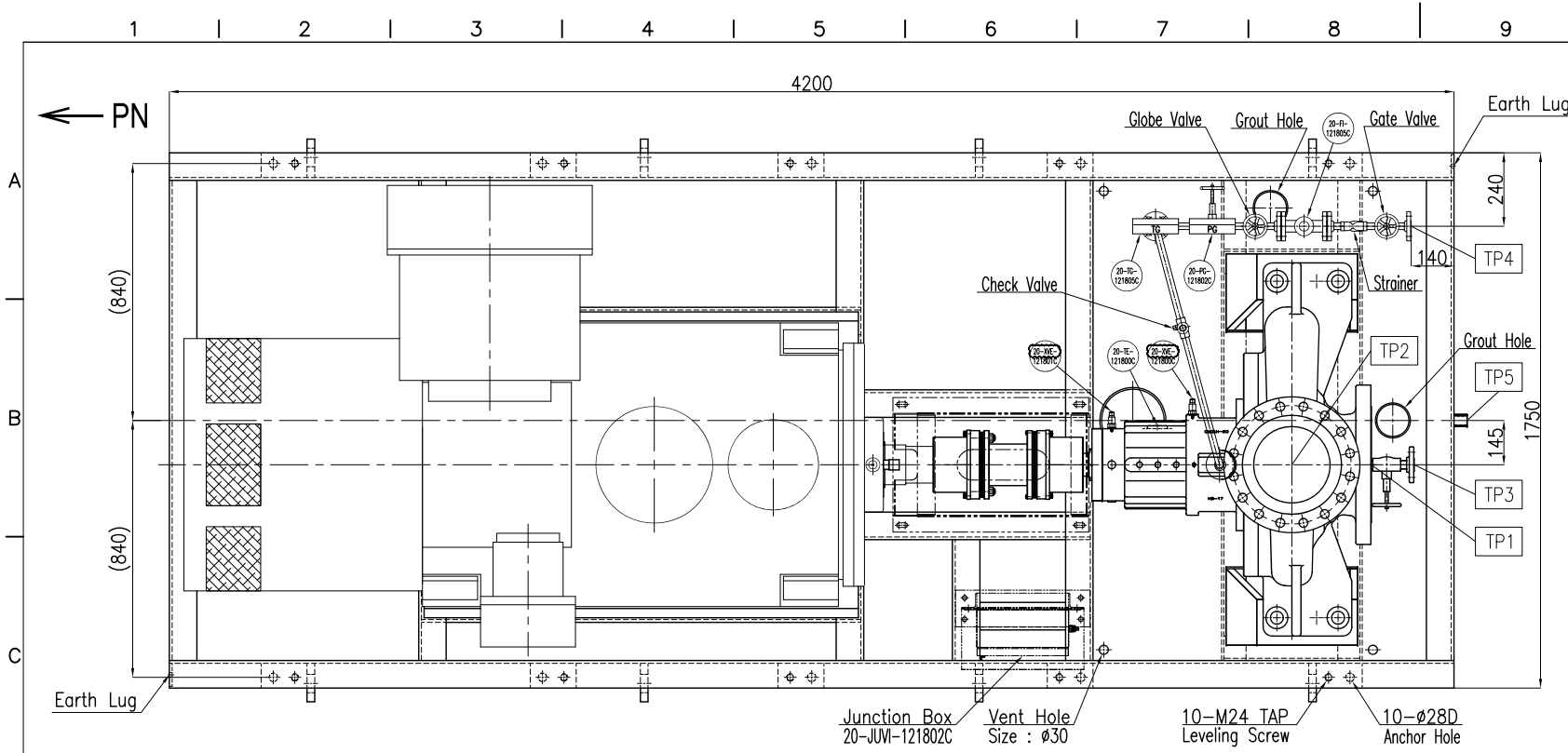
VIEW 'B'-'B'



**FOUNDATION BOLT ARRGT.**  
**VIEW-'D'-'D'**







PUMP			
MODEL	CAPACITY (m³/hr)	HEAD (m)	REVOLUTION (RPM)
HB 300x250-600 (20-P-1201 C)	1175	88.1	1487

MOTOR			
FRAME	POWER (KW)	VOLT (V)	POLE (P)
400	400	6000	4

WEIGHT UNIT : Kg			
	PUMP	MOTOR	BASE PLATE TOTAL
STATIC	1300	4100	1530 6930
DYNAMIC	1560	4100	1530 7190

WEIGHT		MOTOR SHORT CIRCUIT LOADS	
PUMP ROTOR	MOTOR ROTOR	UP	DOWN
140 kg	880 kg	11 kN	52 kN

Tie-in Point List		
No.	Tie-in Point	Specification
TP5	Base Plate Drain	NPT 1"
TP4	Sealing Water Inlet (Seal Plan #32)	1/2", ANSI CL 300 R.F
TP3	Pump Casing Drain	3/4", ANSI CL 300 R.F
TP2	Pump Discharge	10", ANSI CL 300 R.F
TP1	Pump Suction	12", ANSI CL 300 R.F

20-TI-121800C	FLOW INDICATOR [SEAL FLUSHING LINE (PLAN #32)]
20-TI-121800C	PRESSURE GAUGE [SEAL FLUSHING LINE (PLAN #32)]
20-TI-121800C	TEMPERATURE GAUGE [SEAL FLUSHING LINE (PLAN #32)]
20-TI-121800C	PUMP VIBRATION SENSOR NDE BRG HOUSING
20-TI-121800C	PUMP VIBRATION SENSOR DE BRG HOUSING
20-TI-121800C	PUMP TEMPERATURE SENSOR BRG (DUPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR BRG DE (DUPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR BRG NDE (DUPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR WINDING TEMPERATURE SENSOR-U (SIMPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR WINDING TEMPERATURE SENSOR-U (SIMPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR WINDING TEMPERATURE SENSOR-V (SIMPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR WINDING TEMPERATURE SENSOR-V (SIMPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR WINDING TEMPERATURE SENSOR-W (SIMPLEX RTD)
20-TI-121800C	MOTOR TEMPERATURE SENSOR WINDING TEMPERATURE SENSOR-W (SIMPLEX RTD)

**NOTE**

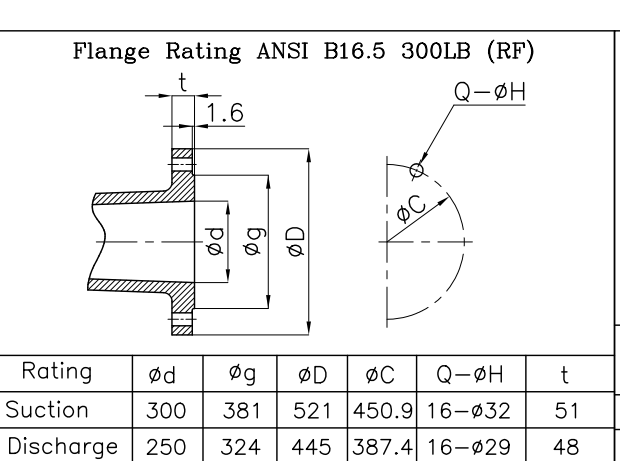
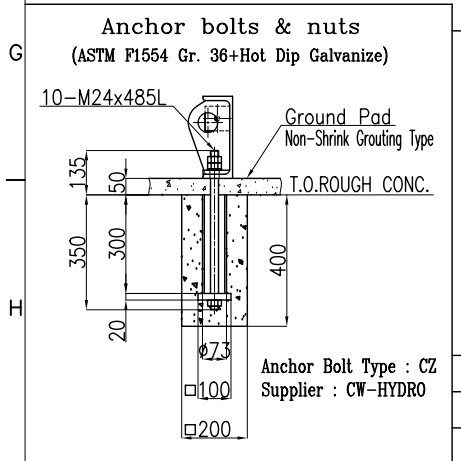
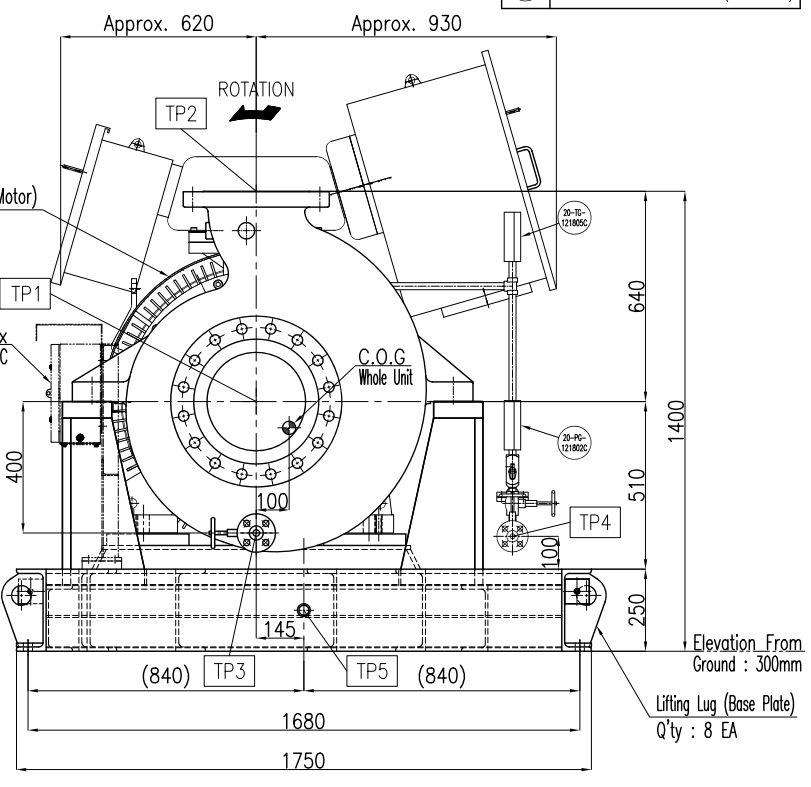
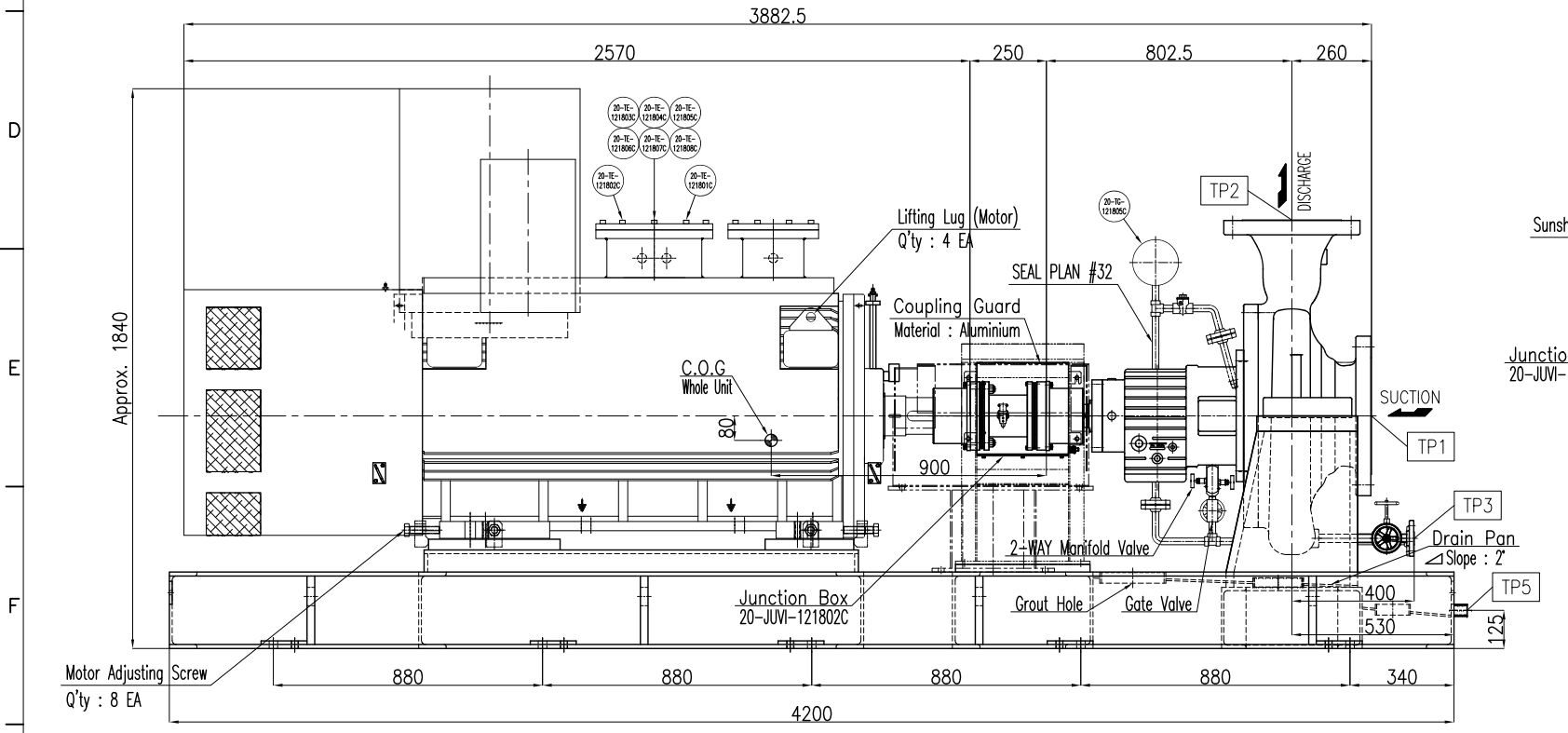
- Permissible amplitude of vibration : 4.2 mm/s (r.m.s)
- Mass moment of inertia of machine
- 1) Pump rotor : 8.16 kg-m
- 2) Motor rotor : 17 kg-m
3. Max. maintenance weight : 4100 kg (Motor)
4. The shape of the aux. piping shown in the GA drawing may be different from that of the aux. piping of the actual product.

REFERENCE DOCUMENTS	DOC. NO.

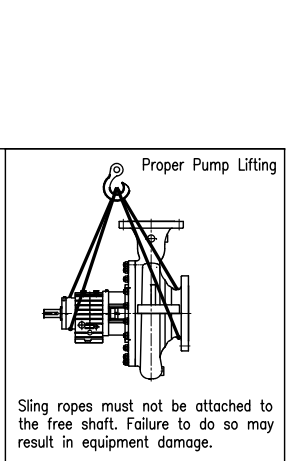
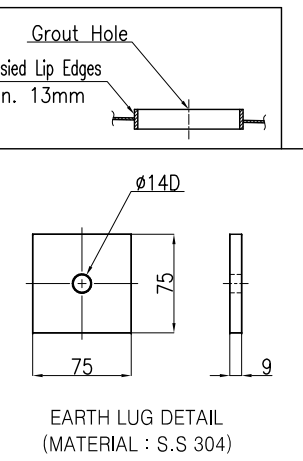
LEGEND	
DES.	
SYMBOL	

EQUIPMENT LIST	

Code1	<input type="checkbox"/> Approved: No comment and the document is released for Manufacturing.
Code2	<input type="checkbox"/> Approved with Minor comment: Vendor shall correct, review and resubmit the document. The document can be released for Manufacturing if change is approved.
Code3	<input type="checkbox"/> Commented: Vendor shall correct, review and resubmit the document by the date specified. The document shall be released under the Status of "To Be Rejected". All corrected documents shall be resubmitted before starting the Manufacturing.
Code4	<input type="checkbox"/> 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 the case vendor did not present with subsequent work will remain open 1 or more 2 or as per the CONSULTANT / OWNER / MC. VENDOR shall resubmit the documents with the same revision within (10) working days (excluding transmission/traveling time) after receiving the comment documents from CONSULTANT / OWNER / MC.
No Code	<input type="checkbox"/> No Check Only for "FOR INFORMATION" documents and "As-Built Data" Document has been submitted for CONSULTANT / OWNER / MC's Information (IT) 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 : DEPT. : EIED Signature : Only for Internal review	
CV	PI
ST	AR
EL	PR
IN	SA
ME	HV
MA	TL



Nozzle		Size (Ø)		Force(N)			Moment(N-m)		
Rating	Ød	Øg	ØD	ØC	Q-ØH	t	Fx	Fy	Fz
Suction	300	381	521	450.9	16-Ø32	51	16000	13340	10680
Discharge	250	324	445	387.4	16-Ø29	48	10680	8900	13340



06	28/08/2021	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
05	02/06/2021	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
04	28/04/2021	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
03	24/12/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
03	27/11/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
02	21/09/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
01	26/06/2020	R	FOR APPROVAL	J.H. KIM	Y.H. OH	Y.H. OH	M.Y. LEE
00	19/05/2020	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.
Kangan Olefin Project							
Centrifugal Pumps & Special Pumps							
Contract No. KPD-20-00-PS-MA-PO-0001							
SCALE: N/S							
DRAWING TITLE: General arrangement drawing for 20-P-1201 A/B/C							
DRAWING NO. VP-20-00-MA-0001-1605							
REV. SHEET No. SIZE							
06 3 OF 3 A3							