

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, SBV, XY, 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. ALL THE DRAINS FROM THE COMPRESSOR PACKAGE/VESSELS ARE COMBINED INTO A COMMON HEADER AND ROUTED TO THE NEAREST SNALE/SINKAWAY.
- 2. PACKAGE TO INCLUDES AFTER/INTERCOOLERS, MOISTURE SEPARATORS AND ALL NECESSARY INSTRUMENTATION AND CONTROLS. ALL COOLING BY AMBIENT AIR.
- 3. VENT TO SAFE LOCATION.
- 4. INTERCOOLER, AFTERCOOLER & THE LUBE OIL COOLER ARE INSTALLED ON THE SAME BAY. FANS PHILOSOPHY IS 3x50% FANS ARE COMMON TO INTERCOOLER/AFTERCOOLER/LUBE OIL COOLER.
- 5. DELETED
- 6. DELETED
- 7. WEEP HOLE AT LOW POINT OF PSV OUTLET LINE
- 8. DELETED
- 9. THESE ARE THE IN-LINE SILENCERS.
- 10. FOR CONTINUATION, SEE DRAWING 50489-530-020-PID-1220.001.
- 11. XV-6192 OPENS DURING AN EMERGENCY SHUT DOWN.
- 12. IN CASE OF FAULT OF ONE AIR COOLER OR IN CASE OF HIGH TEMPERATURE ON INTER COOLER OUTLET TIT-6187/AFTER COOLER OUTLET TIT-6190, SPARE COOLER FAN WILL START.
- 13. IF CASE OF ONE COOLER FAN FAILS, THE SPARE COOLER FAN WILL START & IF ANOTHER COOLER FAN FAILS, THEN COMPRESSOR WILL TRIP.
- 14. RELIEF VALVE INLET VALVES ARE KEY INTERLOCKED SUCH THAT ONE RELIEF VALVE IS ALWAYS ON-LINE.
- 15. FOR SET POINTS OF ALARM, REFER TO VENDOR DOCUMENT "50489-530-020-00048-LST-V002 ALARM & TRIP SET-POINT SUMMARY FOR INSTRUMENT AIR COMPRESSOR AND DRYER PACKAGE"
- 16. DURING COMPRESSOR RUNNING THE VALVES XV-6191 & XV-6194 WILL OPEN EVERY 5 MINUTES AND KEEP OPEN FOR 10 SECONDS. IN CASE OF HIGH LEVEL LAH-6185 AND LAH-6186, THE RELEVANT VALVE (XV-6191 / XV-6194) WILL OPEN.
- 17. FOR MORE DETAIL, REFER 50489-530-020-PID-1220.016.
- 18. PACKAGE LOGIC IS IMPLEMENTED IN PACKAGE PLC. ALL RELEVANT SIGNALS ARE TRANSFERRED TO DCS FOR SMOOTH OPERATION FROM DCS.
- 19. MECHANICAL PREDISPOSITION FOR TEMPORARY INSTALLATION OF PRESSURE AND TEMPERATURE INSTRUMENTS RE INSTALLED ON COOLERS. THESE CONNECTIONS ARE NPT TYPE AND ARE 3/4" FOR PRESSURE INSTRUMENTS AND 1" FOR THERMOWELL. FOR MORE INFORMATION REFER TO VENDOR DOCUMENT "50489-530-040-00048-DTL-V005 FABRICATION DRAWING FOR INSTRUMENT & PLANT AIR COOLERS".
- 20. VENDOR PID NO: 50489-530-020-00048-PID-V001 SHEET 1 OF 3.

AS-BUILT
KOC APPROVAL

NAME / KOC No:	
DESIGNATION:	
GROUP / TEAM:	
SIGNATURE:	
DATE:	

AS-BUILT
LARSEN & TOUBRO LIMITED

NAME:	VAIBHAV VERMA
DESIGNATION:	AGM
SIGNATURE:	
DATE:	01-SEP-2018
DEPT/ DIVISION:	ENGINEERING

REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
20	ISSUED FOR AS-BUILT	HSB/ABY	AKG	SRA	RAK	01.09.18
01	ISSUED FOR CONSTRUCTION	HSB/ABY	AKG	SRA	RAK	22.08.16
0	ISSUED FOR CONSTRUCTION	PAK/ABY	AKG	SRA	RAK	10.06.16
B	ISSUED INCORPORATED CLIENT COMMENTS	PAK/ABY	AKG	SRA	RAK	13.05.16
A	ISSUED FOR APPROVAL	JSI/ABY	AKG	SRA	RAK	29.10.15

CONTRACTOR REVISION




KUWAIT OIL CO.
K. S. C.

شركة نفط الكويت
ش.م.ك.

الهيئة العامة للغذاء والدواء
A 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			
IA COMPRESSOR (K-102A) FINAL STAGE SEPARATOR			
PROJECT NO.	DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.
	50489-530-020-PID-1220.004	20	
	SHEET NO. 4 OF 16	REV.	SHEET NO.
	COMPANY DRG. NO.	REV.	
	EF1902-530-DCO-PID-0220.001	A3	
	SHEET NO.		