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FILE NAME : 6907-44-16-46-3033-A-1

NOZZLES AND CONNECTIONS

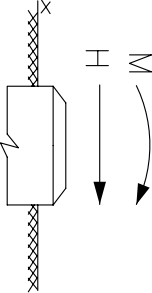
MARK	QTY	NOM DIA.	SCH/ THK.	FLANGES		PROJECTION (NOTE-4)	PAD W X T	SERVICE
				CLASS	TYPE			
					FACING			
T	1	50	160	150	WN	RF	SEE DRG.	TOP OUTLET
B	1	80	160	150	WN	RF	SEE DRG.	BOTTOM OUTLET
V	1	38.1 I.D	14.28	150	LWN	RF	SEE DRG.	VENT+BF
UC	1	50	160	150	WN	RF	380	UTILITY CONNECTION+BF
SP 1-4	4	50 (HOLD)	160	150	WN	RF	380	STAND PIPE

NO LADDER / PLATFORM / PIPE SHALL BE SUPPORTED FROM THIS VESSEL

VESSEL TO BE DELIVERED TO BCPL, LAKWA

FOUNDATION LOADING DATA
(OPERATING CONDITION)

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



GENERAL NOTES

UNLESS STATED OTHERWISE

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- ALL ANCHOR BOLT HOLES TO STADDE N/S CENTER LINE.
- NORTH DIRECTION WHEREVER SHOWN IS WITH RESPECT TO PLAN VIEW.
- d) FOR NOZZLES ON SHELL PROJECTION ARE REFERRED TO FROM VESSEL CENTER LINE TO FLANGE CONTACT FACE.
b) FOR NOZZLES ON HEAD PROJECTION ARE REFERRED FORM HEAD T.L. TO FLANGE CONTACT FACE.
- THE INDICATED THICKNESS IS THE MINIMUM ACCEPTABLE AFTER CONSTRUCTION.
- FLANGE GASKET SHALL HAVE 125 AARH FINISH.
- DIMENSION OF FLANGES SHALL BE AS PER ANSI B16.5 UNLESS OTHERWISE STATED.
- ID OF WELD NECK FLANGES SHALL MATCH WITH CORRESPONDING ID OF NOZZLE PIPE/ SHELL.
- NOZZLES 50NB AND BELOW SHALL BE STIFFENED WITH 2NOS. 40X6THK. FLAT 90°.
- SURFACE CLEANING / PRIMER PAINTING SHALL BE AS PER SPEC. 6907-0642-PT-L07
- TOP TANGENT LINE OF CONDENSATE POT BE LOCATED 300 mm BELOW THE BOTTOM TUBE SHEET OF COLD BLOW DOWN.

SPECIFICATIONS

☒	DENOTES APPLICABILITY
☒	GENERAL SPEC. FOR PRESSURE VESSELS
☒	SUPP. SPEC. FOR CS VESSELS
☒	STD. SPEC. FOR BOCS PLATES
☒	STD. SPEC. FOR STRUCTURAL QUALITY PLATE
☒	JOB SPEC. FOR SHOP & FIELD PAINTING

STANDARDS

☒	VESSEL TOLERANCES	7-12-0001
☒	SUPPORT FOR HORIZONTAL VESSEL	7-12-0002
☒	WOODEN PILLOWS FOR SADDLE SUPPORT	7-12-0003
☒	SKIRT BASE DETAILS	7-12-0004
☒	SKIRT OPENING DETAILS	7-12-0005
☒	ANGLE LEG SUPPORT	7-12-0006
☒	PIPE LEG SUPPORT	7-12-0007
☒	BRACKET SUPPORT FOR VERTICAL VESSEL	7-12-0008
☒	MANHOLE WITH HINGED COVER	7-12-0009
☒	MANHOLE WITH DAVIT (FOR GUIDANCE ONLY)	7-12-0010
☒	LADDER RUNGS FOR MANHOLE/DEMISTER	7-12-0011
☒	RETAINING PLATE	7-12-0012
☒	NOZZLE REINFORCEMENT AND PROJECTION	7-12-0013
☒	PAD NOZZLES FOR VESSELS	7-12-0014
☒	STANDARD BOLT HOLE ORIENTATION	7-12-0015
☒	ALLOY LINER DETAILS	7-12-0016
☒	SIGHT GLASSES FOR PRESSURE VESSELS	7-12-0017
☒	INTERNAL FLANGES	7-12-0018
☒	VORTEX BREAKERS	7-12-0019
☒	INLET DEFLECTOR BAFFLE	7-12-0020
☒	SUPPORT RING & BOLTING BAR	7-12-0021
☒	SUPPORT RING SIZES FOR PACKED TOWERS	7-12-0022
☒	PIPE DAVIT	7-12-0023
☒	LIFTING LUG TOP HEAD TYPE	7-12-0024
☒	FIRE PROOFING AND INSULATION SUPPORTS	7-12-0025
☒	EARTHING LUG	7-12-0026

MATERIAL OF CONSTRUCTION

(AS PER ASME/IS OR EQUIVALENT)

☒	NOZZLE REINFORCEMENT AND PROJECTION	7-12-0013	SHELL REINFORCEMENT PAD HEADS SHELL FLANGES NOZZLE FLANGES/LWN NOZZLE NECK UP TO 250NB NOZZLE NECK ABOVE 250NB PIPE FITTINGS GASKETS EXTERNAL SPIRAL WOUND GASKET WITH SS 316 METAL WINDING AND GRAFIL FILLER MATERIAL AS PER ASME B16.20
☒	PAD NOZZLES FOR VESSELS	7-12-0014	
☒	STANDARD BOLT HOLE ORIENTATION	7-12-0015	
☒	ALLOY LINER DETAILS	7-12-0016	
☒	SIGHT GLASSES FOR PRESSURE VESSELS	7-12-0017	
☒	INTERNAL FLANGES	7-12-0018	
☒	VORTEX BREAKERS	7-12-0019	
☒	INLET DEFLECTOR BAFFLE	7-12-0020	
☒	SUPPORT RING & BOLTING BAR	7-12-0021	
☒	SUPPORT RING SIZES FOR PACKED TOWERS	7-12-0022	
☒	PIPE DAVIT	7-12-0023	GASKETS INTERNAL EXTERNAL STUDS/BOLTS/NUTS INTERNAL STUDS/BOLTS/NUTS INTERNAL STUDS/BOLTS/NUTS SKIRT/ SUPPORT BASE SKIRT/ SUPPORT BASE INTERNAL PARTS (WELDED/BOLTED) CLIP & ATTACHMENTS DIRECTLY WELDED (EXTERNAL) CLIP & ATTACHMENTS WELDED OVER PAD (EXTERNAL) PAD FOR EXTERNAL ATTACHMENT WRAPPER PLATE DEMISTER / GRID PIPE DAVIT
☒	LIFTING LUG TOP HEAD TYPE	7-12-0024	
☒	FIRE PROOFING AND INSULATION SUPPORTS	7-12-0025	
☒	EARTHING LUG	7-12-0026	
☒	NAME PLATE	7-12-0027	
☒	MANUFACTURER NAME PLATE	7-12-0028	
☒	BRACKET FOR NAME PLATE	7-12-0029	
☒	NAME PLATE FOR SMALL EQUIPMENT	7-12-0030	
☒	DETAILS OF FORGED NOZZLES	7-12-0031	
☒	SUPPORTS FOR INTERNAL FEED PIPE	7-12-0032	
☒	HOT INSULATION SUPPORTS FOR HORIZONTAL VESSEL	7-12-0033	INDIAN BOILER REGULATIONS (IBR) DEPARTMENT OF EXPLOSIVES, NAGPUR (CCOE) APPROXIMATE WEIGHT (Kgs) (AS PER ITEM)
☒	PIPE DAVIT SUPPORT FOR COLD INS. VESSELS	7-12-0034	
☒	PIPE DAVIT SUPPORT FOR COLD INS. VESSELS	7-12-0034	
☒	TYP.DETAILS OF WIRE MESH DEMISTER SUPPORTS	7-12-0036	
☒	S.R. NOZZLE NECK	7-12-0037	
☒			
☒			
☒			
☒			
☒			
☒			ERECTION WEIGHT 350 OPERATING WEIGHT 800 HYDROTEST WEIGHT 600 HYDROTEST WEIGHT 700 NUMBER OF ITEMS : ONE
☒			
☒			
☒			
☒			
☒			
☒			
☒			
☒			
☒			

REFERENCE DRAWINGS

☒	NOZZLE ORIENTATIONS	-
☒	LADDERS / PLATFORM CLEATS	N.A.
☒	PIPE SUPPORT CLEATS	N.A.
☒	TRAY SUPPORT AND BOLTING BARS	N.A.
☒	DEMISTER DATA SHEET	N.A.

HOLD UPS

☒	NOZZLE ORIENTATIONS	☒	SIZE OF NOZZLE SP1-4
☒	NOZZLE ELEVATIONS	☒	PIPE SUPPORT CLEATS
☒	SUPPORT HEIGHT	☒	LADDER / PLATFORM CLEATS
☒	DETAIL OF INTERNALS	☒	TRAY SUPPORTS / BOLTING BARS
☒	REBOILER CLIPS	☒	PIPE DAVIT

STATUTORY REGULATIONS

☒	INDIAN BOILER REGULATIONS (IBR)
☒	DEPARTMENT OF EXPLOSIVES, NAGPUR (CCOE)
☒	APPROXIMATE WEIGHT (Kgs) (AS PER ITEM)

APPROXIMATE WEIGHT (Kgs) (AS PER ITEM)

ERECTION WEIGHT	350	OPERATING WEIGHT	800
HYDROTEST WEIGHT (SHOP)	600	HYDROTEST WEIGHT (FIELD)	700

NUMBER OF ITEMS : ONE



ENGINEERS INDIA LIMITED
KOLKATA

JOB NO.: 6907
CLIENT: BCPL
PLANT: C2 + RECOVERY UNIT, LAKWA

REV. A
DATE 25.02.2010

ISSUED FOR BIDS/ENGG.
REVISION

A.ROY
RR/PB
CHK

APPROVED
APPROVED

VESSEL DESIGN DATA
LP STEAM CONDENSATE POT
ITEM NO. 11-VV-016

वेसेल डिजाइन डाटा
एल पी स्टीम कन्डेन्सेट पोट
आइटम नम्बर 11-वीवी-016

DRAWING NO.
6907-11-16-46-3044
SHEET 1 OF 2

REV.
A



KOLKATA

ENGINEERS INDIA LIMITED

JOB NO. : 6907
CLIENT : BCPL
PLANT : C2+ RECOVERY, LAKWA

REV.	DATE	REVISION	BY	CHK	APPROVED
A	25.02.2010	ISSUED FOR BIDS/ENGG.	A.ROY	RR/PB	AKG

VESSEL DESIGN DATA
LP STEAM CONDENSATE
POT
ITEM NO. 11-VV-016

वेसेल डिजाइन डेटा
एल पी स्टीम
कन्डेन्सेट पोट
आइटम नम्बर 11-वीवी-016

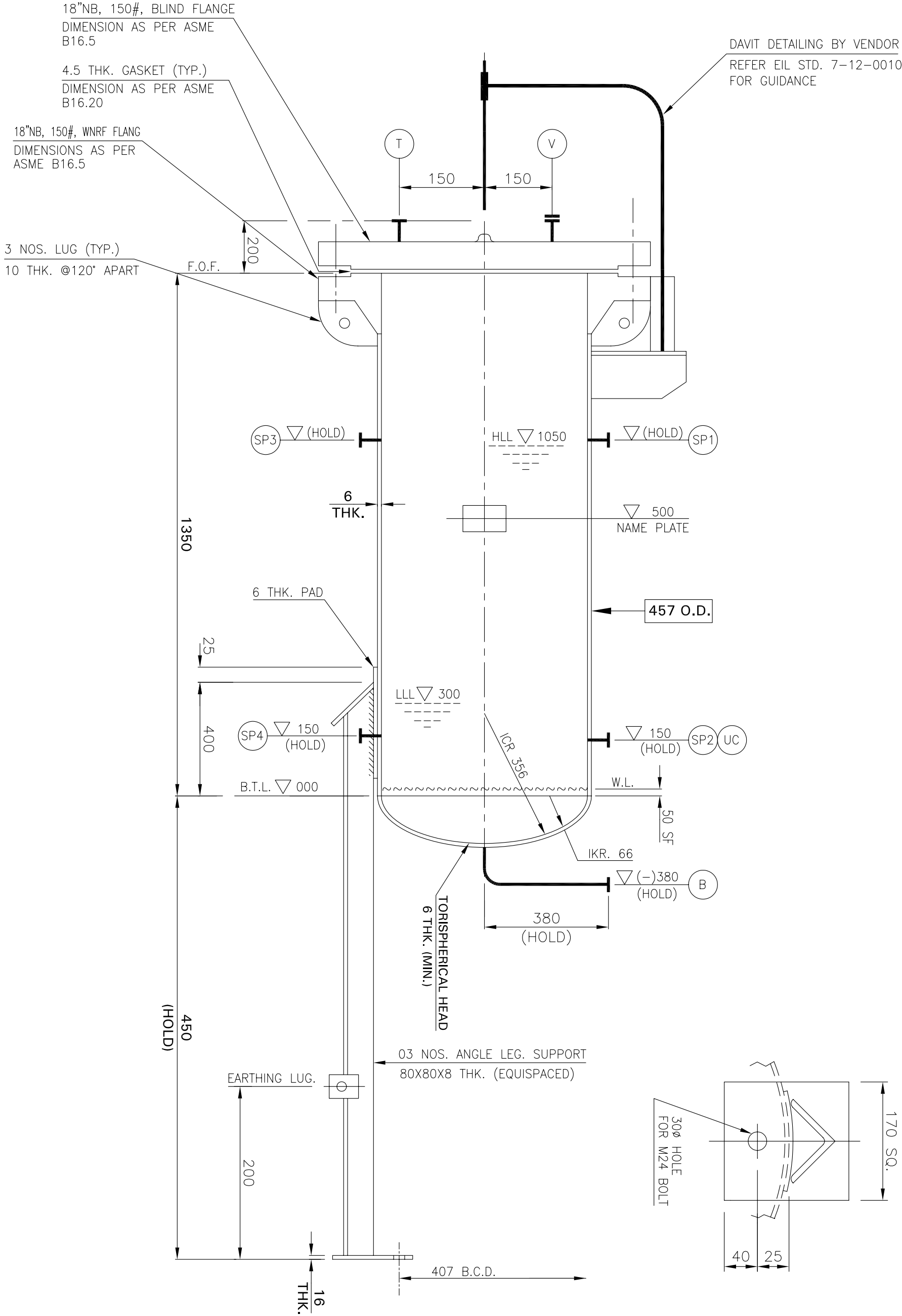
DRAWING NO.
6907-11-16-46-3044

REV.
A

SHEET 2 OF 2

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DETAIL OF BASE PLATE
(ALL OTHER DIMENSIONS AS PER EIL STD.)