

PRESSURE INSTRUMENT CONNECTIONS (PG/PIT/PDG/PDIT)				DP INSTRUMENT CONNECTIONS				DP INSTRUMENT CONNECTIONS	
DIRECT MOUNTED PRESSURE INSTRUMENTS		DIAPHRAGM SEAL PRESSURE INSTRUMENTS		LEVEL		FLOW		FLOW	
SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS
	<p>ALL DESIGN PRESSURES</p>								

GENERAL NOTES:

- a. INSTRUMENT CONNECTIONS ARE TYPICAL ONLY. DETAILS ARE MODIFIED TO MATCH RELEVANT PIPING SPECIFICATION. ONLY LINE CLASS PIPING VALVES WILL BE SHOWN ON P&ID's. FOR INSTRUMENT ISOLATION VALVES REFER TO INSTRUMENT HOOK-UP DRAWINGS.
- b. MEASUREMENT AND CONTROL INSTRUMENT ARE INDEPENDENT OF SAFETY INSTRUMENTS.
- c. ALL SHUTDOWN SWITCHES FOR PROCESS PARAMETERS ARE HAVING INDEPENDENT TAPPING FOR EACH OF THEM.
- d. DELETED
- a. HYDROCARBON VENTS AND DRAINS FROM LEVEL INSTRUMENTS AND CONTROL VALVES ARE CONNECTED TO THEIR RESPECTIVE DISPOSAL SYSTEMS.
- b. TYPICAL LEVEL BRIDLE SHOWING ISOLATION VALVES, VENTS AND DRAINS. ALL DETAILS ARE MODIFIED TO MATCH RELEVANT PIPING SPECIFICATION. LINE CLASS VALVES ARE INDICATED, INSTRUMENT VALVES ARE NOT SHOWN.
- c. LEVEL TRANSMITTER TO HAVE SEPARATE NOZZLES ON EQUIPMENT WHEN WHEN INTERLOCKED WITH ESD SIGNALS.
3. GATE VALVES INDICATED ARE FOR NON-HYDROCARBON SERVICE ONLY. USE BALL VALVES FOR HYDROCARBON SERVICE.
4. BALANCE LINE ARE CONNECTED TO VAPOUR SPACE IN TANK/VESSEL.
5. DELETED.
6. USE OF DOUBLE BLOCK AND BLEED ISOLATION VALVES SHALL CONFORM TO THE REQUIREMENTS OF THE ISOLATION PHILOSOPHY 50489-530-020-PHL-1003
7. SEE P&ID 50489-530-020-PID-1108.008 FOR BRIDLE/STANDPIPE ARRANGEMENTS.
8. DELETED.
9. REFER INSTRUMENT HOOK-UP DWG. (55-SERIES) FOR MORE DETAILS.
10. FOR VESSEL MOUNTED FLANGE SHALL BE 2" 300# AS A MINIMUM FOR PIPE MOUNTED. 1 1/2" 300# FOR BARE PIPE, 2" 300# FOR RTRP PIPE, & 3" 300# FOR LINED PIPE.
11. FOR LINE SIZE < 3", THE LINE SIZE IS EXPANDED TO 4" TO ACCOMMODATE TEMPERATURE INSTRUMENT.
12. 1" FLANGE CONNECTION FOR DIAPHRAGM TYPE PRESSURE INSTRUMENT.
13. ISOLATION VALVE OF INSTRUMENTS CONNECTED TO ESD AND TV COMPRESSORS ANTI-SURGE ARE LO (LOCKED OPEN) TYPE.

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

AS-BUILT
LARSEN & TOUBRO LIMITED
NAME :
DESIGNATION :
SIGNATURE :
DATE :
DEPT/ DIVISION :

TEMPERATURE INSTRUMENT CONNECTIONS NOTE 11				LEVEL INSTRUMENT CONNECTIONS					
TEMPERATURE		TEMPERATURE		LEVEL SWITCH		LEVEL GAUGE		LEVEL CONTROLLER OR LEVEL TRANSMITTER	
SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS	SIMPLIFIED P&ID REPRESENTATION	EXPANDED DETAILS

ZO	ISSUED FOR AS-BUILT	HSH/ABY	AKG	SRA	RAK	15.08.18
O	ISSUED FOR CONSTRUCTION	HSH/ABY	AKG	SRA	RAK	03.06.16
E	ISSUED INCORPORATED CLIENT COMMENTS	PAK/ABY	AKG	SRA	RAK	19.04.16
D	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	31.12.15
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	28.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	01.05.15
B	GENERAL REVISION	JSI/AKT	AKG	SRA	RAK	17.01.15
A	ISSUED FOR APPROVAL	JSI/AKT	AKG	SRA	RAK	24.11.14
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
STANDARD DRAWING (TYPICAL INSTRUMENT CONNECTION)

PROJECT NO.	DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.
	50489-530-020-PID-1106.001	Z0	
	SHEET NO. 1 OF 7	REV.	SHEET NO.
	COMPANY DRG. NO.		
	EF1902-530-DCO-PID-0105.002	A2	
	SHEET NO.		