Products

Test Report No.:



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Client:			( <b>LIAONING</b> ) tile Building			, <b>LTD.</b> Imin Road, [	Dalian, Liao	ning, P.R.Cł	nina
	Conta	act Pers	on: Wang \	ruanfan	g				
Buyer's Name Factory Details Factory Name Factory Address (with geographical coordin On-site ETP Discharge Type of Wastew Destination of Wastewate For Indirect discharge Name of public wastewate treatment plants (CETP) Address of public wastewate treatment plants (CETP)	water r	: Y							
Sampling Details Sampling Date Sample Receiving Date Testing Period Sampling Method:		: 202	22-11-18 22-11-21 22-11-21 to 20	022-12-0	95				
Sample Type	Total V	olume	1	2		3	4	5	6
Discharged Wastewater	1L	_	9:30	10:3	0	11:30	12:30	13:30	14:30
Raw Wastewater	15	L	9:00	10:0	0	11:00	12:00	13:00	14:00
Incoming Water	4L	-	11:10	-		-	-	-	-
Sludge	1 Bo	ttle	11:15	-		-	-	-	-
Overall Rating		Disch	arged Waste	water		Raw Waste	water	Slue	dge
Conventional Parameters / Anion / Metals		Fulfill Aspirational Limit		Not Tested		Not Comply			
MRSL Parameters		Not Tested			Comply		Con	nply	
Legal Compliance		Comply Not Tested Not Tested							
Specifications						ersion 2.0 (Ju uirement Liste		DIX A)	

For and on behalf of TÜV Rheinland (Shanghai) Co., Ltd.

244461349a 001

2022-12-06

Carmen Yan / Department Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a.m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.



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## Result Summary:

Conventional Parameters	Incoming Water	Discharged Wastewater	Raw Wastewater	Sludge
pH value	-	-	-	Comply
Anion - Cyanide	-	-	-	Comply
Heavy Metals	-	Aspirational	-	Not Comply
Leachate Heavy Metals	-	-	-	Not Comply
%Solid	-	-	-	Report Only
Paint Filter Test	-	-	-	Not Comply
Fecal Coliform	-	-	-	Report Only
Manufacturing Restricted Substances List (MRSL)	Incoming Water	Discharged Wastewater	Raw Wastewater	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	-	-	Comply	Comply
Anti-Microbials & Biocides	-	-	Comply	-
Chlorinated Paraffins	-	-	Comply	-
Chlorobenzenes and Chlorotoluenes	-	-	Comply	Comply
Chlorophenols	-	-	Comply	-
Dyes – Carcinogenic or Equivalent Concern	-	-	Comply	-
Dyes – Disperse (Sensitizing)	-	-	Comply	-
Dyes – Navy Blue Colorant	-	-	Comply	-
Flame Retardants	-	-	Comply	-
Glycols/ Glycol Ethers	-	-	Comply	-
Halogenated Solvents	-	-	Comply	-
Organotin Compounds	-	-	Comply	-
Other / Miscellaneous Chemicals	-	-	Comply	-
Perfluorinated and Polyfluorinated Chemicals (PFCs)	-	-	Comply	-
Phthalates - Including all other esters of phthalic acid	-	-	Comply	-
Polycyclic Aromatic Hydrocarbons (PAHs)	-	-	Comply	Comply
Restricted Aromatic Amines(Cleavable from Azo)	-	-	Comply	-
UV Absorbers	-	-	Comply	-
Volatile Organic Compounds (VOC)	-	-	Comply	-

Note: Aspirational = Fulfill Aspirational Limit Foundational = Fulfill Foundational Limit Comply = Comply with ZDHC Limit - = Not Tested Progressive = Fulfill Progressive Limit Exceed = Exceed Foundational Limit Not Comply = Not Comply with ZDHC Limit



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#### Material List:

Field ID	Sample Type	Sample Description
D001	Discharge	Discharge Wastewater (Indirect Discharge)*
R001	Raw	Raw Wastewater*
S001	Sludge	Sludge (Type D)*

#### Notes:

* Discharge Wastewater:	Wastewater that is released from a supplier, either directly to the environment (including but not limited to: water bodies, land application/irrigation), or to a wastewater treatment system beyond the supplier's property boundaries.
* Direct Discharge:	A point source that discharges wastewater to stream, lakes, oceans, or other receiving bodies. Distribution of wastewater onto land is also considered a type of direct discharge. Municipal bodies and suppliers that introduce pollution through a defined conveyance or system such as outlet pipes are direct dischargers.
* Indirect Discharge:	The discharge of wastewater through a sanitary or industrial wastewater sewer system to a central or common effluent treatment plant (CETP) not owned and/ or operated by the supplier discharging the pollutants.
* Raw Wastewater:	Wastewater that has not yet been treated prior to direct or indirect discharge, or
(Untreated Wastewater)	recycling efforts. This wastewater therefore does not meet the quality standards for beneficial use.
* Incoming Water:	Water that is supplied to a manufacturing process, usually withdrawn from surface water bodies, groundwater, collected from rainfall, supplied by municipalities, etc.
* Sludge:	The solid or semi-solid material separated during the wastewater treatment process, including septic and Zero Liquid Discharge (ZLD) systems.
Туре А:	Offsite Incineration at > 1000°C.
Туре В:	Landfill with Significant Control Measures.
Туре С:	Building Products Processed at > 1000°C.
Туре D:	Landfill with Limited Control Measures.
Туре Е:	Offsite Incineration and Building Products Processed at < 1000°C.
Type F:	Landfill with No Control Measures.
Туре G:	Land Application.



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#### Test Results:

#### 1. pH Value

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
pH Value	PH	HJ 962	NONE	NA	7.72
Conclusion					Comply

Abbreviation: NA = Not Applicable

#### Remark:

Description	ZDHC Wastewater Limit				
Parameter	Foundational	Progressive	Aspirational		
pH Value	6-9				

Parameter	ZDHC Sludge Limit						
Sludge Type	А	В	С	D	E	F	G
pH Value	Report Only	Report Only	5-11	5-11	5-11	6.5-9	6.5-9



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#### 2. Anion - Cyanide

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Anion - Cyanide	57-12-5	HJ 745	mg/kg	10	< RL
Conclusion		Comply			

< = less than

RL = reporting limit mg/L = milligram per liter mg/kg = milligram per kilogram

#### Remark:

Parameter	ZDHO	ZDHC Limit (mg/kg)		
	Foundational	Progressive	Aspirational	Sludge
Anion - Cyanide	0.2	0.1	0.05	20



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### 3. Heavy Metals

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Arsenic (As)	Arsenic	US EPA 6020a	mg/L	0.001	< RL
Cadmium (Cd)	Cadmium	US EPA 6020a	mg/L	0.001	< RL
Chromium (Cr VI)	Chromium VI	GB 7467	mg/L	0.001	< RL
Lead (Pb)	Lead	US EPA 6020a	mg/L	0.001	< RL
Mercury (Hg)	Mercury	US EPA 6020a	mg/L	0.001	< RL
Conclusion		Fulfill Aspirational Limit			

				Sample No.	S001	
Parameter	Parameter Code	Test Method	Unit	RL	Result	
Antimony (Sb)	Antimony	HJ 803	mg/kg	1	5.8	
Chromium (Cr, total)	Chromium Total	HJ 803	mg/kg	1	261.9	
Cobalt (Co)	Cobalt	US EPA 7196	mg/kg	1	6.8	
Copper (Cu)	Copper	HJ 803	mg/kg	1	145.4	
Nickel (Ni)	Nickel	HJ 803	mg/kg	1	75.6	
Silver (Ag)	Silver	US EPA 6020b	mg/kg	1	3.8	
Zinc (Zn)	Zinc	HJ 803	mg/kg	1	505.9	
Arsenic (As)	Arsenic	HJ 803	mg/kg	1	16.5	
Cadmium (Cd)	Cadmium	HJ 803	mg/kg	1	< RL	
Chromium (Cr VI)	Chromium VI	US EPA 7196	mg/kg	1	< RL	
Lead (Pb)	Lead	HJ 803	mg/kg	1	27.7	
Mercury (Hg)	Mercury	US EPA 6020b	mg/kg	0.1	13.1	
Barium (Ba)	Barium	US EPA 6020b	mg/kg	1	580.6	
Selenium (Se)	Selenium	US EPA 6020b	mg/kg	1	2.9	
Conclusion	Conclusion					

Abbreviation:

< = less than

RL = reporting limit

mg/L = milligram per liter

mg/kg = milligram per kilogram



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#### Remark:

The limits according to ZDHC limit (Table 2 & 4A & 4B of ZDHC Wastewater Guidelines Version 2.0 issued in July 2022):

Parameter	ZDHC Lim	it for Wastewa	ter (mg/L)	ZDHC Limit (mg/	•
i arameter	Foundational	Progressive	Aspirational	Disposal pathway A-F	Disposal pathway G
Antimony (Sb)	0.1	0.05	0.01	5	Sample and report only
Chromium (Cr, total)	0.2	0.1	0.05	50	3000
Cobalt (Co)	0.05	0.02	0.01	400	Sample and report only
Copper (Cu)	1	0.5	0.25	50	4300
Nickel (Ni)	0.2	0.1	0.05	20	420
Silver (Ag)	0.1	0.05	0.005	50	Sample and report only
Zinc (Zn)	5.0	1.0	0.5	400	7500
Arsenic (As)	0.05	0.01	0.005	5	75
Cadmium (Cd)	0.1	0.05	0.01	1	85
Chromium (Cr VI)	0.05	0.005	0.001	20	50
Lead (Pb)	0.1	0.05	0.01	5	840
Mercury (Hg)	0.01	0.005	0.001	1	57
Barium (Ba)	San	nple and report of	200	Sample and report only	
Selenium (Se)	San	nple and report of	only	5	100
Tin (Sn)	San	nple and report of	only	NA	NA

\* For polyester wet processing facilities Foundational, Progressive and Aspirational limits do not yet apply (unless required by law or voluntarily adopted).



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## 4. Leachate Heavy Metals

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Arsenic (As)	Arsenic	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	< RL
Cadmium (Cd)	Cadmium	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.15	< RL
Chromium (Cr, total)	Chromium Total	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	< RL
Lead (Pb)	Lead	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	< RL
Antimony (Sb)	Antimony	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	< RL
Barium (Ba)	Barium	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	10	72.3
Cobalt (Co)	Cobalt	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	10	< RL
Copper (Cu)	Copper	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	< RL
Nickel (Ni)	Nickel	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	2.4
Selenium (Se)	Selenium	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	< RL
Silver (Ag)	Silver	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	< RL
Zinc (Zn)	Zinc	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	10	108.2
Chromium (Cr VI)	Chromium VI	US EPA 1311, US EPA 7196	mg/L	2	< RL
Mercury (Hg)	Mercury	US EPA 1311, US EPA 3051A, US EPA 6020B	mg/L	0.05	< RL
Conclusion					Not Comply

Abbreviation:

< = less than RL = reporting limit

mg/L = milligram per liter



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#### Remark:

Parameter	ZDHC Sludge Limit (mg/L)							
Sludge Type	A B		С	D	E	F	G	
Arsenic (As)			5	2.75	0.5	0.5	0.5	
Cadmium (Cd)			1	0.58	0.15	0.15	0.15	
Chromium (Cr, total)			15	10	5	5	5	
Lead (Pb)			5	2.75	0.5	0.5	0.5	
Antimony (Sb)				7.8	0.6	0.6	0.6	
Barium (Ba)				67.5	35	35	35	
Cobalt (Co)		Only if	80	80	80	80	80	
Copper (Cu)	Require	d to Test	25	17.5	10	10	10	
Nickel (Ni)			20	11.75	3.5	3.5	3.5	
Selenium (Se)			1	0.75	0.5	0.5	0.5	
Silver (Ag)				5	5	5	5	
Zinc (Zn)				150	50	50	50	
Chromium (Cr VI)				3.75	2.5	2.5	2.5	
Mercury (Hg)			0.2	0.125	0.05	0.05	0.05	



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#### 5. %Solids

Parameter	Parameter Code	Test Method	Unit	RL	Result		
%Solids	%Solids	HJ 613 at 105°C	%	NA	24		
Conclusion		Report Only					

#### Abbreviation:

% = percentage NA = Not Applicable

#### Remark:

Parameter	ZDHC Sludge Limit								
Sludge Type	А	A B C D E F G							
%Solids	Sample and Report Only								



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### 6. Paint Filter Test

Parameter	Parameter Code	Test Method	Unit	RL	Result	
Paint Filter Test	Free Liquid	EPA 9095B	NA	NA	Visible	
Conclusion					Not Comply	

## Abbreviation: NA = Not Applicable

#### Remark:

Parameter		ZDHC Sludge Limit							
Sludge Type	А	A B C D E F							
Paint Filter Test	Sampl	e and Repo	rt Only	Pass	Paint Filter	Test	Sample and Report Only		



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## 7. Fecal Coliform

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Fecal Coliform	Fecal Coliform	EPA 1681	MPN/g	10	794.3
Conclusion					Report Only

**Abbreviation:** MPN/g = Most Probable Number per gram

#### Remark:

Parameter	ZDHC Sludge Limit (MPN/g)								
Sludge Type	А	A B C D E F G							
Fecal Coliform		Sampl	1000	1000					



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#### Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers 8.

					Sample No.	R001	
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result	
Nonylphenol (NP), mixed isomers	104-40-5 25154-52-3 11066-49-2 84852-15-3	ISO 18857-2	µg/L	5	5	< RL	
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8	ISO 18857-2	µg/L	5	5	< RL	
Nonylphenol ethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	ISO 18254-1, ASTM D7065	µg/L	5	5	< RL	
Octylphenol ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	ISO 18254-1, ASTM D7065	µg/L	5	5	< RL	
Conclusion	Conclusion						

			Sampl	e No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Nonylphenol (NP), mixed isomers	104-40-5 25154-52-3 11066-49-2 84852-15-3	ISO 18857-2	mg/kg	0.2	< RL
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8	ISO 18857-2	mg/kg	0.2	< RL
Nonylphenol ethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	ISO 18254-1, ASTM D7065	mg/kg	0.2	< RL
Octylphenol ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	ISO 18254-1, ASTM D7065	mg/kg	0.2	< RL
Conclusion					Comply

Abbreviation:

< = less than

 $\begin{array}{rl} RL = & reporting \ limit \\ \mu g/L = & microgram \ per \ liter \end{array}$ 

mg/kg = milligram per kilogram



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#### Remark:

Parameter	ZDHC Sludge Limit (mg/kg)							
Sludge Type	А	A B C D E F G						
AP & APEOs	Sample and Report only			0.4	0.4	0.4	0.4	



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## 9. Anti-Microbials & Biocides

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
o-Phenylphenol (+Salts)	90-43-7	US EPA 8270E	µg/L	100	100	< RL
Triclosan	3380-34-5	US EPA 8270E	µg/L	100	100	< RL
Permethrin	Multiple	US EPA 8270E	µg/L	500	500	< RL
Conclusion						Comply

Abbreviation:

< = less than
RL = reporting limit</pre>



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### 10. Chlorinated Paraffins

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	US EPA 3510, ISO 18219-2	µg/L	5	5	< RL
Short-chain Chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	US EPA 3510, ISO 18219-1	µg/L	5	5	< RL
Conclusion		Comply				

Abbreviation:

< = less than
RL = reporting limit</pre>



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### 11. Chlorobenzenes and Chlorotoluenes

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
1,2-Dichlorobenzene	95-50-1	US EPA 8260D, 8070E	µg/L	0.2	0.2	< RL
Other isomers of mono, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono, di- tri-, tetra- and penta-Chlorotoluene	Multiple	US EPA 8260D, 8070E	µg/L	0.2	0.2	< RL
Conclusion		Comply				

Sample No.								
Parameter	Parameter Code	Test Method	Unit	RL	Result			
mono, di- tri-, tetra- and penta-Chlorotoluene	Multiple	HJ 605	mg/kg	0.1	< RL			
Conclusion					Comply			

Abbreviation:

< = less than

RL = reporting limit

 $\mu g/L =$  microgram per liter

mg/kg = milligram per kilogram

#### Remark:

Parameter	ZDHC Sludge Limit (mg/kg)									
Sludge Type	А	A B C D E F G								
mono, di- tri-, tetra- and penta-Chlorotoluene	Sampl	Sample and Report only			0.2	0.2	0.2			



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### 12. Chlorophenols

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
2-Chlorophenol	95-57-8	US EPA 8270E	µg/L	0.5	0.5	< RL
3-chlorophenol	108-43-0	US EPA 8270E	µg/L	0.5	0.5	< RL
4-chlorophenol	106-48-9	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3-Dichlorophenol	576-24-9	US EPA 8270E	µg/L	0.5	0.5	< RL
2,4-Dichlorophenol	120-83-2	US EPA 8270E	µg/L	0.5	0.5	< RL
2,5-Dichlorophenol	583-78-8	US EPA 8270E	µg/L	0.5	0.5	< RL
2,6-Dichlorophenol	87-65-0	US EPA 8270E	µg/L	0.5	0.5	< RL
3,4-Dichlorophenol	95-77-2	US EPA 8270E	µg/L	0.5	0.5	< RL
3,5- Dichlorophenol	591-35-5	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,4-Trichlorophenol	15950-66-0	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,5-Trichlorophenol	933-78-8	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,6-Trichlorophenol	933-75-5	US EPA 8270E	µg/L	0.5	0.5	< RL
2,4,5-Trichlorophenol	95-95-4	US EPA 8270E	µg/L	0.5	0.5	< RL
2,4,6-Trichlorophenol	88-06-2	US EPA 8270E	µg/L	0.5	0.5	< RL
3,4,5-Trichlorophenol	609-19-8	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,4,5-Tetrachlorophenol	4901-51-3	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,4,6-Tetrachlorophenol	58-90-2	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,5,6-Tetrachlorophenol	935-95-5	US EPA 8270E	µg/L	0.5	0.5	< RL
Pentachlorophenol	87-86-5	US EPA 8270E	µg/L	0.5	0.5	< RL
Conclusion						Comply

#### Abbreviation:

< = less than

RL = reporting limit



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## 13. Dyes – Carcinogenic or Equivalent Concern

					Sample No.	R001	
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result	
C.I. Direct Black 38	1937-37-7	ISO 16373	µg/L	500	500	< RL	
C.I. Direct Blue 6	2602-46-2	ISO 16373	µg/L	500	500	< RL	
C.I. Acid Red 26	3761-53-3	ISO 16373	µg/L	500	500	< RL	
C.I. Basic Red 9	569-61-9	ISO 16373	µg/L	500	500	< RL	
C.I. Direct Red 28	573-58-0	ISO 16373	µg/L	500	500	< RL	
C.I. Basic Violet 14	632-99-5	ISO 16373	µg/L	500	500	< RL	
C.I. Disperse Blue 1	2475-45-8	ISO 16373	µg/L	500	500	< RL	
C.I. Disperse Blue 3	2475-46-9	ISO 16373	µg/L	500	500	< RL	
C.I. Basic Blue 26 (with Michler's Ketone >0.1%)	2580-56-5	ISO 16373	µg/L	500	500	< RL	
C.I Basic Green 4 (malachite green chloride)	569-64-2	ISO 16373	µg/L	500	500	< RL	
C.I Basic Green 4 (malachite green oxalate)	2437-29-8	ISO 16373	µg/L	500	500	< RL	
C.I Basic Green 4 (malachite green)	10309-95-2	ISO 16373	µg/L	500	500	< RL	
Disperse Orange 11	82-28-0	ISO 16373	µg/L	500	500	< RL	
Basic violet 3 with >0.1% of Michler´s Ketone	548-62-9	ISO 16373	µg/L	500	500	< RL	
C.I. Acid Viiolet 49	1694-09-3	ISO 16373	µg/L	500	500	< RL	
Conclusion							

Abbreviation:

< = less than

RL = reporting limit



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## 14. Dyes – Disperse (Sensitizing)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Disperse Yellow 1	119-15-3	ISO 16373	µg/L	50	50	< RL
Disperse Blue 102	12222-97-8	ISO 16373	µg/L	50	50	< RL
Disperse Blue 106	12223-01-7	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 39	12236-29-2	ISO 16373	µg/L	50	50	< RL
Disperse Orange 37/59/76	13301-61-6	ISO 16373	µg/L	50	50	< RL
Disperse Brown 1	23355-64-8	ISO 16373	µg/L	50	50	< RL
Disperse Orange 1	2581-69-3	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 3	2832-40-8	ISO 16373	µg/L	50	50	< RL
Disperse Red 11	2872-48-2	ISO 16373	µg/L	50	50	< RL
Disperse Red 1	2872-52-8	ISO 16373	µg/L	50	50	< RL
Disperse Red 17	3179-89-3	ISO 16373	µg/L	50	50	< RL
Disperse Blue 7	3179-90-6	ISO 16373	µg/L	50	50	< RL
Disperse Blue 26	3860-63-7	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 49	54824-37-2	ISO 16373	µg/L	50	50	< RL
Disperse Blue 35	12222-75-2	ISO 16373	µg/L	50	50	< RL
Disperse Blue 124	61951-51-7	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 9	6373-73-5	ISO 16373	µg/L	50	50	< RL
Disperse Orange 3	730-40-5	ISO 16373	µg/L	50	50	< RL
Disperse Blue 35	56524-77-7	ISO 16373	µg/L	50	50	< RL
Conclusion						Comply

Abbreviation:

< = less than

RL = reporting limit



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## 15. Dyes – Navy Blue Colorant

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Component 1: C39H23CI-CrN7O12S 2Na	118685-33-9	ISO 16373	µg/L	500	500	< RL
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	ISO 16373	µg/L	500	500	< RL
Conclusion						Comply

Abbreviation:

< = less than

RL = reporting limit



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### 16. Flame Retardants

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Tris-(2-chloro-ethyl)- phosphate (TCEP)	115-96-8	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Decabromodiphenyl ether (DecaBDE)	1163-19-5	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Tri-(2,3-di-bromo-propyl)- phosphate (TRIS)	126-72-7	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Octabromodiphenyl ether (OctaBDE)	32536-52-0	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Bis-(2,3-di-bromo-propyl)- phosphate (BIS)	5412-25-9	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Polybromobiphenyls (PBB)	59536-65-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Tetra-bromo-bisphenol-A (TBBPA)	79-94-7	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Hexabromocyclododecan (HBCDD)	3194-55-6	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
2,2-bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Tris-(1,3-di-chloro-iso- propyl)-phosphate (TDCP)	13674-87-8	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Tris-(2-chloro-1- methylethyl) phosphate (TCPP)	13674-84-5	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Decabromobiphenyl (DecaBB)	13654-09-6	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Dibromobiphenyls (DiBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Octabromobiphenyls (OctaBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Tetrabromobisphenol A bis(dibromopropyl ether)	21850-44-2	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Monobromobiphenyls (MonoBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Monobromodiphenylethers Multiple (MonoBDEs)	Multiple	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Nonabromobiphenyls (NonaBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL

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Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL		
Tribromodiphenylethers (TriBDEs)	Multiple	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL		
Boric acid	10043-35-3; 11113-50-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL		
Diboron trioxide	1303-86-2	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL		
Disodium octaborate	12008-41-2	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL		
Disodium tetraborate anhydrous	1303-96-4; 1330-43-4	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL		
Tetraboron disodium heptaoxide, hydrate	12267-73-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL		
Conclusion						Comply		

Abbreviation:

< = less than

 $\begin{array}{ll} RL = & reporting \mbox{ limit} \\ \mu g/L = & microgram \mbox{ per liter} \end{array}$ 



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## 17. Glycols / Glycol Ethers

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Bis(2-methylethyl)ether	111-96-6	US EPA 8270E	µg/L	50	50	< RL
2-Ethoxyethanol	110-80-5	US EPA 8270E	µg/L	50	50	< RL
2-Ethoxyethyl acetate	111-15-9	US EPA 8270E	µg/L	50	50	< RL
Ethylene glycol dimethyl ether	110-71-4	US EPA 8270E	µg/L	50	50	< RL
2-Methoxyethanol	109-86-4	US EPA 8270E	µg/L	50	50	< RL
2-Methoxyethyl acetate	110-49-6	US EPA 8270E	µg/L	50	50	< RL
2-Methoxypropyl acetate	70657-70-4	US EPA 8270E	µg/L	50	50	< RL
Triethylene Glycol Dimethyl Ether	112-49-2	US EPA 8270E	µg/L	50	50	< RL
Conclusion		Comply				

Abbreviation:

< = less than

RL = reporting limit  $\mu g/L =$  microgram per liter



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### 18. Halogenated Solvents

		Sample No.	R001			
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
1,2-dichloroethane	107-06-2	US EPA 8260D	µg/L	1	1	< RL
Methylene chloride	75-09-2	US EPA 8260D	µg/L	1	1	< RL
Trichloroethylene	79-01-6	US EPA 8260D	µg/L	1	1	< RL
Tetrachloroethylene 127-18-4 US EPA 8260D µg/L 1						< RL
Conclusion		Comply				

Abbreviation:

< = less than

RL = reporting limit



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## 19. Organotin Compounds

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Mono-,di-and tri-methyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Mono-,di-and tri-butyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Mono-,di-and tri-phenyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Mono-, di-and tri-octyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Dipropyltin compounds (DPT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tetrabutyltin compounds (TeBT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tripropyltin Compounds (TPT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tetraoctyltin compounds (TeOT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tricyclohexyltin (TCyHT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tetraethyltin Compounds (TeET)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Conclusion						Comply

Abbreviation:

- < = less than
- RL = reporting limit
- $\mu g/L =$  microgram per liter



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## 20. Other / Miscellaneous Chemicals

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	Liquid extraction, LC-MS-MS	µg/L	500	500	< RL
Bisphenol A	80-05-7	Liquid extraction, LC-MS-MS	µg/L	10	10	< RL
Thiourea	62-56-6	Liquid extraction, LC-MS-MS	µg/L	50	50	< RL
Quinoline	91-22-5	Liquid extraction, LC-MS-MS	µg/L	50	50	< RL
Borate, zinc salt	12767-90-7	EPA 6020a	µg/L	50	100	< RL
Conclusion		Comply				

Abbreviation:

< = less than

RL = reporting limit



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## 21. Perfluorinated and Polyfluorinated Chemicals (PFCs)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Perfluorooctane sulfonate (PFOS) and related substances	Multiple	EPA 8270, PFCs: LC-MS-MS FTOH: GC-MS	µg/L	0.01	0.01	< RL
Perfluorooctanoic acid (PFOA) and related substances Multiple EPA 8270, PFCs: LC-MS-MS FTOH: µg/L 1 GC-MS					1	< RL
Conclusion		Comply				

Abbreviation:

< = less than

RL = reporting limit



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## 22. Phthalates – Including all other esters of phthalic acid

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Di(ethylhexyl)phthalate (DEHP)	117-81-7	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-iso-decyl phthalate (DIDP)	26761-40-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-isononyl phthalate (DINP)	28553-12-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-butyl phthalate (DBP)	84-74-2	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Butyl benzyl phthalate (BBP)	85-68-7	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Dinonyl phthalate (DNP)	84-76-4	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Diethyl phthalate (DEP)	84-66-2	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-propyl phthalate (DPRP)	131-16-8	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-isobutyl phthalate (DIBP)	84-69-5	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-cyclohexyl phthalate (DCHP)	84-61-7	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-iso-octyl phthalate (DIOP)	27554-26-3	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4; 68515-50-4	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6; 84777-06-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-pentylphalates	131-18-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Diisopentylphthalates	605-50-5	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Conclusion		Comply				

Abbreviation:

< = less than

RL = reporting limit



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## 23. Polycyclic Aromatic Hydrocarbons (PAHs)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzo(a)pyrene	50-32-8	US EPA 8270E	µg/L	1	1	< RL
Anthracene	120-12-7	US EPA 8270E	µg/L	1	1	< RL
Pyrene	129-00-0	US EPA 8270E	µg/L	1	1	< RL
Benzo[ghi]perylene	191-24-2	US EPA 8270E	µg/L	1	1	< RL
Benzo(e)pyrene	192-97-2	US EPA 8270E	µg/L	1	1	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	US EPA 8270E	µg/L	1	1	< RL
Benzo(j)fluoranthene	205-82-3	US EPA 8270E	µg/L	1	1	< RL
Benzo[b]fluoranthene	205-99-2	US EPA 8270E	µg/L	1	1	< RL
Fluoranthene	206-44-0	US EPA 8270E	µg/L	1	1	< RL
Benzo[k]fluoranthene	207-08-9	US EPA 8270E	µg/L	1	1	< RL
Acenaphthylene	208-96-8	US EPA 8270E	µg/L	1	1	< RL
Chrysene	218-01-9	US EPA 8270E	µg/L	1	1	< RL
Dibenz(a,h)anthracene	53-70-3	US EPA 8270E	µg/L	1	1	< RL
Benzo[a]anthracene	56-55-3	US EPA 8270E	µg/L	1	1	< RL
Acenaphthene	83-32-9	US EPA 8270E	µg/L	1	1	< RL
Phenanthrene	85-01-8	US EPA 8270E	µg/L	1	1	< RL
Fluorene	86-73-7	US EPA 8270E	µg/L	1	1	< RL
Naphthalene	91-20-3	US EPA 8270E	µg/L	1	1	< RL
Conclusion		Comply				



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			Sampl	e No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Benzo(a)pyrene	50-32-8	HJ 805-2016	mg/kg	0.2	< RL
Anthracene	120-12-7	HJ 805-2016	mg/kg	0.2	< RL
Pyrene	129-00-0	HJ 805-2016	mg/kg	0.2	< RL
Benzo[ghi]perylene	191-24-2	HJ 805-2016	mg/kg	0.2	< RL
Benzo(e)pyrene	192-97-2	HJ 805-2016	mg/kg	0.2	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	HJ 805-2016	mg/kg	0.2	< RL
Benzo(j)fluoranthene	205-82-3	HJ 805-2016	mg/kg	0.2	< RL
Benzo[b]fluoranthene	205-99-2	HJ 805-2016	mg/kg	0.2	< RL
Fluoranthene	206-44-0	HJ 805-2016	mg/kg	0.2	< RL
Benzo[k]fluoranthene	207-08-9	HJ 805-2016	mg/kg	0.2	< RL
Acenaphthylene	208-96-8	HJ 805-2016	mg/kg	0.2	< RL
Chrysene	218-01-9	HJ 805-2016	mg/kg	0.2	< RL
Dibenz(a,h)anthracene	53-70-3	HJ 805-2016	mg/kg	0.2	< RL
Benzo[a]anthracene	56-55-3	HJ 805-2016	mg/kg	0.2	< RL
Acenaphthene	83-32-9	HJ 805-2016	mg/kg	0.2	< RL
Phenanthrene	85-01-8	HJ 805-2016	mg/kg	0.2	< RL
Fluorene	86-73-7	HJ 805-2016	mg/kg	0.2	< RL
Naphthalene	91-20-3	HJ 805-2016	mg/kg	0.2	< RL
Conclusion					Comply

#### Abbreviation:

< = less than

RL = reporting limit

 $\mu g/L =$  microgram per liter

mg/kg = milligram per kilogram

### Remark:

Parameter	ZDHC Sludge Limit (mg/kg)								
Sludge Type	А	A B C D E F G							
PAHs	Sample and Report only			0.2	0.2	0.2	0.2		



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## 24. Restricted Aromatic Amines(Cleavable from Azo)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
4,4'-Methylene-bis(2- chloroaniline)	101-14-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-Diaminodiphenylmethane	101-77-9	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-Oxydianiline	101-80-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-Chloroaniline	106-47-8	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
3,3'-Dimethoxybenzidine	119-90-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
3,3'-Dimethylbenzidine	119-93-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
6-methoxy-m-toluidine	120-71-8	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,4,5-Trimethylaniline	137-17-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-Thiodianiline	139-65-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-Aminoazobenzene	60-09-3	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-Methoxy-m-phenylenediamine	615-05-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-methylenedi-o-toluidine	838-88-0	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,6-Xylidine	87-62-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
o-Anisidine	90-04-0	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2-Naphthylamine	91-59-8	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
3,3'-Dichlorobenzidine	91-94-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-Aminobiphenyl	92-67-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
Benzidine	92-87-5	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
o-Toluidine	95-53-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,4-Xylidine	95-68-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-Chloro-o-toluidine	95-69-2	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-methyl-m-phenylenediamine	95-80-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
o-Aminoazotoluene	97-56-3	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
5-Nitro-o-toluidine	99-55-8	Reduction, EPA 8270	μg/L	0.1	0.1	< RL
4-chloro-o-toluidinium chloride	3165-93-3	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2-Naphthylammoniuma cetate	553-00-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-methoxy-m-phenylene diammonium sulphate	39156-41-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,4,5-trimethylaniline hydrochloride	21436-97-5	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
Conclusion						Comply

Abbreviation:

< = less than

RL = reporting limit



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### 25. UV Absorbers

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
2-(2H-benzotriazol-2-yl)-4-(tert- butyl)-6-(sec- butyl) phenol (UV-350)	36437-37-3	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
2-benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)	3846-71-7	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
2,4-Di-tert-butyl-6-(5- chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
Conclusion		Comply				

Abbreviation:

< = less than

RL = reporting limit  $\mu g/L =$  microgram per liter



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## 26. Volatile Organic Compounds (VOC)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzene	71-43-2	ISO 11423-1	µg/L	1	1	< RL
Xylene	1330-20-7	ISO 11423-1	µg/L	1	1	< RL
o-cresol	95-48-7	ISO 11423-1	µg/L	1	1	< RL
p-cresol	106-44-5	ISO 11423-1	µg/L	1	1	< RL
m-cresol	108-39-4	ISO 11423-1	µg/L	1	1	< RL
Conclusion						Comply

Abbreviation:

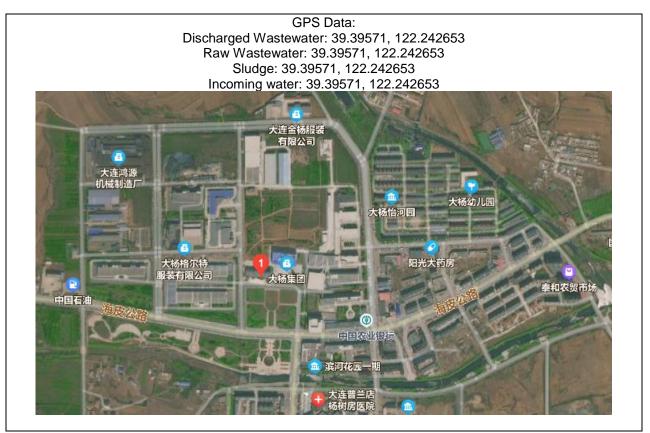
< = less than

RL = reporting limit  $\mu g/L =$  microgram per liter



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## Sampling Point Indication (Map)





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## **Sampling Photo** Factory Gate Factory Layout 机械格栅 ŧ 初次沉淀池 污泥 + 调节池 上清液 ŧ 混凝池 ----- 加药系统 污泥浓缩池 沉淀池 河泥 ł 中间水池 污泥处理系统 ł 反冲洗出水 过滤系统 泥饼外运 排水 Factory Other Photo Factory Other Photo



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## APPENDIX A Regulatory Requirement

### 表2 新建企业水污染物排放浓度限值及单位产品基准排水量

单位: mg/L (pH值, 色度除外)

皮里	Sec. 34. Also VII. 1	限	值	하는 한테, Mari 바 한국 비장 구승, 12, 123								
序号	污染物项目	直接排放	间接排放	- 污染物排放监控位置								
1	pH 值	6~9	6~9									
2	化学需氧量(COD <sub>Cr</sub> )	80	200									
3	五日生化需氧量	20	50									
4	悬浮物	50	100	企业废水总排放口								
5	色度	50	80									
б	氨氮	10 15 <sup>(1)</sup>	20 30 (1)									
7	总氮	15 25 <sup>(1)</sup>	30 50 (1)									
8	总磷	0.5	1.5									
9	二氧化氯	0.5	0.5									
10	可吸附有机卤素 (AOX)	12	12									
11	硫化物	0.5	0.5									
12	苯胺类	不得检出	不得检出									
13	六价铬	不得	检出	车间或生产设施废水排放口								
单位产品	棉、麻、化纤及混纺机织物	14	40									
基准排水	真丝绸机织物(含练白)	30	00									
量 (m³/t	纱线、针织物	85		排水量计量位置与污染物排 放监控位置相同								
标准品)	精梳毛织物	500										
2)	粗梳毛织物	57	75									
	注:(1) 蜡染行业执行该限值。											
(2)	当产品不同时,可按FZ/T 0100	02-2010进行换算。		(2) 当产品不同时,可按FZ/T 01002-2010进行换算。								

### - END -

 TÜV Rheinland (Shanghai) Co., Ltd., Shanghai TÜV Rheinland Building, No.177, Lane 777, West Guangzhong Road, Jing'an District, Shanghai 200072,

 P.R.China
 Tel.: (86) 21 6108 1188
 Fax: (86) 21 6074 7298
 Mail: service-gc@tuv.com
 Web: www.chn.tuv.com



#### General Terms and Conditions of Business of TÜV Rheinland in Greater China

- Scope These General Terms and Conditions of Business of TUV Rheinland in Greater China (CTOB') is made between the client and one or more member entities of TUV Rheinland in Greater China as applicable as the scen may be (TUV Rheinland'). The Greater China hare of the China. Hong Kong and Taiwan. The client hereof includes: a natural pence cauble to form legibly fording contracts under the applicable laws who concludes the client client of the purpose of a daily use: the client client hereof includes: the client client hereof includes and the scene client of the scene client hereof client client of the purpose of a daily use. The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as an client services and there scene client voltage and client client of the client of any struct shall not apply and shall hereby be any standard terms and conditions of the client of any structs there and client scenario contract even if TUV Rheinland does not explicitly object to them. In the cortext of a nogning business relationship with the client, this GTCS shall all scenyb to future contracts with the client without TUV Rheinland having to refer to them separately in each individual case. 1.1
- (ii) 12
- 1.3
- 14

#### Quotations

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

#### Coming into effect and duration of contracts

- 3.1
- 3.2 3.3

#### Scope of services

- Couple of services to be provided by TUV Rheinland shall be specified in the contractually agreed service scope of TUV Rheinland by both parties. If no such separate service decively of the service stope of TUV Rheinland by both parties. If no such separate service decivels for the service decive for the service deciverion, as well as the intended use and application of such are not once in particular, no responsibility is assumed for the decive, selection and application set in the provided of the service decivition, as well as the intended use and application of such are not once in particular, no responsibility is assumed for the decive, selection this is expressly stated in the order. The agreed services shall be performed in compliance with the regulations in force at the time the contract is entended into. If our determine, in it is cell decivents, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific product to produce and produce the produce produce procession. 4.1 4.2
- 4.3
- ment unless otherwise agreed in winning on a management of the work there shall be no simultaneous assumption of any guarantee of the excition of the work there shall be no simultaneous assumption of any guarantee of the ness (proper quality) and working order of either tested or examined parts nor of the means which rhowstream processes, organisations, use and 4.4
- erse proper quarity and working other of entere tested or examined parts not of the on as a whole and its upstream and/or downstream processes, organisations, use and on in accordance with regulations, nor of the systems on which the installation is based, in a T, 'UV herhild half assume no exponsibility for the construction, selection of materials embly of installations examined, nor for their use and application in accordance with ms, unless these questions are expensibly over the construct.
- 4.5 4.6
- 4.8
- In the service to be provided by the service of the there are application is not only the service of the secure of 4.9

#### Performance periods/dates

- 5.1
- 5.2
- 5.3
- 5.4
- Performance periods/dates The contractually agreed periodidates of performance are based on estimates of the work involved which are prepared in the with the details provided by the client. They shall only be binding if being if binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TUV Rheniand. Articles 51 and 52 also apply, even without express approval by the client, to all extensions of agreed periodidates of performance to caused by TUV Rheniand. TUV Rheniand with all documents to all Rheniand. TUV Rheniand with all documents and information requires for the performance of the service as specified in the contract. If the performance is subjective of the contract on the information requires for the performance and the postposition of true of the contract. TUV Rheniand with all documents and information requires for the performance of the service as specified in the contract. If the performance of TUV Rheniand with all documents and information requires for the performance at least to the duration of the hindrance plus any time period which may be required for terms. Rheniand is endlaged upone to information requires the service as a specified in the indrance plus any time period which may be required to the contract. The there are applied to postpone period and the may be required for exervices as a finance of the maximum for the contract. 5.5
- performance. If the client is obligated to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, it is the client's responsibility to agree on performance dates with TCV Rheinland, which enable the client to comply with the legal and/or dificulty prescribed deadlines. TUV Rheinland assumes no responsibility in this respect unless TUV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual collagion of TUV Rheinland. 5.6 The client's obligation to cooperate

#### 6.1

- The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland. perinde on general supplies, availains staff, etc. necessary for performance of the services shall be made available free of charge by the cient. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that: 6.2
- It has required statutory qualifications;
- b)
- The product, service or management system to be certified complies with applicable laws and regulations; and It doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China. c)
- If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.
- The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense. 6.3

#### Prices

- 7.1
- If the scope of performance is not laid down in writing when the order is placed, involcing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with brief laid TUR Wheinhand wild at the fine of performance. Unless otherwise agreed, work shall be invoiced according to the progress of the work. If the execution of andrei actednd sover more than one month and the value of the contract or the agreed fixed price exceeds 02.500.00 or equivalent value in local currency. TUV Rheinland may demand payments on account or in instalments. 7.2 7.3

August 2022

- yment terms innoice amounts shall be due for payment within 30 days of the invoice date without deduction receipt of the invoice. No discounts and rebates shall be granted. yments shall be made to the bark account of TUV Rheinland as indicated on the invoice, stating access of default of payment, TUV Rheinland shall be entitled to claim default interest at the plicable short term loan interest rate publicly announced by a reputable commercial bank in the umy where TUV Rheinland is located. At the same time, TUV Rheinland serves the right to 8.1 8.2
- 8.3
- rther damages. he client default in payment of the invoice despite being granted a reasonable grace period, einland shall be entitled to cancel the contract, withdraw the certificate, claim damages for formance and refuse to continue performance of the contract. 8.4

- The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets. Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt
- 8.6
- Objections to the involces of TUV Rheinland shall be susmission are an experiment. TUV Rheinland shall be entitled to stemand appropriate advance payments. TUV Rheinland shall be entitled to stemand appropriate advance payments. TUV Rheinland shall be entitled to stemand appropriate advance payments. TUV Rheinland shall be entitled to stemand appropriate advance payments. TUV Rheinland shall be entitled to stemand appropriate advance payments. TUV Rheinland shall be entitled to stemand appropriate advance payments. TUV Rheinland shall be entitled to stemand appropriate advance payments. Turner and the stemants and the stemants and the stemans and eds Sk per scended Sk per constraintly aver, if the dist shall be entitled to terminate the controlect by the end of the period of notice of changes in fees. If the cortex is not terminated, the changed fees shall be deemed to have been agreed upon by the time of the expirit of the notice or did. 8.7 8.8
- to the control of the 8.9 8.10

#### Acceptance of work

- 9.1 9.2
- 9.3 9.4
- Acceptance of work Any part of the work result ordered which is complete in itself may be presented by TUV Rheinland for acceptance is an institutent. The client shall be obliged to accept it immediately. If acceptance is required or contractuality agreed an in individual case, this shall be deemed to have taken place two (2) weeks after completion and handower of the work, unless the client refuses the place two (2) weeks after completion may handower of the work, unless the client refuses the place two (2) weeks after completion and handower of the work performance of TUV Rheinland if acceptance is excluded according to the nature of the work performance of TUV Rheinland, the completion of the work shall take in place. All show the work performance by TUV Rheinland and the certificate is therefores to be withdraw (e.g. performance of surveillance autis), or if the client cancels or postpones a confilmed audit date within two (2) weeks before the agreed date. TUV Rheinland client is observed to immediately client gas a submysion comparison of 10% of the order annous incurred no damage whatsoever or only a considerably lower damage than the above turney sum-inder as the client the undrataken in the contract to acceptive. TUV Rheinland shall also entitled to drage jump-sum damages in the samourd of 10% of the order annouries acceptive and the source acceptive the work of the contract to acceptive. Turk The thread shall also entitled to drage jump-sum damages in the samourd of 10% of the order annouries acceptive acceptive the prove that the TUV Rheinland shall also be average and the acceptive accep

#### 10. Confidentiality

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- b)
- c)
- 10.4
- 10.5 a)
  - b) c) d)
- 10.6
- 10.7
- 11
- Copyrights and rights of use, publications TUV Reviewed and menin all advertise copyrights in the reports, sepert reports/opinions, test reports heading, manuelle, calculations, posentiations, sic. prepared by TUV Rhevindnu, usess otherwise agreed by the parties in a separate agreement, at the owner of the corpurgits, TUV Rhevinda is free to grant others the right to use the work results for individual or all types of use (right of use) the parties in a separate agreement. The consultations advect reports/ to parties in a separate agreement. The cleim may only use outh reports, separate legitident to the parties in a separate agreement. The cleim may only use usin't proofs, separate the transfer of right of use of the generated work results produced in the parties in a separate agreement. The cleim may only use usin't proofs, separate agreement. The subject to full payment of the remuneration agreed in favour of TUV Rheinland. The cleims may use write results only complete and unabridined. The cleim may only use the parties in a separate work results in full unless. TUV Rheinland has given its prior written consent to the parties parases of the work results in the unless. 11.1
- 11.2
- 11.3 11.4
- 11.5
- work results in full unless TUV Rheinland has given its prior written consent to the pairial passing on of work results. Incluation of the work results for advertising purposes or any further use of the Any reductation and the scope regulated in classes 1.2, and any quantian of the introduction of TUP Rheinland need the prior written approval of TUV Rheinland in sech individual case. Beades, the client ensures that the adversalit use shall comply with relevent applicable laws, regulations and the introduction of the introduction of the introduction of TUV Rheinland needs and the interval of the interval of the interval elevent rules (including that not interval is to specific applicable testing and contribution estimations, etc.). To account, in this case, the client is obligated to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications. The consent of TUV Rheinland to publication or duplication of the work results does not entitle for client to use the cooprade blog), or coprade design or description for TUV Rheinland. 11.6
- 11.7

#### Liability of TÜV Rheinland 12.

- Lability of TÜV Rheinland Irrespective of the legal basis, to the fullest extert permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbunement of appenses caused by TÜV Rheinland, its legal representatives and/or employees the entire contract. (i) in the case of a contract for annually recurring services, the agreed annual fee; (iii) no the case of a contract expressly charged on a time and material basis, a maximum of 2000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the lee for the individual oder under which the damages or tobes have occurred. Notwithstanding the above, in the event Million Euro or equivalent amount in local currency; and (iv) that case of a framework agreement amount in local currency. The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by mailes, intent or poss negligence on the part of TÜV Rheinstand the law even where miror negliganos, the permisma de loss of contract. TW histinisk will the base of a material contract. Any calimit regulares to a fundamental breach of contract. TW histinisk will be liabile work where miror negliganos, the permisma due appensites the agreemente of contract. Any calimit displast, the persible consequence of such heads / to contract. Any calimit of amages to a fundamental breach of contract. TW histinisk will be liabile by the circle 12 agrees. An expressible consequence of such heads / to contract any calimited by the circle 12 agrees. 12.2
- 12.3
- (resolution) violesteade damages), uness any or intro clicutinatives desclade in anice (22, 10U Rheinican data) in che laiabie forte acts che personnel mada availabie by the client or support TUV Rheiniand in the performance of its services under the contract, unless such personnel mada availabie is regarded as viaciabia egner of TUV Rheiniand. If TUV Rheiniand is not liabie to the acts of the personnel mada evailable by the client under the foregoing provision, the client shall indemnify TUV Rheiniand against any claims made by third parties arising from or in connection with such personnel's acts. 12.5
- Unrease unrease contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client. The limitation periods for claims for damages shall be based on statutory provisions. None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client. 12.6 12.7
  - Export control

- When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law. The performance of a contract with the client is subject to the proviso that there are no dostacles to performance of a contract with the client is subject to the proviso that there are no dostacles to sanctions. In the event of a violation, TDV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compressible on the bases incured thered by TUV Rheinland. 13.1 13.2
- 14.

#### Data protection notice

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16.2

**17.** 17.1

18. 18.1

19.1

19.2

19.3 a)

c)

19.4

Data protection notice The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to parenal information) of the client and its related parenas (including but not limited to be initiated to parenal information) of the client and its related parenas (including but not limited to be the prior consent of the data subject, which entities TUV Rheinland to access, use, or process the personal data that the client collected or processes by length and transferred to TUV Rheinland. To certain services, we may also process sensitive personal data has to be disclosed or vasa collected, the client also confirms that it has obtained the prior consent of the data subject. TUV Rheinland Villes are experimented and the sensitive of the data subject. TUV Rheinland Villes are experimented and the sensitive of the data subject. TUV Rheinland Villes are experimented and the sensitive of the data subject. TUV Rheinland Villes are experimented that are interested to the data in compliance with the privacy and personal data. Security related laws and regulations in China and the local country. TUV Rheinland Villes are experimented that has the data in compliance with the privacy and personal data. The personal data will be defined interdetably as soors as of information, right of data transfersability. In addition, persons concerned by the data processing a compliant with the completent data protection supervisiony autority. For further defails on the passes reflet or the respective data protection supervisiony autority. For further defails on the protection officer of TUV Rheinland by e-mail at dataprotection (Bruc on or by post at the following defares. TUV Rheinland Ad, cho Group Data Protection Officer A Graum Stein, 51105 Cologent Germany.

#### Retention of test material and docum

- 15.1
- Retention of test material and documentation
  The test samples submitted by the client to TUV Rheinfand for testing will be scrapped following testing
  or will be returned to the client at the client's expense. The only exceptions are test samples, which
  are placed in storage on the basis of statutory regulations or of another agreement with the client,
  are placed in storage to the client a disclosed to the client to the client's
  test presence samples or documentations are given to the client to be placed in storage with early exceptions are test as major and the storage with the client, in response to such a request, is incapable of making
  available the reference samples and/or documentation, any liability claims for material and
  peculiary damage resulting from the testpecific testing and certification that is trought forward by
  the reference predict for the acquired requirements for EUEC certificates of conformity and
  GS mark certificates.
  The rest of the handyour and dispatch of the test samples for storage on the client. TUV Rheinfand uple to liss of the last storage in the size storage in the iso of test stamples or reference samples
  from the laboratories of the bases of the loss of test stamples or references as angles
  from the laboratories or watchouses of TUV Rheinfand only in case of gross negligence.
- 15.4
- 15.5

#### Termination of the contract 16.1

- Formation of the contract
  Normation of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and independently of the contract, each of the contract individually and contract individually and the individual indindividu
- a)
- b) c) d)
- e)
- 16.3
- 16.4

- Force Majour Force Majour Force Majour Force Majour Prove Majour Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably have been foreseen at the time of the contract, on the contract, and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the discussion of the effects of the impediment could not reasonably have been avoided or overcome by the discussion of the effects of the impediment could not reasonably have been avoided or overcome by the
- 17.2.
- that it could not reasonably have been foreseen at the time of the conclusion of the contract, and (c) that the effect of the impediment could not reasonably thave been avoided or evercome by the In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfill conditions (a) and (b) under paragraph 1 of this Clause). (b) war (whether declared or not), hostillesis, invasion, act of foreign enemies, settensive military mobilization; (i) civil war, ride, relations and recolution, military or usual dosume of neuron study are prayed, and the study of the compliance with any law or governmental order, expropriation, sitcure of works, requisition, antionalization; (v) plaque, episition; canual distator or extrem natural event; (v) explosion, fract, destruction of exploringed break-down of transport, leticommunication, information cocception of the study miles and the study of the study of the study of the study of the destruction of exploringed break-down of transport, leticommunication, information cocception of the study miles (the study of the study of the destruction of exploringed break-down of transport, leticommunication, information cocception of the study miles (the study of the destruction of exploring this Clause is relieved from its duty to parform its obligations under the contract and from any lability in destruction and the contract and the study of the time at which note thereor fractioned break-to the out the contract and the impediment in develocities and premises the other study. Where the effect of the impediment role event invoked is temporary, the above consequences shall apply only as the impediment in develocities the contract, where Party has the ingite terminate the contract argo be terminated by the study. These of there is expected, the Parties expressly agree that the contract may be terminated by either Party if the cursion of the impediment exceeds 120 days. 17.3.

# Hardship The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the

- 18.2 (a)
- (b)
- The Parties are bound to perform their contractual duties even if events have rendered performance more concrusts than could reasonability have been anticolated at the time of the conclusion of their Notwithstanding paragraph 10 this Clause, where a Party proves that: The continued performance of its contractual duties have become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract, and that become the set of the set of the conclusion of the contract, and that which na reasonable time of the invocation of this Clause, to negotiate alternative contractual terms as provided in that paragraph. He Party incidences of the event. Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph. He Party incidences of the event. Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph. He Party incidences of the event. 18.3
  - Partial invalidity, written form, place of jurisdiction and dispute resolution

Partial invalidity, written form, place of puriadician and dispute resolution All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally wild ubless otherwise studied in the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally wild ubless otherwise studied in the contract. Its governing will the parties the studies and conditions shall be chosen following the rules as below. If UV Rheinland (negation is legally registered and existing in the Poople's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the Poople's Republic of China. hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

If TUK Rheinland in question is legary regressed and service in terms of the terms and the contract and these terms and conditions shall be governed by the laws of hereby agree that the contract and these terms and conditions shall be governed by the laws of hereby agree that the contract and these terms and conditions shall be governed by the laws of hereby agree that the contract and these terms and conditions of the execution thereof Any disputs in connection with file contract, and these terms and conditions of the execution thereof Any disputs in connection with the contract and these terms and conditions of the execution thereof Any disputs in connection with the contract and these terms and conditions of the execution thereof any disputs in connection with the contract, in one settlement of the arising of the disput, the disputs shall be submitted. In the negotiation period can be reached within two months of the Common Line (CFRA) to be setted by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is the case of 1000 Reinland on the part of the laws of CIETAC in the case that the contract and the place in Beijing. Shandpail, Shanchen or Choneging as appropriately chosen by the claiming party. In the case of 1000 Reinland on table place in Beijing registered and existing in Taiwan, to Chinese in the case of 1000 Reinland on table place in Beijing. Shandpail, Shanchen or Choneging as appropriately chosen by the claiming party. In the case of 1000 Reinland on table place in the place in the statistic on the KIKAC to be settled by arbitration. The arbitration shall take place in the place in the statistic on the KIKAC doministered and existing in Taiwan, to Chinese in the case of 1000 Reinland on table case of Arbitration is submitted. In concerving the Netice of Arbi