

SUFFIX DETAILS FOR SBDV VALVES		
S.NO	SUFFIX DETAILS	SIGNAL DESCRIPTION
1	030-HS-XXXXO	DCS OPEN COMMAND
2	030-HS-XXXXC	DCS CLOSE COMMAND
3	030-UL-XXXXB	DCS AVAILABLE INDICATION
4	030-UL-XXXXD	DISCREPANCY ALARM
5	030-HS-XXXXS	LCP OPEN PUSH BUTTON
6	030-HS-XXXXR	LCP CLOSE / RESET PUSH BUTTON
7	030-UL-XXXXA	LCP AVAILABLE / TRIPPED LAMP
8	030-HS-XXXXO1	ESD FASCIA PANEL OPEN PUSH BUTTON
9	030-HS-XXXXC1	ESD FASCIA PANEL CLOSE PUSH BUTTON
10	030-UL-XXXXI	LCP PACKAGE INTERRUPT LAMP
11	030-UL-XXXXT	PACKAGE TRIPPED INDICATION (LOCATION)

SUFFIX DETAILS FOR XV VALVES		
S.NO	SUFFIX DETAILS	SIGNAL DESCRIPTION
1	030-HS-XXXXO	DCS OPEN COMMAND
2	030-HS-XXXXC	DCS CLOSE COMMAND
3	030-UL-XXXXB	DCS AVAILABLE INDICATION
4	030-HS-XXXXN	DCS RESET COMMAND
5	030-UL-XXXXD	DISCREPANCY
6	030-HS-XXXXR	LCP CLOSE PUSH BUTTON
7	030-UL-XXXXA	LCP AVAILABLE LAMP

SUFFIX DETAILS FOR MOTOR (OPERATING FROM DCS)		
S.NO	SUFFIX DETAILS	SIGNAL DESCRIPTION
1	HS-XXXXA	MOTOR START COMMAND
2	HS-XXXXB	MOTOR STOP COMMAND
3	HS-XXXXS	MOTOR DUTY SELECTION
4	UL-XXXXR	MOTOR LOCAL/OFF/REMOTE INDICATION
5	UL-XXXXA	MOTOR RUN / STOP INDICATION
6	UA-XXXXA	MOTOR FAULT AVAILABLE
7	UA-XXXXE	MOTOR EMERGENCY STOP ALARM

SUFFIX DETAILS FOR ESDV VALVES		
S.NO	SUFFIX DETAILS	SIGNAL DESCRIPTION
1	030-HS-XXXXN	DCS LOGIC RESET COMMAND
2	030-UL-XXXXE	DCS TRIPPED INDICATION
3	030-UL-XXXXD	DISCREPANCY
4	030-HS-XXXXD	LCP TRIP PUSH BUTTON
5	030-HS-XXXXR	LCP VALVE RESET PUSH BUTTON
6	030-UL-XXXXA	LCP TRIPPED LAMP
7	030-UL-XXXXO	LCP READY FOR RESET LAMP
8	030-UL-XXXXP	LCP RESET ACCEPTED LAMP
9	030-UL-XXXXI	LCP PACKAGE INTERRUPT LAMP
10	030-UL-XXXXT	PACKAGE TRIPPED INDICATION

SUFFIX DETAILS FOR MOV VALVES		
S.NO	SUFFIX DETAILS	SIGNAL DESCRIPTION
1	030-UA-XXXXD	DCS FAULT INDICATION
2	030-HS-XXXXX	DCS STOP COMMAND
3	030-HS-XXXXC	DCS CLOSE COMMAND
4	030-UL-XXXXD	DCS LOCAL / REMOTE INDICATION
5	030-HS-XXXXO	DCS OPEN COMMAND
6	030-HS-XXXXT	SQUENECER OPER / MANNUAL (DCS)
7	030-HS-XXXXS	MOV OPEN PUSH BUTTON - FIELD
8	030-HS-XXXXQ	MOV STOP PUSH BUTTON - FIELD
9	030-HS-XXXXR	MOV CLOSE PUSH BUTTON - FIELD
10	030-HS-XXXXN	MOV LOCAL/ OFF / REMOTE SELECT SWITCH

SUFFIX DETAILS FOR MOTOR(OPERATING FROM SSLs/PKG)		
S.NO	SUFFIX DETAILS	SIGNAL DESCRIPTION
1	HS-XXXXA	MOTOR START COMMAND
2	HS-XXXXB	MOTOR STOP COMMAND
3	HS-XXXXS	MOTOR DUTY SELECTION
4	HS-XXXXR	MOTOR AUTO/MANUAL SELECTION
5	UL-XXXXR	MOTOR LOCAL/OFF/REMOTE INDICATION
6	UL-XXXXA	MOTOR RUN INDICATION
7	UA-XXXXA	MOTOR FAULT AVAILABLE
8	UA-XXXXE	MOTOR EMERGENCY STOP ALARM

SUFFIX DETAILS FOR PACKAGE SIGNALS		
S.NO	SUFFIX DETAILS	SIGNAL DESCRIPTION
1	030-HS-XXXXD	UCP / DCS MODE (SELECTOR SWITCH)
2	030-HS-XXXXE	EMERGENCY STOP COMMAND
3	030-HS-XXXXC	SHUTDOWN RESET
4	030-SIC-XXXXR	SPEED RAISE COMMAND
5	030-SIC-XXXXL	SPEED LOW COMMAND
6	030-HS-XXXXN	ON / OFF COMMAND
7	030-UL-XXXXT	START PERMISSIVE INDICATION
8	030-UL-XXXXX	LAMP TEST PUSH BUTTON
9	030-UA-XXXXM	MOTOR ALARM
10	030-HS-XXXXK	ACKNOWLEDGMENT PUSH BUTTON
11	030-HS-XXXXU	LOCAL UCP MODE (PUSH BUTTON)
12	030-HS-XXXXF	LOCAL DCS MODE (PUSH BUTTON)
13	030-I-XXXXX	TRIP
14	030-UL-XXXXN	ON / OFF INDICATION
15	030-UL-XXXXV	VFD READY TO START
16	030-XO-XXXXX	START UP OVERRIDE (WITH TIMER)
17	030-UL-XXXXM	BURNER MODULATION IND. LAMP
18	030-MOS-XXXXX	COMMON MOS ACTIVATION IND. LAMP
19	030-POS-XXXXX	COMMON MOS ACTIVATION IND. LAMP
20	030-KY-XXXXX	TIME SYNCHRONIZATION SIGNAL
21	030-IGN-XXXXX	BURNER IGNITOR

GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
B. ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530--.
C. ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030--.
D. FOR TYPICAL INSTRUMENT CONNECTION, SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007.
E. 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.
F. 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.
G. FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
H. DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
I. PAINTING & COATING SHALL BE IN ACCORDANCE WITH KOC-P-001.
J. LOW POINT DRAIN & HIGH POINT VENT SHALL BE INDICATED IN P&ID AT AS-BUILT STAGE AS PER PIPING LAYOUT.
K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

AS-BUILT
KOC APPROVAL

NAME / KOC No:
DESIGNATION :
GROUP / TEAM :
SIGNATURE :
DATE :

AS-BUILT
LARSEN & TOUBRO LIMITED

NAME : VAIBHAV VERMA
DESIGNATION : AGM
SIGNATURE :
DATE : 03-OCT-2018
DEPT/ DIVISION : ENGINEERING

Z0	ISSUED FOR AS-BUILT	VPA/CHS	AKG	SRA	RAK	03.10.18
01	ISSUED FOR CONSTRUCTION	VPA/CHS	AKG	SRA	RAK	05.10.17
0	ISSUED FOR CONSTRUCTION	PAK/VSA	AKG	SRA	RAK	28.03.16
A	ISSUED FOR APPROVAL	BAK/VSA	AKG	SRA	RAK	28.10.15
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
LEGEND SUFFIX DETAILS

PROJECT NO.		DRAWING NO.		
EF1902	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.	REV.
	50489-530-020-PID-1104.003	Z0		
	SHEET NO. 3 OF 3		SHEET NO.	
	COMPANY DRG. NO.	REV.		
SHEET NO.				