

AMINE UNIT EVALUATION

To: AMINES & PLASTICIZERS LIMITED Fax: +91 22 24938162

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Date:

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MUMBAI-400018

CUSTOMER INFORMATION:

'D' BLDG., SHIVSAGAR ESTATE,

Company:

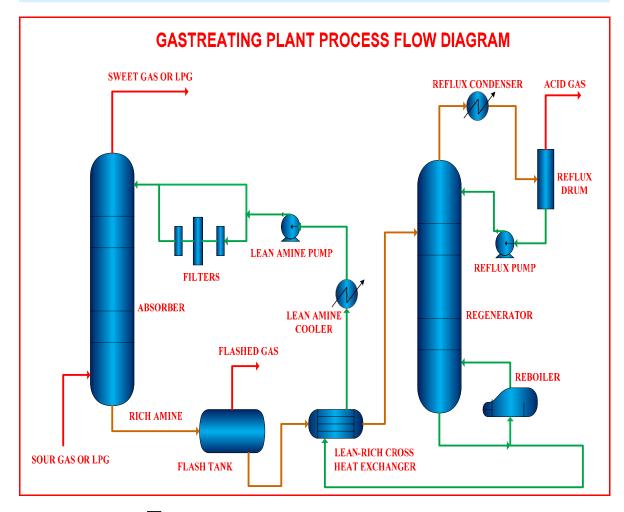
Contact Person:

Location:

Phone: Fax:

E-mail:

GENERAL PLANT LAY-OUT:



English units : \boxtimes

ABSORBER DETAILS

NAME / NUMBER:

Off Center

inch

FEED STREAM CONDITIONS OF SOUR GAS OR LPG: Source of feed **DESIG** ACTUAL Flow: MMSCFD gas Pressure: psia °F Temperature: FEED COMPOSITION OF SOUR GAS / LPG: CO_2 mol% H₂S mol% H_2 mol% CH₄ mol% C_2H_6 mol% C_2H_4 mol% mol% C_3H_8 mol% C_3H_6 n-C₄ i-C₄ mol% n-C₅ mol% mol% n-C₆ i-C₅ mol% mol% CO mol% N_2 mol% O_2 mol% H_2O COS CS_2 mol% mol% mol% C₁SH mol% C₂SH mol% C₃SH mol% Other components: REQUIRED SPECIFICATION OF TREATED GAS OR LPG: CO_2 ppmv gas H_2S ppmv gas COS ppmv gas Other sulfur **LEAN AMINE DETAILS:** °F Temperature: Feed tray number: Design rate: US gpm Actual rate: US gpm ABSORBER DETAILS: Diameter: inch Height: ft TRAYED ABSORBER **PACKED ABSORBER** Type of trays: Type of packing: Number of trays: Packing material: inch Tray spacing: inch Nominal size: Number of Packing Bed Height: ft Weir height: inch No. of Packed Beds Downcomer Downcomer Area: ft2 Side: inch ft2 Active Area: Central: inch

REGENERATOR DETAILS	:	NAME / NUMBER:	
Diameter:	inch	Bottom pressure:	psia
Rich amine		Overhead pressure:	psia
- Temperature:	°F	Overhead temp:	°F
- Feed tray number:		Reflux flow rate:	US gpm
TRAYED REGENERATOR		PACKED REGENERATOR	
Type of trays:		Type of packing:	
Number of trays:		Packing material:	
Tray spacing :	inch	Nominal size:	inch
Number of passes:		Packing Bed	ft
Weir height:	inch	No. of Packed	
Downcomer width			
Side:	inch	Downcomer Area:	ft2
Central:	inch	Active Area:	ft2
Off Center:	inch		
REBOILER DETAILS:		NAME / NUMBER:	
Number of reboilers:		Heat source:	
Total design duty:	MMBTU/h	Total actual duty:	MMBTU/h
RICH-LEAN CROSS HEAT	EXCHANGER I	DETAILS: NAME /NUMBER:	
Total design duty:	MMBTU/h	Exchanger area:	ft2
Rich amine:		Lean amine:	
Temperature in:	°F	Temperature in:	°F
Temperature out:	°F	Temperature out:	°F
LEAN AMINE COOLER DE	TAILS:	NAME / NUMBER:	
Total design duty:	MMBTU/h	Exchanger area:	ft2
ACID GAS COOLER DETAILS:		NAME / NUMBER:	
Total design duty:	MMBTU/h	Exchanger area:	ft2
Gas temperature in:	°F	Gas temperature out:	°F
FLASH DRUM DETAILS:		NAME / NUMBER:	
Operating pressure:	psia	Total volume:	US gallon
RICH AMINE MECHANICA DETAILS:	L FILTER	NAME / NUMBER:	
Type :		Nominal size of cartridges:	

LEAN AMINE MECHANICAL AND CARBON FILTERS:						
MECHANICAL FILTER BEFORE CARBON BED:						
Type:	pe: Nominal size of cartridges:					
CARBON BED: YES □	NO □					
MECHANICAL FILTER AFTER CARBON BED: YES ☐ NO ☐						
Type: Nominal size of cartridges:						
% of main circulation flow treated						
GENERAL BACKGROUND INFORMATION:						
Current solvent used:	☐ MEA ☐ DEA ☐ ☐ Other amines	DIPA DGA				
Total solution inventory:	US gallons Cor	ncentration:	Wt%			
WHY YOU REASON(S) FOR CONSIDERING AN ALTERNATE SOLVENT:						
☐ Energy savings ☐ Reduced CO₂ pick-up Current operating problems:	Increased capacity	☐ Reduced corro	sion			
COMMENTS:						