

PROJECT		BRAHMAPUTRA PETROCHEMICAL COMPLEX		CLIENT		BCPL																									
UNIT		GSU, LAKWA		JOB NO.		6907																									
ITEM NO.		051-CC-101		SERVICE		ABSORBER																									
PROCESS DATA																															
FLUID HANDLED				AMINE & FEED GAS (HC+ CO2)																											
OPERATING PRESSURE		KG/CM2 G		TOP	48.5	BOTTOM	48.7																								
OPERATING TEMPERATURE		DEG C		TOP	57.6	BOTTOM	53.9																								
DESIGN PRESSURE		KG/CM2 G		TOP	65	BOTTOM	65.5																								
DOES COLUMN REQUIRE FULL VACUUM DESIGN				YES 1																											
DESIGN TEMPERATURE				DEG C		75																									
MECHANICAL DATA																															
TOTAL NUMBER OF TRAYS REQUIRED				20																											
REFER TRAY DATASHEETS NO.				6907-051-02-DS-1101																											
TOTAL NUMBER OF PACKED SECTIONS REQUIRED																															
REFER PACKING DATASHEETS NO.																															
MATERIAL OF CONSTRUCTION FOR COLUMN																															
SHELL				KCS+FWHT (NOTE-1)																											
LINER																															
CORROSION ALLOWANCE																															
SHELL		MM		3																											
LINER THICKNESS		MM																													
INSULATION REQUIRED				YES																											
INSULATION THICKNESS		MM		25																											
IS INLET BAFFLE DEFLECTOR REQUIRED				YES																											
COLUMN SUBJECTED TO STEAM OUT CONDITION				YES																											
IF 'YES' STEAM TEMPERATURE		DEG C		190																											
STEAM PRESSURE		KG/CM2 G		0.5																											
VORTEX BREAKER REQUIRED				YES																											
DEMISTER REQUIRED				NO																											
IF 'YES' REF DATA SHEET NUMBER																															
IS DESIGN FOR NACE CODE REQUIRED				NO																											
IS DESIGN FOR IBR CODE REQUIRED				NO																											
NOZZLES AND CONNECTIONS DETAILS																															
RATING FOR COLUMN NOZZLES 600#				RATING FOR COLUMN NOZZLES 600#																											
MARK	NUMBER	SIZE, IN	SERVICE	MARK	NUMBER	SIZE, IN	SERVICE																								
F1	1	8	FEED	MCF			PUMP MINIMUM FLOW																								
F2	1	3	FEED	SD			SIDE DRAW OFF																								
F3			FEED	PDT	2	NOTE-2,3	DIFF PRESSURE TRANSMITTER																								
B	1	4	BOTTOM OUTLET	PSHH			PRESSURE SWITCH																								
T	1	8	TOP OUTLET																												
H			HANDHOLE																												
D			DRAIN																												
V	1	2	VENT																												
UC	1	2	UTILITY CONNECTION																												
LI	6	NOTE-2	LEVEL INSTRUMENTS																												
SP	2	2	STAND PIPE																												
PI			PRESSURE INSTRUMENTS																												
TI			TEMPERATURE INSTRUMENTS																												
SV			SAFETY VALVE																												
MH	3	20	MAN HOLE																												
RI			REBOILER INLET																												
RR			REBOILER RETURN																												
<table border="1"> <tr> <td>1</td> <td>15/01/2013</td> <td>FOUND ADEQUATE FOR REVISED CASE-II CONDITIONS</td> <td>SDAS</td> <td>SG</td> <td>SG</td> </tr> <tr> <td>0</td> <td>16/01/2009</td> <td>ISSUED FOR ENGINEERING</td> <td>SD</td> <td>SG</td> <td>SG</td> </tr> <tr> <td>A</td> <td>17/12/2008</td> <td>ISSUED FOR COMMENTS/ SIZING</td> <td>AM</td> <td>NM</td> <td>NM</td> </tr> <tr> <td>Rev. No.</td> <td>Date</td> <td>Purpose</td> <td>Prepared By</td> <td>Reviewed By</td> <td>Approved By</td> </tr> </table>								1	15/01/2013	FOUND ADEQUATE FOR REVISED CASE-II CONDITIONS	SDAS	SG	SG	0	16/01/2009	ISSUED FOR ENGINEERING	SD	SG	SG	A	17/12/2008	ISSUED FOR COMMENTS/ SIZING	AM	NM	NM	Rev. No.	Date	Purpose	Prepared By	Reviewed By	Approved By
1	15/01/2013	FOUND ADEQUATE FOR REVISED CASE-II CONDITIONS	SDAS	SG	SG																										
0	16/01/2009	ISSUED FOR ENGINEERING	SD	SG	SG																										
A	17/12/2008	ISSUED FOR COMMENTS/ SIZING	AM	NM	NM																										
Rev. No.	Date	Purpose	Prepared By	Reviewed By	Approved By																										



COLUMN
PROCESS DATA SHEET

Document No.
6907-051-02-DS-1001
Rev. No. 1
Page 3 of 4

PROJECT	BRAHMAPUTRA PETROCHEMICAL COMPLEX	CLIENT	BCPL
UNIT	GSU, LAKWA	JOB NO.	6907
ITEM NO.	051-CC-101	UNIT NO.	051
		SERVICE	ABSORBER

NOTES

NOZZLE LOADING DATA

NOZZLE	CASE	NORMAL FLOW RATE	DENSITY	M.W.	DESIGN FLOW	PHASE
		KG/HR	KG/M3		(% OF NORMAL)	
		CASE1/CASE2				
F1	CASE -1	42668	38.8	17.9	110	V
	CASE -2	30903	37.7	17.5	110	V
F2	CASE -1	22176	1007.1		110	L
	CASE -2	16318	1006.9		110	L
B	CASE -1	22834	1020.9		110	L
	CASE -2	16809	1020.4		110	L
T	CASE -1	42010	36.6	17.8	110	V
	CASE -2	30412	35.6	17.4	110	V

Rev. No.	Date	Purpose	Prepared By	Reviewed By	Approved By
I	15/01/2013	FOUND ADEQUATE FOR REVISED CASE-II CONDITIONS	SDAS	SG	SG
O	16/01/2009	ISSUED FOR ENGINEERING	SD	SG	SG
A	17/12/2008	ISSUED FOR COMMENTS/ SIZING	AM	NM	NM

PROJECT: BRAHMAPUTRA PETROCHEMICAL COMPLEX
PLANT: GSU, LAKWA

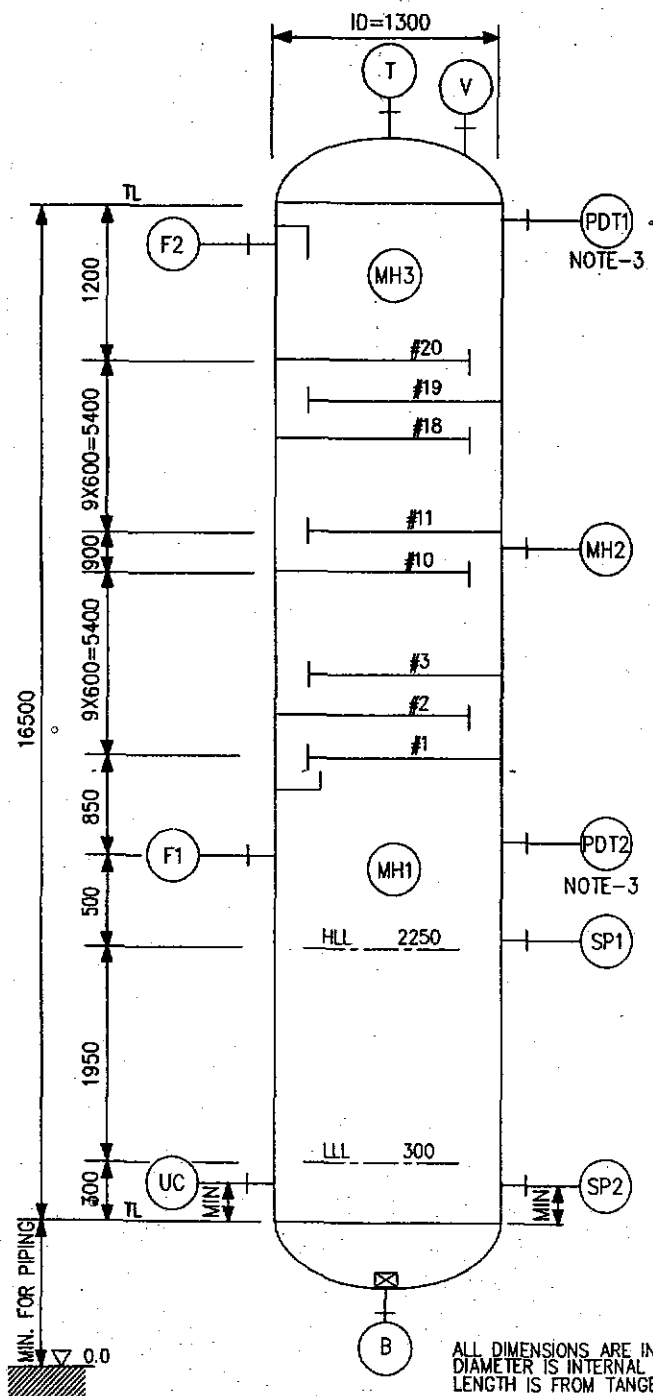
CLIENT: BCPL
JOB NO.: 6907

UNIT NO.: 051

ITEM NO.: 051-CC-101

SERVICE: ABSORBER

SKETCH OF THE COLUMN



1	15.01.13	FOUND ADEQUATE FOR REVISED CASE-II CONDITIONS	SDAS	SDAS	SG	SG
0	19.01.09	ISSUED FOR ENGINEERING	NATHU			
A	17.12.08	ISSUED FOR COMMENTS / SIZING	Js	AM	NM	NM
Rev. No.	Date	Purpose	Drawn By	Prepared By	Reviewed By	Approved By