

AMINE UNIT EVALUATION

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

Date:

'D' BLDG., SHIVSAGAR ESTATE,

Email:amines@vsnl.com

DR. ANNIE BESANT ROAD, WORLI

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MUMBAI-400018

CUSTOMER INFORMATION:

Company:

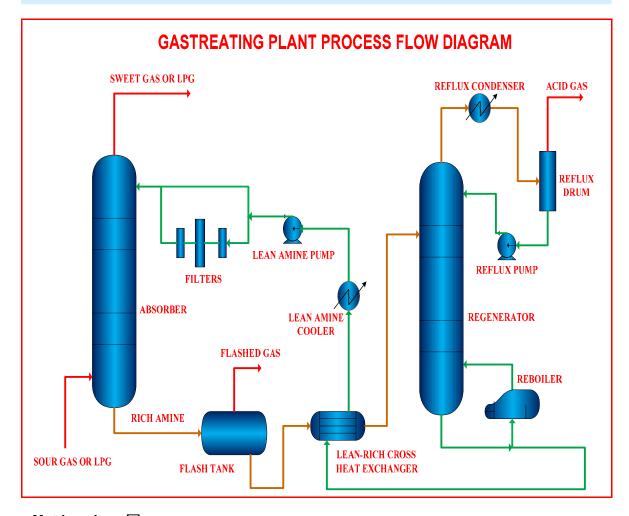
Contact Person:

Location:

Phone: Fax:

E-mail:

GENERAL PLANT LAY-OUT:



Metric units : ⊠

ABSORBER DETAILS

NAME / NUMBER:

Off Center

mm

NAME / NU	WDER:						
FEED STREA	M CONDITION	ONS OF S	OUR GAS OF	R LPG:			
Source of feed	b						
	DE	SIG	ACTUAL				
Flow:				N	MSCMD	gas	
Pressure:				b	ar a		
Temperature:				°(3		
FEED COMPO	OSITION OF	SOUR GA	S / LPG:				
CO ₂	mol%	H ₂ S		mol%			
H_2	mol%	CH ₄		mol%	C_2H_6		mol%
C_2H_4	mol%	C_3H_8		mol%	C_3H_6		mol%
n-C ₄	mol%	i-C ₄		mol%	n-C ₅		mol%
i-C ₅	mol%	n-C ₆		mol%			
CO	mol%	N_2		mol%	O_2		mol%
H ₂ O	mol%	cos		mol%	CS_2		mol%
C₁SH	mol%	C ₂ SH		mol%	C_3SH		mol%
Other compon	ents:						
REQUIRED S	PECIFICATI	ON OF TR	EATED GAS	OR LPG:			
CO ₂	ppmv gas	H_2S		ppmv gas	COS		ppmv gas
Other sulfur							
LEAN AMINE	DETAILS:						
Temperature:		C	Feed tray no	umber:			
Design rate:		n3/h liquid	Actual rate:			m3/h li	quid
ABSORBER I	DETAILS:						
Diameter:		mm	Height:				mm
TRAYED ABS	SORBER		PACKED	ABSORB	ER		
Type of trays:			Type of p	acking:			
Number of tra	ys:		Packing r	material:			
Tray spacing :	:	mm	Nominal	size:			mm
Number of			Packing E	Bed Height	:		mm
Weir height:		mm	No. of Pa	cked Beds	;		
Downcomer			_				
Side:		mm	Downcon				mm2
Central:		mm	Active Ar	ea:			mm2

REGENERATOR DETAILS:		NAME / NUMBER:	
Diameter:	mm	Bottom pressure:	bara
Rich amine		Overhead	bara
- Temperature:	°C	Overhead	°C
- Feed tray number:		Reflux flow rate:	m3/h
TRAYED REGENERATOR		PACKED REGENER	ATOR
Type of trays:		Type of packing:	
Number of trays:		Packing material: s	tainless steel
Tray spacing:	mm	Nominal size:	mm
Number of passes:		Packing Bed	mm
Weir height:	mm	No. of Packed	
Downcomer width			
Side:	mm	Downcomer Area:	mm2
Central:	mm	Active Area:	mm2
Off Center:	mm		
REBOILER DETAILS:		NAME / NUMBER:	
Number of reboilers:		Heat source:	
Total design duty:	kcal/h	Total actual duty:	kcal/h
RICH-LEAN CROSS HEAT	EXCHANGE	ER DETAILS: NAME / NUMBI	ER:
Total design duty:	kcal/h	Exchanger area:	m2
Rich amine:		Lean amine:	
Temperature in:	°C	Temperature in:	°C
Temperature out:	°C	Temperature out:	°C
LEAN AMINE COOLER DET	AILS:	NAME / NUMBER:	
Total design duty:	kcal/h	Exchanger area:	m2
ACID GAS COOLER DETAIL	LS:	NAME / NUMBER:	
Total design duty:	kcal/h	Exchanger area:	m2
Gas temperature in:	°C	Gas temperature out:	°C
FLASH DRUM DETAILS:		NAME / NUMBER:	
Operating pressure:	bara	Total volume:	m3
RICH AMINE MECHANICAL DETAILS:	FILTER	NAME / NUMBER:	
Type :		Nominal size of cartridges:	

CARBON BED: YES [☐ NO ☐ TER CARBON BED: YES	□ NO □	٦
Type: % of main circulation flow t GENERAL BACKGROUN	Nominal size o	_	
Current solvent used:		PA DGA	
Total solution inventory:	m3 Conce	entration:	Wt%
WHY YOU REASON(S) FO	OR CONSIDERING AN ALT	ERNATE SOLVEN	IT:
☐ Energy savings☐ Reduced CO₂ pick-upCurrent operating problems	☐ Increased capacity s:	Redu	ced corrosion
COMMENTS:			