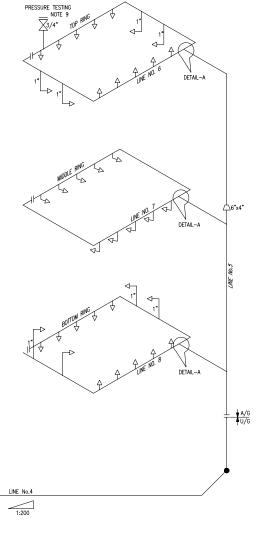
530-V-016A/B HP FLARE KOD SIZE (mm) : (3500 ID X 10500 H)



	AS-BUILT
	KOC APPROVAL
NAME	/ KOC No:
DESIG	NATION:
GROU	P / TEAM:
SIGNA	TURE :
DATE	:

AS-BUIL VAIBHAV VERMA AGM IGNATURE :

WATER SPRAY NOZZLE SCHEDULE

DETAIL-A

TYPE	SIZE	ZE SPRAY ANGLE K-FAC		FLOW @2.0 Bar DISCHARAGE PRESSURE	QUANTITY	
MV	1/2" NPT MALE	140*	51	72.12 LPM	38 OF EACH KOD	

PID-1121.001

FLARE KOD	LINE No.5	LINE No.6	LINE No.7	LINE No.8	
530-V-016A	6"-WF-9174-Q15A	3"-WF-9175-Q15A1	3"-WF-9176-Q15A1	3"-WF-9177-Q15A1	
530-V-016B	6"-WF-9182-Q15A	3"-WF-9183-Q15A1	3"-WF-9184-Q15A1	3"-WF-9185-Q15A1	

DESIGN OBJECTIVE : FIRE EXTINGUISHMENT & EXPOSURE PROTECTION DESIGN CALCULATION HP FLARE KOD SURFACE AREA TO BE PROVIDED 153.94 m2 WATER APPLICATION RATE (L/MIN/m2) 10.2 THEORETICAL FLOW (LPM) 1570 HYDRAULICALLY CALCULATED FLOW (LPM) 3068 REFER 50489-530-000-CAL-1005

GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND MOMENLATURE SEE DRAWNOS 50489-530-020-P10-1104.001.
 B. ALL EQUIPMENT INJURIES SHOWN ON THIS PRIO ARE PRECEDED BY 530C. FOR ESDV, SBOV AND MOV DETALS SEE DRAWNOS 50489-530-020-P10-1106.001.
 D. FOR MISCLIMARDUS PHYNG DETALS SEE DRAWNOS 50489-530-020-P10-1106.001.
- E. DELETED.

NOTES: 1. UV/IR FLAME DETECTORS AUTOMATICALLY DETECT FIRE AND WHEN ACTIVATED A SIGNAL IS SENT TO THE F&G PANEL IN THE CCR. 2. AR SET IS FITTED WITH AIR FILITER, RESULATOR AND PI.

- 2. Am 52 is 5 filted with an filter, production and 19 filter believe valve.

 3. RO SUPPLIED TO GIVE PRESSURE/LOSS CHARACTERISTICS OF THE DELIGE VALVE.

 4. 4 MWY SUTTON COLLECTION HEAD IS INSTITULED TO ALLON SECONDAY SUPPLY OF MATER TO DELIGE SYSTEM.

 AND ES LIL LISTED AND FM. APPROVED.

- AND BE LIL LISTED AND PM APPROVED

 A TRIGGER HEAD CONFIGURATION

 1/2" FUSABLE PLUSS OVER PROTECTED EQUIPMENT ON A GENERAL

 3. 3 LISTED MARINX

 POLICY FUSABLE PLUSS OVER PROTECTED FOUNDMENT ON A GENERAL

 3. 3 LISTED MARINX

 7. 2" ALVIES REQUIRED NET PROTECTED MARIN FOR THE MARIN FOR THE MARIN FOR THE PASSING.

 8. AREQUIRED BOWINGET OR BE PROVIDED APPROVED DELUGE SYSTEM TO AVOID ACCUMULATION OF WATER APOUNDED THE PROVIDED AS TO AVOID ACCUMULATION OF WATER APOUNDED THE MARIN FOR THE MARIN FOR THE MARIN FOR THE STRUMMENT OF THE MARIN FOR THE MARI
- VALVE.

 B. LOCAL OPERATION OF A MECHANICAL AIR RELEASE UNIT OF DELUGE VALVE STATION.

- 16. INTERNALLY COATED UG PIPING ARE FLANCED SPOOLS AS PER KOC-L-009.

 17. FLUSHING DRAIN PIT IS ACCESSIBLE FROM GROUND LEVEL.

- 17. FLUSHIG DRAIN PIT IS ACCESSIBLE FROM GROUND LEVEL.

 B. THE UNDERSONION SECTION IS EXTERNALLY COMES WITH 3 LAYERS EXTREDE HOPE AS PERSOC-POOR PART 6, REV-2 WITH THE INTERNAL PREMIOUS PROVY ON THE PIPING SHALL BE AS PER ROC-P-005 REV-1.

 19. THE ABOVE GROUND PIPING SECTION IS COATED WITH SYSTEM AI-1 OF KOC-P-001 REV. 3

 20. TOP CHAMBER OF DELIDIE VALVE S CONNECTED TO WAITER UNE & TO WATER MLET OF ACTUATOR WHEN THE AIR PRESSURE DROPS OUT TO DETECTION OF FIRE THE DUPAPHRAM OF ACTUATOR IS LITED AND ALLONS OF THE WAITER PRESSURE IN THE TOP CHAMBER OF DELIDE VALVE TOP CHAMBER TO DRAIN. THIS RELEAST THE PRESSURE IN THE TOP CHAMBER OF DELIDE VALVE ALLONGED THE ELGULAGE VALVE.

LEGENDS:

SYMBOL	DESCRIPTION
ş— FW -ş	FIRE WATER PIPING
\rightarrow	SPRAY NOZZLE
	REDUCER
\bowtie	GATE VALVE
<u> </u>	END CAP

REFERENCE DRAWINGS:

HYDRAULIC CALCULATION FOR WATER SPRAY SYSTEM FOR H FLARE K.O. DRUM
KOC STANDARD FOR FIRE PROTECTION SYSTEM
FIRE WATER NETWORK LAYOUT
FIRE WATER DETAIL ARRANGEMENT DRAWING FOR WATER SPRAY SYSTEM FOR HP FLARE K.O. DRUM

		30 pt	The same	40m	- 3	
Z1	RE-ISSUED FOR AS-BUILT	PAK/DEU	NIJ	SRA	RAK	30.09.18
Z0	ISSUED FOR AS-BUILT	PAK/DEU		SRA	RAK	05.08.18
01		PAK/DEU		SRA	RAK	16.07.10
0		PAK/DEU		SRA	RAK	13.05.10
В	ISSUED "INCORPORATED CLIENT COMMENTS"	PAK/DEU	NIJ	SRA	RAK	15.10.13
A	ISSUED FOR APPROVAL	JSI/DEU	NIJ	SRA		10.04.13
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE

CONTRACTOR REVISION





LARSEN & TOUBRO LIMITED FARIDABAD

PROJECT TITLE:-

NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT

DOCUMENT TITLE:

PIPING & INSTRUMENTATION DIAGRAM DELUGE WATER SPRAY SYSTEM FOR HP FLARE K.O. DRUM

DRAWING NO.						
CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.	REV			
50489-530-000-PID-1121.002	Zı					
SHEET NO. 2 OF 2		SHEET NO.				
COMPANY DRG. NO.	REV.					
SHEET NO.						
	CONTRACTOR DRG. NO. 50489-530-000-PID-1121.002 SHEET NO. 2 OF 2 COMPANY DRG. NO.	CONTRACTOR DRG, NO. REV. 50489-530-000-PID-1121.002 SHEET NO. 2 OF 2 COMPANY DRG, NO. REV.	SOURCE S			