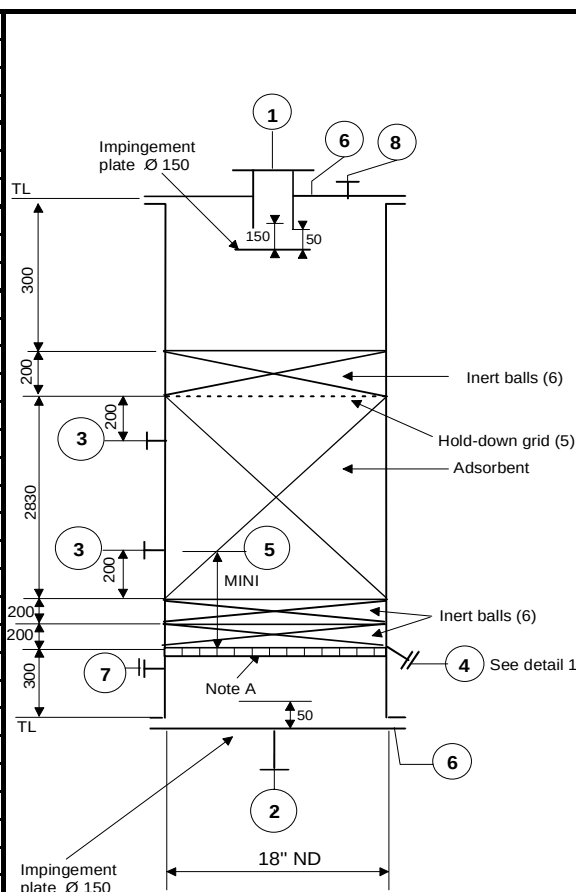


CLIENT	BCPL	VESSEL	JOB N°	8692Y	Rev
LOCATION	LEPETKATA - INDIA		SECTION	FPU	
UNIT	220 kta LLDPE / HDPE		ITEM	117-VV-944	
			No. OFF	1	
			SERVICE	PENTANE TREATER	
			PAGE	1/2	

	OPERATING	PROCESS DESIGN
PRESSURE	kg/cm ² (g)	kg/cm ² (g)
Normal Op.	4.5	12 / FV
Regeneration (N2)	4.0	10.5
TEMPERATURE	°C	°C @ kg/cm ² (g)
Normal Op.	1 to 40	80 @ 12 / FV
Regeneration (N2)	270 (3)	-45 / 325 @ 10.5
MATERIALS	SHELL	ENDS
CORR. ALLOWANCE	L.T.C.S.	L.T.C.S.
	3.0 mm	3.0 mm

Fluid: Pentane
Density: 606 to 645 kg/m³
Insulation: YES (heat conservation)
Lower TL elevation above ground: (4)

REP	Nb	Dia. In	SERVICE
1	1	3	Inlet
2	1	3	Outlet
3	2	1 1/2	Temperature indicator (8)
4	1	4	Absorbent draw off
5	1	8	Handhole (1)
6	2	18	Body flange
7	1	2	Spare
8	1	1 1/2	Vent



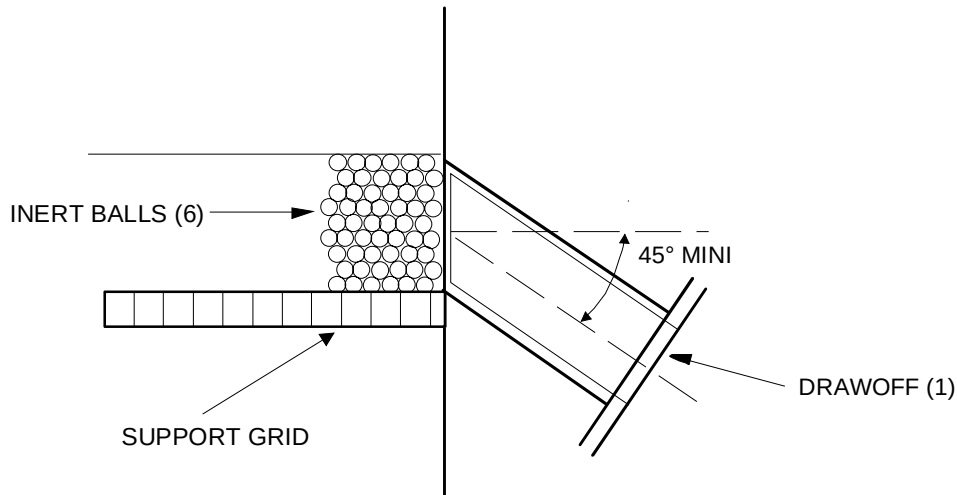
(*) CYLINDRICAL SHELL LENGTH ONLY.

DRUM ORIENTATION			VERTICAL		BOOT					
INTERNAL DIAMETER			in	18 ND (3)	INTERNAL DIAMETER			mm		
HEIGHT OR LENGTH (*)			mm	4030 (3)	HEIGHT OR LENGTH (*)			mm		
REV.		XA	0	1						
DATE		Jan 09	Aug 09	Sept 09						
BY		MG	MG	MG						
CHECKED BY		FB	FB	FB						

VESSEL

CLIENT	BCPL	VESSEL	JOB N°	8692Y	Rev
LOCATION	LEPETKATA - INDIA		SECTION	FPU	
UNIT	220 kta LLDPE / HDPE		ITEM	117-VV-944	
			No. OFF	1	
			SERVICE	PENTANE TREATER	
			PAGE	2/2	

DETAIL 1 - ADSORBENT DRAWOFF



PROCESS NOTES

- Complete with plug insert to ensure flush fitting with cylindrical shell.
- Adsorbent supply:
Above adsorbent: 0.029 m³ of inert balls (Denstone D-57 1/2" or equivalent).
Adsorbent: 0.4 m³ UOP AZ-300 molecular sieve or equivalent.
Below adsorbent: 0.058 m³ of inert balls (0.029 m³ of Denstone D-57 1/8" above 0.029 m³ of Denstone D-57 1/4" or equivalent)
- DELETED.
- Elevation to allow easy emptying of adsorbents from bottom withdrawal nozzle.
- S.S. 20 mesh grid (0.85 mm opening).
- Denstone 57 or equivalent. Ball size to be given by adsorbent Vendor.
- Detail Engineering to ensure that total ΔP from flange to flange is lower than 0.2 kg/cm².
- Spaced 180° apart in plan view around circumference.

MECHANICAL NOTES

- Johnson screen grid type or equivalent (see note 7).

REV.	XA	0	1						
DATE	Jan 09	Aug 09	Sept 09						
BY	MG	MG	MG						
CHECKED BY	FB	FB	FB						

BLANK SHEET