

D-029
REVERSE DEMULSIFIER BULK STORAGE TANK
CAPACITY m3 (BBLs) : 83.8 (526.8)
ID mm (ft.-in) : 4000 (13'-1")
HEIGHT (F/T)mm (ft.-in) : 6280 (20'-7")
OP PRESS /DES PRESS barg (PSIG) : ATM/ATM+STATIC HEAD
OP TEMP /DESIGN TEMP °C (°F) : 15~55/93/-3 (59~131/200/27)
UTC NO. :
TRIM NO. : DT-D029-F10B-ET

NOTES:

33. TIME DELAY OF 60 SECONDS ON PAL2-6018 TO TRIP PUMP G-029A/B.
34. LIQUID LEVEL IS MEASURED FROM BOTTOM TANGENT LINE OF TANK.
35. MATERIAL OF CONSTRUCTION FOR PLANT AIR FLEXIBLE HOSE IS SS-304.

GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
B. ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PREFIXED BY 530-..
C. ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PREFIXED BY 030-..
D. FOR TYPICAL INSTRUMENT CONNECTION SBDV, XV, MOV AND ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, 002, .003, .004, .005, 006, & 007.
E. FOR MISCELLANEOUS PIPING TYPICAL VALVING, DRAINAGE AND GENERAL ARRANGEMENT OF LEVEL INSTRUMENTS, PUMPS & CONTROL VALVES SEE DRAWING 50489-530-020-PID-1108.001 TO 1108.010.
F. DRAWING NUMBERS SHOWN IN P&ID CONTINUATION BOXES ARE ABBREVIATED SHOWING DRAWING SEQUENTIAL NUMBERS ONLY. THE FULL FORM OF THE DRAWING NUMBER IS 50489-530-020-PID-XXXX.SHT. NO.
G. FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
H. DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
I. PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
J. LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

1. FLEXIBLE HOSE WITH LONG PIPE END IS INSERTED INTO CHEMICAL DRUM FOR UNLOADING.
2. UTILITY STATION TO BE PROVIDED IN DRUM UNLOADING AREA.
3. COMBINATION FILTER, REGULATOR, PRESSURE GAUGE AND LUBRICATOR.
4. FLEXIBLE HOSE WITH DRY BREAK COUPLING IS CONNECTED TO HARD PIPE WITH 2"x1 1/2" REDUCING FLANGE FOR CONNECTION TO DRUM / SEMI-BULK CONTAINER (APPLICABLE FOR ALL BULK STORAGE TANK).
5. TWO SPARE PUMPS G-080 AND G-081 WITH ALL THE ANCILIARIES ARE LOCATED IN THE MAINTENANCE BUILDING.
6. GWR TYPE LEVEL TRANSMITTER.
7. LOW LOW LIQUID LEVEL STOPS REVERSE DEMULSIFIER TRANSFER PUMPS G-029A/B.
8. LOCATE VALVE WITHIN SIGHT OF LEVEL GAUGE.
9,11. DELETED.
12. A. CHEMICAL TANKER LOADING CONNECTION.
B. TRANSMITTER IS PROVIDED WITH LOCAL COUNTER WHICH IS RESETTABLE INSTANTANEOUS AND NON-RESETTABLE TOTAL INDICATIONS.
13. CHEMICAL PUMP OUT CONNECTION TO BE EASILY ACCESSIBLE.
14. PROVIDE ANNUNCIATOR SCHEME TO SUIT REQUIREMENTS AS INDICATED. TANK HIGH LEVEL ALARM IS DEDICATED TO A SPECIFIC LEVEL.
(A) ONE TEST (IN DCS) FOR ALL CHEMICAL BULK DELIVERY & DRUMS UNLOADING / TRANSFER AREA FLASHER & HORNS.
ONE RESET (IN DCS) FOR ALL CHEMICAL BULK DELIVERY & DRUMS UNLOADING / TRANSFER AREA FLASHERS.
ONE ACCEPT (IN DCS) FOR ALL CHEMICAL BULK DELIVERY & DRUMS UNLOADING / TRANSFER AREA HORNS
(B) TANK (D-021) AREA HAS INDIVIDUAL FLASHING RED LIGHT ON TANK LEVEL HIGH: TWO (2) COMMON HORNS XA-6035B/XA-6029A ON ANY TANK LEVEL HIGH-HIGH.
(C) UNLOADING AREA-ONE COMMON FLASHER ON ANY TANK HIGH LEVEL (LAH-6034A) ONE COMMON HORN XA-6035A ON ANY TANK LEVEL HIGH-HIGH.
15. EYEWASH & SAFETY SHOWERS ARE TO BE INSTALLED AT LOADING CONNECTION OUTSIDE FENCE, CHEMICAL TRANSFER PUMP SHELTER AND BULK CHEMICAL STORAGE TANK/INJECTION PUMP SHELTER AREAS.
16. DELETED.
17. (A) HHLL IN D-047 STOPS DUTY AND STANDBY TRANSFER PUMPS G-029A/B BY SSLS LOGIC CLOSING XV-6018A/B.
(B) PAH-6018 STOPS DUTY AND STANDBY PUMP BY DCS CLOSING XV-6018A/B.
(C) PAL1-6018 STARTS DUTY TRANSFER PUMP BY DCS OPENING XV-6018A OR B.
(D) PAL2-6018 STARTS STANDBY PUMP BY DCS OPENING XV-6018A OR B.
(E) ZSC OF LCV-6107 STOPS DUTY & STANDBY TRANSFER PUMP G-029A/B BY SSLS LOGIC.
(F) PUMP IN CASE OF DUTY PUMP DISCREPANCY (START COMMAND & NO FEEDBACK) OR RAPTURE OF TRANSFER PUMP.
18. REVERSE DEMULSIFIER SUPPLY TANK AND ALL PUMP SUCTION & DISCHARGE PIPING ARE ELECTRICALLY HEAT TRACED.
19. PUMPS ARE LOCATED IN CURBED AREA TO CONTAIN SPILLAGES.
20. TANK CONCRETE BUND IS 115% CONTAINMENT OF D-029.
21. NEAREST POSSIBLE BYPASS CONNECTION FOR BULK STORAGE TANK TO REVERSE DEMULSIFIER PUMP DISCHARGE HEADER.
22,23,24. DELETED.
25. THE REQUIREMENT OF ANTI-RESISTANT CHEMICAL FLOOR BASED ON THE CHEMICAL SELECTION.
26. PUMPS ARE PROVIDED WITH RUPTURE ALARM.
27. OVERFLOW NOZZLE IS LOCATED ABOVE HHLL.
28. PUMP & TANK AREA ARE PAVED. FLOOR IS SLOPED TOWARDS BUND PIT.
29. VENT TO SAFE LOCATION ARE AS PER KOC-G-002.
30. (A) LOW POINT DRAIN IS PROVIDED AS APPROPRIATE.
(B) DRAINAGE/SPILLAGE FROM TANK ARE COLLECTED INTO BUND PIT.
DRAINAGE/SPILLAGE FROM TRANSFER PUMP ARE COLLECTED IN TO COMMON SUMP PIT AT CHEMICAL TRANSFER PUMP AREA. REFER DOC. NO. 50489-530-020-SCM-1010.

REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
22	ISSUED FOR AS-BUILT	BAK/CHS	AKG	SRA	RAK	21.11.18
Z1	ISSUED FOR AS-BUILT	BAK/CHS	AKG	SRA	RAK	08.10.18
Z0	ISSUED FOR AS-BUILT	BAK/CHS	AKG	SRA	RAK	29.08.18
01	ISSUED FOR CONSTRUCTION	BAK/CHS	AKG	SRA	RAK	23.11.16
0	ISSUED FOR CONSTRUCTION	HSB/VSA	AKG	SRA	RAK	01.04.16
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	21.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	JSI/SSI	AKG	SRA	RAK	03.06.15
B	ISSUED INCORPORATED CLIENT COMMENTS	JSI/VSA	AKG	SRA	RAK	21.02.15
A	ISSUED FOR APPROVAL	BAK/ABY	AKG	SRA	RAK	12.12.14

CONTRACTOR REVISION



CONTRACTOR DETAILS:-
LARSEN & TOUBRO LIMITED
FARIDABAD

PROJECT TITLE:-
NEW GATHERING CENTRE GC-30
IN NORTH KUWAIT

DOCUMENT TITLE:-
PIPING & INSTRUMENTATION DIAGRAM
REVERSE DEMULSIFIER STORAGE TANK (D-029) AND DISTRIBUTION

PROJECT NO.	DRAWING NO.	REV.	KOC DRG. NO.	REV.
EF1902	50489-530-020-PID-1193	Z2		
	SHEET NO. 1 OF 1			
	COMPANY DRG. NO.	REV.		
	EF1902-530-DCO-PID-0193.001	A4		
	SHEET NO.			

