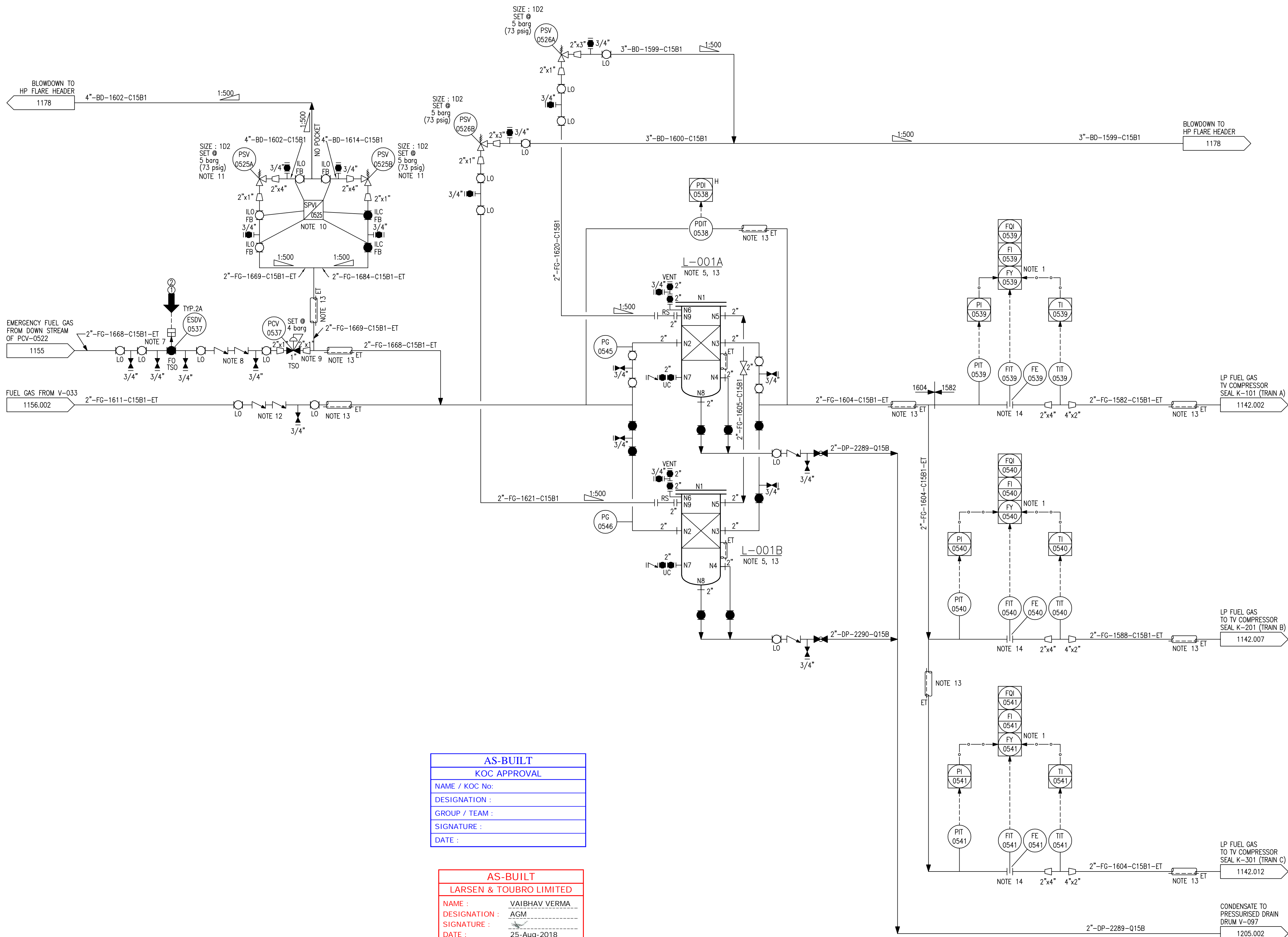


L-001A/B

TV COMPRESSOR SEAL FUEL GAS FILTER NOTE 2, 3
CAPACITY M3 (BBLs) : 0.088 (0.553)
OD mm (ft.-in) : 323.9 (1'-0.8")
LENGTH mm (ft.-in) : 1150 (3'-9")
OP PRESS/DES PRESS barg (PSIG) : 4/5 (58/73)
OP TEMP/DESIGN TEMP °C (°F) : 15~55/93/-3(59~131/200/27)
UTC NO. :
TRIM NO. : VT-L001A/B-C15B1/Q15B



AS-BUILT
KOC APPROVAL
NAME / KOC No.:
DESIGNATION :
GROUP / TEAM :
SIGNATURE :
DATE :

AS-BUILT
LARSEN & TOUBRO LIMITED
NAME : VAIBHAV VERMA
DESIGNATION : AGM
SIGNATURE :
DATE : 25-Aug-2018
DEPT/ DIVISION : ENGINEERING

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:

- FY PROVIDES PRESSURE AND TEMPERATURE COMPENSATION FOR FOI.
- FILTER IS COALESCER TYPE.
- FILTER TO REMOVE PARTICLES OF 5 MICRON AND LARGER.
- FUEL GAS PRESSURE INSTRUMENT TAPPINGS ARE AS PER LEGEND P&ID 1106.001.
- FILTER BODY TO BE ELECTRIC TRACED AND INSULATED. 46°C TEMPERATURE IS MAINTAINED BY ELECTRIC TRACTION.
- DELETED.
- ESDV-0537 PREVENTS FUEL GAS FLOWING BACK TO TV HEADER DURING NORMAL OPERATION.
- TWO DISSIMILAR CHECK VALVES TO PREVENT BACK FLOW OF FUEL GAS TO TV HEADER IF ESDV-0537 FAILS OPEN DURING NORMAL OPERATION.
- PCV-0537 REDUCES PRESSURE FROM 7 BARG TO 4 BARG AT REQUIRED FLOW.
- RELIEF VALVE INLET AND AND OUTLET ISOLATION VALVES ARE KEY INTERLOCKED IN THE FOLLOWING POSITIONS:
- ON LINE RELIEF VALVES: INLET AND OUTLET VALVES ARE OPEN.
- SPARE RELIEF VALVE: INLET VALVES ARE CLOSED, OUTLET VALVES ARE OPEN.
- PSV-0525A/B SIZED TO RELIEVE WHEN PCV-0522 (ON P&ID 1155.001) FAILS OPEN WITH MAX. PRESSURE UPSTREAM (27.9 BARG) AND L-001A/B ISOLATED (WHILE ESDV-0520 ON P&ID 1155 IS OPEN).
- TWO DISSIMILAR CHECK VALVES TO PREVENT GAS FLOWING BACK TO V-033 WHEN ESDV-0520 (P&ID NO. 1155) & 0537 ARE OPEN.
- ELECTRIC TRACING ARE POWERED FROM EMERGENCY GENERATOR ALSO.
- TENTATIVE STRAIGHT LENGTH REQUIREMENT FOR ORIFICE FLOW METER ARE 20D UPSTREAM & 5D DOWNSTREAM. (FINAL STRAIGHT LENGTH TO BE PROVIDED AS PER VENDOR RECOMMENDATION.) (HOLD 6)

Z0	ISSUED FOR AS-BUILT	HSH/SK	AKG	SRA	DER	25.08.18
02	ISSUED FOR CONSTRUCTION	HSH/SK	AKG	SRA	DER	07.12.17
01	ISSUED FOR CONSTRUCTION	HSH/SSI	AKG	SRA	DER	30.12.16
0	ISSUED FOR CONSTRUCTION	HSH/VSA	AKG	SRA	RAK	21.03.16
D	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	24.12.15
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	19.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	JSI/VSA	AKG	SRA	RAK	30.05.15
B	ISSUED INCORPORATED CLIENT COMMENTS	JSI/VSA	AKG	SRA	RAK	18.02.15
A	ISSUED FOR APPROVAL	JSI/ABY	AKG	SRA	RAK	12.12.14
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
FUEL GAS FILTER (L-001A/B)

PROJECT NO.	DRAWING NO.	REV.	KOC DRG. NO.	REV.
EF1902	CONTRACTOR DRG. NO.	50489-530-020-PID-1156.004	Z0	
	SHEET NO. 4 OF 4			
	COMPANY DRG. NO.	EF1902-530-DC0-PID-0154.004	A1	
	SHEET NO.			