LAR Process Analysers – Application Form

Company	_____		
Address	_____		
Analyzer Location	_____		
Name	_____	Phone	_____
eMail	_____	Mobile	_____

Project

Plant/ Method/ Process	_____
	_____
	_____

TAG Number

Number(s)	_____

Analytical Task

Industry			
	☐ Chemicals & Manufacturing / Industrial Additives	☐ Petrochemical and O&G	☐ Life Sciences (Pharma / Bioscience / Medical)
	☐ Alternative Energy (Solar, Wind, Hydro, H2, etc.)	☐ Industrial Gas / Compressed Gas	☐ Industrial: Metals, Cement, Pulp / Lumber
	☐ Industrial: Other	☐ Agriculture, Food and Beverage	☐ Semiconductor, Electronics, and LED
	☐ Environmental, Glove Box, Emissions & Monitoring	☐ Research, Laboratories and Standards	☐ Aerospace & Military
	☐ Automotive, Transportation	☐ Intercompany	

Application			
	☐ Municipal Inlet WWTP	☐ Industrial/ Process Water Inlet WWTP	☐ WWTP Effluent
	☐ Refinery Wastewater/ Oil-in-Water	☐ Anaerobic Wastewater	☐ Process Water
	☐ Dairy Industry - Effluent/ Discharge	☐ Soft Drink or Beverage Industry	☐ De-icing Water (Airport)
	☐ Surface Water/ Rain Water	☐ Drinking Water/ Ground Water	☐ Cooling Water
	☐ Condensate or Boiler Feed Water	☐ Semiconductor or Pharma Water	
Description of Application Please add relevant information about the application.	_____		
	_____		
	_____		
Current situation	☐ No Measurement	☐ Lab measurement	☐ Online measurement
Sample Stream(s)	☐ 1	☐ 2	☐ 3
	☐ 4	☐ 5	☐ 6
Parameter	☐ BOD – Biochemical Oxygen Demand	☐ COD – Chemical Oxygen Demand (O_2-measurement)	☐ COD – Chemical Oxygen Demand (correlation)
	☐ TOC – Total Organic Carbon	☐ TC – Total Carbon	☐ TIC – Total Inorganic Carbon
	☐ Other Organic Parameter as NPOC or DOC	☐ Toxicity	☐ TN_b – Total Nitrogen bound
	☐ Others _____		

Location

Environmental Conditions	☐ Standard (non-aggressive environment)	☐ Aggressive environment	☐ H_2S atmosphere
	☐ ATEX Zone 2	☐ ATEX Zone 1 or IECEx	
	☐ Sea water atmosphere	☐ Others: _____	
Mounting	☐ Wall	☐ Mounting Rack	
Location (dry, frost-free, no direct sunlight, humidity range 20-80% rel.Hum.)	☐ Indoor (factory building)	☐ Indoor (air-conditioned)	☐ Outdoor (shelter , container with air conditioning))
	☐ Others: _____		
	Min:	**Max:**	**Regular:**
Ambient Temperature Range [ideal 20-28 °C]			

Utilities Available

Power Supply	☐ 115VAC +/- 5% 50/60Hz	☐ 230VAC +/- 5% 50/60Hz
Air Supply	☐ Not available	☐ CO_2-free, oil-free instrument air min. 2 bar
	☐ Central compressed air (oil free, dew point 0..5°C)	☐ Central compressed air (oil free, dew point lower than 0°C, 4-12 bar)
	☐ No compressed air, no carrier gas available	☐ Nitrogen for COD_o, quality 5.0, >99.999 %
	☐ Others: _____	

Stream 1: Sample Stream Conditions

Substances	Min:	Max:	Alarm-Point:	Normal:	
TOC	_____	_____	_____	_____	ppm or mg/l
COD	_____	_____	_____	_____	ppm or mg/l
TN_b	_____	_____	_____	_____	ppm or mg/l
Requested cycle time		_____			min
POC	_____	_____		_____	ppm or mg/l
TIC sum of carbon acid H2CO3, bicarbonate HCO_3^-, carbonate CO_3^{2-}	_____	_____		_____	ppm or mg/l
Sample Temperature	_____	_____		_____	°C
TDS / Salts	_____	_____		_____	ppm or mg/l
Chloride	_____	_____		_____	ppm or mg/l
Sulphate	_____	_____		_____	ppm or mg/l
Nitrate	_____	_____		_____	ppm or mg/l
Conductivity	_____	_____		_____	µS/cm
Process Stream Flow for Analyzer	_____	_____		_____	l/h
pH	_____	_____		_____	pH
Solids & Particles	☐ without particles -- filtered sample- up to maximum like black coffee		☐ particles lower than 0,45µ - like DOC-measurement		
	☐ particles - like activated sludge / orange juice / soft particles		☐ solid particles - like sand, Stones, matchstick		
It is Foaming Water?	☐ Yes		☐ No		
H_2S in Water	☐ Yes		☐ No		

Stream 2: Sample Stream Conditions

Substances	Min:	Max:	Alarm-Point:	Normal:	
TOC	_____	_____	_____	_____	ppm or mg/l
COD	_____	_____	_____	_____	ppm or mg/l
TN_b	_____	_____	_____	_____	ppm or mg/l
Requested cycle time		_____			min
POC	_____	_____		_____	ppm or mg/l
TIC sum of carbon acid H2CO3, bicarbonate HCO_3^-, carbonate CO_3^{2-}	_____	_____		_____	ppm or mg/l
Sample Temperature	_____	_____		_____	°C
TDS / Salts	_____	_____		_____	ppm or mg/l
Chloride	_____	_____		_____	ppm or mg/l
Sulphate	_____	_____		_____	ppm or mg/l
Nitrate	_____	_____		_____	ppm or mg/l
Conductivity	_____	_____		_____	µS/cm
Process Stream Flow for Analyzer	_____	_____		_____	l/h
pH	_____	_____		_____	pH
Solids & Particles	☐ without particles -- filtered sample- up to maximum like black coffee		☐ particles lower than 0,45µ - like DOC-measurement		
	☐ particles - like activated sludge / orange juice / soft particles		☐ solid particles - like sand, Stones, matchstick		
It is Foaming Water?	☐ Yes		☐ No		
H_2S in Water	☐ Yes		☐ No		

Stream 3: Sample Stream Conditions

Substances	Min:	Max:	Alarm-Point:	Normal:	
TOC	_____	_____	_____	_____	ppm or mg/l
COD	_____	_____	_____	_____	ppm or mg/l
TN_b	_____	_____	_____	_____	ppm or mg/l
Requested cycle time		_____			min
POC	_____	_____		_____	ppm or mg/l
TIC sum of carbon acid H2CO3, bicarbonate HCO_3^-, carbonate CO_3^{2-}	_____	_____		_____	ppm or mg/l
Sample Temperature	_____	_____		_____	°C
TDS / Salts	_____	_____		_____	ppm or mg/l
Chloride	_____	_____		_____	ppm or mg/l
Sulphate	_____	_____		_____	ppm or mg/l
Nitrate	_____	_____		_____	ppm or mg/l
Conductivity	_____	_____		_____	µS/cm
Process Stream Flow for Analyzer	_____	_____		_____	l/h
pH	_____	_____		_____	pH
Solids & Particles	☐ without particles -- filtered sample- up to maximum like black coffee		☐ particles lower than 0,45µ - like DOC-measurement		
	☐ particles - like activated sludge / orange juice / soft particles		☐ solid particles - like sand, Stones, matchstick		
It is Foaming Water?	☐ Yes		☐ No		
H_2S in Water	☐ Yes		☐ No		

Stream 4: Sample Stream Conditions

Substances	Min:	Max:	Alarm-Point:	Normal:	
TOC	_____	_____	_____	_____	ppm or mg/l
COD	_____	_____	_____	_____	ppm or mg/l
TN_b	_____	_____	_____	_____	ppm or mg/l
Requested cycle time		_____			min
POC	_____	_____		_____	ppm or mg/l
TIC sum of carbon acid H2CO3, bicarbonate HCO_3^-, carbonate CO_3^{2-}	_____	_____		_____	ppm or mg/l
Sample Temperature	_____	_____		_____	°C
TDS / Salts	_____	_____		_____	ppm or mg/l
Chloride	_____	_____		_____	ppm or mg/l
Sulphate	_____	_____		_____	ppm or mg/l
Nitrate	_____	_____		_____	ppm or mg/l
Conductivity	_____	_____		_____	µS/cm
Process Stream Flow for Analyzer	_____	_____		_____	l/h
pH	_____	_____		_____	pH
Solids & Particles	☐ without particles -- filtered sample- up to maximum like black coffee		☐ particles lower than 0,45µ - like DOC-measurement		
	☐ particles - like activated sludge / orange juice / soft particles		☐ solid particles - like sand, Stones, matchstick		
It is Foaming Water?	☐ Yes		☐ No		
H_2S in Water	☐ Yes		☐ No		

Stream 5: Sample Stream Conditions

Substances	Min:	Max:	Alarm-Point:	Normal:	
TOC	_____	_____	_____	_____	ppm or mg/l
COD	_____	_____	_____	_____	ppm or mg/l
TN_b	_____	_____	_____	_____	ppm or mg/l
Requested cycle time		_____			min
POC	_____	_____		_____	ppm or mg/l
TIC sum of carbon acid H2CO3, bicarbonate HCO_3^-, carbonate CO_3^{2-}	_____	_____		_____	ppm or mg/l
Sample Temperature	_____	_____		_____	°C
TDS / Salts	_____	_____		_____	ppm or mg/l
Chloride	_____	_____		_____	ppm or mg/l
Sulphate	_____	_____		_____	ppm or mg/l
Nitrate	_____	_____		_____	ppm or mg/l
Conductivity	_____	_____		_____	µS/cm
Process Stream Flow for Analyzer	_____	_____		_____	l/h
pH	_____	_____		_____	pH
Solids & Particles	☐ without particles -- filtered sample- up to maximum like black coffee		☐ particles lower than 0,45µ - like DOC-measurement		
	☐ particles - like activated sludge / orange juice / soft particles		☐ solid particles - like sand, Stones, matchstick		
It is Foaming Water?	☐ Yes		☐ No		
H_2S in Water	☐ Yes		☐ No		

Stream 6: Sample Stream Conditions

Substances	Min:	Max:	Alarm-Point:	Normal:	
TOC	_____	_____	_____	_____	ppm or mg/l
COD	_____	_____	_____	_____	ppm or mg/l
TN_b	_____	_____	_____	_____	ppm or mg/l
Requested cycle time		_____			min
POC	_____	_____		_____	ppm or mg/l
TIC sum of carbon acid H2CO3, bicarbonate HCO_3^-, carbonate CO_3^{2-}	_____	_____		_____	ppm or mg/l
Sample Temperature	_____	_____		_____	°C
TDS / Salts	_____	_____		_____	ppm or mg/l
Chloride	_____	_____		_____	ppm or mg/l
Sulphate	_____	_____		_____	ppm or mg/l
Nitrate	_____	_____		_____	ppm or mg/l
Conductivity	_____	_____		_____	µS/cm
Process Stream Flow for Analyzer	_____	_____		_____	l/h
pH	_____	_____		_____	pH
Solids & Particles	☐ without particles -- filtered sample- up to maximum like black coffee		☐ particles lower than 0,45µ - like DOC-measurement		
	☐ particles - like activated sludge / orange juice / soft particles		☐ solid particles - like sand, Stones, matchstick		
It is Foaming Water?	☐ Yes		☐ No		
H_2S in Water	☐ Yes		☐ No		