



TANK No.	I/D (M)	SURFACE AREA (M ²)	SOLUTION #4.1 (LPM/M ²)	FOAM 0.3% (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-006A	32	804	3298	99	5445	NB A/B/C/D	A	B	C	D	8"-FF-9025-Q15A	4"-FF-9026-Q15A	4"-FF-9027-Q15A	4"-FF-9028-Q15A	4"-FF-9029-Q15A
D-006B	32	804	3298	99	5445	NB A/B/C/D	A	B	C	D	8"-FF-9033-Q15A	4"-FF-9034-Q15A	4"-FF-9035-Q15A	4"-FF-9036-Q15A	4"-FF-9037-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-1153.001 FOR TANK D-006A AND P&ID 50489-530-020-PID-1153.004 FOR TANK D-006B.

REFERENCE DOCUMENT:

NFPA-11	STANDARD FOR LOW, MEDIUM AND HIGH EXPANSION FOAM SYSTEM
50489-530-041-GAD-1501-001	GA DRAWING FOR TREATED WATER 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	HSJ/ASA	NIJ	SRA	RAK	30.09.18
Z0	ISSUED FOR AS-BUILT	HSJ/ASA	NIJ	SRA	RAK	09.08.18
0	ISSUED FOR CONSTRUCTION	HSJ/ASA	NIJ	SRA	RAK	30.01.16
C	ISSUED "INCORPORATED CLIENT COMMENTS"	HSJ/ASA	NIJ	SRA	RAK	07.08.15
B	ISSUED "INCORPORATED CLIENT COMMENTS"	HSJ/ASA	NIJ	SRA	RAK	21.07.15
A	ISSUED FOR APPROVAL	PAK/ASA	NIJ	SRA	RAK	06.01.15
REV.	DESCRIPTION	DRAWN	CHECKED	HOOD	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
FOAM SYSTEM FOR TREATED WATER TANKS (D-006A/B)

PROJECT NO.	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.	REV.
EF1902	50489-530-000-PID-1115	Z1		
	SHEET NO. 1 OF 1			
	COMPANY DRG. NO.	REV.		
	EF1902-530-DB0-PID-0115.001	A1		
	SHEET NO.			