

NOTE: SOME SKIDS ARE NOT SHOWN FOR BETTER CLARITY

#### COMPRESSOR DATA MACHINE MAKE BHEL 2MCL 528 MACHINE WEIGHT 22000 KG MAXIMUM CONT. IST CRIT.SPEED 3485 IIND CRIT. SPEED 12785 SHAFT POWER REQUIRED 2651 KW FOR RATED CONDITION

S. NO. TAG NO	DESCRIPTION	EMPTY WEIGHTS(Kgs)	FLOODE (
1. 1P30-KA-1781	COMPRESSOR	22000	
2. 1P30-KM-1001	MOTOR	15300	
3. 1P30-KA-1781-LZ-1	GEAR BOX	4500*	
4. 1P30-KA-1781-T-2	O.H.LUBE OIL TANK	660*	2050*
5 –	SEAL GAS CONTROL SKID	2200*	2200*
6. —	SEAL GAS FILTER SKID	2500*	2500*
7. 1P30-KA-1781-V-1 A/B/C	L.O ACCUMULATORS	600*	1000*
8. –	LOCAL CONTROL PANEL	1000*	1000*
9. –	LUBE OIL CONSOLE	20000*	35000*
10. 1P30-KA-1781-Y01 A/B	SEAL GAS BOOSTER SKID	1000*	1000*
11 –	MAX. WEIGHT FOR MAINTENANCE	15300 (M	OTOR)

\* SIZES AND WEIGHTS ARE PRELIMINARY

### **GENERAL NOTES:**

## **NOTES:**

- 1. ALL DIMENSIONS ARE IN 'MM' & ELEVATIONS ARE IN 'MTS'
- THIS DRAWING INDICATES DIMENSIONS OUTLINES OVERALL DIMENSIONS & ERECTION LOAD OF EQUIPMENT ALSO.
   BOTTOM OF HOOK OF MAINTENANCE CRANE = 113.000

## **HOLD:**

#### **LEGEND:**

- V ELEVATION
- CENTRE LINE ELEVATION
- CENTRE OF REFERENCE
  ELEVATION OF FLOOR LEVELS
- GRATING

# REFERENCE DOCUMENTS

DOC NO	DOC TITLE
TP-1P30A-ME-0033-GAS-0002.00	OEVRALL DIMESNSIONAL SKETCH FOR SOUR GAS COMPRESSOR (1P30-KA-
TP-1P30A-ME-0033-GAS-0008.00	GEAR BOX GA DRAWING (1P30-KA-1781)
TP-1P30A-ME-0033-GAS-0017	MAIN MOTOR GA DRAWING
TP-1P30A-ME-0033-GAS-0010.00	SEAL GAS FILTER SKID & CONTROL SKID GA DRG
TP-1P30A-ME-0033-DTL-0002	GA BOM & WIRING OF LOCAL CONTROL PANEL (1P30-KA-1781)
TP-1P30A-ME-0033-GAS-0011.00	LUBE OIL OVERHEAD TANK GA DRAWING
TP-1P30A-ME-0033-GAS-0005.00	LUBE OIL CONSOLE GA DRG.
TP-1P30A-ME-0033-GAS-0023.00	SEAL GAS BOOSTER SKID GA DRAWING
TP-1P30A-ME-0033-GAS-0001.00	MACHINERY ARRANGEMENT AND FOUNDATION FOR SOUR GAS

COMPRESSOR (1P30-KA-1781)

01	04/06/2022	ISSUED FOR APPROVAL	PDM	BKK	CHANDU	
00	02/03/2022	ISSUED FOR APPROVAL	PDM	BKK	CHANDU	
				2		Owner

VENDOR LOGO

TEN TECHNIP NUMALIGARH REFINERY LIMITED NRL

JRCHASE ORDER JMBER:	4500024041-TEC/24.01.2022	SUBMISSION STATUS (VENDOR MUST SELECT ONE STATUS)	
JPPLY REQUISITION R)NUMBER:	200663C-000-MR-1011-0002		INFORMATION
	BHARAT HEAVY ELECTRICALS LIMITED	Х	REVIEW
RL DOCUMENT JMBER (MANDATORY)	TP-1P30A-ME-0033-EQL-0001.00		CERTIFIED FINAL
EV. NO.	01		AS BUILT
EV. DATE	04.06.2022		CANCELLED
NDORS REFERENCE IMBER:(IF ANY )	HY-DG-0-33600-44921		SUPERSEDED

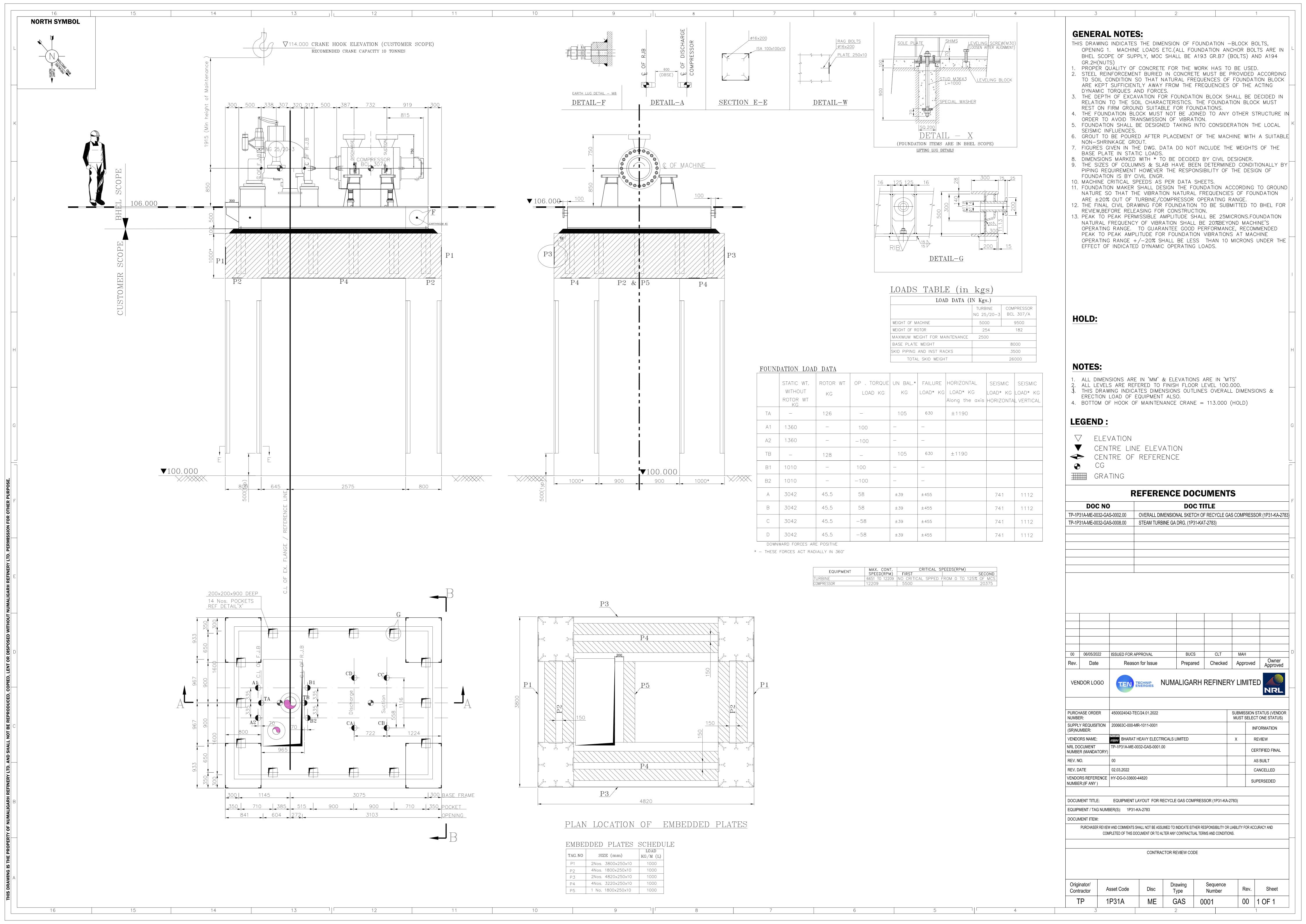
DOCUMENT TITLE: EQUIPMENT LAYOUT FOR SOUR GAS COMPRESSOR (1P30-KA-1781)

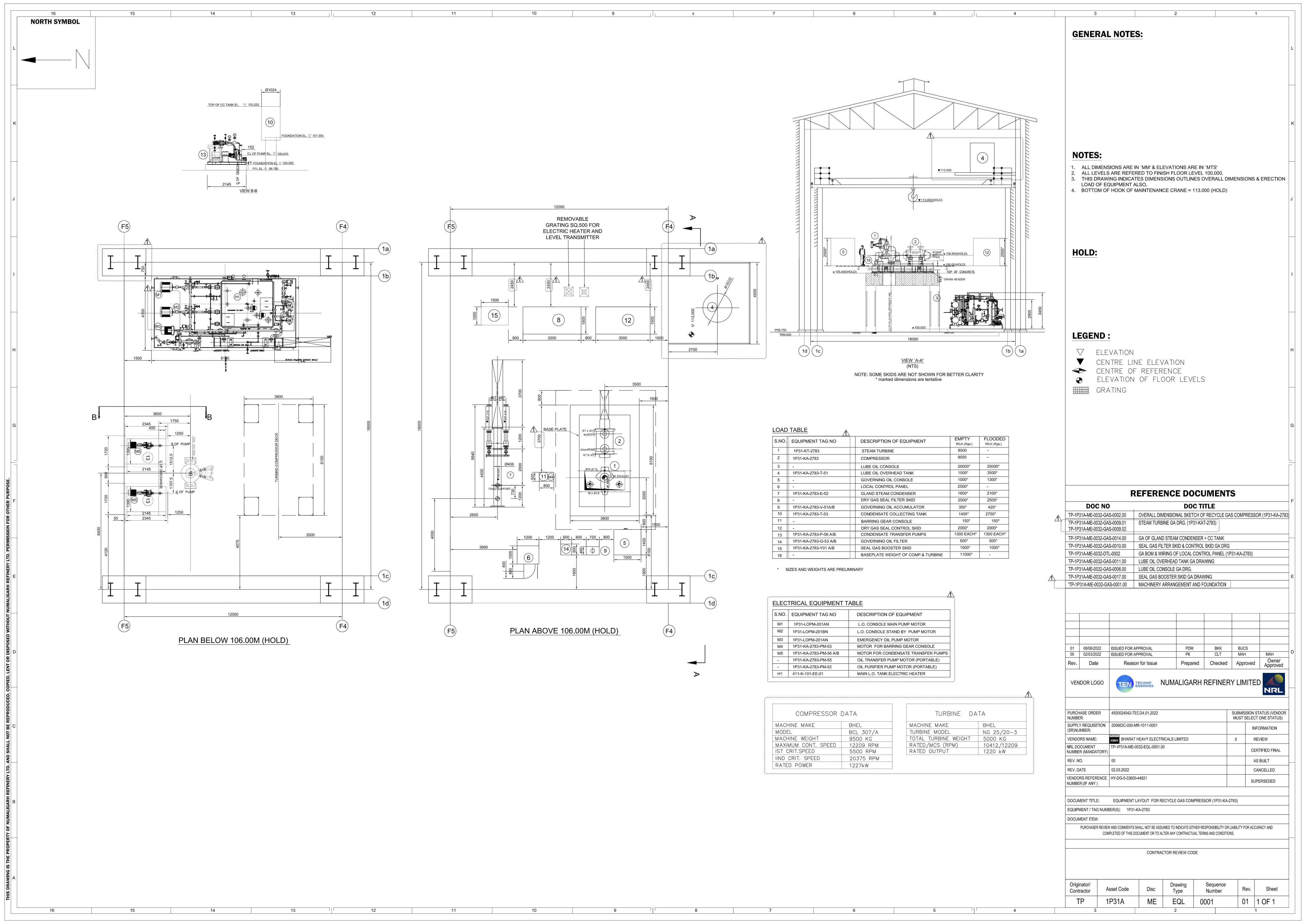
#### EQUIPMENT / TAG NUMBER(S): 1P30-KA-1781 DOCUMENT ITEM:

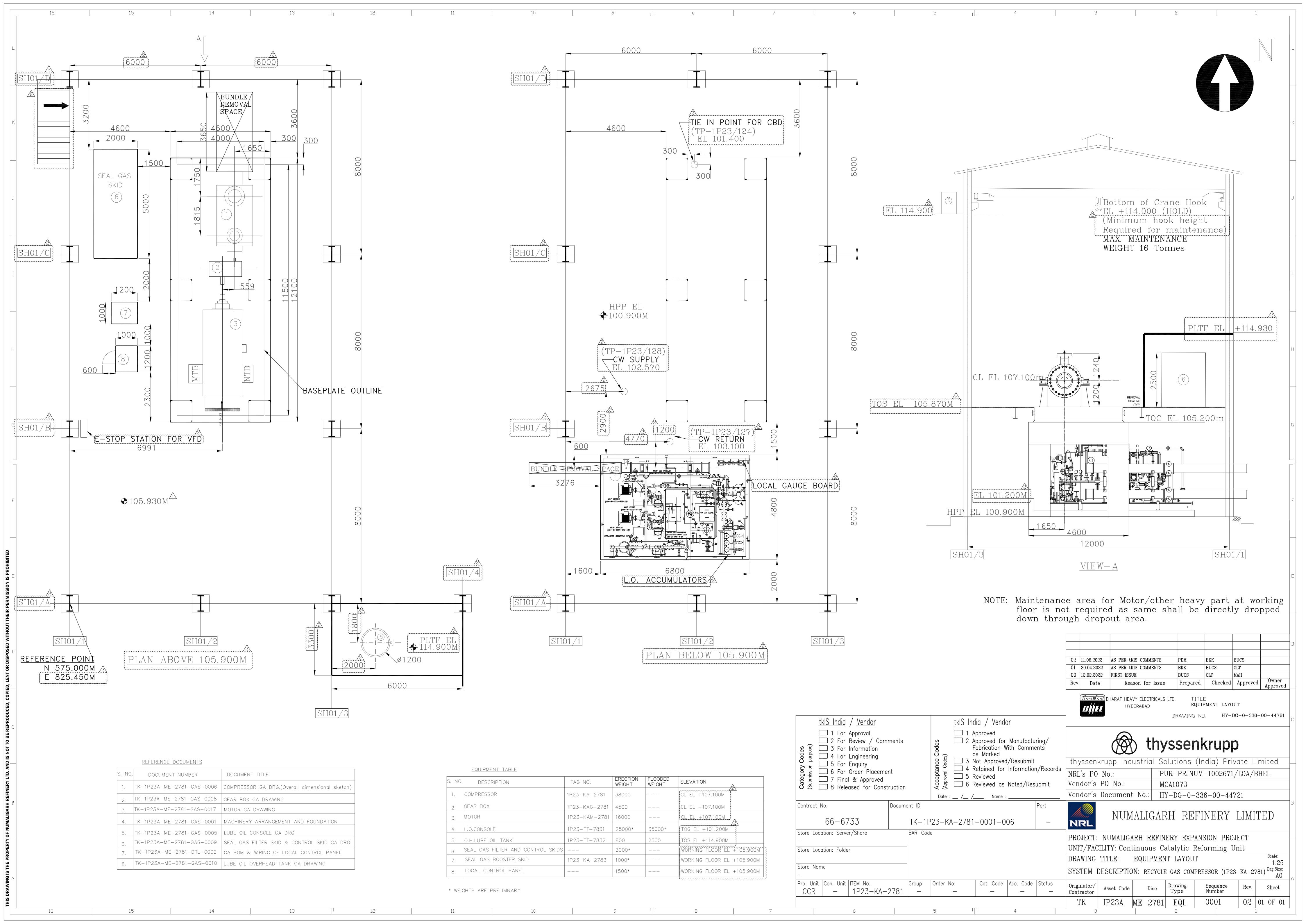
PURCHASER REVIEW AND COMMENTS SHALL NOT BE ASSUMED TO INDICATE EITHER RESPONSIBILITY OR LIABILITY FOR ACCURACY AND COMPLETED OF THIS DOCUMENT OR TO ALTER ANY CONTRACTUAL TERMS AND CONDITIONS.

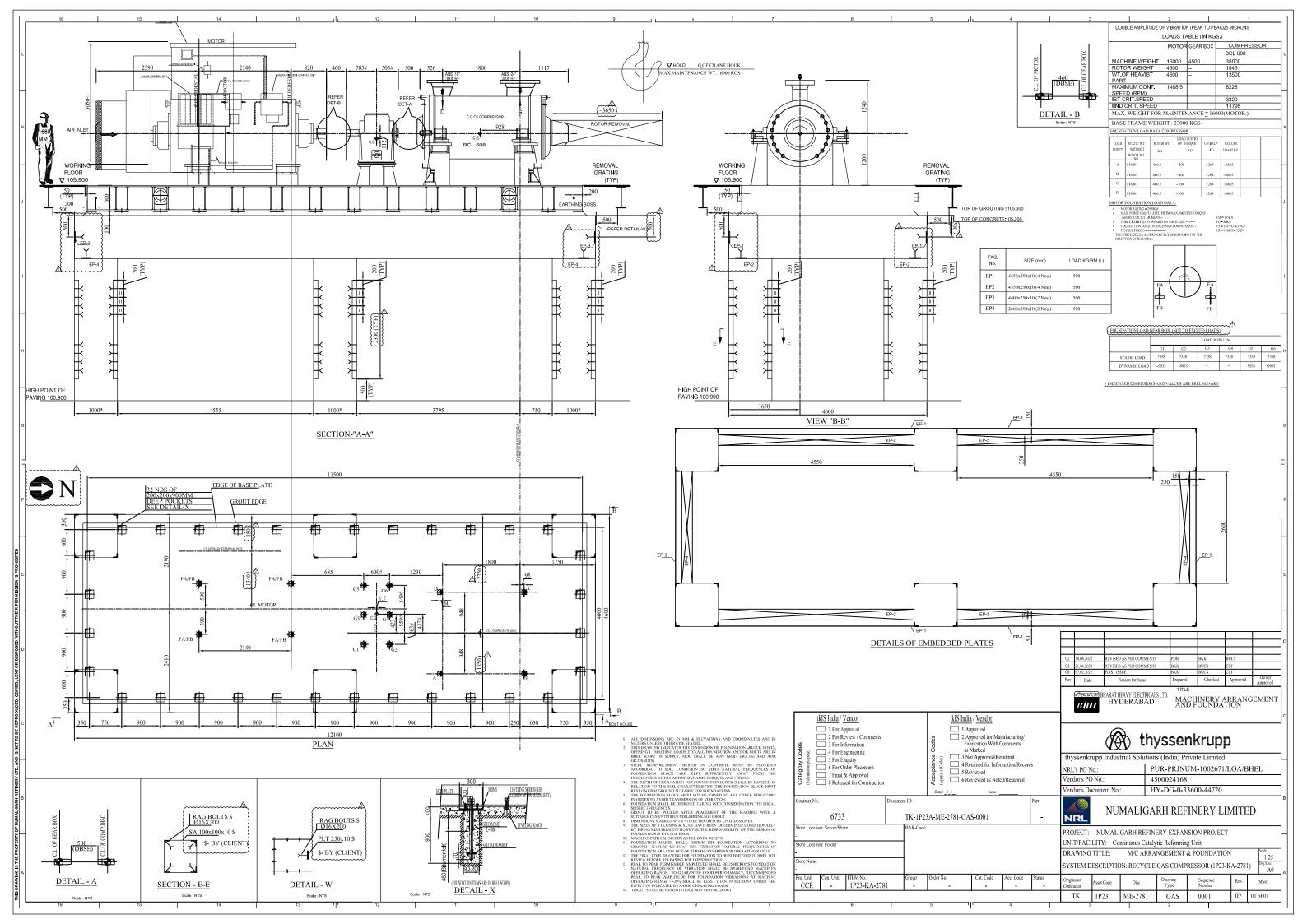
#### CONTRACTOR REVIEW CODE

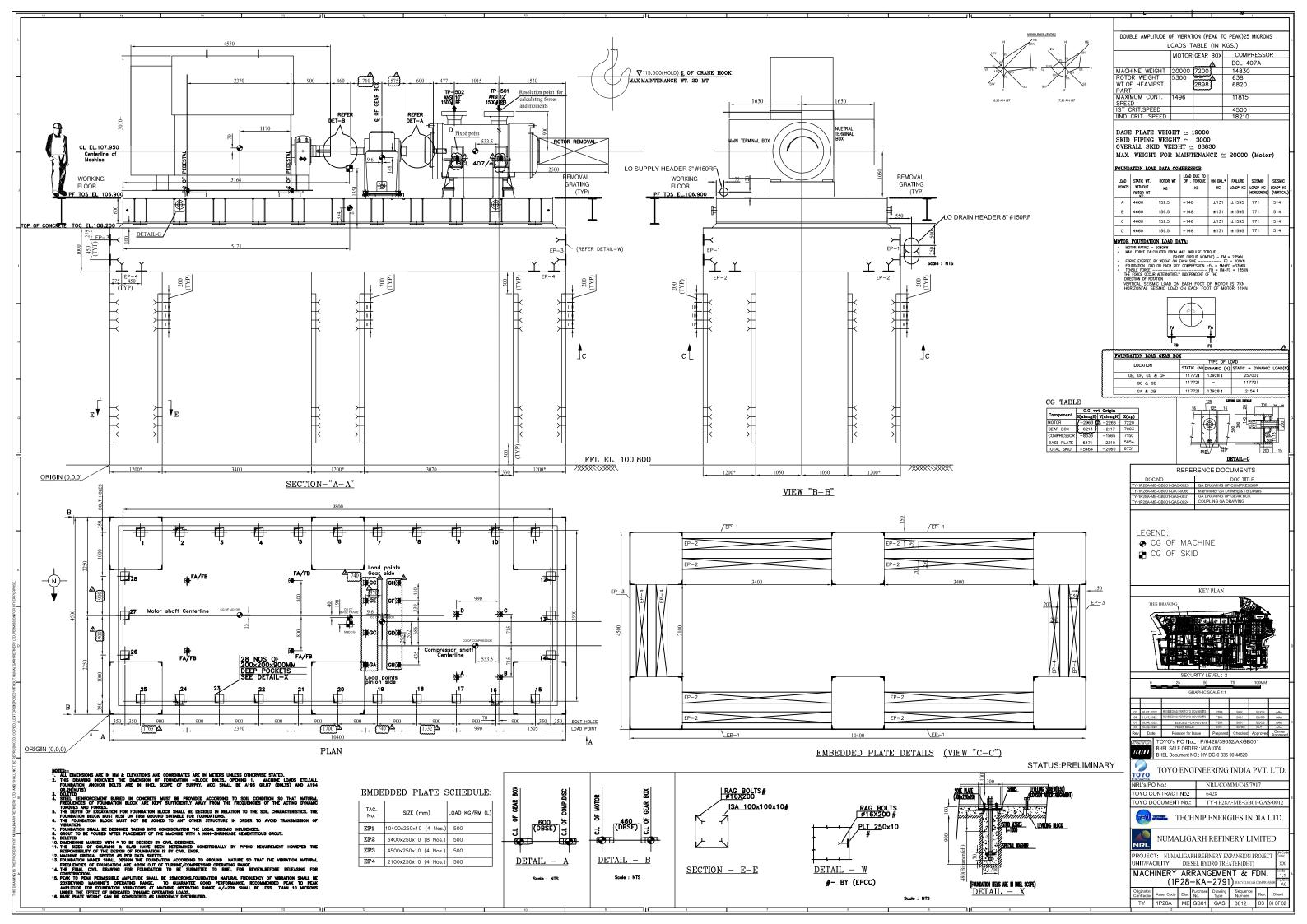
Originator/ Contractor	Asset Code	Disc	Drawing Type	Sequence Number	Rev.	Sheet
TP	1P30A	ME	EQL	0001	01	1 OF 1



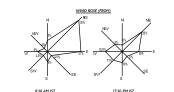








#### LOAD DATA @ ANCHOR BOLT LOCATIONS

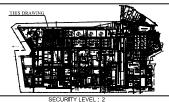


LOAD PT	STATIC WT WITHO UT ROTOR WT (Kg)	ROTOR WT. (Kg)	OP.TOR QUE LOAD (Kg)	UNBAL ANCE LOAD (Kg)	FAILU RE LOAD (Kg)	FORCE LOAD FROM SHORT CIRCUIT MOMENT (Kg)	ONLY BASE FRAME ALONE (Kg)
1	1578.5	0.6	-0.4	9.3	5.7	1634.3	139.2
2	2919.6	0.9	-0.6	17.3	8.9	4049.3	234.1
3	2816.0	1.4	-0.8	35.7	14.2	3266.3	424.3
4	3101.3	2.3	-1.3	83.0	23.3	3511.5	824.3
5	3664.3	4.0	-2.1	217.1	39.5	4497.6	1600.4
6	2661.9	6.9	-3.9	560.2	69.2	1740.3	2452.0
7	2235.2	12.3	-7.3	907.3	122.6	342.9	2187.1
8	1868.1	20.5	-13.1	687.9	205.4	9.2	1253.0
9	1512.2	28.6	-18.9	304.9	285.5	-51.5	637.9
10	1160.4	27.2	-22.0	130.8	271.7	-52.5	338.4
11	909.2	23.8	-14.4	66.1	237.6	-42.9	193.5
12	1387.0	40.0	-21.3	83.5	400.2	-19.5	189.0
13	1922.2	57.9	-21.1	103.5	578.5	-0.1	199.0
14	2027.1	61.9	0.8	103.2	619.2	19.3	187.2
15	2104.9	64.7	25.2	105.7	646.7	42.6	189.6
16	3148.7	95.1	43.5	151.7	951.2	52.1	334.7
17	3274.4	88.2	38.7	126.9	881.8	50.8	641.3
18	2917.4	51.6	17.0	-163.9	516.2	-10.4	1293.8
19	2834.4	24.2	4.3	-410.5	242.4	-344.8	2336.6
20	2893.3	11.7	0.7	-97.9	116.9	-1741.5	2643.2
21	3733.2	6.1	-0.1	75.1	61.0	-4491.0	1674.9
22	3097.8	2.3	-1.3	69.8	22.5	-3510.9	835.8
23	2831.0	2.0	-0.2	47.9	20.3	-3265.4	421.7
24	2925.1	1.3	-0.2	31.2	12.6	-4042.4	230.0
25	1584.0	0.8	-0.2	20.8	8.1	-1634.5	135.8
26	2216.0	0.7	-0.2	16.8	6.7	-1900.6	131.6
27	2521.2	0.6	-0.3	14.7	6.2	-2.7	138.5
28	2213.3	0.6	-0.3	11.6	5.6	1894.5	133.1

SEISMIC LOAD " ±Kg "					
AXIAL	LATERAL	VERTICAL			
308.4	249.7	112.5			
259.7	384.8	207.5			
303.9	396,9	202.4			
314.2	422.4	226.5			
276.6	477.7	274.4			
302.0	465.3	221.5			
275.4	486.5	210.6			
249.7	496.9	186.4			
228.6	488.0	155.7			
219.9	337.1	121.4			
253.1	344.9	96.0			
354.8	209.0	148.8			
422.1	107.9	207.7			
429.3	79.0	219.4			
337.4	206.9	227.9			
259.6	299.5	340.7			
259.9	342.7	350.0			
323.3	356.5	301.6			
358.1	370.1	275.8			
375.1	375.8	246.8			
331.4	413.5	282.2			
308.6	375.9	226.2			
331.3	365.5	204.2			
279.8	362.2	208.4			
323.3	233,4	113.2			
431.4	111.0	157.2			
449.3	112.9	178.6			
424.5	118.9	156.9			

DOWNWARD FORCES ARE POSITIVE

REFE	RENCE DOCUMENTS	
DOC NO	DOC TITLE	R
TY-1P28A-ME-GB001-GAS-0023	GA DRAWING OF COMPRESSOR	0
TY-1P28A-ME-GB001-DAT-0066	Main Motor GA Drawing & TB Details	0
TY-1P28A-ME-GB001-GAS-0031	GA DRAWING OF GEAR BOX	



	0	25 50		75	100MM					
		GRAPHIC S	CALE 1:1							
03	16.07.2022	REVISED AS PER TOYO COMMENTS	PDM	BKK	BUCS	AAA				
02	01,07,2022	REVISED AS PER TOYO COMMENTS	PDM	BKK	BUCS	AAA				
	09.04.2022	ISSUED FOR REVIEW	PDM	BKK	BUCS	AAA				
00	10.02,2022	FIRST ISSUE	BKK	BUCS	CLT	AAA				
Rev.	Date	Reason for Issue	Prepared	Checked	Approved	Owner Approved				
जीए-	रर्डएल े	TOYO's PO No.: P/6-	428/3965	52/AXGE	3001					
	BUEL CALE ORDER - MONAGEA									

TOYO ENGINEERING INDIA PVT. LTD.

TOYO ENGINEERNS					
NRL's PO No.:	NRL/COMM/C45/7917				
TOYO CONTRACT No.:	6428				
TOYO DOCUMENT No.:	TY-1P28A-ME-GB01-GAS-001				



TECHNIP ENERGIES INDIA LTD.



NUMALIGARH REFINERY LIMITED

MACHINEDY	ADDANICEMENT & EDNI	ľ
UNIT/FACILITY:	DIESEL HYDRO TREATER(DHT)	ı
PROJECT: NUMA	LIGARH REFINERY EXPANSION PROJECT	k

(1P28-KA-2791)					RECYCLE GAS	COMPRI	SSOR Drg.:
iginator/ ontractor	Asset Code	Disc	Purchase No.	Drawing Type	Sequence Number	Rev.	Sheet

TY 1P28A ME GB01 GAS 0012 03 02 0F 02

