## D-003 (DRY CRUDE STORAGE TANK) TYPE : FIXED CONE ROOF TANK SIZE m (ft-in) : 39.66 (130'- 1") ID x 14.4 (47'-3") H No. 1:500 TANK No.D-003 TYPICAL FOAM POURER-A NOTE 1 FOAM POURER-D NOTE 1 Š FOAM POURER-C NOTE 1 VENDOR (TYP) CONTRACTOR (TYP) NOTE 2 (TYP) -RADIATION SHIELD RADIATION SHIELD-A/G (TYP) A/G (TYP) VENDOR (TYP) CONTRACTOR (TYP) NOTE 2 (TYP) CONTRACTOR (TYP) 1000mm MINIMUM 1000mm MINIMUM TYPICAL TYPICAL 1000 A/G (TYP) U/G (TYP) ■ # A/G (TYP) # 1000 ■ U/G (TYP) TYPICAL TYPICAL NOTE-6 Kg. 1:500 FOAM @3% TOTAL FOAM TANK NOZZLE (LPM) 55 MINUTES (LITRES) NOS. TANK No. I/D (M) SURFACE AREA (M²) POURERS USED LINE No. 4 LINE No. 5 LINE No. 1 LINE No. 2 LINE No. 3 D-003 39.66 1235 152 8358 N8 A/B/C/D A B C D 8"-FF-9017-015A 4"-FF-9018-015A 4"-FF-9019-015A 4"-FF-9020-015A 4"-FF-9021-015A

## GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001.
- B. ALL EQUIPMENT NUMBERS SHOWN ON THIS PAID ARE PRECEDED BY 530-.
- C. FOR ESDV. SBDV AND MOV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001.
- D. FOR MISCELLANEOUS PIPING DETAILS SEE DRAWING 50489-530-020-PID-1108.001. E. DELETED.
- DELETED.

- FOAM POURER IS LOCATED JUST BELOW TANK RIM BEAM AT TOP OF THE TANK SHELL AND IS FITTED WITH AN INTERNAL SPUT DEFLECTOR PLATE. FOR MORE DETAILS OF FOAM POURER SEE APPENDIX 1.3 KOC-L-009, REV.4.
- VENDOR TO SUPPLY FOAM MAKER AND ENTRANCE ORIFICE PLATE.
   2½" x 4 WAY SUCTION HEADERS ON SKID ARE POSITIONED 90" TO THE PREVAILING WIND DIRECTION
   UBLETED

- ACCESS PLATFORM FOR FOAM POURER ARE PROVIDED
   45' FITTINGS TO FOAM POURER LINES AS PER SECTION 7.4.2.3
   OF KOC-L-009, REV.4.
- FOR DETAILS OF TYPICAL FOAM SYSTEM AND 4 WAY SUCTION COLLECTING HEAD SEE APPENDIX 1.3 OF KOC STANDARD KOC-L-009, REV.4.
- THE SIZE OF THE RISERS ARE MIN. 4" DIAMETER FOR WET, DRY AND DUAL CRUDE OIL STORAGE TANKS.
- FOAM LINES AND CONNECTION TO TANKS ARE ALSO SHOWN ON P&ID 50489-530-020-PID-1124 FOR TANK D-003.

## REFERENCE DOCUMENT:

	NFPA-11	STANDARD FOR LOW, MEDIUM AND HIGH EXPANSION FOAM SYSTE
	50489-530-041-GAD-1201-001	GA DRAWING FOR DRY CRUDE STORAGE TANK
	50489-530-000-DAT-1501	DATASHEET FOR FIXED FIRE PROTECTION EQUIPMENT

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

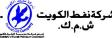
AS-BUILT LARSEN & TOUBRO LIMITED		

HSH/ASA NIJ SRA RAK 30.09.18 Z1 RE-ISSUED FOR AS-BUILT Z0 ISSUED FOR AS-BUILT HSH/ASA NIJ SRA RAK 06.08.18 0 ISSUED FOR CONSTRUCTION HSH/ASA NIJ SRA RAK 02.03.16 C ISSUED"INCORPORATED CUENT COMMENTS" HSH/ASA NIJ SRA RAK 07.08.15 B ISSUED"INCORPORATED CLIENT COMMENTS" HSH/ASA NIJ SRA RAK 21.07.15 PAK/ASA NIJ SRA RAK 06.01.15 A ISSUED FOR APPROVAL

DRAWN CHECKED HOD PEM DATE CONTRACTOR REVISION



DESCRIPTION



LARSEN & TOUBRO LIMITED FARIDABAD

PROJECT TITLE:-

NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT

PIPING & INSTRUMENTATION DIAGRAM FOAM SYSTEM FOR DRY CRUDE STORAGE TANK (D-003)

PROJECT NO DRAWING NO. REV. KOC DRG. NO. 50489-530-000-PID-1105.002 EF1902 SHEET NO. 2 OF 2 COMPANY DRG. NO. EF1902-530-DB0-PID-0104.001