Test Report No.: 244421677a 001

Client: **WUJIANG YUNSHENG DYEING &WEAVING CO., LTD.**

NO.9 Pingsheng road, Pingwang, Town,Wujiang, Suzhou

Contact Person: Qing Shen

Buyer's Name : -

Factory Details

Factory Name : Wujiang Yunsheng Dyeing & Weaving Co., Ltd.

Factory Address (with geographical coordinates) : NO. 9 Pingsheng Road, Pingwang Town, Wujiang, Jiangsu

On-site ETP : Y

Discharge Type of Wastewater : Indirect discharge

Destination of Wastewater : Wujiang Pingwang Town Sewage Treatment Plant

For Indirect discharge

Name of public wastewater treatment plants(CETP) : Wujiang Pingwang Town Sewage Treatment Plant

Address of public wastewater treatment plants(CETP) : Yinghu Village, North of WanxinBridge, Pingwang Town

Sampling Details

Sampling Date : 2022-05-30

Sample Receiving Date : 2022-06-02

Testing Period : 2022-06-02 to 2022-06-15

Sampling Method:

Sample Type	**Total Volume**	1	2	3	4	5	6
Discharged Wastewater	16.5L	9:10	10:10	11:10	12:10	13:10	14:10
Raw Wastewater	-	-	-	-	-	-	-
Incoming Water	11.9L	12:50	-	-	-	-	-
Sludge	570g	11:35	-	-	-	-	-

Overall Rating	**Discharged Wastewater**	**Raw Wastewater**	**Sludge**
Conventional Parameters / Anion / Metals	Fullfill Progressive Limit	Not Tested	Not Comply
MRSL Parameters	Not Comply	Not Tested	Comply
Legal Compliance	Comply	Not Tested	Not Tested
Specifications	ZDHC Wastewater Guidelines Version 1.1 (July 2019) GB 4287-2012 (Regulatory Requirement Listed in APPENDIX A)		

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

2022-06-16 Carmen Yan / Department Manager

Date *Name/Position*

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned 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.

Test Report No.: 244421677a 001

Result Summary :

Conventional Parameters	Incoming Water	Discharged Wastewater	Raw Wastewater	Sludge
Temperature	-	Aspirational	-	-
Total Suspended Solids (TSS)	-	Progressive	-	-
Chemical Oxygen Demand (COD)	-	Aspirational	-	-
Total Nitrogen	-	Progressive	-	-
pH Value	-	Aspirational	-	-
Colour (ISO 7887-B)	-	Aspirational	-	-
Colour (GB/T 11903)	-	Comply	-	-
Biochemical Oxygen Demand (BOD5) - 5 Days	-	Aspirational	-	-
Ammonium Nitrogen	-	Progressive	-	-
Total Phosphorous	-	Aspirational	-	-
Adsorbable Organic Halogens (AOX)	-	Aspirational	-	-
Oil and Grease	-	Aspirational	-	-
Phenol	-	Progressive	-	-
Coliform	-	Aspirational	-	-
Persistent Foam	-	Aspirational	-	-
Anion - Sulfide	-	Aspirational	-	-
Anion - Sulfite	-	Aspirational	-	-
Anion - Cyanide	-	Aspirational	-	Comply
Chlorine dioxide	-	Comply	-	-
Aniline Compounds	-	Comply	-	-
Heavy Metals	No Comment	Progressive	-	Not Comply
Manufacturing Restricted Substances List (MRSL)	**Incoming Water**	**Discharged Wastewater**	**Raw Wastewater**	**Sludge**
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers	-	Comply	-	Comply
Chlorobenzenes and Chlorotoluenes	-	Comply	-	Comply
Chlorophenols	-	Comply	-	Comply
Dyes - Azo (Forming Restricted Amines)	-	Comply	-	Comply
Dyes - Carcinogenic or Equivalent Concern	-	Comply	-	Comply
Dyes - Disperse (Sensitizing)	-	Comply	-	Comply
Flame Retardants	-	Comply	-	Comply
Glycols	-	Comply	-	Comply
Halogenated Solvents	-	Comply	-	Comply
Organotin Compounds	-	Comply	-	Comply
Perfluorinated and Polyfluorinated Chemicals (PFCs)	No Comment	Not Comply	-	Comply
Phthalates - Including all other esters of phthalic acid	-	Comply	-	Comply
Polycyclic Aromatic Hydrocarbons (PAHs)	-	Comply	-	Comply
Volatile Organic Compounds (VOC)	-	Comply	-	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

Material List:

Field ID	Sample Type	Sample Description
D001	Discharge	Indirect Discharged Wastewater
I001	Incoming water	Incoming Water
S001	Sludge	Sludge

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: (Untreated Wastewater)** Wastewater that has not yet been treated prior to direct or indirect discharge, or recycling efforts. This wastewater therefore does not meet the quality standards for beneficial use.

*** Sludge:** The solid or semi-solid material separated during the wastewater treatment process, including septic and Zero Liquid Discharge (ZLD) systems.

*** Incoming Water:** Water that is supplied to a manufacturing process, usually withdrawn from surface water bodies, groundwater, collected from rainfall, supplied by municipalities, etc.

1.Temperature

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Temperature of the receiving body of water	Temp-Receiving Water	GB/T 13195	C	NA	26
Temperature of the water in the discharge pipe	Temp-Discharge Pipe	GB/T 13195	C	NA	27
The difference between the discharge pipe temp and the receiving body of water	Temp-Difference	GB/T 13195	C	NA	1
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: C =Degrees Celsius
NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (°C)**		
	Foundational	**Progressive**	**Aspirational**
Temperature	Δ 15 or max 35	Δ 10 or max 30	Δ 5 or max 25

Δ is the degree above ambient temperature of receiving water body.

2.Total Suspended Solids (TSS)

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Total Suspended Solids	TSS	GB/T 11901	mg/L	5	8
Conclusion				--	Fulfill Progressive Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Total Suspended Solids (TSS)	50	15	5

3.Chemical Oxygen Demand (COD)

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Chemical Oxygen Demand	COD	HJ 828	mg/L	30	39
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Chemical Oxygen Demand (COD)	150	80	40

4.Total Nitrogen

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Total Nitrogen	TOTAL-N	HJ 636	mg/L	2	6
Conclusion				--	Fulfill Progressive Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Total Nitrogen	20	10	5

5.pH Value

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
pH Value	PH	GB/T 6920	NONE	NA	7
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit**		
	Foundational	**Progressive**	**Aspirational**
pH Value	6-9		

6.Colour (ISO 7887-B)

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Colour 436 NM	COLOUR-436	ISO 7887-B	m^{-1}	NA	1.66
Colour 525 NM	COLOUR-525	ISO 7887-B	m^{-1}	NA	0.97
Colour 620 NM	COLOUR-620	ISO 7887-B	m^{-1}	NA	0.32
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: NM = nanometer
NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (m^{-1})**		
	Foundational	**Progressive**	**Aspirational**
Colour	7;5;3	5;3;2	2;1;1

7.Colour (GB/T 11903)

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Colour (Dilution level methods)	NA	GB/T 11903	Dilution factor	NA	10
Conclusion				--	Comply

Abbreviation: NA = Not Applicable

Remark:

Legal limit according to regulatory requirement listed in APPENDIX A.

8.Biochemical Oxygen Demand (BOD5) - 5 Days

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Biochemical Oxygen Demand	BOD5	HJ 505	mg/L	5	< RL
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Biochemical Oxygen Demand (BOD_5)	30	15	5

9.Ammonium Nitrogen

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Ammonium Nitrogen	AMMONIUM-N	HJ 535	mg/L	0.5	1.0
Conclusion				--	Fulfill Progressive Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Ammonium Nitrogen	10	1	0.5

10.Total Phosphorous

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Total Phosphorous	TOTAL-P	GB/T 11893	mg/L	0.1	< RL
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Total Phosphorous	3	0.5	0.1

11.Adsorbable Organic Halogens (AOX)

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Adsorbable Organic Halogens	AOX	ISO 9562	mg/L	0.1	< RL
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	ZDHC Limit (mg/L)		
	Foundational	Progressive	Aspirational
Adsorbable Organic Halogens (AOX)	5	1	0.1

12.Oil and Grease

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Oil and Grease	OG	HJ 637	mg/L	0.5	< RL
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Oil and Grease	10	2	0.5

13.Phenol

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Phenol	108-95-2	HJ 503	mg/L	0.001	0.007
Conclusion				--	Fulfill Progressive Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Phenol	0.5	0.01	0.001

14.Coliform

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Coliform	COLIFORM	GB/T 5750.12	bacteria/ 100ml	10	< RL
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (bacteria/100ml)**		
	Foundational	**Progressive**	**Aspirational**
Coliform	400	100	25

15.Persistent Foam

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Persistent Foam	FOAM	Visual	NONE	NA	Not Visible
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit**		
	Foundational	**Progressive**	**Aspirational**
Persistent Foam	The presence of foam is no thicker than 45 centimetres (by visual estimation), and is contained within the aeration basin.		

16.Anion - Sulfide

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Anion - Sulfide	18496-25-8	GB/T 16489	mg/L	0.01	< RL
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	ZDHC Limit (mg/L)		
	Foundational	Progressive	Aspirational
Anion - Sulfide	0.5	0.05	0.01

17.Anion - Sulfite

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Anion - Sulfite	14265-45-3	US EPA 377.1	mg/L	0.2	< RL
Conclusion				--	Fulfill Aspirational Limit

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 1A of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit (mg/L)**		
	Foundational	**Progressive**	**Aspirational**
Anion - Sulfite	2	0.5	0.2

18.Anion - Cyanide

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Anion - Cyanide	57-12-5	HJ 484	mg/L	0.05	< RL
Conclusion				--	Fulfill Aspirational Limit

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Anion - Cyanide	57-12-5	ISO 11262	mg/kg	0.1	0.2
Conclusion				--	Comply

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter
mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 1A and Table 3 of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	**ZDHC Limit for Wastewater (mg/L)**			**ZDHC Limit (mg/kg)**
	Foundational	**Progressive**	**Aspirational**	**Sludge**
Cyanide	0.2	0.1	0.05	1

19.Chlorine dioxide

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Chlorine dioxide	NA	HJ 551	mg/L	0.36	< RL
Conclusion				--	Comply

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

Legal limit according to regulatory requirement listed in APPENDIX A.

20.Aniline Compounds

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Aniline Compounds	NA	GB/T 11889	mg/L	0.03	0.04
Conclusion				--	Comply

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter

Remark:

Legal limit according to regulatory requirement listed in APPENDIX A.

21.Heavy Metals

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Antimony (Sb)	Antimony	US EPA 6020a	mg/L	0.001	0.026
Chromium (Cr, total)	Chromium Total	US EPA 6020a	mg/L	0.001	0.008
Cobalt (Co)	Cobalt	US EPA 6020a	mg/L	0.001	< RL
Copper (Cu)	Copper	US EPA 6020a	mg/L	0.001	0.006
Nickel (Ni)	Nickel	US EPA 6020a	mg/L	0.001	0.006
Silver (Ag)	Silver	US EPA 6020a	mg/L	0.001	< RL
Zinc (Zn)	Zinc	US EPA 6020a	mg/L	0.001	0.052
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	0.003
Mercury (Hg)	Mercury	US EPA 6020a	mg/L	0.001	< RL
Conclusion				--	Fulfill Progressive Limit

				Sample No.	I001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Antimony (Sb)	Antimony	US EPA 6020a	mg/L	0.001	0.005
Chromium (Cr, total)	Chromium Total	US EPA 6020a	mg/L	0.001	0.003
Cobalt (Co)	Cobalt	US EPA 6020a	mg/L	0.001	< RL
Copper (Cu)	Copper	US EPA 6020a	mg/L	0.001	0.004
Nickel (Ni)	Nickel	US EPA 6020a	mg/L	0.001	0.002
Silver (Ag)	Silver	US EPA 6020a	mg/L	0.001	0.005
Zinc (Zn)	Zinc	US EPA 6020a	mg/L	0.001	0.029
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	0.004
Mercury (Hg)	Mercury	US EPA 6020a	mg/L	0.001	< RL
Conclusion				--	No Comment

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Arsenic (As)	Arsenic	US EPA 6020b	mg/kg	1	7.2
Cadmium (Cd)	Cadmium	US EPA 6020b	mg/kg	1	< RL
Chromium (Cr VI)	Chromium VI	US EPA 7196	mg/kg	1	< RL
Lead (Pb)	Lead	US EPA 6020b	mg/kg	1	28.6
Mercury (Hg)	Mercury	US EPA 6020b	mg/kg	0.1	0.18
Conclusion				--	Not Comply

Abbreviation: < =less than
RL =reporting limit
mg/L = milligram per liter
mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 1B and Table 3 of ZDHC Wastewater Guidelines Version 1.1 issued in July 2019):

Parameter	ZDHC Limit (mg/L)			ZDHC Limit (mg/kg)
	Foundational	Progressive	Aspirational	Sludge
Antimony (Sb)	0.1	0.05	0.01	NA
Chromium (Cr, total)	0.2	0.1	0.05	NA
Cobalt (Co)	0.05	0.02	0.01	NA
Copper (Cu)	1	0.5	0.25	NA
Nickel (Ni)	0.2	0.1	0.05	NA
Silver (Ag)	0.1	0.05	0.005	NA
Zinc (Zn)	5.0	1.0	0.5	NA
Arsenic (As)	0.05	0.01	0.005	2
Cadmium (Cd)	0.1	0.05	0.01	2
Chromium (Cr VI)	0.05	0.005	0.001	2
Lead (Pb)	0.1	0.05	0.01	2
Mercury (Hg)	0.01	0.005	0.001	0.2

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

					Sample No.	D001
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					--	Comply

					Sample No.	S001
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	mg/kg	0.2	0.4	< RL
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8	ISO 18857-2	mg/kg	0.2	0.4	< 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	0.4	< RL
Octylphenol ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	ISO 18254-1, ASTM D7065	mg/kg	0.2	0.4	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

23.Chlorobenzenes and Chlorotoluenes

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Monochlorobenzene	108-90-7	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,2-Dichlorobenzene	95-50-1	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,3-Dichlorobenzene	541-73-1	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,4-Dichlorobenzene	106-46-7	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,2,3-Trichlorobenzene	87-61-6	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,2,4-Trichlorobenzene	120-82-1	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,3,5-Trichlorobenzene	108-70-3	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,2,3,4-Tetrachlorobenzene	634-66-2	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,2,3,5-Tetrachlorobenzene	634-90-2	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
1,2,4,5-Tetrachlorobenzene	95-94-3	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
Pentachlorobenzene	608-93-5	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
Hexachlorobenzene	118-74-1	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2-Chlorotoluene	95-49-8	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
3-Chlorotoluene	108-41-8	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
4-Chlorotoluene	106-43-4	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,3-Dichlorotoluene	32768-54-0	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,4-Dichlorotoluene	95-73-8	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,5-Dichlorotoluene	19398-61-9	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,6-Dichlorotoluene	118-69-4	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
3,4-Dichlorotoluene	95-75-0	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
3,5-Dichlorotoluene	25186-47-4	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,3,4-Trichlorotoluene	7359-72-0	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,3,6-Trichlorotoluene	2077-46-5	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,4,5-Trichlorotoluene	6639-30-1	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,4,6-Trichlorotoluene	23749-65-7	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
3,4,5-Trichlorotoluene	21472-86-6	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,3,4,5-Tetrachlorotoluene	76057-12-0	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,3,5,6-Tetrachlorotoluene	29733-70-8	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
2,3,4,6-Tetrachlorotoluene	875-40-1	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
Pentachlorotoluene	877-11-2	US EPA 8260B, 8070D	µg/L	0.2	0.2	< RL
Conclusion					--	Comply

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					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Monochlorobenzene	108-90-7	US EPA 3550	mg/kg	0.1	0.2	< RL
1,2-Dichlorobenzene	95-50-1	US EPA 3550	mg/kg	0.1	0.2	< RL
1,3-Dichlorobenzene	541-73-1	US EPA 3550	mg/kg	0.1	0.2	< RL
1,4-Dichlorobenzene	106-46-7	US EPA 3550	mg/kg	0.1	0.2	< RL
1,2,3-Trichlorobenzene	87-61-6	US EPA 3550	mg/kg	0.1	0.2	< RL
1,2,4-Trichlorobenzene	120-82-1	US EPA 3550	mg/kg	0.1	0.2	< RL
1,3,5-Trichlorobenzene	108-70-3	US EPA 3550	mg/kg	0.1	0.2	< RL
1,2,3,4-Tetrachlorobenzene	634-66-2	US EPA 3550	mg/kg	0.1	0.2	< RL
1,2,3,5-Tetrachlorobenzene	634-90-2	US EPA 3550	mg/kg	0.1	0.2	< RL
1,2,4,5-Tetrachlorobenzene	95-94-3	US EPA 3550	mg/kg	0.1	0.2	< RL
Pentachlorobenzene	608-93-5	US EPA 3550	mg/kg	0.1	0.2	< RL
Hexachlorobenzene	118-74-1	US EPA 3550	mg/kg	0.1	0.2	< RL
2-Chlorotoluene	95-49-8	US EPA 3550	mg/kg	0.1	0.2	< RL
3-Chlorotoluene	108-41-8	US EPA 3550	mg/kg	0.1	0.2	< RL
4-Chlorotoluene	106-43-4	US EPA 3550	mg/kg	0.1	0.2	< RL
2,3-Dichlorotoluene	32768-54-0	US EPA 3550	mg/kg	0.1	0.2	< RL
2,4-Dichlorotoluene	95-73-8	US EPA 3550	mg/kg	0.1	0.2	< RL
2,5-Dichlorotoluene	19398-61-9	US EPA 3550	mg/kg	0.1	0.2	< RL
2,6-Dichlorotoluene	118-69-4	US EPA 3550	mg/kg	0.1	0.2	< RL
3,4-Dichlorotoluene	95-75-0	US EPA 3550	mg/kg	0.1	0.2	< RL
3,5-Dichlorotoluene	25186-47-4	US EPA 3550	mg/kg	0.1	0.2	< RL
2,3,4-Trichlorotoluene	7359-72-0	US EPA 3550	mg/kg	0.1	0.2	< RL
2,3,6-Trichlorotoluene	2077-46-5	US EPA 3550	mg/kg	0.1	0.2	< RL
2,4,5-Trichlorotoluene	6639-30-1	US EPA 3550	mg/kg	0.1	0.2	< RL
2,4,6-Trichlorotoluene	23749-65-7	US EPA 3550	mg/kg	0.1	0.2	< RL
3,4,5-Trichlorotoluene	21472-86-6	US EPA 3550	mg/kg	0.1	0.2	< RL
2,3,4,5-Tetrachlorotoluene	76057-12-0	US EPA 3550	mg/kg	0.1	0.2	< RL
2,3,5,6-Tetrachlorotoluene	29733-70-8	US EPA 3550	mg/kg	0.1	0.2	< RL
2,3,4,6-Tetrachlorotoluene	875-40-1	US EPA 3550	mg/kg	0.1	0.2	< RL
Pentachlorotoluene	877-11-2	US EPA 3550	mg/kg	0.1	0.2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

24.Chlorophenols

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
2-Chlorophenol	95-57-8	ISO 14154	µg/L	0.5	0.5	< RL
3-chlorophenol	108-43-0	ISO 14154	µg/L	0.5	0.5	< RL
4-chlorophenol	106-48-9	ISO 14154	µg/L	0.5	0.5	< RL
2,3-Dichlorophenol	576-24-9	ISO 14154	µg/L	0.5	0.5	< RL
2,4-Dichlorophenol	120-83-2	ISO 14154	µg/L	0.5	0.5	< RL
2,5-Dichlorophenol	583-78-8	ISO 14154	µg/L	0.5	0.5	< RL
2,6-Dichlorophenol	87-65-0	ISO 14154	µg/L	0.5	0.5	< RL
3,4-Dichlorophenol	95-77-2	ISO 14154	µg/L	0.5	0.5	< RL
3,5- Dichlorophenol	591-35-5	ISO 14154	µg/L	0.5	0.5	< RL
2,3,4-Trichlorophenol	15950-66-0	ISO 14154	µg/L	0.5	0.5	< RL
2,3,5-Trichlorophenol	933-78-8	ISO 14154	µg/L	0.5	0.5	< RL
2,3,6-Trichlorophenol	933-75-5	ISO 14154	µg/L	0.5	0.5	< RL
2,4,5-Trichlorophenol	95-95-4	ISO 14154	µg/L	0.5	0.5	< RL
2,4,6-Trichlorophenol	88-06-2	ISO 14154	µg/L	0.5	0.5	< RL
3,4,5-Trichlorophenol	609-19-8	ISO 14154	µg/L	0.5	0.5	< RL
2,3,4,5-Tetrachlorophenol	4901-51-3	ISO 14154	µg/L	0.5	0.5	< RL
2,3,4,6-Tetrachlorophenol	58-90-2	ISO 14154	µg/L	0.5	0.5	< RL
2,3,5,6-Tetrachlorophenol	935-95-5	ISO 14154	µg/L	0.5	0.5	< RL
Pentachlorophenol	87-86-5	ISO 14154	µg/L	0.5	0.5	< RL
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
2-Chlorophenol	95-57-8	ISO 14154	mg/kg	0.03	0.05	< RL
3-chlorophenol	108-43-0	ISO 14154	mg/kg	0.03	0.05	< RL
4-chlorophenol	106-48-9	ISO 14154	mg/kg	0.03	0.05	< RL
2,3-Dichlorophenol	576-24-9	ISO 14154	mg/kg	0.03	0.05	< RL
2,4-Dichlorophenol	120-83-2	ISO 14154	mg/kg	0.03	0.05	< RL
2,5-Dichlorophenol	583-78-8	ISO 14154	mg/kg	0.03	0.05	< RL
2,6-Dichlorophenol	87-65-0	ISO 14154	mg/kg	0.03	0.05	< RL
3,4-Dichlorophenol	95-77-2	ISO 14154	mg/kg	0.03	0.05	< RL
3,5- Dichlorophenol	591-35-5	ISO 14154	mg/kg	0.03	0.05	< RL
2,3,4-Trichlorophenol	15950-66-0	ISO 14154	mg/kg	0.03	0.05	< RL
2,3,5-Trichlorophenol	933-78-8	ISO 14154	mg/kg	0.03	0.05	< RL
2,3,6-Trichlorophenol	933-75-5	ISO 14154	mg/kg	0.03	0.05	< RL
2,4,5-Trichlorophenol	95-95-4	ISO 14154	mg/kg	0.03	0.05	< RL
2,4,6-Trichlorophenol	88-06-2	ISO 14154	mg/kg	0.03	0.05	< RL
3,4,5-Trichlorophenol	609-19-8	ISO 14154	mg/kg	0.03	0.05	< RL
2,3,4,5-Tetrachlorophenol	4901-51-3	ISO 14154	mg/kg	0.03	0.05	< RL
2,3,4,6-Tetrachlorophenol	58-90-2	ISO 14154	mg/kg	0.03	0.05	< RL
2,3,5,6-Tetrachlorophenol	935-95-5	ISO 14154	mg/kg	0.03	0.05	< RL
Pentachlorophenol	87-86-5	ISO 14154	mg/kg	0.03	0.05	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

25.Dyes - Azo (Forming Restricted Amines)

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4,4'-diaminodiphenylmethane	101-77-9	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4,4'-oxydianiline	101-80-4	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4-chloroaniline	106-47-8	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
3,3'-Dimethoxybenzidine	119-90-4	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
3,3'-Dimethylbenzidine	119-93-7	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
6-Methoxy-m-toluidine	120-71-8	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
2,4,5-trimethylaniline	137-17-7	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4,4'-Thiodianiline	139-65-1	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4-aminoazobenzene	60-09-03	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4-methoxy-m-phenylenediamine	615-05-4	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4,4'-Methylenedi-o-toluidine	838-88-0	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
2,6-xylidine	87-62-7	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
o-anisidine	90-04-0	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
2-naphthylamine	91-59-8	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
3,3'-Dichlorobenzidine	91-94-1	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4-Aminobiphenyl	92-67-1	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
benzidine	92-87-5	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
o-toluidine	95-53-4	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
2,4-xylidine	95-68-1	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4-chloro-o-toluidine	95-69-2	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
4-methyl-m-phenylenediamine	95-80-7	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
o-Aminoazotoluene	97-56-3	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
5-nitro-o-toluidine	99-55-8	ISO 14362-1, 14362-3	µg/L	0.1	0.1	< RL
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4,4'-diaminodiphenylmethane	101-77-9	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4,4'-oxydianiline	101-80-4	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4-chloroaniline	106-47-8	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
3,3'-Dimethoxybenzidine	119-90-4	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
3,3'-Dimethylbenzidine	119-93-7	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
6-Methoxy-m-toluidine	120-71-8	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
2,4,5-trimethylaniline	137-17-7	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4,4'-Thiodianiline	139-65-1	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4-aminoazobenzene	60-09-03	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4-methoxy-m-phenylenediamine	615-05-4	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4,4'-Methylenedi-o-toluidine	838-88-0	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
2,6-xylidine	87-62-7	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
o-anisidine	90-04-0	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
2-naphthylamine	91-59-8	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
3,3'-Dichlorobenzidine	91-94-1	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4-Aminobiphenyl	92-67-1	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
benzidine	92-87-5	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
o-toluidine	95-53-4	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
2,4-xylidine	95-68-1	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4-chloro-o-toluidine	95-69-2	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
4-methyl-m-phenylenediamine	95-80-7	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
o-Aminoazotoluene	97-56-3	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
5-nitro-o-toluidine	99-55-8	ISO 14362-1, 14362-3	mg/kg	0.2	0.2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

26.Dyes - Carcinogenic or Equivalent Concern

					Sample No.	D001
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
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
C.I. Direct Black 38	1937-37-7	ISO 16373	mg/kg	1	10	< RL
C.I. Direct Blue 6	2602-46-2	ISO 16373	mg/kg	1	10	< RL
C.I. Acid Red 26	3761-53-3	ISO 16373	mg/kg	1	10	< RL
C.I. Basic Red 9	569-61-9	ISO 16373	mg/kg	1	10	< RL
C.I. Direct Red 28	573-58-0	ISO 16373	mg/kg	1	10	< RL
C.I. Basic Violet 14	632-99-5	ISO 16373	mg/kg	1	10	< RL
C.I. Disperse Blue 1	2475-45-8	ISO 16373	mg/kg	1	10	< RL
C.I. Disperse Blue 3	2475-46-9	ISO 16373	mg/kg	1	10	< RL
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	ISO 16373	mg/kg	1	10	< RL
C.I Basic Green 4 (malachite green chloride)	569-64-2	ISO 16373	mg/kg	1	10	< RL
C.I Basic Green 4 (malachite green oxalate)	2437-29-8	ISO 16373	mg/kg	1	10	< RL
C.I Basic Green 4 (malachite green)	10309-95-2	ISO 16373	mg/kg	1	10	< RL
Disperse Orange 11	82-28-0	ISO 16373	mg/kg	1	10	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

27.Dyes - Disperse (Sensitizing)

					Sample No.	D001
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

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Disperse Yellow 1	119-15-3	ISO 16373	mg/kg	1	2	< RL
Disperse Blue 102	12222-97-8	ISO 16373	mg/kg	1	2	< RL
Disperse Blue 106	12223-01-7	ISO 16373	mg/kg	1	2	< RL
Disperse Yellow 39	12236-29-2	ISO 16373	mg/kg	1	2	< RL
Disperse Orange 37/59/76	13301-61-6	ISO 16373	mg/kg	1	2	< RL
Disperse Brown 1	23355-64-8	ISO 16373	mg/kg	1	2	< RL
Disperse Orange 1	2581-69-3	ISO 16373	mg/kg	1	2	< RL
Disperse Yellow 3	2832-40-8	ISO 16373	mg/kg	1	2	< RL
Disperse Red 11	2872-48-2	ISO 16373	mg/kg	1	2	< RL
Disperse Red 1	2872-52-8	ISO 16373	mg/kg	1	2	< RL
Disperse Red 17	3179-89-3	ISO 16373	mg/kg	1	2	< RL
Disperse Blue 7	3179-90-6	ISO 16373	mg/kg	1	2	< RL
Disperse Blue 26	3860-63-7	ISO 16373	mg/kg	1	2	< RL
Disperse Yellow 49	54824-37-2	ISO 16373	mg/kg	1	2	< RL
Disperse Blue 35	12222-75-2	ISO 16373	mg/kg	1	2	< RL
Disperse Blue 124	61951-51-7	ISO 16373	mg/kg	1	2	< RL
Disperse Yellow 9	6373-73-5	ISO 16373	mg/kg	1	2	< RL
Disperse Orange 3	730-40-5	ISO 16373	mg/kg	1	2	< RL
Disperse Blue 35	56524-77-7	ISO 16373	mg/kg	1	2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

28.Flame Retardants

					Sample No.	D001
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	5	< RL
Decabromodiphenyl ether (DecaBDE)	1163-19-5	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< 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	5	< RL
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< RL
Octabromodiphenyl ether (OctaBDE)	32536-52-0	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< 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	5	< RL
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< RL
Polybromobiphenyls (PBB)	59536-65-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< RL
Tetra-bromo-bisphenol-A (TBBPA)	79-94-7	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< RL
Hexabromocyclododecane(HBCDD)	3194-55-6	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< 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	5	< 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	5	< RL
Short chain chlorinated paraffins,C10-C13 (SCCP)	85535-84-8	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	5	< RL
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Tris-(2-chloro-ethyl)-phosphate (TCEP)	115-96-8	ISO 22032	mg/kg	0.25	1	< RL
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ISO 22032	mg/kg	0.25	1	< RL
Tri-(2,3-di-bromo-propyl)-phosphate (TRIS)	126-72-7	ISO 22032	mg/kg	0.25	1	< RL
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	ISO 22032	mg/kg	0.25	1	< RL
Octabromodiphenyl ether (OctaBDE)	32536-52-0	ISO 22032	mg/kg	0.25	1	< RL
Bis-(2,3-di-bromo-propyl)-phosphate (BIS)	5412-25-9	ISO 22032	mg/kg	0.25	1	< RL
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	ISO 22032	mg/kg	0.25	1	< RL
Polybromobiphenyls (PBB)	59536-65-1	ISO 22032	mg/kg	0.25	1	< RL
Tetra-bromo-bisphenol-A (TBBPA)	79-94-7	ISO 22032	mg/kg	0.25	1	< RL
Hexabromocyclododecane(HBCDD)	3194-55-6	ISO 22032	mg/kg	0.25	1	< RL
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	ISO 22032	mg/kg	0.25	1	< RL
Tris-(1,3-di-chloro-iso-propyl)-phosphate (TDCP)	13674-87-8	ISO 22032	mg/kg	0.25	1	< RL
Short chain chlorinated paraffins,C10-C13 (SCCP)	85535-84-8	ISO 22032	mg/kg	0.25	1	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

29.Glycols

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Bis(2-methylethyl)ether	111-96-6	US EPA 8270	µg/L	50	50	< RL
2-Ethoxyethanol	110-80-5	US EPA 8270	µg/L	50	50	< RL
2-Ethyoxyethyl acetate	111-15-9	US EPA 8270	µg/L	50	50	< RL
Ethylene glycol dimethyl ether	110-71-4	US EPA 8270	µg/L	50	50	< RL
2-Methoxyethanol	109-86-4	US EPA 8270	µg/L	50	50	< RL
2-Methoxyethyl acetate	110-49-6	US EPA 8270	µg/L	50	50	< RL
2-Methoxypropyl acetate	70657-70-4	US EPA 8270	µg/L	50	50	< RL
Triethylene glycol dimethyl ether	112-49-2	US EPA 8270	µg/L	50	50	< RL
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Bis(2-methylethyl)ether	111-96-6	US EPA 8270	µg/L	50	50	< RL
2-Ethoxyethanol	110-80-5	US EPA 8270	µg/L	50	50	< RL
2-Ethyoxyethyl acetate	111-15-9	US EPA 8270	µg/L	50	50	< RL
Ethylene glycol dimethyl ether	110-71-4	US EPA 8270	µg/L	50	50	< RL
2-Methoxyethanol	109-86-4	US EPA 8270	µg/L	50	50	< RL
2-Methoxyethyl acetate	110-49-6	US EPA 8270	µg/L	50	50	< RL
2-Methoxypropyl acetate	70657-70-4	US EPA 8270	µg/L	50	50	< RL
Triethylene glycol dimethyl ether	112-49-2	US EPA 8270	µg/L	50	50	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

30.Halogenated Solvents

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
1,2-dichloroethane	107-06-2	US EPA 8260B	µg/L	1	1	< RL
Methylene chloride	75-09-2	US EPA 8260B	µg/L	1	1	< RL
Trichloroethylene	79-01-6	US EPA 8260B	µg/L	1	1	< RL
Tetrachloroethylene	127-18-4	US EPA 8260B	µg/L	1	1	< RL
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
1,2-dichloroethane	107-06-2	US EPA 8010	mg/kg	0.3	2	< RL
Methylene chloride	75-09-2	US EPA 8010	mg/kg	0.3	2	< RL
Trichloroethylene	79-01-6	US EPA 8010	mg/kg	0.3	2	< RL
Tetrachloroethylene	127-18-4	US EPA 8010	mg/kg	0.3	2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

31.Organotin Compounds

					Sample No.	D001
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
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Mono-,di-and tri-methyltin derivatives	Multiple	ISO 23161, 2009	mg/kg	0.01	0.2	< RL
Mono-,di-and tri-butyltin derivatives	Multiple	ISO 23161, 2009	mg/kg	0.01	0.2	< RL
Mono-,di-and tri-phenyltin derivatives	Multiple	ISO 23161, 2009	mg/kg	0.01	0.2	< RL
Mono-,di-and tri-octyltin derivatives	Multiple	ISO 23161, 2009	mg/kg	0.01	0.2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

32.Perfluorinated and Polyfluorinated Chemicals (PFCs)

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
PFOS	1763-23-1	DIN 38407-42 (modified)	µg/L	0.01	0.01	< RL
PFOA	335-67-1	DIN 38407-42 (modified)	µg/L	0.01	0.01	0.18
PFBS	375-73-5 29420-49-3 29420-43-3	DIN 38407-42 (modified)	µg/L	0.01	0.01	< RL
PFHxA	307-24-4	DIN 38407-42 (modified)	µg/L	0.01	0.01	0.06
8:2 FTOH	678-39-7	DIN 38407-42 (modified)	µg/L	1	1	< RL
6:2 FTOH	647-42-7	DIN 38407-42 (modified)	µg/L	1	1	< RL
Conclusion					--	Not Comply

					Sample No.	I001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
PFOS	1763-23-1	DIN 38407-42 (modified)	µg/L	0.01	0.01	< RL
PFOA	335-67-1	DIN 38407-42 (modified)	µg/L	0.01	0.01	0.23
PFBS	375-73-5 29420-49-3 29420-43-3	DIN 38407-42 (modified)	µg/L	0.01	0.01	< RL
PFHxA	307-24-4	DIN 38407-42 (modified)	µg/L	0.01	0.01	0.14
8:2 FTOH	678-39-7	DIN 38407-42 (modified)	µg/L	1	1	< RL
6:2 FTOH	647-42-7	DIN 38407-42 (modified)	µg/L	1	1	< RL
Conclusion					--	No Comment

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
PFOS	1763-23-1	DIN 38407-42	mg/kg	0.05	0.10	< RL
PFOA	335-67-1	DIN 38407-42	mg/kg	0.05	0.10	< RL
PFBS	375-73-5 29420-49-3 29420-43-3	DIN 38407-42	mg/kg	0.05	0.10	< RL
PFHxA	307-24-4	DIN 38407-42	mg/kg	0.05	0.10	< RL
8:2 FTOH	678-39-7	DIN 38407-42	mg/kg	1	1	< RL
6:2 FTOH	647-42-7	DIN 38407-42	mg/kg	1	1	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

33.Phthalates - Including all other esters of phthalic acid

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Di(ethylhexyl) phthalate (DEHP)	117-81-7	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-iso-decyl phthalate (DIDP)	26761-40-0	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-Isononyl Phthalate (DINP)	28553-12-0	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-n-butyl phthalate (DBP)	84-74-2	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Butyl benzyl phthalate (BBP)	85-68-7	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Dinonyl phthalate (DNP)	84-76-4	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Diethyl phthalate (DEP)	84-66-2	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-n-propyl phthalate (DPRP)	131-16-8	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-isobutyl phthalate (DIBP)	84-69-5	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-cyclohexyl phthalate (DCHP)	84-61-7	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Di-iso-octyl phthalate (DIOP)	27554-26-3	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	US EPA 8270D, ISO 18856	µg/L	10	10	< RL
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Di(ethylhexyl) phthalate (DEHP)	117-81-7	US EPA 3550	mg/kg	1	2	< RL
Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	US EPA 3550	mg/kg	1	2	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	US EPA 3550	mg/kg	1	2	< RL
Di-iso-decyl phthalate (DIDP)	26761-40-0	US EPA 3550	mg/kg	1	2	< RL
Di-Isononyl Phthalate (DINP)	28553-12-0	US EPA 3550	mg/kg	1	2	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	US EPA 3550	mg/kg	1	2	< RL
Di-n-butyl phthalate (DBP)	84-74-2	US EPA 3550	mg/kg	1	2	< RL
Butyl benzyl phthalate (BBP)	85-68-7	US EPA 3550	mg/kg	1	2	< RL
Dinonyl phthalate (DNP)	84-76-4	US EPA 3550	mg/kg	1	2	< RL
Diethyl phthalate (DEP)	84-66-2	US EPA 3550	mg/kg	1	2	< RL
Di-n-propyl phthalate (DPRP)	131-16-8	US EPA 3550	mg/kg	1	2	< RL
Di-isobutyl phthalate (DIBP)	84-69-5	US EPA 3550	mg/kg	1	2	< RL
Di-cyclohexyl phthalate (DCHP)	84-61-7	US EPA 3550	mg/kg	1	2	< RL
Di-iso-octyl phthalate (DIOP)	27554-26-3	US EPA 3550	mg/kg	1	2	< RL
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	US EPA 3550	mg/kg	1	2	< RL
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	US EPA 3550	mg/kg	1	2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

34.Polycyclic Aromatic Hydrocarbons (PAHs)

					Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzo(a)pyrene	50-32-8	US EPA 8270	µg/L	1	1	< RL
Anthracene	120-12-7	US EPA 8270	µg/L	1	1	< RL
Pyrene	129-00-0	US EPA 8270	µg/L	1	1	< RL
Benzo[ghi]perylene	191-24-2	US EPA 8270	µg/L	1	1	< RL
Benzo(e)pyrene	192-97-2	US EPA 8270	µg/L	1	1	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	US EPA 8270	µg/L	1	1	< RL
Benzo(j)fluoranthene	205-82-3	US EPA 8270	µg/L	1	1	< RL
Benzo[b]fluoranthene	205-99-2	US EPA 8270	µg/L	1	1	< RL
Fluoranthene	206-44-0	US EPA 8270	µg/L	1	1	< RL
Benzo[k]fluoranthene	207-08-9	US EPA 8270	µg/L	1	1	< RL
Acenaphthylene	208-96-8	US EPA 8270	µg/L	1	1	< RL
Chrysene	218-01-9	US EPA 8270	µg/L	1	1	< RL
Dibenz(a,h)anthracene	53-70-3	US EPA 8270	µg/L	1	1	< RL
Benzo[a]anthracene	56-55-3	US EPA 8270	µg/L	1	1	< RL
Acenaphthene	83-32-9	US EPA 8270	µg/L	1	1	< RL
Phenanthrene	85-01-8	US EPA 8270	µg/L	1	1	< RL
Fluorene	86-73-7	US EPA 8270	µg/L	1	1	< RL
Naphthalene	91-20-3	US EPA 8270	µg/L	1	1	< RL
Conclusion					--	Comply

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzo(a)pyrene	50-32-8	US EPA 8270	mg/kg	0.2	0.2	< RL
Anthracene	120-12-7	US EPA 8270	mg/kg	0.2	0.2	< RL
Pyrene	129-00-0	US EPA 8270	mg/kg	0.2	0.2	< RL
Benzo[ghi]perylene	191-24-2	US EPA 8270	mg/kg	0.2	0.2	< RL
Benzo(e)pyrene	192-97-2	US EPA 8270	mg/kg	0.2	0.2	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	US EPA 8270	mg/kg	0.2	0.2	< RL
Benzo(j)fluoranthene	205-82-3	US EPA 8270	mg/kg	0.2	0.2	< RL
Benzo[b]fluoranthene	205-99-2	US EPA 8270	mg/kg	0.2	0.2	< RL
Fluoranthene	206-44-0	US EPA 8270	mg/kg	0.2	0.2	< RL
Benzo[k]fluoranthene	207-08-9	US EPA 8270	mg/kg	0.2	0.2	< RL
Acenaphthylene	208-96-8	US EPA 8270	mg/kg	0.2	0.2	< RL
Chrysene	218-01-9	US EPA 8270	mg/kg	0.2	0.2	< RL
Dibenz(a,h)anthracene	53-70-3	US EPA 8270	mg/kg	0.2	0.2	< RL
Benzo[a]anthracene	56-55-3	US EPA 8270	mg/kg	0.2	0.2	< RL
Acenaphthene	83-32-9	US EPA 8270	mg/kg	0.2	0.2	< RL
Phenanthrene	85-01-8	US EPA 8270	mg/kg	0.2	0.2	< RL
Fluorene	86-73-7	US EPA 8270	mg/kg	0.2	0.2	< RL
Naphthalene	91-20-3	US EPA 8270	mg/kg	0.2	0.2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

35.Volatile Organic Compounds (VOC)

					Sample No.	D001
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

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzene	71-43-2	US EPA 5035	mg/kg	0.1	2	< RL
Xylene	1330-20-7	US EPA 5035	mg/kg	0.1	2	< RL
o-cresol	95-48-7	US EPA 5035	mg/kg	0.1	2	< RL
p-cresol	106-44-5	US EPA 5035	mg/kg	0.1	2	< RL
m-cresol	108-39-4	US EPA 5035	mg/kg	0.1	2	< RL
Conclusion					--	Comply

Abbreviation: < =less than
RL =reporting limit
µg/L = microgram per liter
mg/kg = milligram per kilogram

Sampling Point Indication (Map)

GPS Map

Discharged Wastewater: 30.956832, 120.634906
Sludge : 30.956322, 120.635552
Incoming water: 30.956960, 120.637074

Sampling Photo

Factory Gate

Factory Layout

Factory Other Photo

Factory Other Photo

Discharged Wastewater

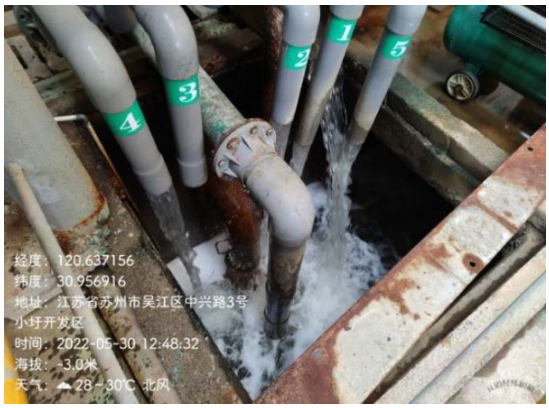
Discharged Wastewater

Sampling Photo

Sludge

Sludge

Incoming Water



Incoming Water

APPENDIX A
Regulatory Requirement

表1 现有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）

序号	污染物项目	限值		污染物排放监控位置
		直接排放	间接排放	
1	pH 值	6~9	6~9	企业废水总排放口
2	化学需氧量(COD_{Cr})	100	200	
3	五日生化需氧量	25	50	
4	悬浮物	60	100	
5	色度	70	80	
6	氨氮	12 20 (1)	20 30 (1)	
7	总氮	20 35 (1)	30 50 (1)	
8	总磷	1.0	1.5	
9	二氧化氯	0.5	0.5	
10	可吸附有机卤素（AOX）	15	15	
11	硫化物	1.0	1.0	
12	苯胺类	1.0	1.0	
13	六价铬	0.5		车间或生产设施废水排放口
单位产品基准排水量（m^3/t标准品）2)	棉、麻、化纤及混纺机织物	175		排水量计量位置与污染物排放监控位置相同
	真丝绸机织物（含练白）	350		
	纱线、针织物	110		
	精梳毛织物	560		
	粗梳毛织物	640		

注：（1）蜡染行业执行该限值。

（2）当产品不同时，可按 FZ/T 01002-2010 进行换算。

- END -

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

1. Scope

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to Mainland China, Hong Kong and Taiwan.The client hereof includes:

(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use;

(ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.

1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.

1.3 Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

1.4 In the context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. 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.

3. Coming into effect and duration of contracts

3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.

3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a three-month notice prior to the end of the contractual term.

4. Scope of services

4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking the correctness and functionality of parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such) are not owed. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.

4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.

4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organisations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.

4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.

4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

5. Performance periods/dates

5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.

5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.

5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.

5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.

5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

5.6 If the client is obliged 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 TÜV Rheinland, which enable the client to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

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.

6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. 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:

a) It has required statutory qualifications;

b) The product, service or management system to be certified complies with applicable laws and regulations; and

c) 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.

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.

6.3 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.

7. Prices

7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.

7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.

7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. Payment terms

8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.

8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

8.5 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.

8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.

8.10 TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to setoff against any fees paid by the client under any contracts, agreement and/or quotations reached with TÜV Rheinland.

9. Acceptance of work

9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.

9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundmental breach of contract by TÜV Rheinland.

9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.

9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.

9.5 During the Follow-Audit stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit date within two (2) weeks before the agreed date, TÜV Rheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. Confidentiality

10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing techniques and materials, tangible or intangible, that are supplied, transferred or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic format. Confidential information is expressly not the data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (non-personal and not proprietary to the client) within the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services.10.2. The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g. Wechat, etc. Unauthorized by TÜV Rheinland) to send any confidential information to TÜV Rheinland. Instead, the client shall send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakages to be caused by the adoption of any unauthorized confidential information sharing methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:

a) may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party;

b) may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accreditation bodies or third parties that are involved in the performance of the contract;

c) must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.

10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.

10.5 Information for which the receiving party can furnish proof that:

a) it was generally known at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party; or

b) it was disclosed to the receiving party by a third party entitled to disclose this information; or

c) the receiving party already possessed this information prior to disclosure by the disclosing party; or

d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidentiality clause.

10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.

10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights and rights of use, publications

11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use").

11.2 The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement.The client may only use such reports, expert reports/opinions, test reports/results, results calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.

11.3 The transfer of right of use of the generated work results regulated in clause 11.2. of the GTCB is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.

11.4 The client may use work results only complete and unshortened. The client may only pass on the work results to third parties unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.

11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulaed in clause 11.2, and any quotaion of the introduction of TÜV Rheinland need the prior written approval of TÜV Rheinland in each individual case. Besides, the client ensures that the aforesaid use shall comply with relevant applicable laws, regulations and relevant rules (including but not limited to specific applicable testing and certification rules, etc.).

11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications.

11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of TÜV Rheinland.

12. Liability of TÜV Rheinland

12.1 Irrespective of the legal basis, to the fullest extent 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 reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 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 fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.

12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, physical injury or illness.

12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.

12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.

12.6 The limitation periods for claims for damages shall be based on statutory provisions.

12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Export control

13.1 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.

13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TÜV Rheinland.

14. Data protection notice

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of fulfilling this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, we may also process sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has to be disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

15. Retention of test material and documentation

15.1 The test samples submitted by the client to TÜV Rheinland 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.

15.2 Charges apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.

15.3 If reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations must be made available to TÜV Rheinland upon request promptly and free of charge. If 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 pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

15.4 The retention period for the documentation shall be 10 (ten) years after the expiry of the test mark certificates or shall meet the applicable legal requirements for EU/EC certificates of conformity and GS mark certificates.

15.5 The costs of the handover and dispatch of the test samples for storage on the client's premises are borne by the client. TÜV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

16. Termination of the contract

16.1 Notwithstanding clause 3.3 of the GTCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to a loss or a suspension of its accreditation or notification.

16.2 For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract which includes but not limited to the following:
a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company which are relevant for certification or signs of such changes;
b) the client misuses the certificate or certification mark or uses it in violation of the contract;
c) in the event of several consecutive delays in payment (at least three times);
d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship.
e) in the event of any serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;
f) if TÜV Rheinland, for reasons beyond its control, is temporarily or finally not able or entitled to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, loss of accreditation or notification, or other.

16.3 In the event of termination with written notice by TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term as lump-sum compensation. The client reserves the right to prove that there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.

16.4 TÜV Rheinland is also entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. Force Majeure

17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a 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 conclusion of the contract; and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the affected Party.

17.2. In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1 of this Clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion and revolution, military or usurped power, insurrection, act of terrorism, sabotage or piracy; (iii) currency and trade restriction, embargo, sanction; (iv) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vi) explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunication, information system or energy; (vii) general labor disturbance such as boycott, strike and lock-out, go-slow, occupation of factories and premises.

17.3. The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract and from any liability in damages or from any other contractual remedy for breach of contract, from the time at which the impediment causes inability to perform, provided that the notice thereof is given without delay. If notice thereof is not given without delay, the relief is effective from the time at which notice thereof reaches the other Party. Where the effect of the impediment or event invoked is temporary, the above consequences shall apply only as long as the impediment invoked impedes performance by the affected Party. Where the duration of the impediment invoked has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, either Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. Hardship

18.1. 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 contract.

18.2. Notwithstanding paragraph 1 of this Clause, where a Party proves that:

(a) The continued performance of its contractual duties has 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

(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

18.3. Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. Partial invalidity, written form, place of jurisdiction and dispute resolution

19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.

19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.

19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:

a) if TÜV Rheinland in question is legally registered and existing in the People'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 People's Republic of China.

b) if TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

c) if TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.

19.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.
Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:

a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.

b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association, Taipei to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.

c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.