


CAPACITY M3 (BBLs)	: 0.31 (1.950)
LENGTH mm (ft-in)	: 1000 (3'-3.4")
BREATH mm (ft-in)	: 900 (2'-11.4")
HEIGHT mm (ft-in)	: 850 (2'-9.4")
OP. PRESS./DESIGN PRESS. barg (psig)	: ATM/ATM+ FULL OF LIQUID
OP TEMP./DESIGN TEMP. °C (°F)	: AMB (AMB)/100/-3 (212/26.6)
MATERIAL OF CONSTRUCTION	: SS AISI 316L

CAPACITY M3 (BBLs)	: 0.0006 (0.0038)
LENGTH mm (ft-in)	: 382 (1'-3")
BREATH MM (ft-in)	: 245 (0.8'-0")
HEIGHT MM (ft-in)	: 360 (1'-2.17")
OP. PRESS./DESIGN PRESS. barg (PSIG):	18/42 (261/609)
OP TEMP./DESIGN TEMP. °C (°F)	: AMB (AMB)/100/-3 (212/26.6)
MATERIAL OF CONSTRUCTION	: SS AISI 316L

DUTY MMKCAL/HR (MMBTU/HR) : 0.0043 (0.017)
OP. PRESS./DESIGN PRESS. barg (PSIG) : 18/74.3 (261/1077.6)
OP. TEMP.INLET/OUTLET °C (°F) : 87/75 (188.6/167)
DESIGN TEMP. °C (°F) : 110/-3 (230/26.6)
MATERIAL OF CONSTRUCTION : SS AISI 316L

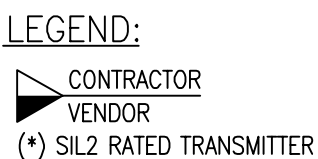
AS-BUILT	
LARSEN & TOUBRO LIMITED	
NAME :	VAIBHAV VERMA
DESIGNATION :	AGM
SIGNATURE :	
DATE :	15-Aug-2018
DEPT/ DIVISION :	ENGINEERING



PIPING CONNECTIONS		
REF.	DIMENSION	SERVICE
TP1A	10" 600 RF	PUMP SUCTION
TP2A	6" 600 RF	PUMP DISCHARGE
TP3A	3/4" 600 RF	PUMP DRAIN
TP4A	3/4" 600 RF	PUMP VENT
TP5A	1" 150 RF	L.O. TANK DRAIN
TP6A	1" 150 RF	L.O. TO AIR COOLER
TP7A	1" 150 RF	L.O. FROM AIR COOLER
TP8A	1" 150 RF	L.O. AIR COOLER INLET
TP9A	1" 150 RF	L.O. AIR COOLER OUTLET
TP10A	3/4" 150 RF	L.O. AIR COOLER DRAIN
TP11A	3/4" 150 RF	L.O. AIR COOLER VENT
TP12A	2" 300 RF	A.T.U. RESERVOIR DRAIN
TP13A	3/4" 600 RF	A.T.U. TO SEAL SYSTEM
TP14A/B/C	3/4" 600 RF	FILLING PLAN 53B
TP15A1/A2	1" 150 RF	L.O. BASE DRAIN
TP16A1/A2	2" 150 RF	FILLING PLAN B
TP17A	1" NPT	A.T.U. BASE DRAIN (PLUGGED)
TP18A	3/4" 600 RF	BLEED PUMP DRAIN
TP19A	3/4" 600 RF	BLEED PUMP VENT
TP20A	1" 150 RF	VENT PROVISION
TP21A	1" 150 RF	PURGING PROVISION
TP22A	2" NPT	FILLER BREATHER

NOTES:

1. DELETED.
2. DELETED.
3. REFERENCE VENDOR P&ID:- 50489-530-020-07278-PID-V001, SHEET 2 OF 3.
4. ATU PUMP SHALL "STOP" WHEN BOTH PIT-0124 & PIT-0127 (ALONG WITH PUMP RUNNING) SHOWS ABOVE 18 BARC (ALL 6 PITs) AND ALSO CLOSE SOLENOID VALVE (XSV-0140)
5. ATU PUMP SHALL "START" WHEN ANY PIT-0124 & PIT-0127 (ALONG WITH PUMP RUNNING) SHOWS ABOVE 13 BARC (ANY ONE OF 6 PITs) AND ALSO OPEN SOLENOID VALVE (XSV-0140)
6. LOW LOW LEVEL (LALL-0144) IN RESERVOIR SHALL TRIP THE ATU PUMPS.
7. FOR DETAIL & LEGENDS REFER: 50489-530-020-PID-1126.011
8. FOR VENDOR CAUSE & EFFECT REFER: 50489-530-020-07278-CAE-V001.
9. FOR VENDOR ALARM VALUES REFER: 50489-530-020-07278-LSI-V003.
10. FOR VENDOR PIPING DETAILS REFER: 50489-530-040-07278-GAD-V006, V-0005.
11. BARRIER FLUID : MINERAL OIL ISO VG 10.
12. THESE PUMPS ARE CONTROLLED BY DCS.



NO	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	15.08.18
01	ISSUED FOR CONSTRUCTION	BAK/SSI	AKG	SRA	RAK	30.11.16
0	ISSUED FOR CONSTRUCTION	PAK/PRS	AKG	SRA	RAK	04.06.16
0	ISSUED INCORPORATED CLIENT COMMENTS	PAK/ABY	AKG	SRA	RAK	22.04.16
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	09.09.15
B	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	13.02.15
A	ISSUED FOR APPROVAL	BAK/VSA	AKG	SRA	RAK	29.11.14
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
				APPRD.		


KUWAIT OIL CO.
K. S. C.
 شركة نفط الكويت
 ش.م.ك.
 إيسو فير فيف ثري سبسيدياريز للنفط الكويتية
 A Subsidiary of Kuwait Petroleum Corporation

CONTRACTOR DETAILS:- **LARSEN & TOUBRO LIMITED**
FARIDABAD

PROJECT TITLE:- **NEW GATHERING CENTRE GC-30**
IN NORTH KUWAIT

DOCUMENT TITLE:—			
PIPING & INSTRUMENTATION DIAGRAM SEAL SYSTEM FOR CRUDE OIL EXPORT PUMP (G-004A)			
PROJECT NO.	DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.
	50489-530-020-PID-1126.004	ZO	
	SHEET NO. 4 OF 12		SHEET NO.
	COMPANY DRG. NO.	REV.	
	EF1902-530-DCO-PID-0126.004	A1	
	SHEET NO.		