DRAWING INDEX

CONTRACTOR PROCESS P&ID's							
DRAWING NO.	SHEET	DESCRIPTION	REV.	REMARKS			
50489-530-020-PID-1194.003	SHT. 3 OF 5	P&ID CHEMICAL INJECTION SKID #1-SCALE INHIBITOR (D-034 & G-034A/B/C/D)	NOTE 1				
50489-530-020-PID-1194.004	SHT. 4 OF 5	P&ID CHEMICAL INJECTION SKID #1-ANTI-FOAM (D-035 & G-035A/B/C/D)	NOTE 1				
50489-530-020-PID-1194.005	SHT. 5 OF 5	P&ID CHEMICAL INJECTION SKID #1-GAS CORROSION INHIBITOR (D-036 & G-036A/B/C/D)	NOTE 1				
50489-530-020-PID-1195.001	SHT. 1 OF 4	P&ID CHEMICAL INJECTION SKID #2-DEMULSIFIER (D-037 & G-037A/B/C)	NOTE 1				
50489-530-020-PID-1195.002	SHT. 2 OF 4	P&ID CHEMICAL INJECTION SKID #2-CORROSION INHIBITOR (D-038 & G-038A/B)	NOTE 1				
50489-530-020-PID-1195.003	SHT. 3 OF 4	P&ID CHEMICAL INJECTION SKID #2-SCALE INHIBITOR (D-039 & G-039A/B)	NOTE 1				
50489-530-020-PID-1195.004	SHT. 4 OF 4	P&ID CHEMICAL INJECTION SKID #2 -GAS CORROSION INHIBITOR (D-040 & G-040A/B/C/D/E)	NOTE 1				
50489-530-020-PID-1196.001	SHT. 1 OF 8	P&ID CHEMICAL INJECTION SKID #3-CORROSION INHIBITOR (D-041 & G-041A/B/C)	NOTE 1				
50489-530-020-PID-1196.002	SHT. 2 OF 8	P&ID CHEMICAL INJECTION SKID #3-SCALE INHIBITOR (D-042 & G-042A/B/C)	NOTE 1				
50489-530-020-PID-1196.004	SHT. 4 OF 8	P&ID CHEMICAL INJECTION-OXYGEN SCAVENGER (G-026A/B/C)	NOTE 1				
50489-530-020-PID-1196.005	SHT. 5 OF 8	P&ID CHEMICAL INJECTION SKID #3-BIOCIDE A (CONTINIOUS DOSING)(D-043 & G-043A/B/C)	NOTE 1				
50489-530-020-PID-1196.006	SHT. 6 OF 8	P&ID CHEMICAL INJECTION SKID #3-BIOCIDE B (CONTINIOUS DOSING)(D-044 & G-044A/B/C)	NOTE 1				
50489-530-020-PID-1196.007	SHT. 7 OF 8	P&ID CHEMICAL INJECTION SKID #3-BIOCIDE A (SHOCK DOSING) (G-043D/E/F/G)	NOTE 1				
50489-530-020-PID-1196.008	SHT. 8 OF 8	P&ID CHEMICAL INJECTION SKID #3-BIOCIDE B (SHOCK DOSING) (G-044D/E/F/G)	NOTE 1				
50489-530-020-PID-1197.001	SHT. 1 0F 7	Paid Chemical Injection Skid #4-corrosion inhibitor (D-045 & G-045A/B/C/D)	NOTE 1				
50489-530-020-PID-1197.001	SHI. 1 0F 7	P&ID CHEMICAL INJECTION SKID #4—CORROSION INHIBITION (D=045 & G=045A/B/C/D) P&ID CHEMICAL INJECTION SKID #4—SCALE INHIBITOR (D=046 & G=046A/B/C/D)	NOTE 1				
50489-530-020-PID-1197.002	SHT. 3 OF 7	PAID CHEMICAL INJECTION SKID #4-SCALE INHIBITOR (U-046 & G-046A/B/C/D) PAID CHEMICAL INJECTION SKID #4-REVERSE DEMULSIFIER (D-047 & G-047A/B/C/D)	NOTE 1				
50489-530-020-PID-1197.003		PAID CHEMICAL INJECTION SKID #4-REVERSE DEMULSIFIER (D-047 & G-047A/B/C/D) PAID CHEMICAL INJECTION SKID #4-BIOCIDE A (CONTINIOUS DOSING) (D-048 & G-048A/B)	NOTE 1				
50489-530-020-PID-1197.004 50489-530-020-PID-1197.005	SHT. 4 OF 7		NOTE 1				
		P&ID CHEMICAL INJECTION SKID #4-BIOCIDE B (CONTINIOUS DOSING) (D-049 & G-049A/B)					
50489-530-020-PID-1197.006	SHT. 6 OF 7	P&ID CHEMICAL INJECTION SKID #4-BIOCIDE A (SHOCK DOSING) (G-048C/D/E/F)	NOTE 1				
50489-530-020-PID-1197.007	SHT. 7 OF 7	P&ID CHEMICAL INJECTION SKID #4-BIOCIDE B (SHOCK DOSING) (G-049C/D/E/F)	NOTE 1				
50489-530-020-PID-1198	SHT. 1 OF 1	P&ID CAUSTIC STORAGE TANK (D-031) AND INJECTION PACKAGE	NOTE 1				
50489-530-020-PID-1199	SHT. 1 OF 1	P&ID COAGULANT/FLOCCULANT STORAGE TANK (D-030) AND DISTRIBUTION	NOTE 1				
50489-530-020-PID-1200	SHT. 1 OF 1	P&ID CHEMICAL INJECTION SKID #5-COAGULANT/FLOCCULANT (D-050 & G-050A/B)	NOTE 1				
50489-530-020-PID-1201	SHT. 1 OF 1	P&ID PLATE HEAT EXCHANGER CLEANING SKID (Z-028)	NOTE 1				
50489-530-020-PID-1203.001	SHT. 1 OF 1	P&ID SAND WASHING DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1203.002	SHT. 1 OF 1	P&ID MANIFOLD AREA GRAVITY DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1203.003	SHT. 1 OF 1	P&ID UTILITY AREA DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1205.001	SHT. 1 OF 12	P&ID PROCESS AREA GRAVITY DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1205.002	SHT. 2 OF 12	P&ID PROCESS AREA (PRESSURISED) DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1205.003	SHT. 3 OF 12	P&ID PROCESS AREA PRESSURISED DRAIN VESSEL (V-097) & PUMPS (G-097A/B)	NOTE 1				
50489-530-020-PID-1205.004	SHT. 4 OF 12	P&ID PROCESS AREA DRAIN VESSEL (V-091) & PUMPS (G-091A/B)	NOTE 1				
50489-530-020-PID-1205.005	SHT. 5 OF 12	P&ID SAND WASHING DRAIN VESSEL (V-098) & PUMPS (G-098A/B)	NOTE 1				
50489-530-020-PID-1205.006	SHT. 6 OF 12	P&ID CRUDE EXPORT AREA DRAIN VESSEL (V-092) & PUMPS (G-092A/B)	NOTE 1				
50489-530-020-PID-1205.007	SHT. 7 OF 12	P&ID WATER TANKAGE AREA DRAIN VESSEL (V-093) & PUMPS (G-093A/B)	NOTE 1				
50489-530-020-PID-1205.008	SHT. 8 OF 12	P&ID UTILITIES AREA DRAIN VESSEL (V-094) & PUMPS (G-094A/B)	NOTE 1				
50489-530-020-PID-1205.009	SHT. 9 OF 12	P&ID MANIFOLD AREA DRAIN VESSEL (V-095) & PUMPS (G-095A/B)	NOTE 1				
50489-530-020-PID-1205.010	SHT. 10 OF 12	P&ID SLOP AREA DRAIN VESSEL (V-096) & PUMPS (G-096A/B)	NOTE 1				
50489-530-020-PID-1205.011	SHT. 11 OF 12	P&ID SUPPORT AREA DRAIN VESSEL (V-099) & PUMPS (G-099A/B)	NOTE 1				
50489-530-020-PID-1205.012	SHT. 12 OF 12	P&ID CRUDE AREA II DRAIN VESSEL (V-090) & PUMPS (G-090A/B)	NOTE 1				
50489-530-020-PID-1206	SHT. 1 OF 1	P&ID CRUDE EXPORT AREA GRAVITY DRAIN SYSTEM	NOTE 1				
50489-530-020-PID-1207.001	SHT. 1 OF 3	P&ID CRUDE AREA II GRAVITY DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1207.002	SHT. 2 OF 3	P&ID SLOPS TANK GRAVITY DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1207.003	SHT. 3 OF 3	P&ID TANKAGE AREA GRAVITY DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1208	SHT. 1 OF 1	P&ID SUPPORT AREA GRAVITY DRAIN SYSTEM HEADER	NOTE 1				
50489-530-020-PID-1209.001	SHT. 1 OF 8	P&ID DRAIN TOWARD IMPOUNDING BASIN (SOUTH)	NOTE 1				
50489-530-020-PID-1209.002	SHT. 2 OF 8	P&ID DRAIN TOWARD IMPOUNDING BASIN (NORTH)	NOTE 1				
50489-530-020-PID-1209.003	SHT. 3 OF 8	P&ID DRAIN TOWARD IMPOUNDING BASIN (WEST)	NOTE 1				
50489-530-020-PID-1209.004	SHT. 4 OF 8	P&ID SECURITY EQUIPMENT BUILDING DRAIN	NOTE 1				
50489-530-020-PID-1209.004	SHT. 5 OF 8	P&ID CONTROL BUILDING & MAIN SUBSTATION BUILDING DRAINS	NOTE 1				
50489-530-020-PID-1209.005	SHT. 6 OF 8	P&ID MAINTENANCE BUILDING DRAINS P&ID MAINTENANCE BUILDING DRAINS	NOTE 1				
		P&ID CHEMICAL TRANSFER PUMP SHELTER DRAINS	-				
50489-530-020-PID-1209.007	SHT. 7 OF 8		NOTE 1				
50489-530-020-PID-1209.008	SHT. 8 OF 8	P&ID TV & CRUDE PUMP HOUSE SUBSTATION BUILDING DRAIN	NOTE 1				

DRAWING NO.	SHEET	CONTRACTOR PROCESS P&ID's DESCRIPTION	REV.	REMARKS
50489-530-020-PID-1210	SHT. 1 OF 1	P&ID DIESEL STORAGE TANK (D-015) AND DISTRIBUTION	NOTE 1	
50489-530-020-PID-1211.001	SHT. 1 OF 2	P&ID CHEMICAL UNLOADING AREA & CHEMICAL EMPTY STORAGE DRAINS	NOTE 1	
50489-530-020-PID-1211.002	SHT. 2 OF 2	P&ID CHEMICAL TRANSFER AREA #2	NOTE 1	
50489-530-020-PID-1215	SHT. 1 OF 1	P&ID EMERGENCY GENERATOR (Z-032)	NOTE 1	
50489-530-020-PID-1217	SHT. 1 OF 1	P&ID STANDBY GENERATOR (Z=031)	NOTE 1	
50489-530-020-PID-1219	SHT. 1 OF 1	P&ID SECURITY SYSTEM BACK-UP GENERATOR (Z-0.3.3)	NOTE 1	
50489-530-020-PID-1220.001	SHT. 1 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 A)	NOTE 1	
50489-530-020-PID-1220.002	SHT. 2 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 B)	† <u>-</u>	VOID
50489-530-020-PID-1220.003	SHT. 3 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 C)	-	VOID
50489-530-020-PID-1220.004	SHT. 4 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 A) FINAL STAGE SEPARATOR	NOTE 1	
50489-530-020-PID-1220.005	SHT. 5 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 A) LUBE OIL SYSTEM	NOTE 1	
50489-530-020-PID-1220.006	SHT. 6 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 B)	NOTE 1	
50489-530-020-PID-1220.007	SHT. 7 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 B) FINAL STAGE SEPARATOR	NOTE 1	
50489-530-020-PID-1220.008	SHT. 8 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 B) LUBE OIL SYSTEM	NOTE 1	
50489-530-020-PID-1220.009	SHT. 9 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 C)	NOTE 1	
50489-530-020-PID-1220.010	SHT. 10 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 C) FINAL STAGE SEPARATOR	NOTE 1	
50489-530-020-PID-1220.011	SHT. 11 OF 16	P&ID INSTRUMENT AIR COMPRESSOR (K-102 C) LUBE OIL SYSTEM	NOTE 1	
50489-530-020-PID-1220.012	SHT. 12 OF 16	P&ID INSTRUMENT AIR DRYER PRE-FILTERS TRAIN A	NOTE 1	
50489-530-020-PID-1220.013	SHT. 13 OF 16	P&ID INSTRUMENT AIR DRYER SYSTEM TRAIN A	NOTE 1	
50489-530-020-PID-1220.014	SHT. 14 OF 16	P&ID INSTRUMENT AIR DRYER PRE-FILTERS TRAIN B	NOTE 1	
50489-530-020-PID-1220.015	SHT. 15 OF 16	P&ID INSTRUMENT AIR DRYER SYSTEM TRAIN B	NOTE 1	
50489-530-020-PID-1220.016	SHT. 16 OF 16	P&ID MOTOR LEGEND FOR INSTRUMENT AIR SYSTEM	NOTE 1	
50489-530-020-PID-1221.002	SHT. 2 OF 6	P&ID INSTRUMENT AIR WET AIR RECEIVER (V-023)	NOTE 1	
50489-530-020-PID-1221.003	SHT. 3 OF 6	P&ID INSTRUMENT AIR DRYER TRAIN A (Z-012A)	-	VOID
50489-530-020-PID-1221.004	SHT. 4 OF 6	P&ID INSTRUMENT AIR DRYER TRAIN B (Z-012B)	-	VOID
50489-530-020-PID-1221.005	SHT. 5 OF 6	P&ID INSTRUMENT AIR RECEIVER (V-021A)	NOTE 1	
50489-530-020-PID-1221.006	SHT. 6 OF 6	P&ID SPARE INSTRUMENT AIR RECEIVER (V-021B)	NOTE 1	
50489-530-020-PID-1222.001	SHT. 1 OF 2	P&ID INSTRUMENT AIR DISTRIBUTION	NOTE 1	
50489-530-020-PID-1222.002	SHT. 2 OF 2	P&ID INSTRUMENT AIR DISTRIBUTION	NOTE 1	
50489-530-020-PID-1223.001	SHT. 1 OF 8	P&ID PLANT AIR COMPRESSOR TRAIN A (K-103A)	NOTE 1	
50489-530-020-PID-1223.002	SHT. 2 OF 8	P&ID PLANT AIR COMPRESSOR TRAIN B (K-103B)	-	VOID
50489-530-020-PID-1223.003	SHT. 3 OF 8	P&ID PLANT AIR COMPRESSOR (K-103A) FINAL STAGE SEPARATOR	NOTE 1	
50489-530-020-PID-1223.004	SHT. 4 OF 8	P&ID PLANT AIR COMPRESSOR PACKAGE (K-103A) LUBE OIL SYSTEM	NOTE 1	
50489-530-020-PID-1223.005	SHT. 5 OF 8	P&ID PLANT AIR COMPRESSOR TRAIN B (K-103B)	NOTE 1	
50489-530-020-PID-1223.006	SHT. 6 OF 8	P&ID PLANT AIR COMPRESSOR (K-103B) FINAL STAGE SEPARATOR	NOTE 1	
50489-530-020-PID-1223.007	SHT. 7 OF 8	P&ID PLANT AIR COMPRESSOR PACKAGE (K-103B) LUBE OIL SYSTEM	NOTE 1	
50489-530-020-PID-1223.008	SHT. 7 OF 8	P&ID MOTOR LEGEND FOR INSTRUMENT AIR SYSTEM	NOTE 1	
50489-530-020-PID-1224	SHT. 1 OF 1	P&ID PLANT AIR RECEIVER (V-022)	NOTE 1	
50489-530-020-PID-1225	SHT. 1 OF 1	P&ID PLANT AIR & UTILITY WATER DISTRIBUTION	-	VOID
50489-530-020-PID-1225.001	SHT. 1 OF 2	P&ID PLANT AIR DISTRIBUTION	NOTE 1	
50489-530-020-PID-1225.002	SHT. 2 OF 2	P&ID UTILITY WATER DISTRIBUTION	NOTE 1	
50489-530-020-PID-1235.001	SHT. 1 OF 2	P&ID POTABLE WATER SYSTEM - BUILDINGS (D-011A/B & G-008A/B)	NOTE 1	
50489-530-020-PID-1235.002	SHT. 2 OF 2	P&ID POTABLE WATER SYSTEM - PROCESS (D-012A/B & G-009A/B)	NOTE 1	
50489-530-020-PID-1236.001	SHT. 1 OF 2	P&ID POTABLE WATER DISTRIBUTION — BUILDINGS	NOTE 1	
50489-530-020-PID-1236.002	SHT. 2 OF 2	P&ID POTABLE WATER DISTRIBUTION - PROCESS	NOTE 1	
50489-530-020-PID-1268	SHT. 1 OF 1	P&ID EFFLUENT WATER TREATMENT PLANT FLOW DISTRIBUTION	NOTE 1	
50489-530-020-PID-1269.001	SHT. 1 0F 3	P&ID INDUCED GAS FLOTATION SYSTEM TRAIN A	NOTE 1	
50489-530-020-PID-1269.002	SHT. 2 OF 3	P&ID INDUCED GAS FLOTATION SYSTEM TRAIN B	NOTE 1	
50489-530-020-PID-1269.003	SHT. 3 OF 3	P&ID INDUCED GAS FLOTATION SYSTEM TRAIN C	NOTE 1	
50489-530-020-PID-1270.001	SHT. 1 0F 3	P&ID IGF RECIRCULATION PUMPS (106A/B) TRAIN A	NOTE 1	
	SHT. 2 OF 3	P&ID IGF RECIRCULATION PUMPS (107A/B) TRAIN B	NOTE 1	
50489-530-020-PID-1270.002	3111. 2 01 0			
50489-530-020-PID-1270.002 50489-530-020-PID-1270.003	SHT. 3 OF 3	P&ID IGF RECIRCULATION PUMPS (108A/B) TRAIN C	NOTE 1	

GENERAL NOTES:

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

AS-BUILT KOC APPROVAL

NAME : VAIBHAV VERMA
DESIGNATION : AGM
SIGNATURE : 1
DATE : 24-Jan-2019
DEPT/ DIVISON : ENGINEERING

		AGL	· De	De.	8.	
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
С	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	31.10.15
00	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	05.06.15
В	ISSUED"INCORPORATED CLIENT COMMENTS*	JSI/VSA	AKG	SRA	RAK	20.01.15
Α	ISSUED FOR APPROVAL	JSI/VSA	AKG	SRA	RAK	24.11.14
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
	DESCRIPTION	Dietmin	OTILOTILE	APPRD.		Dr.I.L

CONTRACTOR REVISION





CONTRACTOR DETAILS:-								
	LAF	RSEN	&	TOUBRO	LIMITED			
\Box		FΑ						
PROJECT TITLE:-				G CENTRE	GC-30			
IN NORTH KUWAIT								

PIPING & INSTRUMENTATION DIAGRAM DRAWING INDEX #3

	DRAWING INDEX #3						
PROJECT NO.	DRAWING NO.						
	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.	REV.			
EF1902	50489-530-020-PID-1100.003	Z1					
	SHEET NO. 3 OF 4		SHEET NO.	1			
	COMPANY DRG. NO.	REV.		Π			
	EF1902-530-DC0-PID-0100.002	88					
	SHEET NO.			1			