

DRAWING INDEX

CONTRACTOR PROCESS P&ID's				
DRAWING NO.	SHEET	DESCRIPTION	REV.	REMARKS
50489-530-020-PID-1100.001	SHT. 1 OF 4	P&ID DRAWING INDEX # 1	NOTE 1	
50489-530-020-PID-1100.002	SHT. 2 OF 4	P&ID DRAWING INDEX # 2	NOTE 1	
50489-530-020-PID-1100.003	SHT. 3 OF 4	P&ID DRAWING INDEX # 3	NOTE 1	
50489-530-020-PID-1100.004	SHT. 4 OF 4	P&ID DRAWING INDEX # 4	NOTE 1	
50489-530-020-PID-1104.001	SHT. 1 OF 3	P&ID STANDARD SYMBOL AND NOMENCLATURE	NOTE 1	
50489-530-020-PID-1104.002	SHT. 2 OF 3	P&ID STANDARD SYMBOL AND NOMENCLATURE	NOTE 1	
50489-530-020-PID-1104.003	SHT. 3 OF 3	P&ID LEGEND SUFFIX DETAILS	NOTE 1	
50489-530-020-PID-1105.001		P&ID STANDARD SYMBOLS AND NOMENCLATURE	--	VOID
50489-530-020-PID-1105.002		P&ID STANDARD DRAWING (TYPICAL INSTRUMENT CONNECTION)	--	VOID
50489-530-020-PID-1106		P&ID STANDARD DRAWING (ESDV,SBDV & MOV DETAILS)	--	VOID
50489-530-020-PID-1106.001	SHT. 1 OF 7	P&ID STANDARD DRAWING (TYPICAL INSTRUMENT CONNECTION)	NOTE 1	
50489-530-020-PID-1106.002	SHT. 2 OF 7	P&ID STANDARD DRAWING (SBDV DETAIL)	NOTE 1	
50489-530-020-PID-1106.003	SHT. 3 OF 7	P&ID STANDARD DRAWING (ESDV DETAIL)	NOTE 1	
50489-530-020-PID-1106.004	SHT. 4 OF 7	P&ID STANDARD DRAWING (XV DETAIL)	NOTE 1	
50489-530-020-PID-1106.005	SHT. 5 OF 7	P&ID STANDARD DRAWING (XV DETAIL)	NOTE 1	
50489-530-020-PID-1106.006	SHT. 6 OF 7	P&ID STANDARD DRAWING (MOV DETAIL)	NOTE 1	
50489-530-020-PID-1106.007	SHT. 7 OF 7	P&ID STANDARD DRAWING (TYPICAL ESD DETAIL)	NOTE 1	
50489-530-020-PID-1107.001		P&ID STANDARD DRAWING (MOV DETAIL)	--	VOID
50489-530-020-PID-1107.002		P&ID STANDARD DRAWING (TYPICAL ESD DETAIL)	--	VOID
50489-530-020-PID-1107.003		P&ID STANDARD DRAWING (XV DETAIL)	--	VOID
50489-530-020-PID-1108.001	SHT. 1 OF 20	P&ID STANDARD DRAWING (PIPING DETAIL)	NOTE 1	
50489-530-020-PID-1108.002	SHT. 2 OF 20	P&ID STANDARD DRAWING (SAMPLER DETAIL)	NOTE 1	
50489-530-020-PID-1108.003	SHT. 3 OF 20	P&ID INDEX : TAG NUMBERING OF CMS	NOTE 1	
50489-530-020-PID-1108.004	SHT. 4 OF 20	P&ID STANDARD DRAWING (PUMP DETAIL)	NOTE 1	
50489-530-020-PID-1108.005	SHT. 5 OF 20	P&ID PUMP DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.006	SHT. 6 OF 20	P&ID PUMP SEAL DRAWING	NOTE 1	
50489-530-020-PID-1108.007	SHT. 7 OF 20	SPARE		
50489-530-020-PID-1108.008	SHT. 8 OF 20	P&ID LEVEL INSTRUMENT VENT & DRAIN	NOTE 1	
50489-530-020-PID-1108.009	SHT. 9 OF 20	SPARE		
50489-530-020-PID-1108.010	SHT. 10 OF 20	P&ID CONTROL VALVE VENT & DRAIN	NOTE 1	
50489-530-020-PID-1108.011	SHT. 11 OF 20	P&ID STRAINER DRAIN LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.012	SHT. 12 OF 20	P&ID STRAINER DRAIN LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.013	SHT. 13 OF 20	P&ID SAMPLE CONNECTION DRAIN LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.014	SHT. 14 OF 20	P&ID SAMPLE CONNECTION DRAIN LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.015	SHT. 15 OF 20	P&ID CONTROL VALVE DRAIN LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.016	SHT. 16 OF 20	P&ID CONTROL VALVE DRAIN LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.017	SHT. 17 OF 20	P&ID CONTROL VALVE DRAIN LINE NUMBERS	NOTE 1	
50489-530-020-PID-1108.018	SHT. 18 OF 20	SPARE		
50489-530-020-PID-1108.019	SHT. 19 OF 20	P&ID STANDARD DRAWING (ANALYSER DETAIL)	NOTE 1	
50489-530-020-PID-1108.020	SHT. 20 OF 20	SPARE		
50489-530-020-PID-1109.001		P&ID STANDARD DRAWING (PUMP DETAIL)	--	VOID
50489-530-020-PID-1109.002		P&ID PUMP SEAL DRAWING	--	VOID
50489-530-020-PID-1109.004		P&ID LEVEL INSTRUMENT VENT & DRAIN	--	VOID
50489-530-020-PID-1109.005		P&ID CONTROL VALVE VENT & DRAIN	--	VOID

CONTRACTOR PROCESS P&ID's				
DRAWING NO.	SHEET	DESCRIPTION	REV.	REMARKS
50489-530-020-PID-1110	SHT. 1 OF 1	P&ID TRUNKLINE MANIFOLD	NOTE 1	
50489-530-020-PID-1111	SHT. 1 OF 1	P&ID INLET HEADER	NOTE 1	
50489-530-020-PID-1113.001	SHT. 1 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1113.002	SHT. 2 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1113.003	SHT. 3 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	

CONTRACTOR PROCESS P&ID's				
DRAWING NO.	SHEET	DESCRIPTION	REV.	REMARKS
50489-530-020-PID-1113.004	SHT. 4 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1113.005	SHT. 5 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1113.006	SHT. 6 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1113.007	SHT. 7 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1113.008	SHT. 8 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1113.009	SHT. 9 OF 9	P&ID LEVEL INSTRUMENTS DRAIN & VENT LINE NUMBERS	NOTE 1	
50489-530-020-PID-1115	SHT. 1 OF 1	P&ID LP WET CRUDE SEPARATOR (C-101) TRAIN A	NOTE 1	
50489-530-020-PID-1116	SHT. 1 OF 1	P&ID LP WET CRUDE SEPARATOR (C-201) TRAIN B	NOTE 1	
50489-530-020-PID-1117	SHT. 1 OF 1	P&ID LP WET CRUDE SEPARATOR (C-301) TRAIN C	NOTE 1	
50489-530-020-PID-1119.001	SHT. 1 OF 4	P&ID WET CRUDE OIL INTERCONNECTION	NOTE 1	
50489-530-020-PID-1119.002	SHT. 2 OF 4	P&ID EFFLUENT WATER INTERCONNECTION	NOTE 1	
50489-530-020-PID-1119.003	SHT. 3 OF 4	P&ID DRAIN & SLOPS INTERCONNECTION	NOTE 1	
50489-530-020-PID-1119.004	SHT. 4 OF 4	P&ID DESALTER TREATED/OFF-SPEC CRUDE INTERCONNECTION	NOTE 1	
50489-530-020-PID-1122	SHT. 1 OF 1	P&ID DUAL CRUDE STORAGE TANK (D-001)	NOTE 1	
50489-530-020-PID-1123	SHT. 1 OF 1	P&ID WET CRUDE STORAGE TANK (D-002)	NOTE 1	
50489-530-020-PID-1124	SHT. 1 OF 1	P&ID DRY CRUDE STORAGE TANK (D-003)	NOTE 1	
50489-530-020-PID-1125.001	SHT. 1 OF 2	P&ID CRUDE BOOSTER PUMP (G-003A/B)	NOTE 1	
50489-530-020-PID-1125.002	SHT. 2 OF 2	P&ID CRUDE BOOSTER PUMP (G-003C)	NOTE 1	
50489-530-020-PID-1126.001	SHT. 1 OF 12	P&ID CRUDE EXPORT PUMP (G-004A/B)	NOTE 1	
50489-530-020-PID-1126.002	SHT. 2 OF 12	P&ID CRUDE EXPORT PUMP (G-004C)	NOTE 1	
50489-530-020-PID-1126.003	SHT. 3 OF 12	P&ID LUBE OIL SYSTEM FOR (G-004A)	NOTE 1	
50489-530-020-PID-1126.004	SHT. 4 OF 12	P&ID SEAL SYSTEM FOR (G-004A)	NOTE 1	
50489-530-020-PID-1126.005	SHT. 5 OF 12	P&ID CONDITION MONITORING FOR (G-004A)	NOTE 1	
50489-530-020-PID-1126.006	SHT. 6 OF 12	P&ID LUBE OIL SYSTEM FOR (G-004B)	NOTE 1	
50489-530-020-PID-1126.007	SHT. 7 OF 12	P&ID SEAL SYSTEM FOR (G-004B)	NOTE 1	
50489-530-020-PID-1126.008	SHT. 8 OF 12	P&ID CONDITION MONITORING FOR (G-004B)	NOTE 1	
50489-530-020-PID-1126.009	SHT. 9 OF 12	P&ID LUBE OIL SYSTEM FOR (G-004C)	NOTE 1	
50489-530-020-PID-1126.010	SHT. 10 OF 12	P&ID SEAL SYSTEM FOR (G-004C)	NOTE 1	
50489-530-020-PID-1126.011	SHT. 11 OF 12	P&ID CONDITION MONITORING FOR (G-004C)	NOTE 1	
50489-530-020-PID-1126.012	SHT. 12 OF 12	P&ID DETAILS & LEGENDS FOR CRUDE OIL EXPORT PUMP G-004A/B/C	NOTE 1	
50489-530-020-PID-1127	SHT. 1 OF 1	P&ID CRUDE EXPORT METER	NOTE 1	
50489-530-020-PID-1130.001	SHT. 1 OF 2	P&ID DESALTER FEED PUMP (G-101A/B/C) TRAIN A	NOTE 1	
50489-530-020-PID-1130.002	SHT. 2 OF 2	P&ID DESALTER FEED PUMP (G-201A/B/C) TRAIN B	NOTE 1	
50489-530-020-PID-1131.001	SHT. 1 OF 2	P&ID DESALTER WASH WATER TANK COMMON & PUMP (G-102A/B/C) TRAIN A	NOTE 1	
50489-530-020-PID-1131.002	SHT. 2 OF 2	P&ID DESALTER WASH WATER PUMP (G-202A/B/C) TRAIN B	NOTE 1	
50489-530-020-PID-1132.001	SHT. 1 OF 2	P&ID DESALTER FEED/DRY CRUDE EXCHANGER (E-101) TRAIN A	NOTE 1	
50489-530-020-PID-1132.002	SHT. 2 OF 2	P&ID DESALTER FEED/DRY CRUDE EXCHANGER (E-201) TRAIN B	NOTE 1	
50489-530-020-PID-1133.001	SHT. 1 OF 16	P&ID DESALTER FEED HEATER BLOWER SYSTEM (F-101A) TRAIN A	NOTE 1	
50489-530-020-PID-1133.002	SHT. 2 OF 16	P&ID DESALTER FEED HEATER FUEL GAS SYSTEM (F-101A) TRAIN A	NOTE 1	
50489-530-020-PID-1133.003	SHT. 3 OF 16	P&ID DESALTER FEED HEATER PILOT GAS SYSTEM (F-101A) TRAIN A	NOTE 1	
50489-530-020-PID-1133.004	SHT. 4 OF 16	P&ID DESALTER FEED HEATER MANAGEMENT SYSTEM (F-101A) TRAIN A	NOTE 1	
50489-530-020-PID-1133.005	SHT. 5 OF 16	P&ID DESALTER FEED HEATER BLOWER SYSTEM (F-101B) TRAIN A	NOTE 1	
50489-530-020-PID-1133.006	SHT. 6 OF 16	P&ID DESALTER FEED HEATER FUEL GAS SYSTEM (F-101B) TRAIN A	NOTE 1	
50489-530-020-PID-1133.007	SHT. 7 OF 16	P&ID DESALTER FEED HEATER PILOT GAS SYSTEM (F-101B) TRAIN A	NOTE 1	
50489-530-020-PID-1133.008	SHT. 8 OF 16	P&ID DESALTER FEED HEATER MANAGEMENT SYSTEM (F-101B) TRAIN A	NOTE 1	
50489-530-020-PID-1133.009	SHT. 9 OF 16	P&ID DESALTER FEED HEATER BLOWER SYSTEM (F-201A) TRAIN B	NOTE 1	
50489-530-020-PID-1133.010	SHT. 10 OF 16	P&ID DESALTER FEED HEATER FUEL GAS SYSTEM (F-201A) TRAIN B	NOTE 1	
50489-530-020-PID-1133.011	SHT. 11 OF 16	P&ID DESALTER FEED HEATER PILOT GAS SYSTEM (F-201A) TRAIN B	NOTE 1	
50489-530-020-PID-1133.012	SHT. 12 OF 16	P&ID DESALTER FEED HEATER MANAGEMENT SYSTEM (F-201A) TRAIN B	NOTE 1	
50489-530-020-PID-1133.013	SHT. 13 OF 16	P&ID DESALTER FEED HEATER BLOWER SYSTEM (F-201B) TRAIN B	NOTE 1	
50489-530-020-PID-1133.014	SHT. 14 OF 16	P&ID DESALTER FEED HEATER FUEL GAS SYSTEM (F-201B) TRAIN B	NOTE 1	
50489-530-020-PID-1133.015	SHT. 15 OF 16	P&ID DESALTER FEED HEATER PILOT GAS SYSTEM (F-201B) TRAIN B	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
01	ISSUED FOR CONSTRUCTION	HSH/ABY	AKG	SRA	RAK	17.09.16
0	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	PEW	DATE
				APPROD.		

CONTRACTOR REVISION

KUWAIT OIL CO. K. S. C.			شركة نفط الكويت ش.م.ك.
CONTRACTOR DETAILS:- LARSEN & TOUBRO LIMITED FARIDABAD			
PROJECT TITLE:- NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT			
DOCUMENT TITLE:- PIPING & INSTRUMENTATION DIAGRAM DRAWING INDEX #1			
PROJECT NO.	DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.
	50489-530-020-PID-1100.001	Z1	
	SHEET NO. 1 OF 4	REV.	SHEET NO.
	COMPANY DRG. NO.	REV.	SHEET NO.
	EF1902-530-020-PID-0100.001	A8	
	SHEET NO.		