

QUESTIONNAIRE

New built / retrofit of a tank truck loading facility for mineral oil, chemical- and petrochemical products



1 Customer

1.1	Company name	
1.2	Address	
1.3	Contact person (Position, Name)	
1.4	Phone	
1.5	Fax	
1.6	E-Mail	
1.7	Address (if not equal to 1.2)	
1.8	Date	

QUESTIONNAIRE

2. Type of project

2.1	New construction, if yes: what type of loading facility? *	Bottom Loading <input type="checkbox"/>	Top Loading <input type="checkbox"/>
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2.2	If retrofit, what type of facility exists? *	Bottom Loading <input type="checkbox"/>	Top Loading <input type="checkbox"/>
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* Dipl.-Ing. SCHERZER GmbH will recommend a type of facility after analysis of all information

3. What products shall be loaded?

Product description*	Technical data			
	Loading temperature (in °C)	Stock temperature (in °C)	Density (in kg/m ³)	Viscosity (in cSt)

* If possible, please attach material safety data sheets (MSDS)!

4. Lanes

4.1	On how many lanes will product be loaded:	
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If possible, please attach layout plan drawing or mail to: info@scherzer.net and fill out the following details under 4.2!

If possible, please send Google Earth-orientation:(kmz) by email

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QUESTIONNAIRE

6. Loading conditions:

6.1	Operating period
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6.1.1	8 hours/day	
6.1.2	16 hours/day	
6.1.3	24 hours/day	
6.1.4	Other operating periods	
6.1.5	Working days / year	

6.2	Climatic conditions
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6.2.1	Temperature max, in °C or deg F	
6.2.2	Temperature min, in °C or deg F	
6.2.3	Layout temperature for planned equipment mechanic in °C or deg F	
6.2.4	Layout temperature for planned equipment EMSR in °C or deg F	
6.2.5	Layout pressure, in bar (psi)	
6.2.6	Geodetic height (NN)	
6.2.7	Maximal freeze depth in m (ft)	
6.2.8	Ground water level in m (ft)	
6.2.5	Precipitation, average in 24 hours, in mm (inches)/day	

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7. Configuration of facility, VRU and others

7.1 Vapor routing system and vapor recovery unit (VRU)

7.1.1	The erection of a vapor routing system and vapor recovery unit (VRU) exists or is needed	existing <input type="checkbox"/>	needed <input type="checkbox"/>
7.1.2	Erection of a vapor storage tank	existing <input type="checkbox"/>	needed <input type="checkbox"/>
7.1.3	Floating roof tanks	existing <input type="checkbox"/>	needed <input type="checkbox"/>
7.1.4	Fixed roof tanks	existing <input type="checkbox"/>	needed <input type="checkbox"/>
7.1.5	Max. permitted overpressure in the tanks, in mbar		
7.1.6	Permitted hydrocarbon and benzol content in the rest emissions in the atmosphere shall not exceed mg/m ³ .	hydrocarbon	benzol
		<input type="checkbox"/>	<input type="checkbox"/>

7.2	Is heating of products necessary?	Ja <input type="checkbox"/>	Nein <input type="checkbox"/>	
7.2.1	Type of heating:	with water <input type="checkbox"/>	with electricity <input type="checkbox"/>	others <input type="checkbox"/>
7.2.1.1	Temperature and pressure in case of heating with steam	Temperature in C°		Pressure in bar

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7.3	Loading performance	
Product description	Daily rate, tons/day	Annual rate, tons/year

7.4	An indication of unloaded products shall be recorded?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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7.4.1	If yes, by:
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7.4.1.1	Dynamic weighing scale	Yes <input type="checkbox"/>	No <input type="checkbox"/>
7.4.1.2	Volume meter	Yes <input type="checkbox"/>	No <input type="checkbox"/>
7.4.1.2.1	Shall temperature compensation be used?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	 (°F or °C)	
7.4.1.3	Mass metering	Yes <input type="checkbox"/>	No <input type="checkbox"/>

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7.5	Power supply		
	Electrical data	existing	planned
7.5.1.	690/660 V		
7.5.2	400/380 V		
7.5.3	460 V-480V		
7.5.4	230 V		
7.5.5	208 V		
7.5.6V		
7.5.7	110 V		
7.5.8	Frequency range 50 Hz		
7.5.9	Frequency range 60 Hz		
7.5.10	Parallel flow 48 V		
7.5.11	Parallel flow 24 V		
7.5.12	Parallel flow		

QUESTIONNAIRE

8	A pumping station shall be delivered?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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Technical data of existing and new pumps:

Product- description	existing pumps			new pumps		
	Pump- capacity, in m ³ /h	Static head, water column in m	Capacity, in kW or HP	Pump- capacity, in m ³ /h	Static head, water column in m	Capacity, in kW or HP

9 Project time line

9.1	Dead line for offer submission	
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9.2	Planned contract award date	
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9.3	Anticipated start-up date	
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QUESTIONNAIRE

10. Scope of delivery and performance:

	Technical equipment and services according technical tasks	Dipl.-Ing. SCHERZER GmbH	Customer
10.1	Loading unit	<input type="checkbox"/>	<input type="checkbox"/>
	Additiv system	<input type="checkbox"/>	<input type="checkbox"/>
	Card reading system	<input type="checkbox"/>	<input type="checkbox"/>
	Intercom	<input type="checkbox"/>	<input type="checkbox"/>
	Video control system	<input type="checkbox"/>	<input type="checkbox"/>
	Intersection lights / barrier	<input type="checkbox"/>	<input type="checkbox"/>
10.2	Steel construction	<input type="checkbox"/>	<input type="checkbox"/>
10.3	Pumps	<input type="checkbox"/>	<input type="checkbox"/>
10.4	Cables and installation material	<input type="checkbox"/>	<input type="checkbox"/>
10.5	Piping material	<input type="checkbox"/>	<input type="checkbox"/>
10.6	Supervision	<input type="checkbox"/>	<input type="checkbox"/>
10.7	Commissioning	<input type="checkbox"/>	<input type="checkbox"/>
10.8	Training of operating staff	<input type="checkbox"/>	<input type="checkbox"/>
10.9	Basic project	<input type="checkbox"/>	<input type="checkbox"/>
10.10	Detail project	<input type="checkbox"/>	<input type="checkbox"/>
10.11	Other deliveries and performances needed	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
10.12	Turnkey construction	Yes <input type="checkbox"/>	No <input type="checkbox"/>

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11. Scope of delivery / Engineering: complete detail design of:

Building construction:

- | | | | | |
|-----------------------------------|-----|--------------------------|----|--------------------------|
| • Foundations | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Island and lanes | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Pump station | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Control room / electrical room | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • VRU – foundations and slop area | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |

Steel construction:

- | | | | | |
|------------------------------------|-----|--------------------------|----|--------------------------|
| • Roofing filling stations | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Working platform filling station | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Pipe bridges | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Technologic steel construction | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Roofing pump station | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Roofing VRU | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |

Piping:

- | | | | | |
|--------------------|-----|--------------------------|----|--------------------------|
| • Filling station | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Pump stand | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • VRU | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Connecting pipes | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |

Electric:

- | | | | | |
|--------------------------------------|-----|--------------------------|----|--------------------------|
| • Control room / electrical room | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Filling station | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Pump stand | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • VRU | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Field lighting | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • USV (uninterruptible power supply) | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |

Control system / Measurement system:

- | | | | | |
|-------------------------------|-----|--------------------------|----|--------------------------|
| • Control room | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Filling stations | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Pump stand | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • VRU | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Visualization system | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |
| • Connection to host computer | yes | <input type="checkbox"/> | no | <input type="checkbox"/> |

QUESTIONNAIRE

12. Short description of planned unloading unit or other comments:

Thank you for filling out this questionnaire. If there are any questions, do not hesitate to contact us by Email or Phone over our representative or by direct Email: info@scherzer.net

Your information will help us to consider your specific needs in our design recommendations and subsequent system quotation.

We will treat your specific information and data as highly confidential, and we will analyze your inputs in a short time to prepare an offer according to your requirements.

Further, we recommend visiting one of the loading facilities designed by Dipl.-Ing. SCHERZER GmbH. We are pleased to provide information on the location of the closest facility to your office. We are also pleased to escort you on a detailed site visit to see firsthand the Scherzer system. For additional information, please also visit our Website at www.scherzer.net to search among various countries and a portfolio of Scherzer designed loading facilities.