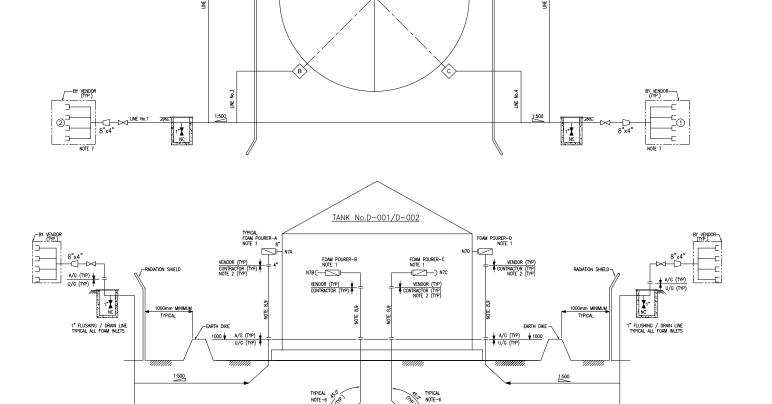
D-001/D-002 (DUAL CRUDE STORAGE TANK) (WET CRUDE STORAGE TANK) TYPE : FIXED COME ROOF TANK SIZE m (ft-in) : 45.425 (149'-1") ID x 13.000 (42'-8") H



POURERS USED

A B C D

N7 A/B/C/D A B C D

LINE No. 1

8"-FF-9001-Q15A 4"-FF-9002-Q15A

8"-FF-9009-Q15A 4"-FF-9010-Q15A

LINE No. 2

LINE No. 3

4"-FF-9003-015A

4"-FF-9011-Q15A

LINE No. 4

4"-FF-9004-015A

4"-FF-9012-Q15A

LINE No. 5

4"-FF-9005-015A

4"-FF-9013-Q15A

1:500

TANK No. I/D (M) SURFACE AREA (M²)

45.425

45.425 1621

1621

D-001

D-002

SOLUTION @4. (LPM/M²)

6645

6645

199

199

FOAM @3% TOTAL FOAM TANK NOZZLE (LPM) 55 MINUTES (LITRES) NOS.

10964

10964

N7 A/B/C/D

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.

NOTES:

- I. FOAM POURER IS LOCATED JUST BELOW TANK RIM BEAM AT TOP OF THE TANK SHELL AND IS FITTED WITH AN INTERNAL SPLIT 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
- 4. DELETED
- 5. ACCESS PLATFORM FOR FOAM POURER ARE PROVIDED
 6. 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.
- 8. THE SIZE OF THE RISERS ARE MIN. 4" DIAMETER FOR WET, DRY AND DUAL CRUDE OIL STORAGE TANKS.
- 9. FOAM LINES AND CONNECTION TO TANKS ARE ALSO SHOWN ON P&ID 50489-530-020-PID-1122:001 FOR TANK D-001 AND P&ID 50489-530-020-PID-1123:001 FOR TANK D-002.

REFERENCE DOCUMENT:

NFPA-11	STANDARD FOR LOW, MEDIUM AND HIGH EXPANSION FOAM SYSTE
50489-530-041-GAD-1101-001	GA DRAWING FOR WET CRUDE STORAGE TANK
50489-530-041-GAD-1001	GA DRAWING FOR DUAL 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					
NAME: DESIGNATION: SIGNATURE: DATE: DEPT/ DIVISON:	AGM 30-SEP-2018 ENGINEERING				

		April 1800	3	artik.	V	
Z1	RE-ISSUED FOR AS-BUILT	HSH/ASA	NIJ	SRA	RAK	30.09.18
Z0	ISSUED FOR AS-BUILT	HSH/ASA	NIJ	SRA	RAK	09.08.18
0	ISSUED FOR CONSTRUCTION	HSH/ASA	NIJ	SRA	RAK	02.03.16
С	ISSUED"INCORPORATED CLIENT COMMENTS"	HSH/ASA	NIJ	SRA	RAK	07.08.15
В	ISSUED"INCORPORATED CLIENT COMMENTS"	HSH/ASA	NIJ	SRA	RAK	21.07.15
Α	ISSUED FOR APPROVAL	PAK/ASA	NIJ	SRA	RAK	06.01.15
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
1.21	DESCRIPTION	Die iiiii	OTTESTAL	APP	RD.	D.T.T.E.

CONTRACTOR REVISION



LARSEN & TOUBRO LIMITED FARIDABAD

PROJECT TITLE:-

NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT

DOCUMENT TITLE:- PIPING & INSTRUMENTATION DIAGRAM FOAM SYSTEM FOR DUAL /WET CRUDE STORAGE TANKS (D-001/D-002)

PROJECT NO.	DRAWING NO.						
	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.	RE			
	50489-530-000-PID-1105.001	Z1					
EF1902	SHEET NO. 1 OF 2		SHEET NO.	1			
EF 1902	COMPANY DRG. NO.	REV.		П			
	EF1902-530-DBO-PID-0104.001	A1					
	SHEET NO.						