



GENERAL NOTES:

- FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
- ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530--.
- ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030--.
- FOR TYPICAL INSTRUMENT CONNECTION, SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007.
- 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.
- 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.
- FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
- DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
- PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
- LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
- FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
- FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

- CHEMICAL INJECTION NOZZLE TYPICAL DETAIL, SEE STANDARD DRAWING 50489-530-020-PID-1108.001 & KOC-MP-035. MINIMUM 100 SPACING BETWEEN INJECTION POINTS.
- REMOVABLE SPOOL TO MONITOR SCALE BUILD UP.
- MULTIPLE LEVEL GAUGES ARE PROVIDED TO COVER ALL OPERATING RANGES.
- DELETED.
- BIRD SCREEN IS REQUIRED.
- DELETED.
- CONSIDERATION TO BE GIVEN FOR MAINTENANCE OF WASH WATER SYSTEM AS SCALING CAN FOUL VALVES.
- PUMPS HAVE BEEN SIZED BASED ON A WASH WATER FLOW RATE OF 10% OF DRY CRUDE FLOW RATE.
- TWO OFF 50% PUMPS OPERATING AND ONE OFF 50% STANDBY.
- DELETED.
- TANK IS SIZED FOR 18.3 HOURS OF WASH WATER AT A WASH WATER RATE OF 10% OF DRY CRUDE.
- CONNECTION FOR FIREWATER TANKER.
- 2 OUT OF 3 VOTING.
- DELETED.
- DISSIMILAR TYPE CHECK VALVES.
- DELETED.
- GAS BLANKETING IS NOT REQUIRED.
- INTERCONNECTION BETWEEN DESALTER TRAIN A&B.
- CC & CP ARE INSTALLED AT MINIMUM DISTANCE OF 10D (DIAMETER OF PIPE) FROM THE CHEMICAL INJECTION POINT AS PER KOC-MP-035.
- FOR CORROSION MONITORING STATIONS (CMS):-
 - (a) CMS ARE INSTALLED AS PER KOC-MP-035.
 - (b) PROPER ACCESS PIT OR PLATFORM ARE PROVIDED FOR RETRIEVAL OF COUPEN/PROBE.
 - (c) MATERIAL FOR CMS ARE PROCURED FROM KOC APPROVED VENDOR LIST.
 - (d) CMS ARE LOCATED IN BOTTOM 6 O'CLOCK POSITION.
 - (e) TAG NUMBERING OF CMS IS AS PER APPENDIX-C OF KOC-MP-035.
- VALVE IS ENCLOSED IN CONCRETE PIT.
- STRAIGHT LENGTH REQUIREMENT FOR ORIFICE FLOW METER SHALL BE 20D UPSTREAM & 5D DOWNSTREAM.
- ALL PIPE WORK ARE INSULATED TO PROTECT THE FLOW FROM HEAT BUILD UP DUE TO SOLAR RADIATION.
- CLEAN OUT DOORS.

Z1	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	17.10.18
Z0	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	24.09.18
01	ISSUED FOR CONSTRUCTION	BAK/SSI	AKG	SRA	RAK	10.11.16
0	ISSUED FOR CONSTRUCTION	HSB/VSA	AKG	SRA	RAK	22.03.16
D	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	22.01.16
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	15.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	30.05.15
B	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	17.02.15
A	ISSUED FOR APPROVAL	BAK/VSA	AKG	SRA	RAK	29.11.14
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE

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 DESALTER WASH WATER TANK COMMON & PUMP (G-102A/B/C) TRAIN A**

PROJECT NO.	DRAWING NO.	REV.	KOC DRG. NO.	REV.
50489-530-020-PID-1131.001	Z1			
SHEET NO. 1 OF 2				
COMPANY DRG. NO.	REV.			
EF1902-530-DCO-PID-0131.001	A3			
SHEET NO.				