

SR. NO.	STRAINER TAG NO.	TYPE OF STRAINER	EQUIPMENT NUMBER	P&ID NO.	DRAIN LINE	U/G DRAIN LINE
31	530-SP-S-2311	DUPLEX STRAINER	RECYCLE EFFLUENT WATER PUMP (530-G-203A/B/C)	50489-530-020-PID-1138.002	3/4"-DD-0190-N30B	3/4"-DD-0505-N30B / 2"-DD-0504-N10B/ F10B
32	530-SP-S-2312	DUPLEX STRAINER		50489-530-020-PID-1138.002	3/4"-DD-0191-N30B	3/4"-DD-0511-N30B / 2"-DD-0510-N10B/ F10B
33	530-SP-S-2313	DUPLEX STRAINER		50489-530-020-PID-1138.002	3/4"-DD-0192-N30B	3/4"-DD-0517-N30B / 2"-DD-0516-N10B/ F10B
34	530-SP-S-0911	DUPLEX STRAINER	PRESSURISED DRAIN VESSEL PUMP (530-G-097A/B)	50489-530-020-PID-1205.003	3/4"-DD-0193-Q15B	2"-DD-0193-F10B
35	530-SP-S-0912	DUPLEX STRAINER		50489-530-020-PID-1205.003	3/4"-DD-0194-Q15B	2"-DD-0194-F10B
36	530-SP-S-0741	DUPLEX STRAINER	SLOPS TANK PUMPS (530-G-006 A/B)	50489-530-020-PID-1154.002	3/4"-DD-0195-C35B	2"-DD-0195-F10B
37	530-SP-S-0742	DUPLEX STRAINER		50489-530-020-PID-1154.002	3/4"-DD-0196-C35B	2"-DD-0196-F10B
38	530-SP-S-0701	DUPLEX STRAINER	BALANCE TANK FEED PUMPS (530-G-001A/B, 530-G-002)	50489-530-020-PID-1150	3/4"-DD-0197-Q15B	2"-DD-0197-F10B
39	530-SP-S-0702	DUPLEX STRAINER		50489-530-020-PID-1150	3/4"-DD-0198-Q15B	2"-DD-0198-F10B
40	530-SP-S-0703	DUPLEX STRAINER		50489-530-020-PID-1150	3/4"-DD-0199-Q15B	2"-DD-0199-F10B
41	530-SP-S-0711	DUPLEX STRAINER	EFFLUENT WATER TRANSFER PUMP (530-G-007A/B/C)	50489-530-020-PID-1152	3/4"-DD-0200-Q15B	2"-DD-0200-F10B
42	530-SP-S-0712	DUPLEX STRAINER		50489-530-020-PID-1152	3/4"-DD-0201-Q15B	2"-DD-0201-F10B
43	530-SP-S-0713	DUPLEX STRAINER		50489-530-020-PID-1152	3/4"-DD-0202-Q15B	2"-DD-0202-F10B
44	530-SP-S-1901	DUPLEX STRAINER	WASH WATER FEED PUMP (530-G-102 A/B/C)	50489-530-020-PID-1131.001	3/4"-DD-0203-Q35A	N/A (NOTE 2)
45	530-SP-S-1902	DUPLEX STRAINER		50489-530-020-PID-1131.001	3/4"-DD-0204-Q35A	N/A (NOTE 2)
46	530-SP-S-1903	DUPLEX STRAINER		50489-530-020-PID-1131.001	3/4"-DD-0205-Q35A	N/A (NOTE 2)
47	530-SP-S-2901	DUPLEX STRAINER	WASH WATER FEED PUMP (530-G-202 A/B/C)	50489-530-020-PID-1131.002	3/4"-DD-0206-Q35A	N/A (NOTE 2)
48	530-SP-S-2902	DUPLEX STRAINER		50489-530-020-PID-1131.002	3/4"-DD-0207-Q35A	N/A (NOTE 2)
49	530-SP-S-2903	DUPLEX STRAINER		50489-530-020-PID-1131.002	3/4"-DD-0208-Q35A	N/A (NOTE 2)
50	530-SP-S-9001	DUPLEX STRAINER	FIRE WATER PUMP (530-G-053 A/B/C)	50489-530-000-PID-1111.001	3/4"-DD-0209-Q35A/C35B (Note-2)	N/A (NOTE 2)
51	530-SP-S-9002	DUPLEX STRAINER		50489-530-000-PID-1111.002	3/4"-DD-0210-Q35A/C35B (Note-2)	N/A (NOTE 2)
52	530-SP-S-9003	DUPLEX STRAINER		50489-530-000-PID-1111.003	3/4"-DD-0211-Q35A/C35B (Note-2)	N/A (NOTE 2)
53	530-SP-S-9004	Y- STRAINER	FIRE WATER JOCKEY PUMP (530-G-054 A/B)	50489-530-000-PID-1113	3/4"-DD-0212-Q35A (Note-2)	N/A (NOTE 2)
54	530-SP-S-9005	Y- STRAINER		50489-530-000-PID-1113	3/4"-DD-0213-Q35A (Note-2)	N/A (NOTE 2)
55	530-SP-S-0721	DUPLEX STRAINER	TREATED WATER TRANSFER PUMP (530-G-011 A/B/C)	50489-530-020-PID-1153.002	3/4"-DD-0214-Q35B/Q15B	2"-DD-0214-F10B
56	530-SP-S-0722	DUPLEX STRAINER		50489-530-020-PID-1153.002	3/4"-DD-0215-Q35B/Q15B	2"-DD-0215-F10B
57	530-SP-S-0723	DUPLEX STRAINER		50489-530-020-PID-1153.002	3/4"-DD-0216-Q35B/Q15B	2"-DD-0216-F10B
58	530-SP-S-0731	DUPLEX STRAINER	TREATED WATER DISPOSAL PUMP (530-G-005 A/B/C)	50489-530-020-PID-1153.003	3/4"-DD-0217-Q95B/Q15B	2"-DD-0217-F10B
59	530-SP-S-0732	DUPLEX STRAINER		50489-530-020-PID-1153.003	3/4"-DD-0218-Q95B/Q15B	2"-DD-0218-F10B
60	530-SP-S-0733	DUPLEX STRAINER		50489-530-020-PID-1153.003	3/4"-DD-0219-Q95B/Q15B	2"-DD-0219-F10B

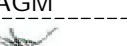
GENERAL NOTES:

- 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, SBDV, XV, MOV & ESDV 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-PHL-1009.
L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

1. FOR STRAINER DRAIN DETAILS REFER P&ID:- 50489-530-020-PID-1108.004.
2. DRAIN OF BRACKISH WATER AND POTABLE WATER IS ROUTED TO GRADE LEVEL.

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

AS-BUILT
LARSEN & TOUBRO LIMITED
NAME : VAIBHAV VERMA
DESIGNATION : AGM
SIGNATURE : 
DATE : 05-Aug-2018
DEPT/ DIVISION : ENGINEERING

ZO	ISSUED FOR AS-BUILT	HSB/CHS	AKG	SRA	RAK	05.08.18
O	ISSUED FOR CONSTRUCTION	HSB/CHS	AKG	SRA	RAK	05.08.16
B	ISSUED INCORPORATED CLIENT COMMENTS	HSB/VAJ	AKG	SRA	RAK	02.06.16
A	ISSUED FOR APPROVAL	HSB/VAJ	AKG	SRA	RAK	19.04.16
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
				APPRD.		

CONTRACTOR REVISION



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

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

DOCUMENT TITLE:-
PIPING & INSTRUMENTATION DIAGRAM
STRAINER DRAIN LINE NUMBERS

PROJECT NO.	DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.
	50489-530-020-PID-1108.012	ZO	
	SHEET NO. 12 OF 20		SHEET NO.
	COMPANY DRG. NO.	REV.	
	SHEET NO.		