

Questionnaire for

Distilled Monoglyceride (DMG) Plants

requires current Acrobat Reader.
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Or send an e-mail to
info@sms-vt.com

Completing this questionnaire will help us to evaluate your application and to provide an offer that is tailored to your requirements.

Project description / project title / keyword:

.....

Company:

Contact person:

Department:

Address:

.....

Phone:

Email:

Performance / Product

Plant production capacity: t DMG / year

Operating hours: h / year

Required DMG quality

Concentration: ☐ $\geq 90 \%$ ☐ $\geq 95 \%$ ☐ \geq %

Acid value: Glycerine content:% Colour:

- All information submitted will be treated confidentially. –

Which process stages are required?

- | | | |
|--|--|-------------------------------------|
| <input type="checkbox"/> Interesterification | <input type="checkbox"/> Batch | <input type="checkbox"/> Continuous |
| <input type="checkbox"/> Short path distillation | <input type="checkbox"/> 2 stages | <input type="checkbox"/> 3 stages |
| <input type="checkbox"/> Spray cooling | <input type="checkbox"/> Fluidised bed cooling | <input type="checkbox"/> Packing |

Available fat / oil source

- | | | |
|--|--------------------------------------|--|
| <input type="checkbox"/> Palm oil | <input type="checkbox"/> Soybean oil | <input type="checkbox"/> Rape seed oil |
| <input type="checkbox"/> Sunflower oil | <input type="checkbox"/> Lard | <input type="checkbox"/> Tallow |
| <input type="checkbox"/> Others: | | |

Fat / oil quality

Iodine value	max.
Ni content (as metal)	max.
Density at 80 °C kg / dm ³
Viscosity at 80 °C mPas
Slip melting point °C
Free fatty acids %
Colour (Lovibond) red / Yellow

For DMG distillation systems without esterification

Monoglyceride content %
Di-glyceride content %
Tri-glyceride content %
Glycerine content %
Free fatty acid content %
Catalyst %

■ For DMG distillation systems without esterification

Which equipment and services should be included?

<p>Equipment</p> <p><input type="checkbox"/> Thin film and short path evaporators</p> <p><input type="checkbox"/> Heat exchangers</p> <p><input type="checkbox"/> Vessels, reactors</p> <p><input type="checkbox"/> Receivers</p> <p><input type="checkbox"/> Separators</p>	<p>Pumps</p> <p><input type="checkbox"/> Product pumps</p> <p><input type="checkbox"/> Utility pumps</p> <p><input type="checkbox"/> Vacuum pumps</p>
<p>Measuring and Control</p> <p><input type="checkbox"/> Measuring & control field instruments</p> <p><input type="checkbox"/> Control valves</p> <p><input type="checkbox"/> Local indicators</p> <p><input type="checkbox"/> Field switch boxes</p> <p><input type="checkbox"/> Control Panel with PLC</p> <p><input type="checkbox"/> Motor Control Center</p> <p><input type="checkbox"/> Process Visualisation</p>	<p>Piping</p> <p><input type="checkbox"/> Manual valves</p> <p><input type="checkbox"/> Actuated valves</p> <p><input type="checkbox"/> Piping / fittings</p> <p><input type="checkbox"/> Pipe supports</p>
<p>Erection</p> <p><input type="checkbox"/> Steel structure</p> <p><input type="checkbox"/> Equipment and pump installation</p> <p><input type="checkbox"/> Manufacturing and installation of piping</p> <p><input type="checkbox"/> Painting</p> <p><input type="checkbox"/> Wiring</p> <p><input type="checkbox"/> Insulation</p>	<p>Engineering / Services</p> <p><input type="checkbox"/> Basic engineering</p> <p><input type="checkbox"/> Detail engineering</p> <p><input type="checkbox"/> Erection supervision</p> <p><input type="checkbox"/> Commissioning, start-up</p> <p><input type="checkbox"/> Operator training</p> <p><input type="checkbox"/> Spare parts</p>
<p>Miscellaneous</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p>	

Available utilities

Avail. heating medium 1: Pressure: bar a Temperature: °C

Avail. heating medium 2: Pressure: bar a Temperature: °C

Avail. heating medium 3: Pressure: bar a Temperature: °C

Avail. heating medium 4: Pressure: bar a Temperature: °C

Cooling water Pressure: bar a Temperature: °C Quantity:m³/h

Cooling water / brine: Pressure: bar a Temperature: °C Quantity:m³/h

Nitrogen: Pressure bar a Quantity:m³/h

Instrument air: Pressure bar a Quantity:m³/h

Electricity

Frequency: Hz

Voltage:V

Explos. prot.:

Material requirements

Product / vacuum: ☐ Stainless steel ☐ Carbon steel

Thermal oil: ☐ Stainless steel ☐ Carbon steel

Steam / condensate: ☐ Stainless steel ☐ Carbon steel

Cooling water: ☐ Stainless steel ☐ Carbon steel

Chilled water / brine: ☐ Stainless steel ☐ Carbon steel

General information

Codes and standards for design and fabrication

☐ AD 2000 ☐ ASME ☐ Others

Which space is available for the plant?

.....

Plant installation ☐ Indoors ☐ Outdoors

Environmental data

		Maximum	Minimum
Av. year temperature	[°C]		
Relative humidity	%-rel		
Barometric pressure	[hPa]		
Dew point	[°C]		
Evaporation monthly	[mm]		
Wind load max.	[m/s]		
max. rainfall	[mm]		
Solar radiation	[MJ/m ²]		
Av. rainfall per year	[mm]		

Date:

Signature: