



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-1108.001, .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 ARE IN ACCORDANCE WITH KOC-P-001.
- J. LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
- K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
- L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

- 1. FLUSHING CONNECTION IS PROVIDED AT END OF COLLECTION HEADERS, AND AT ANY CHANGES IN DIRECTION OF UNDERGROUND PIPE OF 90°.
- 2. ADDITIONAL CLEANING FACILITIES TO BE PROVIDED AT ANY CHANGES IN DIRECTION OF 45° AND AT A MAXIMUM OF 50 METRE INTERVALS ON STRAIGHT RUN ON DETAIL ENGINEERING.
- 3. EQUIPMENT ISOLATION VALVES ARE SHOWN ON CONTINUATION P&IDs.
- 4. 4"-CO INDICATES CLEAN OUT FLANGE, IN CONCRETE CLEAN OUT PIT.
- 5. SLOPE OF ALL THE BRANCH LINES, MAIN & SUB HEADERS ARE 1:200 IN THE DIRECTION OF FLOW.
- 6. TIE-IN FOR DRAIN LINES INTO SUB HEADER FROM BRANCH HEADER IS AT 45° IN THE DIRECTION OF FLOW.
- 7. ALL DRAIN PIPING SHOWN IN THIS P&ID IS TO BE LAID UNDERGROUND, EXCEPT IN CLEAN-OUT PIT.

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

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|------------------------------|
| AS-BUILT |
| LARSEN & TOUBRO LIMITED |
| NAME : VAIBHAV VERMA |
| DESIGNATION : AGM |
| SIGNATURE : |
| DATE : 07-Aug-2018 |
| DEPT/ DIVISION : ENGINEERING |

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|------|-------------------------------------|---------|---------|------------|-----|----------|
| Z0 | ISSUED FOR AS-BUILT | VPA/CHS | AKG | SRA | VAV | 07.08.18 |
| 02 | ISSUED FOR CONSTRUCTION | VPA/CHS | AKG | SRA | VAV | 05.08.17 |
| 01 | ISSUED FOR CONSTRUCTION | BAK/SSI | AKG | SRA | RAK | 25.11.16 |
| 0 | ISSUED FOR CONSTRUCTION | PAK/CHS | AKG | SRA | RAK | 11.05.16 |
| C | ISSUED INCORPORATED CLIENT COMMENTS | PAK/CHS | AKG | SRA | RAK | 18.03.16 |
| B | ISSUED INCORPORATED CLIENT COMMENTS | HSB/CHS | AKG | SRA | RAK | 19.12.15 |
| 0B | ISSUED INCORPORATED CLIENT COMMENTS | JSI/ABY | AKG | SRA | RAK | 07.12.15 |
| A | ISSUED INCORPORATED CLIENT COMMENTS | JSI/ABY | AKG | SRA | RAK | 27.10.15 |
| 0A | ISSUED FOR APPROVAL | JSI/ABY | AKG | SRA | RAK | 04.06.15 |
| REV. | DESCRIPTION | DRAWN | CHECKED | HOD APPRD. | PEM | DATE |

CONTRACTOR REVISION

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| KUWAIT OIL CO. K. S. C. <small>شركة نفط الكويت</small> <small>ش.م.ك.</small> | |
| CONTRACTOR DETAILS:- LARSEN & TOUBRO LIMITED FARIDABAD | |
| PROJECT TITLE:- NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT | |
| DOCUMENT TITLE:- PIPING & INSTRUMENTATION DIAGRAM MANIFOLD AREA GRAVITY DRAIN SYSTEM HEADER | |
| PROJECT NO. | DRAWING NO. |
| CONTRACTOR DRG. NO. 50489-530-020-PID-1203.002 | REV. KOC DRG. NO. Z0 |
| SHEET NO. 2 OF 3 COMPANY DRG. NO. EF1902-530-DCO-PID-0205 | REV. A2 |
| SHEET NO. | |