



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. DELETED.
2. DELETED.
3. BELOW GROUND TANK.
4. 2" SPARGE PIPE WITH 0.375" HOLES EVERY 0.5m ALONG THE LINE.
5. SPRING LOADED BALL VALVE.
6. NOZZLE FOR SLUDGE HOLDING TANK PUMP INSTALLATION (OPTION).
7. CONNECTION FOR NITROGEN PURGE.
8. SLUDGE HOLDING TANK IS SUITABLY LINED TO PREVENT CORROSION DUE TO VERY HIGH SALINITY OF EFFLUENT WATER.
9. DELETED.
10. PROVIDED WEEP HOLE AT LOW POINT.
11. DELETED.
12. VENT TO SAFE LOCATION AS PER KOC-G-002.
13. AIR UNIT IS KEPT AT PLATFORM OUTSIDE THE PIT.
14. DRAIN OUTLET IS ROUTED TO DRAIN PUMP SUCTION PIT.
15. LOCATED THE VALVE NEAR TO BRACKISH WATER HEADER.
16. LOCATED AT GRADE.
17. PG-0277 IS READABLE FROM EWTP DRAIN PUMP G-020 AIR UNIT.
18. CO INDICATE CLEAN-OUT FLANGE.
19. STILLING WELL FOR LIT-0271.

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

AS-BUILT
LARSEN & TOUBRO LIMITED
NAME : VAIBHAV VERMA
DESIGNATION : AGM
SIGNATURE :
DATE : 09-Aug-2018
DEPT/ DIVISION : ENGINEERING

Z0	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	09.08.18
Z	ISSUED FOR CONSTRUCTION	BAK/SSI	AKG	SRA	RAK	22.11.16
1	RE-ISSUED FOR CONSTRUCTION	HSB/ABY	AKG	SRA	RAK	14.06.16
0	ISSUED FOR CONSTRUCTION	PAK/ABY	AKG	SRA	RAK	13.04.16
D	ISSUED INCORPORATED CLIENT COMMENTS	JSI/ABY	AKG	SRA	RAK	31.12.15
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	20.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	02.06.15
B	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	20.02.15
A	ISSUED FOR APPROVAL	PK/VSA	AKG	SRA	RAK	05.12.14
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
EFFLUENT WATER TREATMENT PLANT VENT SYSTEM
& SLUDGE TANK (V-004)

PROJECT NO.	DRAWING NO.
CONTRACTOR DRG. NO.	REV. KOC DRG. NO.
50489-530-020-PID-1274	Z0
SHEET NO. 1 OF 1	SHEET NO.
COMPANY DRG. NO.	REV.
EF1902-530-DCO-PID-0274.001	A1
SHEET NO.	