

SLOPS FROM SLOPS TANK  
PUMPS G-006A/B  
1154.002 12"-WO-1141-Q15B

SLOPS TANK AREA

DESALTERS AREA

EFFLUENT WATER FROM  
DESALTER TRAIN A  
1137.001 6"-WP-1301-Q35B

EFFLUENT WATER FROM  
DESALTER TRAIN B  
1137.002 6"-WP-2301-Q35B

RECYCLE EFFLUENT WATER  
FROM PUMPS G-203A/B/C  
1138.002 4"-WP-2317-Q35B-HC

RECYCLE EFFLUENT WATER  
FROM PUMPS G-103A/B/C  
1138.001 4"-WP-1317-Q35B-HC

TANK VAPOR COMPRESSORS AREA

EFFLUENT WATER BALANCE TANKS AREA

EFFLUENT WATER TO  
BALANCE TANK  
D-005A  
1151.001 12"-WP-1201-Q35B

EFFLUENT WATER TO  
BALANCE TANK  
D-005B  
1151.002 12"-WP-1202-Q35B

EFFLUENT WATER TO  
BALANCE TANK  
D-005A  
1151.001 30"-WP-1361-Q15B

EFFLUENT WATER TO  
BALANCE TANK  
D-005B  
1151.002 30"-WP-1362-Q15B

2" PURGE

NO 2" NOTE 4

WO-1141  
WP-1363

24"x12"

TYP. 4A  
MOV  
0011

PURGE

2"

1"

EFFLUENT WATER FROM  
BALANCE TANK FEED  
PUMP G-001A/B, G-002A  
1150

24"-WP-1203-Q15B

WET/DUAL CRUDE TANKAGE AREA

24"-WP-1363-Q15B

CI-0001

NOTE 2

1/2"x1"

Q15B S30A

MIN.

3/4"

NOTE 3

CI-0002

NOTE 2

1/2"x1"

Q15B S30A

MIN.

3/4"

NOTE 3

CI-0003

NOTE 2

1/2"x1"

Q15B F30B

MIN.

3/4"

NOTE 3

BIOCID B SHOCK DOSING  
FROM INJECTION PUMP  
G-049C/D  
1197.007

BIOCID A SHOCK DOSING  
FROM INJECTION PUMP  
G-048C/D  
1197.006

REVERSE DEMULSIFIER  
FROM INJECTION  
PUMP G-047A/B  
1197.003

CHEMICAL INJECTION SKID SHELTER

## 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

- DELETED.
- FOR CHEMICAL INJECTION NOZZLE DETAIL SEE STANDARD DWG. 50489-530-020-PID-1108.001.
- DISSIMILAR TYPE CHECK VALVE.
- LOW POINT DRAIN.

## AS-BUILT

### KOC APPROVAL

NAME / KOC No:

DESIGNATION :

GROUP / TEAM :

SIGNATURE :

DATE :

## AS-BUILT

### LARSEN & TOUBRO LIMITED

NAME : VAIBHAV VERMA

DESIGNATION : AGM

SIGNATURE :

DATE : 05-Aug-2018

DEPT/ DIVISION : ENGINEERING

|      |                                     |         |         |            |     |          |
|------|-------------------------------------|---------|---------|------------|-----|----------|
| Z0   | ISSUED FOR AS-BUILT                 | BAK/SSI | AKG     | SRA        | RAK | 05.08.18 |
| 01   | ISSUED FOR CONSTRUCTION             | BAK/SSI | AKG     | SRA        | RAK | 08.11.16 |
| 0    | ISSUED FOR CONSTRUCTION             | HSB/VSA | AKG     | SRA        | RAK | 22.03.16 |
| D    | ISSUED INCORPORATED CLIENT COMMENTS | BAK/VSA | AKG     | SRA        | RAK | 21.12.15 |
| C    | ISSUED INCORPORATED CLIENT COMMENTS | BAK/VSA | AKG     | SRA        | RAK | 16.10.15 |
| OC   | ISSUED INCORPORATED CLIENT COMMENTS | BAK/VSA | AKG     | SRA        | RAK | 02.06.15 |
| B    | ISSUED INCORPORATED CLIENT COMMENTS | BAK/VSA | AKG     | SRA        | RAK | 11.02.15 |
| A    | ISSUED FOR APPROVAL                 | JSI/VSA | AKG     | SRA        | RAK | 29.11.14 |
| REV. | DESCRIPTION                         | DRAWN   | CHECKED | HOD APPRD. | 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  
EFFLUENT WATER INTERCONNECTION

| PROJECT NO. | DRAWING NO.         | REV.                        | KOC DRG. NO. | REV. |
|-------------|---------------------|-----------------------------|--------------|------|
| EF1902      | CONTRACTOR DRG. NO. | 50489-530-020-PID-1119.002  | Z0           |      |
|             | SHEET NO. 2 OF 4    |                             |              |      |
|             | COMPANY DRG. NO.    | EF1902-530-DC0-PID-0119.002 | A3           |      |
|             | SHEET NO.           |                             |              |      |