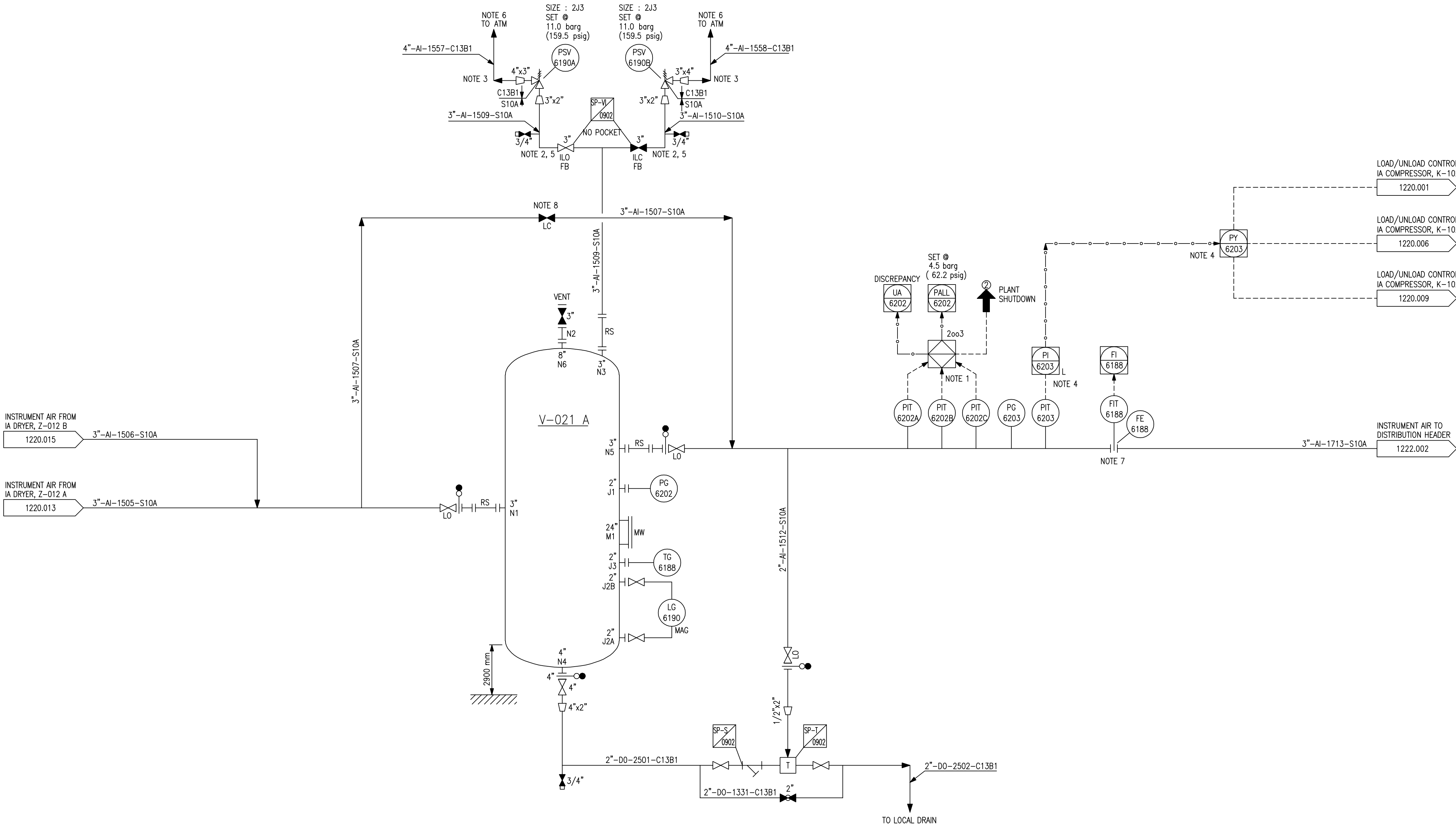


V-021 A
INSTRUMENT AIR RECEIVER

CAPACITY m³ (ft.3) : 168 (5928)
ID mm (ft.-in) : 4000 (13'-2")
LENGTH T/T mm (ft.-in) : 12000 (39'-4")
OP PRESS /DES PRESS barg (PSIG) : 9.3/11 (135/159.5)
OP TEMP/DESIGN TEMP °C (°F) : 60/130/-3 (140/266/27)
UTC NO. :
TRIM NO. : VT-V021A-S10A/S30A /C13B1



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 AND ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.002, .003, .004, .005, .006 & .007.
- FOR MISCELLANEOUS PIPING TYPICAL VALVING, DRAINAGE AND GENERAL ARRANGEMENT OF LEVEL INSTRUMENTS, PUMPS & CONTROL VALVES SEE DRAWING 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:

- THREE TRANSMITTERS ARE PROVIDED. ESD SYSTEM OPERATES WITH TWO OUT OF THREE VOTING BASIS.
- RELIEF VALVE INLET VALVES ARE KEY INTERLOCKED SUCH THAT ONE RELIEF VALVE IS ALWAYS ON-LINE.
- WEEP HOLE IS PROVIDED AT LOW POINT OF PSV OUTLET LINE.
- TWO INSTRUMENT AIR COMPRESSORS ARE OPERATED AS FOLLOWS ;
1st COMPRESSOR UNLOADING PRESSURE : 8.5 barg
LOADING PRESSURE : 7.5 barg
2nd COMPRESSOR UNLOADING PRESSURE : 8.0 barg
LOADING PRESSURE : 7.0 barg
- WHEN PSV IS REMOVED FOR MAINTENANCE THE INLET LINE IS FITTED WITH FULLY RATED BLIND FLANGES.
- VENT TO SAFE LOCATION AS PER KOC-G-002.
- STRAIGHT LENGTH REQUIREMENT FOR ORIFICE FLOW METER ARE 20D UPSTREAM & 5D DOWNSTREAM.
- BYPASS VALVES FOR INSTRUMENT AIR WET AIR RECEIVER (V-023) AND INSTRUMENT AIR RECEIVER (V-021A) ARE NOT BE BYPASSED SIMULTANEOUSLY. TO AVOID POTENTIAL OVER PRESSURIZATION.

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
01	ISSUED FOR CONSTRUCTION	BAK/SSI	AKG	SRA	RAK	04.11.16
0	ISSUED FOR CONSTRUCTION	HSR/VSA	AKG	SRA	RAK	29.03.16
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	26.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	JSI/VSA	AKG	SRA	RAK	01.06.15
B	ISSUED INCORPORATED CLIENT COMMENTS	JSI/VSA	AKG	SRA	RAK	19.02.15
A	ISSUED FOR APPROVAL	JSI/ABY	AKG	SRA	RAK	10.12.14
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
INSTRUMENT AIR RECEIVER (V-021A)

PROJECT NO.	DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.
	50489-530-020-PID-1221.005	Z0	
	SHEET NO. 5 OF 6	REV.	SHEET NO.
	COMPANY DRG. NO.	REV.	
	EF1902-530-DCO-PID-0221.005	A2	
	SHEET NO.		