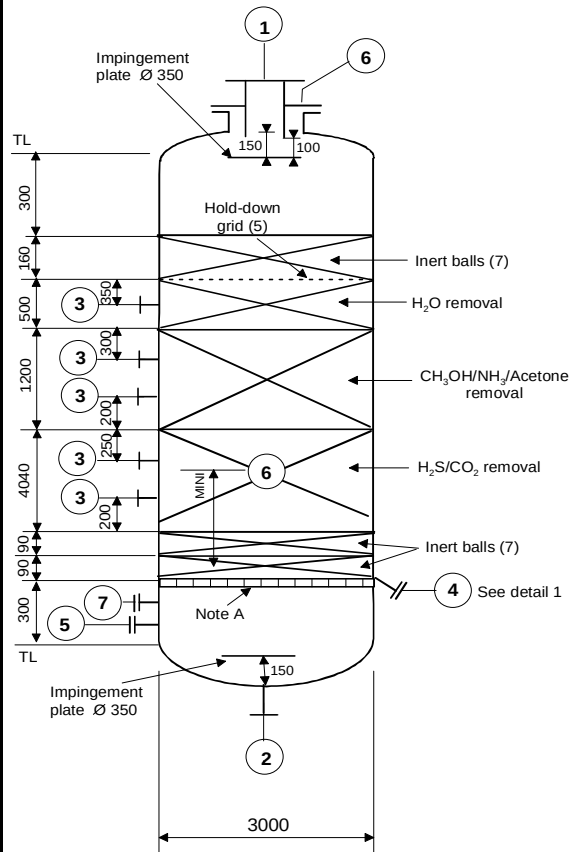


CLIENT	BCPL	VESSEL	JOB N°	8692Y	Rev
LOCATION	LEPETKATA - INDIA		SECTION	FPU	
UNIT	220 kta LLDPE / HDPE		ITEM	117-VV-932 A/B	
			No. OFF	2	
			SERVICE	ETHYL. OXYGENATES TREATERS	
			PAGE	1/3	

	OPERATING	PROCESS DESIGN
PRESSURE	kg/cm2(g)	kg/cm2(g)
Normal Op.	32.2	56
Regeneration (N2)	4	10.5
TEMPERATURE	°C	°C @ kg/cm2(g)
Normal Op.	43	80 @ 56 (6)
Regeneration (N2)	270 (3)	-45 / 325 (3) @ 10.5
	SHELL	ENDS
MATERIALS	L.T.C.S.	L.T.C.S.
CORR. ALLOWANCE	3 mm	3 mm

Fluid: Ethylene
Density: 39.01 kg/m3 @ 43°C
Insulation: YES (heat conservation)
Lower TL elevation above ground: (4)

NOZZLE DATA			
REP	Nb	Dia. In	SERVICE
1	1	8	Inlet
2	1	8	Outlet
3	5	1 1/2	Temperature indicator (9)
4	1	4	Absorbent draw off
5	1	8	Handhole (1)
6	2	24	Manhole
7	1	2	Spare



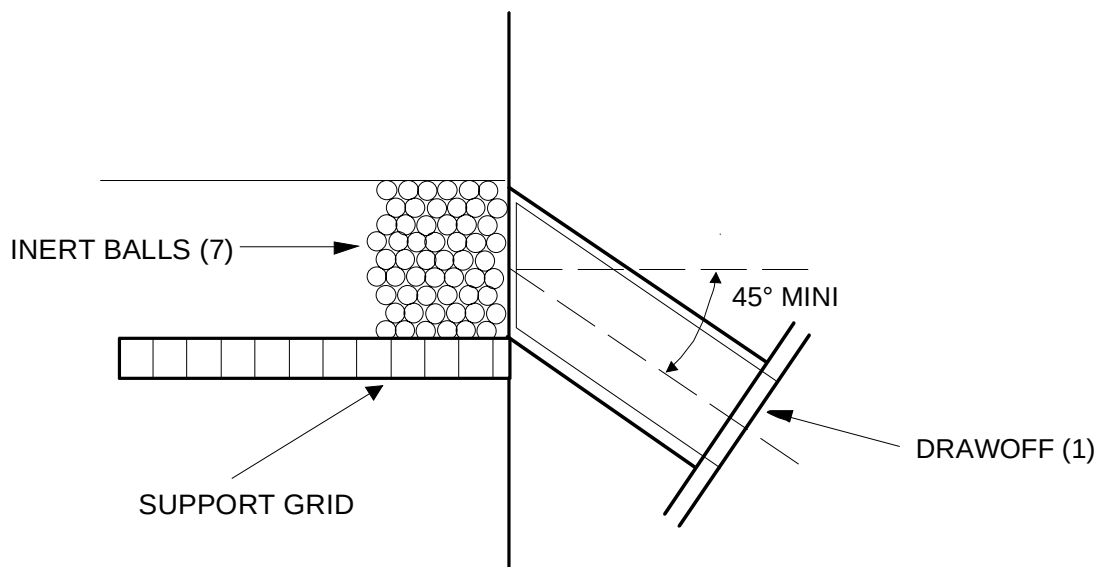
(*) CYLINDRICAL SHELL LENGTH ONLY.

DRUM ORIENTATION		VERTICAL		BOOT	
INTERNAL DIAMETER	mm	3000 (3)	INTERNAL DIAMETER	mm	
HEIGHT OR LENGTH (*)	mm	6680 (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-932 A/B	
			No. OFF	2	
			SERVICE	ETHYL. OXYGENATES TREATERS	
			PAGE	2/3	

DETAIL 1 - ADSORBENT DRAWOFF



PROCESS NOTES

- Complete with plug insert to ensure flush fitting with cylindrical shell.
- Adsorbent supply
Above adsorbents: 1.1 m³ of inert balls (Denstone D-57 1/2" or equivalent).
Adsorbents:
 - For H₂O removal: 3.5 m³ of UOP 3A-EPG 1/16" molecular sieve or equivalent.
 - For CH₃OH/NH₃/Acetone removal: 8.5 m³ of UOP AZ-300 7x14 mesh or equivalent.
 - For H₂S/CO₂ removal: 28.5 m³ of UOP CG-731 7x12 mesh or equivalent.
 Below adsorbents: 1.2 m³ of inert balls (0.6 m³ of Denstone D-57 1/8" above 0.6 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).

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

BLANK SHEET

CLIENT	BCPL	VESSEL	JOB N°	8692Y	Rev
LOCATION	LEPETKATA - INDIA		SECTION	FPU	
UNIT	220 kta LLDPE / HDPE		ITEM	117-VV-932 A/B	
			No. OFF	2	
			SERVICE	ETHYL. OXYGENATES TREATERS	
			PAGE	3/3	

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6. -36°C after depressurisation at atmospheric pressure.

7. Denstone 57 or equivalent. Ball size to be given by adsorbent Vendor.

8. Detail Engineering to ensure that total ΔP from flange to flange is lower than 0.2 kg/cm².

9. Equally spaced in plan view around circumference.

MECHANICAL NOTES

A. Johnson screen grid type or equivalent (see note 8).

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

BLANK SHEET