



## GENERAL NOTES:

- FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
- ALL EQUIPMENT NUMBERS SHOWN ON THIS PID ARE PRECEDED BY 530-.
- ALL INSTRUMENT NUMBERS SHOWN ON THIS PID ARE PRECEDED BY 030-.
- FOR TYPICAL INSTRUMENT CONNECTION, SBOV, 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 PAID 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.
- PAINING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
- LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN PID.
- FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
- FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

## NOTES:

- ALL THE DRAINS FROM THE COMPRESSOR PACKAGE/VESSELS ARE COMBINED INTO A COMMON HEADER AND ROUTED TO THE NEAREST SNALE/SOAKAWAY.
- PACKAGE TO INCLUDES AFTER/INTERCOOLERS, MOISTURE SEPARATORS AND ALL NECESSARY INSTRUMENTATION AND CONTROLS. ALL COOLING BY AMBIENT AIR.
- VENT TO SAFE LOCATION.
- 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.
- DELETED
- DELETED
- WEEP HOLE AT LOW POINT OF PSV OUTLET LINE
- DELETED
- THESE ARE THE IN-LINE SILENCERS.
- FOR CONTINUATION, SEE DRAWING 50489-530-020-PID-1220.001.
- XV-6227 VALVE OPENS WHEN COMPRESSOR STOPS.
- IN CASE OF FAULT OF ONE AIR COOLER OR IN CASE OF HIGH TEMPERATURE ON INTER COOLER OUTLET TIT-6222/ AFTER COOLER OUTLET TIT-6225, SPARE COOLER FAN WILL START.
- IF CASE OF ONE COOLER FAN FAILS, THE SPARE COOLER FAN WILL START & IF ANOTHER FAN FAILS THEN COMPRESSOR WILL TRIP.
- RELIEF VALVE INLET VALVES ARE KEY INTERLOCKED SUCH THAT ONE RELIEF VALVE IS ALWAYS ON-LINE.
- FOR SET POINTS OF ALARM, REFER TO THE VENDOR DOCUMENT "50489-530-020-00048-LST-V003 ALARM & TRIP SET-POINT SUMMARY FOR PLANT AIR COMPRESSOR PACKAGE".
- DURING COMPRESSOR RUNNING THE VALVES XV-6226 AND XV-6230 WILL OPEN EVERY 5 MINUTES AND KEEP OPEN FOR 10 SECONDS. IN CASE OF HIGH LEVEL LAH-6220 AND LAH-6221, THE RELEVANT VALVE (XV-6226 / XV-6230) WILL OPEN.
- FOR MORE DETAIL, REFER 50489-530-020-PID-1223.008.
- PACKAGE LOGIC IS IMPLEMENTED IN PACKAGE PLC. ALL RELEVANT SIGNALS ARE TRANSFERRED TO DCS FOR SMOOTH OPERATION FROM DCS.
- MECHANICAL PREDISPOSITION FOR TEMPORARY INSTALLATION OF PRESSURE AND TEMPERATURE INSTRUMENTS ARE 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".
- VENDOR PID NO: 50489-530-020-00048-PID-V002 SHEET 2 OF 4.

AS-BUILT	AS-BUILT
KOC APPROVAL	LARSEN & TOUBRO LIMITED
NAME / KOC No:	NAME : VAIBHAV VERMA
DESIGNATION :	DESIGNATION : AGM
GROUP / TEAM :	SIGNATURE :
SIGNATURE :	DATE : 20-Sep-2018
DATE :	DEPT/ DIVISON : ENGINEERING

Z0	ISSUED FOR AS-BUILT	HSH/ABY	AKG	SRA	RAK	20.09.18
O1	ISSUED FOR CONSTRUCTION	HSH/ABY	AKG	SRA	RAK	22.08.16
O	ISSUED FOR CONSTRUCTION	HSH/ABY	AKG	SRA	RAK	14.06.16
B	ISSUED INCORPORATED CLIENT COMMENTS	PAK/ABY	AKG	SRA	RAK	17.05.16
A	ISSUED FOR APPROVAL	JSI/ABY	AKG	SRA	RAK	15.10.15
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE

CONTRACTOR REVISION	
CONTRACTOR DETAILS:-	
LARSEN & TOUBRO LIMITED FARIDABAD	
PROJECT TITLE:-	
NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT	
DOCUMENT TITLE:-	
PIPING & INSTRUMENTATION DIAGRAM PA COMPRESSOR (K-103A) FINAL STAGE SEPARATOR	

PROJECT NO.	DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.
	50489-530-020-PID-1223.003	Z0	
	SHEET NO. 3 OF 8	REV.	SHEET NO.
	COMPANY DRG. NO.	REV.	
EF1902-530-DCO-PID-0223.001		A3	
SHEET NO.			