

AS EXISTING

(REFER DWG. NO. 0--PV-310-00109, REV.4)

EXISTING NOZZLES TO BE MODIFIED

MARK	QTY	NOM DIA.	SCH/ THK.	FLANGES			EXISTING PROJECTION (NOTE-4)	PAD W X T	X (REFER DETAIL-D)	SERVICE
				CLASS	TYPE	FACING				
T	1	200	10 THK.	300	WN	RF	450	110X14	150	TOP OUTLET
R	1	80	40S	300	WN	RF	715	45X12	150	REFLUX
DP1	1	40	40S	300	WN	RF	665	—	150	DIFF. PRESSURE
T11	1	40	40S	300	WN	RF	665	—	150	TEMP. (INDICATOR)
V	1	50	40S	300	WN	RF	350	—	150	VENT
M1	1	450	12 THK.	300	WN	RF	815	225X12	150	MANHOLE+COVER FLG. WITH HING

NEW NOZZLE TO BE ADDED

MARK	QTY	NOM DIA.	SCH/ THK.	FLANGES		PROJECTION (NOTE-4)	PAD W X T	SERVICE	
VS	1	50	40S	300	WN	RF	850	—	VAPOUR FROM STORAGE TANK

LIST OF MODIFICATIONS

A. FOR ALL EXISTING NOZZLES REFER MECHANICAL DATA SHEET 0--PV-310-00109, REV.4 FOR COLUMN (11--CC-001)

B. ONE NO NEW NOZZLE CONNECTION 'VS' TO BE PUNCTURED.

C. EXISTING NOZZLE CONNECTIONS DP1,R,T11,M1,V AND T SHALL BE MODIFIED AS PER SPECIFICATION NO. 6907-11N-16-46-SP-0002, REV.A

D. LOCAL HYDROTEST SHALL BE CARRIED OUT FOR ALL THE NEW NOZZLES/MODIFIED NOZZLE CONNECTIONS.

E. A NEW VORTEX BREAKER SHALL BE WELDED TO THE BOTTOM OUTLET NOZZLE 'B'.

F. REMOVAL OF THE ENTIRE EXISTING INSULATION AND PROVIDING NEW INSULATION. EXISTING INSULATION 'T' CLEATS AS PER EIL STD. 7-12-0025 ALREADY WELDED WITH COLUMN SHALL BE REUSED AND 'FLAT' SHALL BE REPLACED BY NEW FLAT OF SUITABLE SIZE TO ACCOMMODATE NEW INSULATION THICKNESS. NO NEW CLEAT SHALL BE DIRECTLY WELDED TO COLUMN.

FOUNDATION LOADING DATA

(OPERATING CONDITION)

TYPE		MAX. MOMENT AT BASE (M)				MAX. SHEAR FORCE AT BASE (H)			
		(Kgm)				(Kg)			
SEISMIC	DBE	—				DBE	—		
	MCE	—				MCE	—		
WIND		—						—	

GENERAL NOTES	
UNLESS STATED OTHERWISE	
1.	ALL DIMENSIONS ARE IN MM
2.	ALL ANCHOR BOLT HOLES TO STRADDLE N/S CENTER LINE.
3.	NORTH DIRECTION WHEREVER SHOWN IS WITH RESPECT TO PLAN VIEW.
4.a)	FOR NOZZLES ON SHELL PROJECTIONS ARE REFERRED TO FROM VESSEL CENTER LINE TO FLANGE CONTACT FACE.
b)	FOR NOZZLES ON HEAD PROJECTIONS ARE REFERRED FROM HEAD T.L. TO FLANGE CONTACT FACE.
5.	THE INDICATED THICKNESS IS THE MINIMUM ACCEPTABLE AFTER CONSTRUCTION.
6.	FLANGE GASKET SHALL HAVE 125 AARH FINISH.
7.	NOZZLES 50NB AND BELOW SHALL BE STRENGTHENED WITH 2-30X4 THK. FLATS 90° APART.
8.	ALL S.S. INSIDE AND OUTSIDE SURFACE SHALL BE PICKED AND PASSIVATED IN ACCORDANCE WITH ASTM A380.
9.	NOZZLE NECK MADE OUT OF PLATE SHALL BE 100% RADIOGRAPHED.
10.	ALL NOZZLE ATTACHMENT HAVE FULL PENETRATION WELDS.
11.	ROOT RUN AND FINAL RUN OF ALL WELDS SHALL BE D.P. CHECKED.
12.	I.D. OF WN FLANGES SHALL MATCH WITH THE CORRESPONDING I.D. OF NOZZLE PIPES.

SPECIFICATIONS			DESIGN DATA		
☒ DENOTES APPLICABILITY	CODE	ASME SEC. VIII DIV.1			
☒ GENERAL SPEC. FOR PRESSURE VESSELS	WORKING PRESSURE (Kg/Cm ² g)	INT 21.0(TOP)/21.4(BOTTOM)			
☒ SUPP. SPEC. FOR SS VESSELS	DESIGN PRESSURE (Kg/Cm ² g)	26.0			
STD. SPEC. FOR BOCS PLATES	WORKING TEMPERATURE (°C)	TOP: (-95.8)/(-96.4) BOT.: 29.7/30.2			
STD. SPEC. FOR STRUCTURAL QUALITY PLATE	DESIGN TEMPERATURE (°C)	TOP: (-115/65) BOT.: (-115/120)			
STD. SPEC. FOR SS PLATES	MDMT (°C)	(-)115			
☒ JOB SPEC. FOR PAINTING	CORROSION ALLOWANCE (mm)	NIL			
	TYPE OF HEADS	TORISPHERICAL			
	JOINT EFFICIENCY	SHELL 1.0 HEAD/TORICONE 1.0			
	RADIOGRAPHY	SHELL ** HEAD **			
STANDARDS					
☒ VESSEL TOLERANCES	7-12-0001	POST WELD HEAT TREATMENT			
☒ SUPPORT FOR HORIZONTAL VESSEL	7-12-0002	HEAT TREATMENT			
WOODEN PILLOWS FOR SADDLE SUPPORT	7-12-0003	WIND SPECIFICATION			
SKIRT BASE DETAILS	7-12-0004	EARTH-QUAKE SPECIFICATION			
SKIRT OPENING DETAILS	7-12-0005	OPERATING MEDIUM			
ANGLE LEG SUPPORT	7-12-0006	CAPACITY			
PIPE LEG SUPPORT	7-12-0007	PAINTING / CLEANING			
BRACKET SUPPORT FOR VERTICAL VESSEL	7-12-0008	INSULATION THICKNESS (mm)			
MANHOLE WITH HINGED COVER	7-12-0009	FIRE PROOFING (BY OTHERS)			
MANHOLE WITH DAVIT	7-12-0010	HYDROSTATIC TEST (Kg/Cm ² g)			
LADDER RUNGS FOR MANHOLE/DEMISTER	7-12-0011	PRESSURE (NEW & COLD)			
RETAINING PLATE	7-12-0012	INSPECTION BY			
☒ NOZZLE REINFORCEMENT AND PROJECTION	7-12-0013	** ALL CIRC SEAM & LONG SEAM 100% RADIOGRAPHED			
☒ PAD NOZZLES FOR VESSELS	7-12-0014	⊗ TOP=215mm (COLD PUF) BOTTOM=50mm (HOT INSULATION)			
☒ STANDARD BOLT HOLE ORIENTATION	7-12-0015				
ALLOY LINER DETAILS	7-12-0016				
SIGHT GLASSES FOR PRESSURE VESSELS	7-12-0017	SHELL			
INTERNAL FLANGES	7-12-0018	REINFORCEMENT PAD			
☒ VORTEX BREAKERS	7-12-0019	HEADS			
INLET DEFLECTOR Baffle	7-12-0020	SHELL FLANGES			
SUPPORT RING & BOLTING BAR	7-12-0021	NOZZLE FLANGES			
SUPPORT RING SIZES FOR PACKED TOWERS	7-12-0022	NOZZLE NECK UP TO 100 NB			
PIPE DAVIT	7-12-0023	COUPLINGS			
LIFTING LUG TOP HEAD TYPE	7-12-0024	PIPE FITTINGS			
☒ FIRE PROOFING AND INSULATION SUPPORTS	7-12-0025	GASKETS EXTERNAL			
EARTHING LUG	7-12-0026	GASKETS INTERNAL			
NAME PLATE	7-12-0027	EXTERNAL STUDS/BOLTS/NUTS			
MANUFACTURER NAME PLATE	7-12-0028	INTERNAL BOLTS/NUTS			
BRACKET FOR NAME PLATE	7-12-0029	SKIRT / SUPPORT			
NAME PLATE FOR SMALL EQUIPMENT	7-12-0030	SKIRT / SUPPORT BASE			
DETAILS OF FORGED NOZZLES	7-12-0031	INTERNAL PARTS			
SUPPORTS FOR INTERNAL FEED PIPE	7-12-0032	TRAY SUPPORTS			
HOT INSULATION SUPPORTS FOR HORIZONTAL VESSEL	7-12-0033	CLIP & ATTACHMENTS (EXTERNAL)			
PIPE DAVIT SUPPORT FOR COLD INS. VESSELS	7-12-0034	WRAPPER PLATE			
TPP. DETAILS OF WIRE MESH DEMISTER SUPPORTS	7-12-0036	DEMISTER/GRID			
S.R. NOZZLE NECK	7-12-0037	NOZZLE NECK 150 NB & ABOVE			
		PARTITION PLATE			
		FABRICATED ANGLE FOR PARTITION PLT.			
		AS EXISTING			
		* WITH SS CENTERING RING DIMENSION TO ASME B16.20			
REFERENCE DRAWINGS					
NOZZLE ORIENTATIONS					
LADDERS / PLATFORM CLEATS					
PIPE SUPPORT CLEATS					
TRAY SUPPORT AND BOLTING BARS					
SPEC. FOR TRAYS	AS EXISTING				
HOLD UPS					
NOZZLE ORIENTATIONS					
NOZZLE ELEVATIONS					
SUPPORT HEIGHT					
DETAIL OF INTERNALS					
REBOLLER CLIPS	PIPE DAVIT				
STATUTORY REGULATIONS					
INDIAN BOILER REGULATIONS (IBR)					
DEPARTMENT OF EXPLOSIVES, NAGPUR (CCOE)					
APPROXIMATE WEIGHT (Kgs) (AS PER ITEM)					
ERECTION WEIGHT	-	OPERATING WEIGHT			
HYDROTEST WEIGHT (SHOP)	-	HYDROTEST WEIGHT (FIELD)			
NUMBER OF ITEMS : ONE					



FILE NAME: 6907-11-16-46-3050-A-2

JOB NO.: 6907
CLIENT: BCPL
PLANT: LPG LAKWA

A	27.07.2010	ISSUED WITH TENDER	<i>ABBY</i>	BVK/PB	AKG
REV.	DATE	REVISION	BY	CHK	APPROVED

VESSEL DESIGN DATA
DEMETHANISER
COLUMN
ITEM NO. 11-CC-001

वसेल डिजाइन डाटा
डिमिशनाइजर कॉलम
आइटम नम्बर 012-सीसी-001

DRAWING NO.

6907-11N-16-46-3050

REV.

