

Sunflower Oil, Filtration, Water Degumming, Silica Adsorption & Lecithin Plant

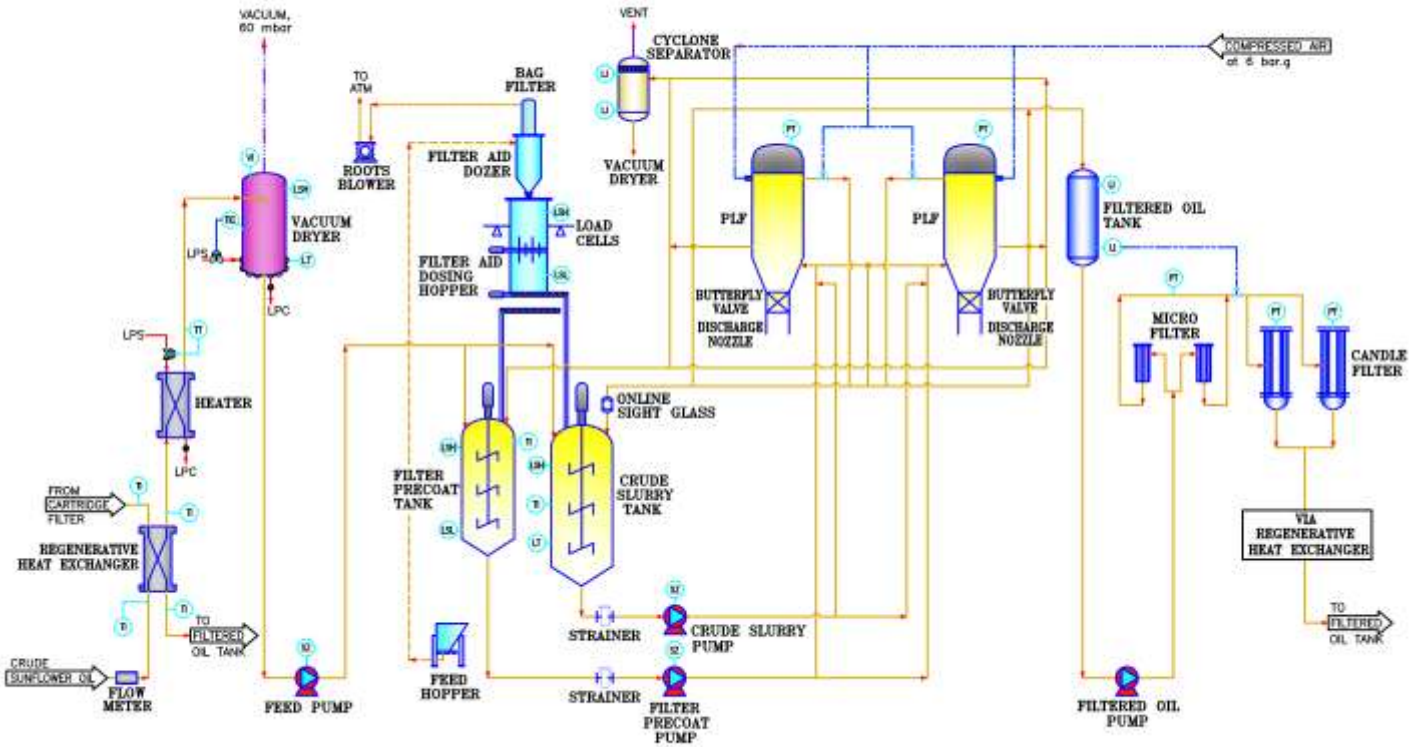


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CRUDE OIL FILTRATION

Process Flow Diagram



Performance for Crude Sunflower Oil Filtration Plant

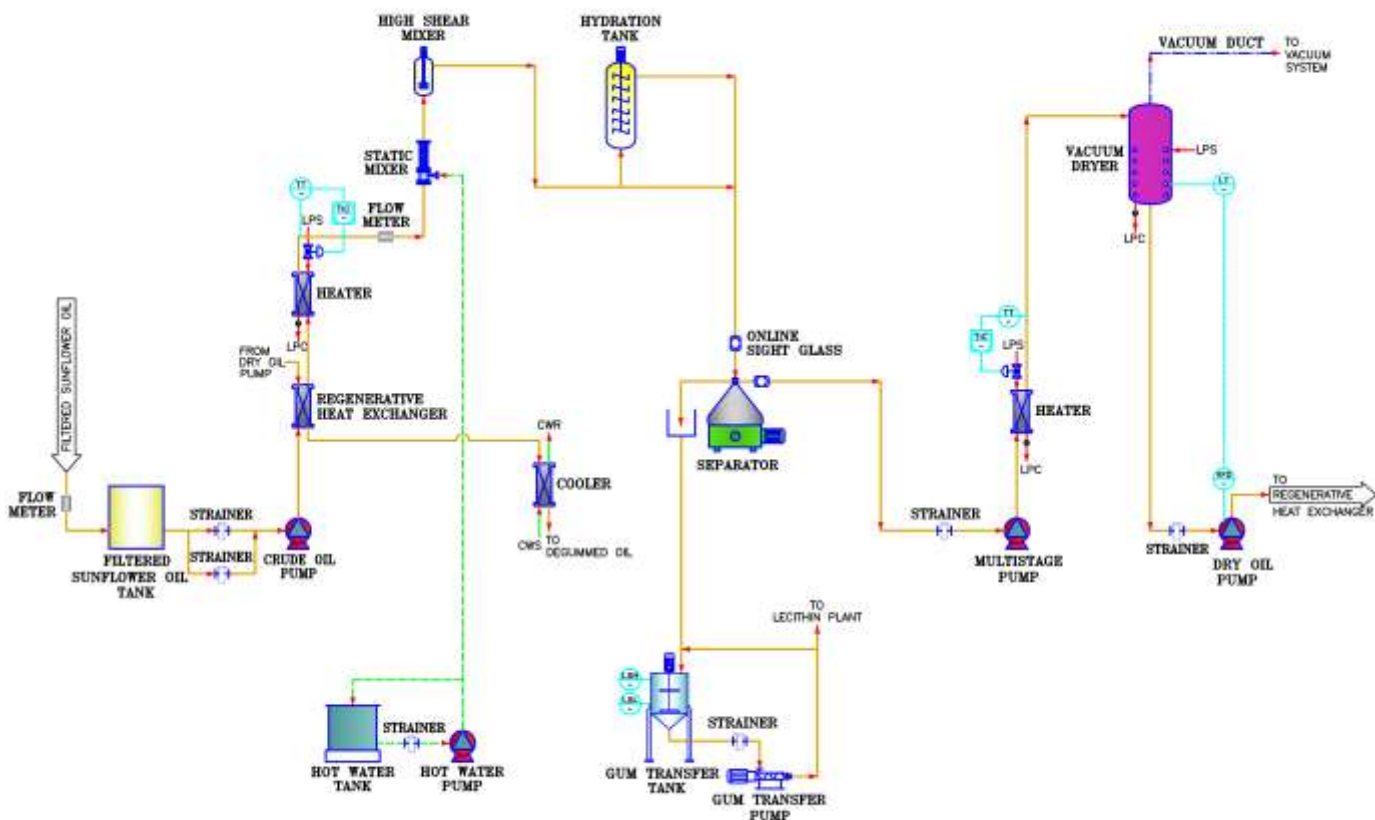
Sr. No.	Parameter	Specifications	
		Feed	Product
1.	Nature	CSFO*	Filtered SFO**
2.	MIV	0.20 %	< 0.10 %
3.	Acid value	3.0	3.0
4.	Non-Fat Impurities (% W/W)	< 0.20	< 0.001
5.	'P' Content, mg/kg	275	275
6.	Trace Metals	< 5 PPM	< 2 PPM
7.	USM	2 %	2 %

*CSFO: Crude Sunflower Oil

** SFO: Sunflower Oil

WATER DEGUMMING

Process Flow Diagram

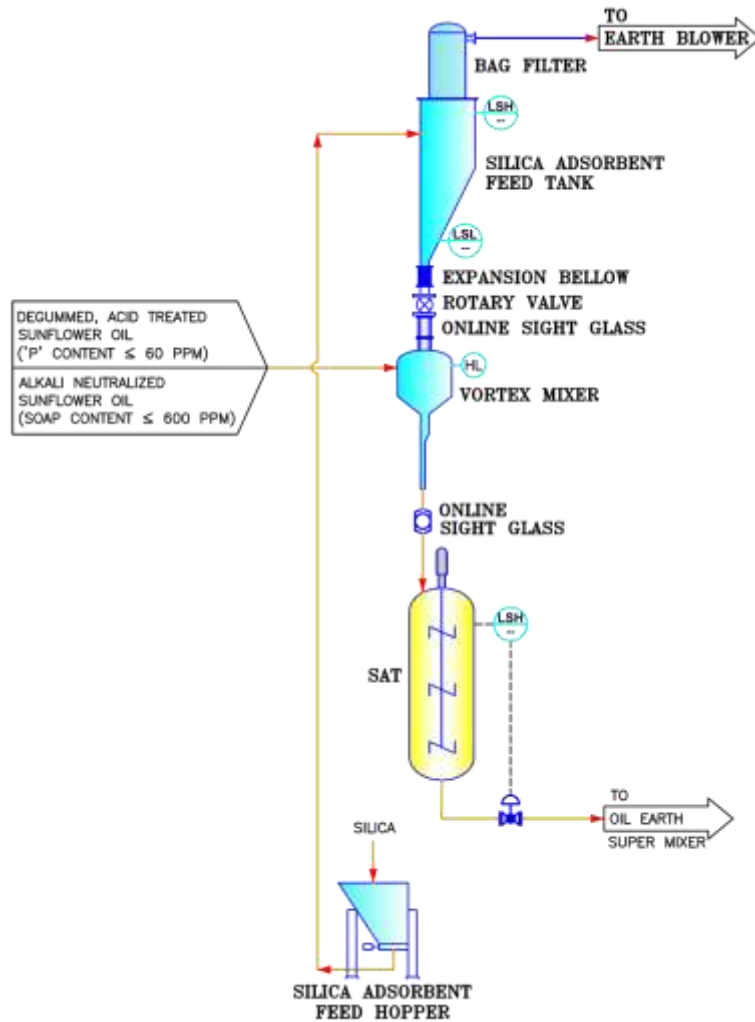


Performance for Water Degumming

Sr. No.	Parameters	Specifications	
		Feed	Product
1.	Nature	Filtered SFO	Degummed SFO
2.	Acid value	3.0	3.0
3.	Colour	24 units Max. in ¼ inch. Cell	< 24 units Max. in ¼ inch. Cell
4.	P-Content	275	< 60 PPM
5.	Trace Metals	< 2 PPM	< 1 PPM
6.	MIV	< 0.10 %	< 0.05 %
7.	Temperature	Min. 40°C	Max. 50°C
8.	USM	2 %	2 %

SILICA ADSORPTION

Process Flow Diagram

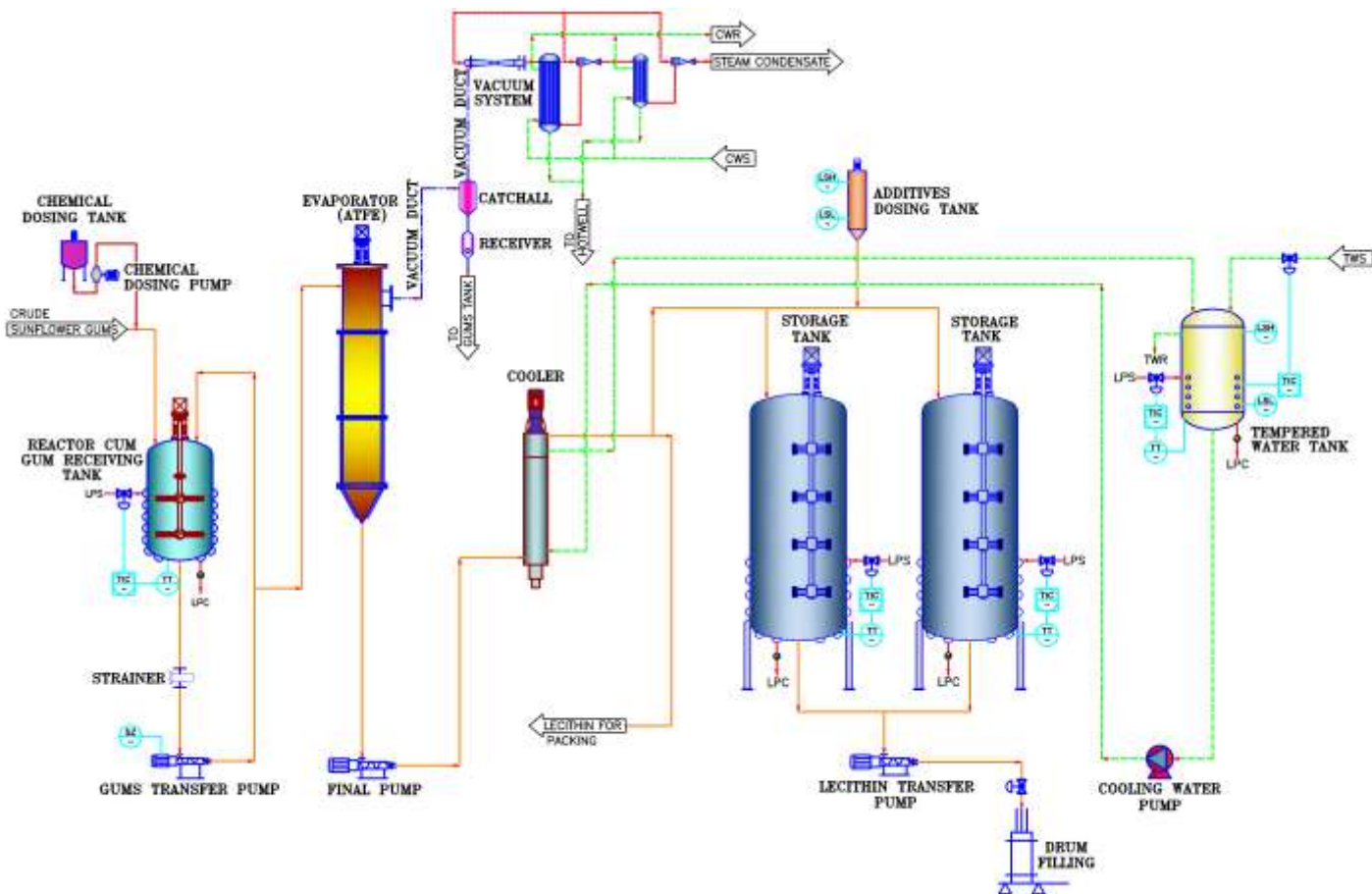


Performance for Silica Adsorption Plant

Sr. No.	Parameters	Specifications	
		Feed	Product
1.	Nature	Degummed, Acid Treated & Neutralized SFO	Silica Treated SFO
2.	Acid value	0.12	0.12
3.	'P' Content	< 60 PPM	< 10 PPM
4.	Soap Content,	< 600 PPM	< 25 PPM
5.	Trace Metals	< 2 PPM	< 1.0 PPM
6.	Moisture	< 0.05 %	< 0.07 %

LECITHIN PLANT

Process Flow Diagram



Performance & Guarantee for Liquid Sunflower Lecithin Plant

Sr. No.	Parameter	Specification	
		Feed Gums	Product Lecithin
1.	Gardener Colour w/w (10% in Toluene)	11-12	≤ 12
2.	Moisture, %	< 50	≤ 0.5
3.	Acid value	< 25	< 25
4.	HIS, %	< 0.20	< 0.20
5.	AIS, %	30	62
6.	PV, meq/kg	< 10	< 5
7.	Heavy metals, PPB	-	< 100
8.	Viscosity, Pa*s at 25°C	-	< 12
9.	Total Plate Count	-	< 2000 CFU/gm
10.	Enterobacteria	-	Absent
11.	E. Coli	-	Absent
12.	Yeast & mould	-	< 50 CFU/gm
13.	Salmonella	-	Absent

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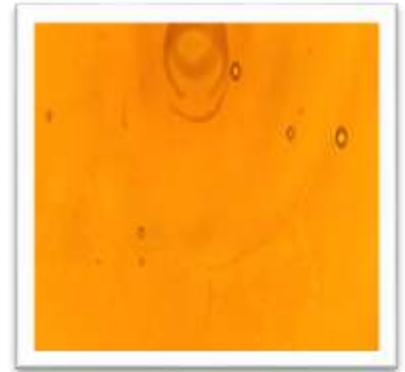
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**CRUDE
SUNFLOWER OIL**



**REFINE
SUNFLOWER OIL**



LECITHIN


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MUEZ-HEST INDIA PVT. LTD.

230/231 Blue Rose Industrial Estate, Western Express Highway,
Borivali East, Mumbai 400 066.

Visit Us: www.muezhest.com

 022-2854 1758

 info@muezhest.com

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