

SR NO.	CONTROL VALVE NUMBER	P&ID NO.	TYPE OF CONTROL VALVE	CONTROL VALVE DRAIN / VENT LINE NO. (NOTE-1)	COMMON LINE FOR CONTROL VALVE DRAIN/VENT (NOTE-1)	VENT LINE NO.
91	030-PCV-0501A	50489-530-020-PID-1154.001	B	3/4"-FG-0005-C15B1	N/A	3/4"/2"-BD-0035-C15B1 (NOTE-5)
92	030-PCV-0501B	50489-530-020-PID-1154.001	C	3/4"-VA-0029-C15B1 (NOTE 2)	N/A	N/A
93	030-FCV-0505A	50489-530-020-PID-1154.002	A	3/4"-DD-0071-Q15B	2"-DD-0071-F10B	N/A
94	030-FCV-0505B	50489-530-020-PID-1154.002	A	3/4"-DD-0070-Q15B		N/A
95	030-FCV-0506	50489-530-020-PID-1154.002	A	3/4"-DD-0072-Q15B	2"-DD-0072-F10B	N/A
96	030-PCV-0504A	50489-530-020-PID-1154.004	B	3/4"-FG-0006-C15B1	N/A	3/4"/2"-BD-0036-C15B1 (NOTE-6)
97	030-PCV-0504B	50489-530-020-PID-1154.004	C	3/4"-VA-0030-C15B1 (NOTE 2)	N/A	N/A
98	030-PCV-0522	50489-530-020-PID-1155	G	3/4"-FG-0007-C15B1	3/4"-FG-0007-C15B1	2"-BD-0037-C15B1 (NOTE-3)
99	030-PCV-0523	50489-530-020-PID-1155	G	3/4"-FG-0008-C15B1		
100	030-LCV-0524	50489-530-020-PID-1155	F	3/4"-DD-0073-Q35B/Q15B	2"-DD-0073-F10B	N/A
101	030-PCV-0527A	50489-530-020-PID-1156.001	G	3/4"/2"-FG-0009-C15B1	2"-FG-0009-C15B1	2"-BD-0039-C15B1 (NOTE-3)
102	030-PCV-0527B	50489-530-020-PID-1156.001	G	3/4"/2"-FG-0010-C15B1		
103	030-PCV-0543A	50489-530-020-PID-1157	G	3/4"/2"-FG-0011-C15B1		
104	030-PCV-0543B	50489-530-020-PID-1157	G	3/4"/2"-FG-0012-C15B1		
105	030-PCV-0533A	50489-530-020-PID-1156.002	G	3/4"-FG-0026-C15B1	2"-BD-0056-C15B1	2"-BD-0057-C15B1 (NOTE-3)
106	030-PCV-0533B	50489-530-020-PID-1156.002	G	3/4"-FG-0027-C15B1	2"-BD-0057-C15B1	
107	030-LCV-0529	50489-530-020-PID-1156.001	F	3/4"-DD-0074-Q15B	2"-DD-0074-F10B	N/A
108	030-LCV-0534	50489-530-020-PID-1156.002	F	3/4"-DD-0075-Q15B	2"-DD-0075-F10B	N/A
109	030-PCV-0567	50489-530-020-PID-1175	B	3/4"-FG-0025-C15B1	N/A	3/4"-BD-0055-C15B1 (NOTE-4)
110	030-PCV-1569	50489-530-020-PID-1177.001	B	3/4"-FG-0013-C15B1	N/A	2"-BD-0043-C15B1 (NOTE-4)
111	030-PCV-2569	50489-530-020-PID-1177.002	B	3/4"-FG-0014-C15B1	N/A	2"-BD-0044-C15B1 (NOTE-4)
112	030-PCV-0590	50489-530-020-PID-1178	B	3/4"-FG-0015-C15B1	N/A	3/4"-BD-0045-C15B1 (NOTE-3)
113	030-PCV-0591	50489-530-020-PID-1178	B	3/4"-FG-0016-C15B1	N/A	3/4"-BD-0046-C15B1 (NOTE-3)
114	030-PCV-0592	50489-530-020-PID-1178	B	3/4"-FG-0017-C15B1	N/A	3/4"-BD-0047-C15B1 (NOTE-3)
115	030-PCV-0593	50489-530-020-PID-1178	B	3/4"-FG-0018-C15B1	N/A	2"-BD-0048-C15B1 (NOTE-4)
116	030-PCV-0594	50489-530-020-PID-1178	B	3/4"-FG-0019-C15B1	N/A	2"-BD-0049-C15B1 (NOTE-3)
117	030-PCV-1594	50489-530-020-PID-1180.001	B	3/4"-FG-0020-C15B1	N/A	2"-BD-0050-C15B1 (NOTE-4)
118	030-PCV-2594	50489-530-020-PID-1180.002	B	3/4"-FG-0021-C15B1	N/A	2"-BD-0051-C15B1 (NOTE-4)
119	030-PCV-1270	50489-530-020-PID-1268	B	3/4"-FG-0022-C15B1	N/A	3/4"-BD-0052-C15B1 (NOTE-3)
120	030-PCV-2270	50489-530-020-PID-1268	B	3/4"-FG-0023-C15B1	N/A	3/4"-BD-0053-C15B1 (NOTE-3)
121	030-PCV-3270	50489-530-020-PID-1268	B	3/4"-FG-0024-C15B1	N/A	3/4"-BD-0054-C15B1 (NOTE-3)
122	030-FCV-1272	50489-530-020-PID-1268	A	3/4"-DD-0076-Q15B	2"-DD-0076-F10B	N/A
				2"-DD-0076-Q15B/C15B		
123	030-FCV-2272	50489-530-020-PID-1268	A	3/4"-DD-0077-Q15B	2"-DD-0077-F10B	N/A
				2"-DD-0077-Q15B/C15B		
124	030-FCV-3272	50489-530-020-PID-1268	A	3/4"-DD-0078-Q15B	2"-DD-0078-F10B	N/A
				2"-DD-0078-Q15B/C15B		
125	030-FCV-0281	50489-530-020-PID-1268	A	3/4"-DD-0079-Q15B	2"-DD-0079-F10B	N/A
126	030-PCV-1273	50489-530-020-PID-1269.001	B	3/4"-BD-0022-C15B1 (NOTE-3)	N/A	N/A
127	030-PCV-2273	50489-530-020-PID-1269.002	B	3/4"-BD-0023-C15B1 (NOTE-3)	N/A	N/A
128	030-PCV-3273	50489-530-020-PID-1269.003	B	3/4"-BD-0024-C15B1 (NOTE-3)	N/A	N/A
129	030-PCV-0060A	50489-530-020-PID-1140	G	3/4"-PG-0019-C15B1	N/A	3/4"-VA-0019-C15B1 (NOTE 2)
130	030-PCV-0060B	50489-530-020-PID-1140	G	3/4"-PG-0020-C15B1	N/A	3/4"-VA-0020-C15B1 (NOTE 2)
131	030-PCV-0060C	50489-530-020-PID-1140	G	3/4"-PG-0021-C15B1	N/A	3/4"-VA-0021-C15B1 (NOTE 2)

GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
B. ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530--.
C. ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030--.
D. FOR TYPICAL INSTRUMENT CONNECTION, SBOV, XV, MOV & ESOV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007.
E. FOR MISCELLANEOUS PIPING TYPICAL VALVING, DRAINAGE & GENERAL ARRANGEMENT OF LEVEL INSTRUMENTS, PUMPS, STRAINERS & CONTROL VALVES SEE DRAWINGS 50489-530-020-PID-1108.001 TO 1108.010.
F. DRAWING NUMBERS SHOWN IN P&ID CONTINUATION BOXES ARE ABBREVIATED SHOWING DRAWING SEQUENTIAL NUMBERS ONLY. THE FULL FORM OF THE DRAWING NUMBER IS 50489-530-020-PID-XXXX.SHT.NO.
G. FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
H. DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
I. PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
J. LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHE-1009.
L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

1. FOR CONTROL VALVE DRAIN/VENT DETAILS REFER P&ID-- 50489-530-020-PID-1108.010.
2. VENT TO SAFE LOCATION.
3. ROUTED TO HP FLARE, REFER P&ID-- 50489-530-020-PID-1178.
4. ROUTED TO TV FLARE, REFER P&ID-- 50489-530-020-PID-1175.
5. FOR CONTINUATION REFER P&ID 1154.001.
6. FOR CONTINUATION REFER P&ID 1154.004.

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

AS-BUILT
LARSEN & TOUBRO LIMITED
NAME : VAIBHAV VERMA
DESIGNATION : AGM
SIGNATURE :
DATE : 27-SEP-2018
DEPT/ DIVISION : ENGINEERING

Z1	RE-ISSUED FOR AS-BUILT	HSH/CHS	AKG	SRA	RAK	27.09.18
Z0	ISSUED FOR AS-BUILT	HSH/CHS	AKG	SRA	RAK	25.08.18
0	ISSUED FOR CONSTRUCTION	HSH/CHS	AKG	SRA	RAK	05.08.16
B	ISSUED INCORPORATED CLIENT COMMENTS	PAK/VAJ	AKG	SRA	RAK	09.06.16
A	ISSUED FOR APPROVAL	PAK/VAJ	AKG	SRA	RAK	25.04.16
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE

CONTRACTOR REVISION

KUWAIT OIL CO.	شركة نفط الكويت
K. S. C.	ش.م.ك.
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 CONTROL VALVE DRAIN LINE NUMBERS-3	
PROJECT NO.	DRAWING NO.
CONTRACTOR DRG. NO. 50489-530-020-PID-1108.017	REV. KOC DRG. NO. Z1
SHEET NO. 17 OF 20	SHEET NO.
COMPANY DRG. NO.	REV.
SHEET NO.	