

DRAWING INDEX

CONTRACTOR PROCESS P&ID's				
DRAWING NO.	SHEET	DESCRIPTION	REV.	REMARKS
50489-530-020-PID-1133.016	SHT. 16 OF 16	P&ID DESALTER FEED HEATER MANAGEMENT SYSTEM (F-201B) TRAIN B	NOTE 1	
50489-530-020-PID-1134.001	SHT. 1 OF 4	P&ID DESALTER FEED HEATER (F-101A) TRAIN A	NOTE 1	
50489-530-020-PID-1134.002	SHT. 2 OF 4	P&ID DESALTER FEED HEATER (F-101B) TRAIN A	NOTE 1	
50489-530-020-PID-1134.003	SHT. 3 OF 4	P&ID DESALTER FEED HEATER (F-201A) TRAIN B	NOTE 1	
50489-530-020-PID-1134.004	SHT. 4 OF 4	P&ID DESALTER FEED HEATER (F-201B) TRAIN B	NOTE 1	
50489-530-020-PID-1135.001	SHT. 1 OF 4	P&ID FIRST STAGE CRUDE DESALTER (C-102) TRAIN A	NOTE 1	
50489-530-020-PID-1135.002	SHT. 2 OF 4	P&ID FIRST STAGE CRUDE DESALTER (C-103) TRAIN B	NOTE 1	
50489-530-020-PID-1135.003	SHT. 3 OF 4	P&ID FIRST STAGE DESALTER POWER UNIT (C-102) TRAIN A	NOTE 1	
50489-530-020-PID-1135.004	SHT. 4 OF 4	P&ID FIRST STAGE DESALTER POWER UNIT (C-102) TRAIN B	NOTE 1	
50489-530-020-PID-1136.001	SHT. 1 OF 4	P&ID SECOND STAGE CRUDE DESALTER (C-103) TRAIN A	NOTE 1	
50489-530-020-PID-1136.002	SHT. 2 OF 4	P&ID SECOND STAGE CRUDE DESALTER (C-203) TRAIN B	NOTE 1	
50489-530-020-PID-1136.003	SHT. 3 OF 4	P&ID SECOND STAGE DESALTER POWER UNIT (C-103) TRAIN A	NOTE 1	
50489-530-020-PID-1136.004	SHT. 4 OF 4	P&ID SECOND STAGE DESALTER POWER UNIT (C-203) TRAIN B	NOTE 1	
50489-530-020-PID-1137.001	SHT. 1 OF 2	P&ID EFFLUENT WATER/WASH WATER EXCHANGER (E-102) TRAIN A	NOTE 1	
50489-530-020-PID-1137.002	SHT. 2 OF 2	P&ID EFFLUENT WATER/WASH WATER EXCHANGER (E-202) TRAIN B	NOTE 1	
50489-530-020-PID-1138.001	SHT. 1 OF 2	P&ID RECYCLE EFFLUENT WATER PUMP (G-103A/B/C) TRAIN A	NOTE 1	
50489-530-020-PID-1138.002	SHT. 2 OF 2	P&ID RECYCLE EFFLUENT WATER PUMP (G-203A/B/C) TRAIN B	NOTE 1	
50489-530-020-PID-1140	SHT. 1 OF 1	P&ID TANK VAPOUR CONNECTING LINES	NOTE 1	
50489-530-020-PID-1141.001	SHT. 1 OF 3	P&ID TANK VAPOUR COMPRESSOR SUCTION SCRUBBER (V-101) TRAIN A	NOTE 1	
50489-530-020-PID-1141.002	SHT. 2 OF 3	P&ID TANK VAPOUR COMPRESSOR SUCTION SCRUBBER (V-201) TRAIN B	NOTE 1	
50489-530-020-PID-1141.003	SHT. 3 OF 3	P&ID TANK VAPOUR COMPRESSOR SUCTION SCRUBBER (V-301) TRAIN C	NOTE 1	
50489-530-020-PID-1142.001	SHT. 1 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-101) TRAIN A	NOTE 1	
50489-530-020-PID-1142.002	SHT. 2 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-101) (SEAL SYSTEM) TRAIN A	NOTE 1	
50489-530-020-PID-1142.003	SHT. 3 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-101) (SHAFT LINE) TRAIN A	NOTE 1	
50489-530-020-PID-1142.004	SHT. 4 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-101) (LUBE OIL SYSTEM) TRAIN A	NOTE 1	
50489-530-020-PID-1142.005	SHT. 5 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-101) (VIBRATION/TEMP DIAGRAM) TRAIN A	NOTE 1	
50489-530-020-PID-1142.006	SHT. 6 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-201) TRAIN B	NOTE 1	
50489-530-020-PID-1142.007	SHT. 7 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-201) (SEAL SYSTEM) TRAIN B	NOTE 1	
50489-530-020-PID-1142.008	SHT. 8 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-201) (SHAFT LINE) TRAIN B	NOTE 1	
50489-530-020-PID-1142.009	SHT. 9 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-201) (LUBE OIL SYSTEM) TRAIN B	NOTE 1	
50489-530-020-PID-1142.010	SHT. 10 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-201) (VIBRATION/TEMP DIAGRAM) TRAIN B	NOTE 1	
50489-530-020-PID-1142.011	SHT. 11 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-301) TRAIN C	NOTE 1	
50489-530-020-PID-1142.012	SHT. 12 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-301) (SEAL SYSTEM) TRAIN C	NOTE 1	
50489-530-020-PID-1142.013	SHT. 13 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-301) (SHAFT LINE) TRAIN C	NOTE 1	
50489-530-020-PID-1142.014	SHT. 14 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-301) (LUBE OIL SYSTEM) TRAIN C	NOTE 1	
50489-530-020-PID-1142.015	SHT. 15 OF 15	P&ID TANK VAPOUR COMPRESSOR (K-301) (VIBRATION/TEMP DIAGRAM) TRAIN C	NOTE 1	
50489-530-020-PID-1143.001	SHT. 1 OF 3	P&ID TANK VAPOUR COMPRESSOR DISCHARGE SCRUBBER (V-103) TRAIN A	NOTE 1	
50489-530-020-PID-1143.002	SHT. 2 OF 3	P&ID TANK VAPOUR COMPRESSOR DISCHARGE SCRUBBER (V-203) TRAIN B	NOTE 1	
50489-530-020-PID-1143.003	SHT. 3 OF 3	P&ID TANK VAPOUR COMPRESSOR DISCHARGE SCRUBBER (V-303) TRAIN C	NOTE 1	
50489-530-020-PID-1144	SHT. 1 OF 1	P&ID LP SEPARATOR GAS CRUDE OIL ACCUMULATOR (V-003)	NOTE 1	
50489-530-020-PID-1150	SHT. 1 OF 1	P&ID EFFLUENT WATER BALANCE TANK FEED PUMP (G-001A/B, G-002A)	NOTE 1	
50489-530-020-PID-1151.001	SHT. 1 OF 2	P&ID EFFLUENT WATER BALANCE TANK (D-005A)	NOTE 1	
50489-530-020-PID-1151.002	SHT. 2 OF 2	P&ID EFFLUENT WATER BALANCE TANK (D-005B)	NOTE 1	
50489-530-020-PID-1152	SHT. 1 OF 1	P&ID EFFLUENT WATER TRANSFER PUMP (G-007A/B/C)	NOTE 1	
50489-530-020-PID-1153.001	SHT. 1 OF 25	P&ID TREATED WATER TANK (D-006A)	NOTE 1	
50489-530-020-PID-1153.002	SHT. 2 OF 25	P&ID TREATED WATER TRANSFER PUMP (G-011A/B/C)	NOTE 1	
50489-530-020-PID-1153.003	SHT. 3 OF 25	P&ID TREATED WATER DISPOSAL PUMP (G-005A/B/C)	NOTE 1	
50489-530-020-PID-1153.004	SHT. 4 OF 25	P&ID TREATED WATER TANK (D-006B)	NOTE 1	
50489-530-020-PID-1153.005	SHT. 5 OF 25	P&ID TREATED WATER DISPOSAL WELLS	NOTE 1	
50489-530-020-PID-1153.006	SHT. 6 OF 25	P&ID LUBE OIL SYSTEM FOR (G-011A)	NOTE 1	
50489-530-020-PID-1153.007	SHT. 7 OF 25	P&ID SEAL SYSTEM FOR (G-011A)	NOTE 1	
50489-530-020-PID-1153.008	SHT. 8 OF 25	P&ID CONDITION MONITORING FOR G-011A	NOTE 1	
50489-530-020-PID-1153.009	SHT. 9 OF 25	P&ID LUBE OIL SYSTEM FOR (G-011B)	NOTE 1	

CONTRACTOR PROCESS P&ID's				
DRAWING NO.	SHEET	DESCRIPTION	REV.	REMARKS
50489-530-020-PID-1153.010	SHT. 10 OF 25	P&ID SEAL SYSTEM FOR G-011B	NOTE 1	
50489-530-020-PID-1153.011	SHT. 11 OF 25	P&ID CONDITION MONITORING FOR G-011B	NOTE 1	
50489-530-020-PID-1153.012	SHT. 12 OF 25	P&ID LUBE OIL SYSTEM FOR G-011C	NOTE 1	
50489-530-020-PID-1153.013	SHT. 13 OF 25	P&ID SEAL SYSTEM FOR G-011C	NOTE 1	
50489-530-020-PID-1153.014	SHT. 14 OF 25	P&ID CONDITION MONITORING FOR G-011C	NOTE 1	
50489-530-020-PID-1153.015	SHT. 15 OF 25	P&ID LUBE OIL SYSTEM FOR G-005A	NOTE 1	
50489-530-020-PID-1153.016	SHT. 16 OF 25	P&ID SEAL SYSTEM FOR G-005A	NOTE 1	
50489-530-020-PID-1153.017	SHT. 17 OF 25	P&ID CONDITION MONITORING FOR G-005A	NOTE 1	
50489-530-020-PID-1153.018	SHT. 18 OF 25	P&ID LUBE OIL SYSTEM FOR G-005B	NOTE 1	
50489-530-020-PID-1153.019	SHT. 19 OF 25	P&ID SEAL SYSTEM FOR G-005B	NOTE 1	
50489-530-020-PID-1153.020	SHT. 20 OF 25	P&ID CONDITION MONITORING FOR G-005B	NOTE 1	
50489-530-020-PID-1153.021	SHT. 21 OF 25	P&ID LUBE OIL SYSTEM FOR G-005C	NOTE 1	
50489-530-020-PID-1153.022	SHT. 22 OF 25	P&ID SEAL SYSTEM FOR G-005C	NOTE 1	
50489-530-020-PID-1153.023	SHT. 23 OF 25	P&ID CONDITION MONITORING FOR G-005C	NOTE 1	
50489-530-020-PID-1153.024	SHT. 24 OF 25	P&ID AUTOMATIC TOP UP UNIT FOR G-005A/B/C	NOTE 1	
50489-530-020-PID-1153.025	SHT. 25 OF 25	P&ID AUTOMATIC TOP UP UNIT FOR G-011A/B/C	NOTE 1	
50489-530-020-PID-1154.001	SHT. 1 OF 4	P&ID SLOPS TANK (D-007)	NOTE 1	
50489-530-020-PID-1154.002	SHT. 2 OF 4	P&ID SLOPS TANKS PUMP (G-006A/B)	NOTE 1	
50489-530-020-PID-1154.003	SHT. 3 OF 4	P&ID SLOPS MANIFOLD	NOTE 1	
50489-530-020-PID-1154.004	SHT. 4 OF 4	P&ID SLOPS TANK (D-008)	NOTE 1	
50489-530-020-PID-1155	SHT. 1 OF 1	P&ID INLET FUEL GAS SCRUBBER (V-031)	NOTE 1	
50489-530-020-PID-1156.001	SHT. 1 OF 4	P&ID FUEL GAS K.O. DRUM (V-032)	NOTE 1	
50489-530-020-PID-1156.002	SHT. 2 OF 4	P&ID FUEL GAS SCRUBBER (V-033)	NOTE 1	
50489-530-020-PID-1156.004	SHT. 4 OF 4	P&ID FUEL GAS FILTER (L-001A/B)	NOTE 1	
50489-530-020-PID-1157	SHT. 1 OF 1	P&ID LP FUEL GAS DISTRIBUTION	NOTE 1	
50489-530-020-PID-1175	SHT. 1 OF 1	P&ID TV FLARE HEADER	NOTE 1	
50489-530-020-PID-1176	SHT. 1 OF 1	P&ID TV FLARE K.O. DRUM (V-017)	NOTE 1	
50489-530-020-PID-1177.001	SHT. 1 OF 7	P&ID TANK VAPOUR FLARE (Z-030A) TRAIN A	NOTE 1	
50489-530-020-PID-1177.002	SHT. 2 OF 7	P&ID TANK VAPOUR FLARE (Z-030B) TRAIN B	-	VOID
50489-530-020-PID-1177.003	SHT. 3 OF 7	P&ID TANK VAPOUR FLARE (Z-030A) TRAIN A (TV FLARE STACK F-030A)	NOTE 1	
50489-530-020-PID-1177.004	SHT. 4 OF 7	P&ID TANK VAPOR FLARE (Z-030A) TRAIN A (TV FLARE AIR BLOWER B-001 A/B)	NOTE 1	
50489-530-020-PID-1177.005	SHT. 5 OF 7	P&ID TANK VAPOR FLARE (Z-030B) TRAIN B (TV FLARE IGNITION)	NOTE 1	
50489-530-020-PID-1177.006	SHT. 6 OF 7	P&ID TANK VAPOR FLARE (Z-030B) TRAIN B (TV FLARE STACK F-030B)	NOTE 1	
50489-530-020-PID-1177.007	SHT. 7 OF 7	P&ID TANK VAPOR FLARE (Z-030B) TRAIN B (TV FLARE AIR BLOWER B-002A/B)	NOTE 1	
50489-530-020-PID-1178	SHT. 1 OF 1	P&ID HP FLARE HEADER	NOTE 1	
50489-530-020-PID-1179	SHT. 1 OF 1	P&ID HP FLARE K.O. DRUM (V-016A/B)	NOTE 1	
50489-530-020-PID-1180.001	SHT. 1 OF 7	P&ID HP FLARE (Z-029A) TRAIN A	NOTE 1	
50489-530-020-PID-1180.002	SHT. 2 OF 7	P&ID HP FLARE (Z-029B) TRAIN B	-	VOID
50489-530-020-PID-1180.003	SHT. 3 OF 7	P&ID HIGH PRESSURE FLARE (Z-029A) TRAIN A (HP FLARE STACK F-029A)	NOTE 1	
50489-530-020-PID-1180.004	SHT. 4 OF 7	P&ID HIGH PRESSURE FLARE (Z-029A) TRAIN A (HP FLARE AIR BLOWER B-003A/B/C)	NOTE 1	
50489-530-020-PID-1180.005	SHT. 5 OF 7	P&ID HIGH PRESSURE FLARE (Z-029B) TRAIN B (HP FLARE IGNITION)	NOTE 1	
50489-530-020-PID-1180.006	SHT. 6 OF 7	P&ID HIGH PRESSURE FLARE (Z-029B) TRAIN B (HP FLARE STACK F-029B)	NOTE 1	
50489-530-020-PID-1180.007	SHT. 7 OF 7	P&ID HIGH PRESSURE FLARE (Z-029B) TRAIN B (HP AIR BLOWER-B-004A/B/C)	NOTE 1	
50489-530-020-PID-1185	SHT. 1 OF 1	P&ID DEMULSIFIER STORAGE TANK (D-021) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1186	SHT. 1 OF 1	P&ID CORROSION INHIBITOR STORAGE TANK (D-022) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1187	SHT. 1 OF 1	P&ID SCALE INHIBITOR STORAGE TANK (D-023) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1188	SHT. 1 OF 1	P&ID ANTI-FOAM STORAGE TANK (D-024) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1189	SHT. 1 OF 1	P&ID GAS CORROSION INHIBITOR STORAGE TANK (D-025) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1190	SHT. 1 OF 1	P&ID OXYGEN SCAVANGER STORAGE TANK (D-026) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1191	SHT. 1 OF 1	P&ID BIOCID E STORAGE TANK (D-027) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1192	SHT. 1 OF 1	P&ID BIOCID B STORAGE TANK (D-028) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1193	SHT. 1 OF 1	P&ID REVERSE DEMULSIFIER STORAGE TANK (D-029) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1194.001	SHT. 1 OF 5	P&ID CHEMICAL INJECTION SKID #1 -DEMULSIFIER (D-032 & G-032A/B/C/D)	NOTE 1	
50489-530-020-PID-1194.002	SHT. 2 OF 5	P&ID CHEMICAL INJECTION SKID #1-CORROSION INHIBITOR (D-033 & G-033A/B/C/D)	NOTE 1	

GENERAL NOTES:

NOTE:

1. ALL DRAWINGS LATEST REVISION ARE MENTIONED IN ENGINEERING RECORD BOOK INDEX.

AS-BUILT
KOC APPROVAL
NAME / KOC No:
DESIGNATION:
GROUP / TEAM:
SIGNATURE:
DATE:

AS-BUILT
LARSEN & TOUBRO LIMITED
NAME: VAIBHAV VERMA
DESIGNATION: AGM
SIGNATURE:
DATE: 24-Jan-2019
DEPT/ DIVISION: ENGINEERING

Z1	ISSUED FOR AS-BUILT	HSH/ABY	AKG	SRA	RAK	24.01.19
Z0	ISSUED FOR AS-BUILT	HSH/ABY	AKG	SRA	RAK	15.08.18
O1	ISSUED FOR CONSTRUCTION	HSH/ABY	AKG	SRA	RAK	17.09.16
O	ISSUED FOR CONSTRUCTION	PAK/ABY	AKG	SRA	RAK	06.05.16
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	31.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	05.06.15
B	ISSUED INCORPORATED CLIENT COMMENTS	JSI/ISA	AKG	SRA	RAK	20.01.15
A	ISSUED FOR APPROVAL	JSI/ISA	AKG	SRA	RAK	24.11.14
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
				APPROD.		

CONTRACTOR REVISION

KUWAIT OIL CO.	شركة نفط الكويت
K. S. C.	ش.م.ك.
	الهيئة العامة للغذاء والدواء

CONTRACTOR DETAILS:-	LARSEN & TOUBRO LIMITED
	FARIDABAD
PROJECT TITLE:-	NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT

DOCUMENT TITLE:-	PIPING & INSTRUMENTATION DIAGRAM DRAWING INDEX #2
PROJECT NO.	DRAWING NO.
CONTRACTOR DRG. NO.	REV. KOC DRG. NO.
50489-530-020-PID-1100.002	Z1
SHEET NO. 2 OF 4	SHEET NO.
COMPANY DRG. NO.	REV.
EF1902	AB
50489-530-020-PID-0100.002	
SHEET NO.	