



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 CL, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
- PAINING & 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:

- LOW LOW CRUDE LEVEL OF DUAL/WET CRUDE TANK(S) STOPS ALL ON LINE PUMPS.
- SUCTION LINES ARE SIZED FOR BOTH DESALTER TRAINS TAKING FEED FROM ONE TANK.
- FOR CHEMICAL INJECTION NOZZLE DETAIL, SEE STANDARD DRAWING 50489-530-020-PID-1108.001.
- DUPLEX STRAINERS WITH PROPER DRAINAGE TO DRAIN SYSTEM. REFER P&ID-- 50489-530-020-PID-1108.004.
- SUCTION LINES FROM D-001 (PID-1122) & D-002 (PID-1123) TO COMMON PUMP SUCTION HEADER ARE DESIGNED AS CLOSE TO SYMMETRICAL PIPING AS PRACTICAL.
- DELETED.
- SUCTION & DISCHARGE HEADER PIPING HAS BEEN SIZED BASED ON RECYCLING OF 43% OF THE FEED BACK TO THE WET CRUDE/DUAL CRUDE TANKS. PUMP SIZED FOR NO RECYCLING.
- DELETED.
- CONNECTION FOR EXTRA PUMP TO BE USED FOR RECYCLING OF 43% OF THE FEED BACK TO THE WET/DUAL TANKS. RECYCLING HOT WET OIL COULD BE USED TO INCREASE TEMPERATURE IN WET TANKS.
- DISSIMILAR TYPE CHECK VALVES.
- REFER TO P&ID 1108.006 FOR TYPICAL SEAL SYSTEM
- DELETED.
- TWO OFF 50% PUMPS OPERATING AND ONE OFF 50% STANDBY.
- PURGE CONNECTION IS PROVIDED TO PURGE THE PUMP FROM SUCTION LINE TO DISCHARGE LINE.
- FOR CORROSION MONITORING STATIONS (CMS)--
 - CMS ARE INSTALLED AS PER KOC-MP-035.
 - PROPER ACCESS PIT OR PLATFORM ARE PROVIDED FOR RETRIEVAL OF COUPEN/PROBE.
 - MATERIAL FOR CMS ARE PROCURED FROM KOC APPROVED VENDOR LIST.
 - CMS ARE LOCATED IN BOTTOM 6 O'CLOCK POSITION.
 - TAG NUMBERING OF CMS IS AS PER APPENDIX-C OF KOC-MP-035.
- CC & CP ARE INSTALLED AT MINIMUM DISTANCE OF 10 D (D-DIAMETER OF PIPE) FROM THE CHEMICAL INJECTION POINT AS PER KOC-MP-035.
- ALL A/G PIPING SUPPORTS & MOV'S ARE FIRE PROOFED INSIDE THE DESALTER FEED PUMP SHELTER.
- STRAIGHT LENGTH REQUIREMENT FOR ORIFICE FLOW METER ARE 20D UPSTREAM & 5D DOWNSTREAM.
- FUTURE CONNECTION SHALL BE PROVIDED BY OTHER CONTRACTOR.

Z1	RE-ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	27.09.18
Z0	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	15.08.18
D1	ISSUED FOR CONSTRUCTION	BAK/SSI	AKG	SRA	RAK	02.12.16
D	ISSUED FOR CONSTRUCTION	HSH/VSA	AKG	SRA	RAK	28.03.16
D	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	22.12.15
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	16.10.15
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. **شركة نفط الكويت**
K. S. C. **ك. 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 FEED PUMP (G-201A/B/C) TRAIN B

PROJECT NO.	DRAWING NO.	REV.
CONTRACTOR DRG. NO.	REV. KOC DRG. NO.	REV.
50489-530-020-PID-1130.002	Z1	
SHEET NO. 2 OF 2	SHEET NO.	
COMPANY DRG. NO.	REV.	
EF1902-530-DCO-PID-0130.001	A2	
SHEET NO.		