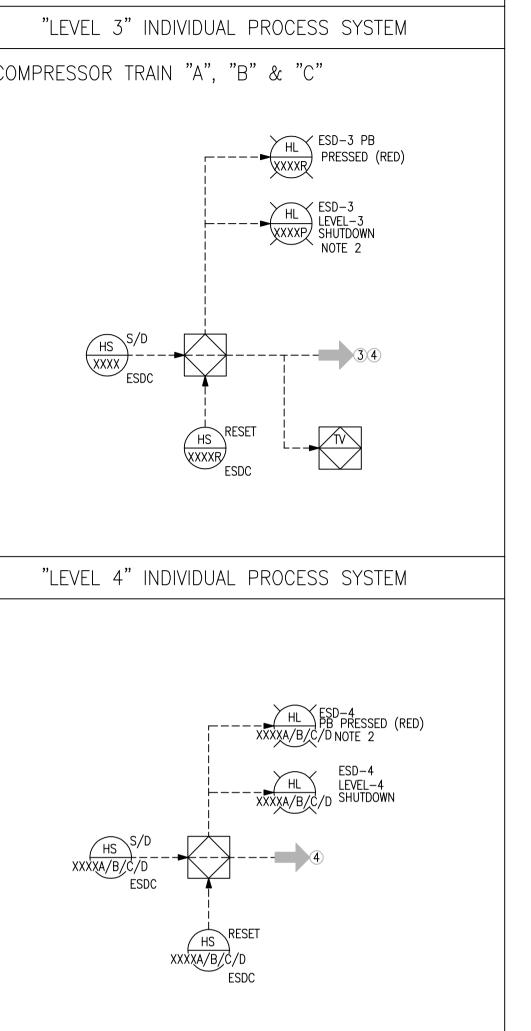
GENERAL NOTES:

- 1. FOR PROCESS SHUTDOWN LOGIC, REFER TO CAUSE AND EFFECT CHART. 50489-530-020-PHL-1009.
- 2. FOR INDIVIDUAL HARDWIRED TRIP ALARM ON FASCIA ANNUNCIATOR PANEL, REFER TO CAUSE AND EFFECT CHART 50489-530-020-PHL-1009.
- 3. RADAR TYPE LIT AND TIT DO NOT HAVE ISOLATION VALVE.
- 4. ISOLATION VALVE FOR INSTRUMENT CONNECTED TO ESD SYSTEM IS 'LO' TYPE.



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

AS-BUILT			
LARSEN & TOUBRO LIMITED			
NAME :	VAIBHAV VERMA		
DESIGNATION:	AGM		
SIGNATURE :	April 1		
DATE :	05-Aug-2018		
DEPT/ DIVISON :	ENGINEERING		
	LARSEN & TO NAME : DESIGNATION : SIGNATURE : DATE :		

		Jonaly	RIN	Ron	Quegi	
ZO	ISSUED FOR AS-BUILT	HSH/JCP	AKG	SRA	DER	05.08.18
01	ISSUED FOR CONSTRUCTION	HSH/JCP	AKG	SRA	DER	02.01.17
0	ISSUED FOR CONSTRUCTION	PAK/ABY	AKG	SRA	RAK	29.03.16
С	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	28.10.15
0C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/ABY	AKG	SRA	RAK	08.09.15
В	GENERAL REVISION	JSI/VSA	AKG	SRA	RAK	17.01.15
Α	ISSUED FOR APPROVAL	JSI/VSA	AKG	SRA	RAK	24.11.14
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
1,5				APP	RD.	D/ (1 L
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 ESD DETAIL)

	DRAWING NO.				
		CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.	REV.
	50489-530-020-P	50489-530-020-PID-1106.007	Z0		
		O2 SHEET NO. 7 OF 7 SHEET N REV.	SHEET NO.		
	EF1902				
		EF1902-530-DCO-PID-0107.002	A1		
		SHEET NO.			

"HS" ON ESD PANEL IN CONTROL ROOM					
LEVEL 1" PLANT SHUTDOWN WITH AUTO DEPRESSURIZING	"LEVEL 2" PLANT SHUTDOWN WITHOUT DEPRESSURIZING	"LEVEL 3" INDIVIDUAL PROCESS SYSTEM	"LEVEL 3" INDIVIDUAL PROCESS SYSTEM		
		DESALTER TRAIN "A" & "B"	TV COMPRESSOR TRAIN "A", "B" & "C"		
F&G OO01P HL SHUTDOWN NOTE 2 HL ESD-1 PB PRESSED (RED)	F&G HL SHUTDOWN NOTE 2 HL Q002P HL Q002P HL Q002P RESSED (RED)	HL ESD-3 PB PRESSED (RED) HL ESD-3 LEVEL-3 SHUTDOWN NOTE 2	HL ESD-3 PB PRESSED (RED) HL ESD-3 PB PRESSED (RED) HL ESD-3 LEVEL-3 SHUTDOWN NOTE 2		
HS S/D 1234	HS S/D 234	HS S/D SZDC 3:4	HS S/D 3/4		
HS S/D HS RESET 0001R ESDC	HS S/D HS RESET 0002R ESDC	HS RESET XXXXXR ESDC	HS RESET TV ESDC		
"LEVEL 3" INDIVIDUAL PROCESS SYSTEM GF TRAIN "A", "B" & "C"	"LEVEL 4" ANNUNCIATOR ON ESD FASCIA (TYPICAL)	"LEVEL 4" ANNUNCIATOR ON ESD FASCIA "WITH RESET SWITCH"	"LEVEL 4" INDIVIDUAL PROCESS SYSTEM		
HS S/D WXXXXR HS S/D WXXXXR RESET XXXXXR ESDC HS RESET XXXXXR ESDC	PAHH TAHH FAHH PAHH XXXXX NOTE 2 PIT III XXXXX LO NOTE 3,4	HS S/D HS RESET XXXXX ESDC XXXX ESDC XXXXX ESDC XXXX ESDC XXX ESDC	HL FSD-4 PB PRESSED (RED) XXXXA/B/C/D NOTE 2 ESD-4 LEVEL-4 SHUTDOWN XXXXA/B/C/D ESDC HS RESET XXXXA/B/C/D ESDC		