



TANK No.	I/D (M)	SURFACE AREA (M ²)	SOLUTION @4.1 (LPM/M ²)	FOAM @3% (LPM)	TOTAL FOAM 55 MINUTES (LITRES)	TANK NOZZLE NOS.	POURERS USED				LINE No. 1	LINE No. 2	LINE No. 3	LINE No. 4	LINE No. 5
D-005A	46.5	1698	6963	209	11489	N14 A/B/C/D	A	B	C	D	8"-FF-9065-Q15A	4"-FF-9066-Q15A	4"-FF-9067-Q15A	4"-FF-9068-Q15A	4"-FF-9069-Q15A
D-005B	46.5	1698	6963	209	11489	N14 A/B/C/D	A	B	C	D	8"-FF-9073-Q15A	4"-FF-9074-Q15A	4"-FF-9075-Q15A	4"-FF-9076-Q15A	4"-FF-9077-Q15A

GENERAL NOTES:

- FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001.
- ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530-.
- FOR ESDV, SBDV AND MOV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001.
- FOR MISCELLANEOUS PIPING DETAILS SEE DRAWING 50489-530-020-PID-1108.001.
- DELETED.
- DELETED.

NOTES:

- 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.
- 2 1/2" x 4 WAY SUCTION HEADERS ON SKID ARE POSITIONED 90° TO THE PREVAILING WIND DIRECTION
- NOTE DELETED
- 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.
- NOTE DELETED.
- FOAM LINES AND CONNECTION TO TANKS ARE ALSO SHOWN ON P&ID 50489-530-020-PID-1151.001 FOR TANK D-005A AND P&ID 50489-530-020-PID-1151.002 FOR TANK D-005B.

REFERENCE DOCUMENT:

NFPA-11	STANDARD FOR LOW, MEDIUM AND HIGH EXPANSION FOAM SYSTEM
50489-530-041-GAD-1401-001	GA DRAWING FOR EFFLUENT WATER BALANCE 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: VAIBHAV VERMA	
DESIGNATION: AGM	
SIGNATURE:	
DATE: 30-SEP-2018	
DEPT/ DIVISION: ENGINEERING	

Z1	RE-ISSUED FOR AS-BUILT	HSH/ASA	NIJ	SRA	RAK	30.09.18
Z0	ISSUED FOR AS-BUILT	HSH/ASA	NIJ	SRA	RAK	05.08.18
O	ISSUED FOR CONSTRUCTION	HSH/ASA	NIJ	SRA	RAK	02.02.16
B	ISSUED "INCORPORATED CLIENT COMMENTS"	HSH/ASA	NIJ	SRA	RAK	07.08.15
A	ISSUED FOR APPROVAL	HSH/ASA	NIJ	SRA	RAK	21.07.15
REV.	DESCRIPTION	DRAWN	CHECKED	HOOD	PEM	DATE

CONTRACTOR REVISION

KUWAIT OIL CO.	
K. S. C.	
شركة نفط الكويت	
ش.م.ك.	

CONTRACTOR DETAILS:-	
LARSEN & TOUBRO LIMITED	
FARIDABAD	

PROJECT TITLE:-	NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT
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DOCUMENT TITLE:-	PIPING & INSTRUMENTATION DIAGRAM FOAM SYSTEM FOR EFFLUENT WATER BALANCE TANKS (D-005A/B)
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PROJECT NO.	DRAWING NO.
CONTRACTOR DRG. NO.	REV. KOC DRG. NO.
50489-530-000-PID-1133	Z1
SHEET NO. 1 OF 1	SHEET NO.
COMPANY DRG. NO.	REV.
SHEET NO.	