

Name of Laboratory : SGS CAMBODIA LABORATORY  
Address : 1076 A-D, Street 371, Sangkat Stung Meanchey,  
Khan Meanchey, Phnom Penh, Kingdom of Cambodia  
Accreditation Number : Testing - 0129  
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Initial Issue Date : 26<sup>th</sup> August 2015  
Issue date : 23<sup>rd</sup> December 2022  
Expired date : 22<sup>nd</sup> December 2026  
Standard : ISO/IEC 17025:2017  
Reference No. : 0303/19514

## Scope of Laboratory Accreditation

Laboratory Name : SGS CAMBODIA LABORATORY

Address : 1076 A-D, Street 371, Phum Trea II Sangkat Stung Meanchey,  
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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1	Textiles	- Colour fastness to light : Xenon-Arc  - Colour fastness to laundering  - Colour fastness to laundering : Using a non-phosphate reference detergent incorporating a low-temperature bleach activator	ISO 105-B02 : 2014 Exposure Cycle A1 BS EN ISO 105-B02 : 2014 Exposure Cycle A1 AATCC Test Method 16.3-2020 (option 3)  ISO 105-C06 : 2010 BS EN ISO 105-C06 : 2010 AATCC Test Method 61-2013e (2020)  ISO 105-C08 : 2010 BS EN ISO 105-C08 : 2010

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Colour fastness to laundering : Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator</li> <li>- Colour fastness to drycleaning</li> <li>- Colour fastness to water</li> </ul>	<ul style="list-style-type: none"> <li>ISO 105-C09 : 2001/Amd 1 : 2003</li> <li>BS EN ISO 105-C09 : 2003</li> <li>ISO 105-D01 : 2010</li> <li>BS EN ISO 105-D01 : 2010</li> <li>AATCC Test Method 132-2013</li> <li>ISO 105-E01 : 2013</li> <li>BS EN ISO 105-E01 : 2013</li> <li>AATCC Test Method 107-2013</li> <li>GB/T 5713-2013</li> </ul>

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1 (cont.)	Textiles	- Colour fastness to sea water  - Colour fastness to chlorinated water (Swimming-pool water)  - Colour fastness to perspiration  - Colour fastness to bleaching : Hypochlorite	ISO 105-E02 : 2013  BS EN ISO 105-E02 : 2013  AATCC Test Method 106-2013  ISO 105-E03 : 2010  BS EN ISO 105-E03 : 2010  AATCC Test Method 162-2011  ISO 105-E04 : 2013  BS EN ISO 105-E04 : 2013  AATCC Test Method 15-2013  GB/T 3922-2013  BS EN 20105-N01 : 1995  ISO 105-N01 : 1993

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Colour fastness to chlorine and non-chlorine bleach</li> <li>- Colour fastness to rubbing</li> <li>- Colour fastness to crocking</li> <li>- Colour fastness to saliva</li> <li>- Colour fastness : Dye transfer in storage, Fabric-to-Fabric</li> </ul>	<ul style="list-style-type: none"> <li>AATCC TS 001</li> <li>ISO 105-X12 : 2016</li> <li>BS EN ISO 105-X12 : 2016</li> <li>ISO 105-X16 : 2016</li> <li>GB/T 3920-2008</li> <li>AATCC Test Method 8-2016</li> <li>AATCC TM 116 : 2018</li> <li>BVL B82.92-3 : 2011</li> <li>DIN 53160-1 : 2010</li> <li>GB/T 18886-2019</li> <li>AATCC 163 : 2020e</li> </ul>

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Phenolic yellowing</li> <li>- pH of aqueous extract 4.0 to 9.0</li> <li>- pH of water extract 4.0 to 9.0</li> <li>- Quantitative analysis of fibers               <ul style="list-style-type: none"> <li>- Mixture of polyamide with certain other fibers</li> <li>- Mixture of certain cellulose fibers with certain other fibers</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>ISO 105-X18 : 2007</li> <li>BS EN ISO 105-X18 : 2007</li> <li>ISO 3071 : 2020</li> <li>BS EN ISO 3071 : 2020</li> <li>GB/T 7573-2009</li> <li>AATCC Test Method 81-2016</li> <li>ISO 1833-7 : 2017</li> <li>BS EN ISO 1833-7 : 2017</li> <li>GB/T 2910.7-2009</li> <li>ISO 1833-11 : 2017</li> <li>BS EN ISO 1833-11 : 2017</li> <li>GB/T 2910.11-2009</li> </ul>

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Quantitative analysis of fiber</li> <li>- Mixtures of acrylic, certain modacrylics, certain chlorofibers, certain elastanes and certain other fibers</li> <li>- Mixtures of certain elastane with and certain other fibers</li> <li>- Qualitative analysis of fiber</li> <li>- Quantitative analysis of fiber :               <ul style="list-style-type: none"> <li>- moisture content</li> <li>- nonfibrous content</li> <li>- fiber composition</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>ISO 1833-20 : 2020</li> <li>BS EN ISO 1833-20 : 2020</li> <li>GB/T 2910.12-2009</li> <li>ISO 1833-20 : 2020</li> <li>BS EN ISO 1833-20 : 2019</li> <li>GB/T 2910.20-2009</li> <li>AATCC Test Method 20-2018</li> <li>AATCC Test Method 20A-2020</li> </ul>

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Identification of textile fibers</li> <li>- Free and hydrolysed formaldehyde (Water extraction method) 15 mg/kg to 300 mg/kg</li> <li>- Formaldehyde 15 mg/kg to 300 mg/kg</li> <li>- Formaldehyde 15 mg/kg to 300 mg/kg</li> <li>- Formaldehyde 4 mg/kg to 160 mg/kg</li> </ul>	<ul style="list-style-type: none"> <li>FZ/T 01057.1-2007</li> <li>FZ/T 01057.2-2007</li> <li>FZ/T 01057.3-2007</li> <li>FZ/T 01057.4-2007</li> <li>ISO 14184-1 : 2011</li> <li>EN ISO 14184-1 : 2011</li> <li>ISO 14184-2 : 2011</li> <li>AATCC Test Method 112-2014</li> <li>JIS L 1041 : 2011 method A</li> </ul>

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1 (cont.)	Textiles	- Formaldehyde 10 mg/kg to 300 mg/kg  - Formaldehyde 20 mg/kg to 300 mg/kg  - Dimensional change : Preparation, marking and measuring of fabric specimens and garments -10 % to 10 %  - Dimensional change : Washing and drying procedures -10 % to 10 %	JIS L 1041 : 2011 method B  GB/T 2912.1 : 2009  ISO 3759 : 2011 BS EN ISO 3759 : 2011  ISO 6330 : 2021 (Washing machine Type A) BS EN ISO 6330 : 2021 (Washing machine Type A)

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1 (cont.)	Textiles	- Dimensional change : Washing and drying -10 % to 10 %  - Dimensional change of fabrics after laundering -10 % to 10 %  - Dimensional change of garments after laundering -10 % to 10 %  - Spirality after laundering : Wale spirality change in knitted garments 0.1 % to 10 %	ISO 5077 : 2007  BS EN ISO 5077 : 2008  AATCC Test Method 135-2018  AATCC Test Method 150-2018  ISO 16322-1 : 2005  BS ISO 16322-1 : 2005

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Spirality after laundering : Woven and knitted fabrics 0.1 % to 10 %</li> <li>- Spirality after laundering : Woven and knitted garments 0.1 % to 10 %</li> <li>- Skewness change after home laundering 0.1 % to 10 %</li> <li>- Tensile properties (Strip method) - maximum force 50 N to 4 500 N</li> <li>- Elongation at maximum force 5% to 200%</li> </ul>	<ul style="list-style-type: none"> <li>ISO 16322-2 : 2021</li> <li>ISO 16322-3 : 2021 BS ISO 16322-3 : 2021</li> <li>AATCC Test Method 179-2019</li> <li>ISO 13934-1 : 2013 BS EN ISO 13934-1 : 2013 ASTM D 5035-11 (R2019)</li> </ul>

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Tensile properties (Grab method)</li> <li>- maximum force 50 N to 4 500 N</li> <li>- Tear force (Elmendorf method) 2 N to 60 N</li> <li>- Abrasion resistance of fabrics (Martindale method) :</li> <li>- Specimen breakdown</li> </ul>	<ul style="list-style-type: none"> <li>ISO 13934-2 : 2014</li> <li>BS EN ISO 13934-2 : 2014</li> <li>ASTM D 5034 : 2021</li> <li>ISO 13937-1 : 2000 / Cor.1 : 2004</li> <li>BS EN ISO 13937-1 : 2000</li> <li>ASTM D 1424 : 2021</li> <li>ISO 12947-2 : 2016 (except section 5.4 and 7.5.1)</li> <li>BS EN ISO 12947-2 : 2016 (except section 5.4 and 7.5.1)</li> <li>ASTM D 4966-12 (R2016), option 1</li> </ul>

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1 (cont.)	Textiles	- Abrasion resistance of fabrics (Martindale method) : - Mass loss  - Appearance change	ISO 12947-3 : 1998 / Cor.1 : 2002 (except section 7.5) BS EN ISO 12947-3 : 1999 / Cor.1 : 2008 (except section 7.5) ASTM D 4966-12 (R2016), option 3  ISO 12947-4 : 1998 / Cor.1 : 2002 BS EN ISO 12947-4 : 1999 ASTM D 4966-12 (R2016), option 2

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1 (cont.)	Textiles	- Pilling resistance : - Pilling box method  - Random tumble pilling method  - Martindale method  - Modified martindale method  - Mass per unit area 1 g/m <sup>2</sup> to 600 g/m <sup>2</sup>	ISO 12945-1 : 2020 BS EN ISO 12945-1 : 2020  ASTM D3512/D3512M-16  ASTM D4970/D4970M-16  ISO 12945-1 : 2020 BS EN ISO 12945-1 : 2020  ISO 3801 : 1977 method 5 BS EN 12127 : 1998 ASTM D 3776/D3776M-09a (R2021), option C

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1 (cont.)	Textiles	- Maximum force to seam rupture (Strip method) 50 N to 4 500 N  - Maximum force to seam rupture (Grab method) 50 N to 4 500 N  - Slippage resistance of yarns at a seam in woven fabrics (Fixed seam opening method) 50 N to 4 500 N	ISO 13935-1 : 2014 BS EN ISO 13935-1 : 2014  ISO 13935-2 : 2014 BS EN ISO 13935-2 : 2014 ASTM D 1683/D1683M-17, Procedure A  ISO 13936-1 : 2004 BS EN ISO 13936-1 : 2004

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Slippage resistance of yarns at a seam in woven fabrics : (Fixed load method) 50 N to 4 500 N</li> <li>- Bursting strength :               <ul style="list-style-type: none"> <li>- Pneumatic method 200 kPa to 1 000 kPa</li> <li>- Diaphragm pressure</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>ISO 13936-2 : 2004</li> <li>BS EN ISO 13936-2 : 2004</li> <li>ISO 13938-2 : 2019</li> <li>BS EN ISO 13938-2 : 2019</li> <li>ASTM D3786/D3786M-18</li> </ul>

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Flammability :</li> <li>- Clothing textiles</li>   <li>- Apparel textiles</li>   <li>- Children's sleepwear (Sizes 0 through 6X (FF3-71))</li>   <li>- Children's sleepwear (Sizes 7 through 14 (FF5-74))</li>   <li>- Flame spread rate</li>   <li>- Yarn count</li> </ul>	<ul style="list-style-type: none"> <li>16 CFR part 1610</li> <li>CAN/CGSB-4.2 No. 27.5-2008</li>   <li>ASTM D 1230-17</li>   <li>16 CFR part 1615</li>   <li>16 CFR part 1616</li>   <li>GB/T 14644 - 2014</li>   <li>ISO 7211/5 : 2020, Method A</li> </ul>

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Warp (end) and filling (pick) count of woven fabrics</li> <li>- Tolerances for knitted fabrics</li> <li>- Threads per unit length of woven fabrics</li> <li>- Small part (Children articles)</li> <li>- Small objects (Children articles)</li> <li>- Sharp point (Children articles)</li> </ul>	<ul style="list-style-type: none"> <li>ASTM D 3775-17</li> <li>ASTM D 3887-96 (R2008), Section 12</li> <li>ISO 7211/2 : 1984, Method B</li> <li>16 CFR 1501.4</li> <li>ASTM F 963-17, section 4.6</li> <li>16 CFR 1500.48 (d)</li> </ul>

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1 (cont.)	Textiles	<ul style="list-style-type: none"> <li>- Accessible point (Children articles)</li> <li>- Sharp edges (Children articles)</li> <li>- Accessible edges (Children articles)</li> <li>- Torque test (Children articles)</li> <li>- Torque test for Removal of Components (Children articles)</li> </ul>	<ul style="list-style-type: none"> <li>ASTM F 963-17, section 4.9</li> <li>16 CFR 1500.49 (d)</li> <li>ASTM F 963-17, section 4.7</li> <li>16 CFR 1500.51 (e)</li> <li>16 CFR 1500.52 (e)</li> <li>16 CFR 1500.53 (e)</li> <li>ASTMF 963-17, section 8.8</li> </ul>

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1 (cont.)	Textiles	- Tension test (Children articles)  - Tension test for Removal of Components (Children articles)  - Normal use testing (Children articles)  - Impact test (Children articles)	16 CFR 1500.51 (f)  16 CFR 1500.52 (f)  16 CFR 1500.53 (f)  ASTM F963-17, section 8.9  ASTM F963-17, section 8.5  ASTM F963-17, section 8.7  16 CFR 1500.51 (b)  16 CFR 1500.52 (b)  16 CFR 1500.53 (b)

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1 (cont.)	Textiles	- Compression test (Children articles)	ASTM F963-17, section 8.10 16 CFR 1500.51 (g) 16 CFR 1500.52 (g) 16 CFR 1500.53 (g)
		- Flexure test (Children articles)	ASTM F963-17, section 8.12 16 CFR 1500.51 (d) 16 CFR 1500.52 (d) 16 CFR 1500.53 (d)
		- Azo colorants 5 mg/kg to 60 mg/kg	EN 14362-1 : 2012
		- Azo colorants 5 mg/kg to 30mg/kg	GB/T 17592-2011

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1 (cont.)	Textiles	- Azo colorants 5 mg/kg to 150 mg/kg	ISO 14362-1 : 2017
		- Azo colorants 5 mg/kg to 60 mg/kg	BS EN 14362-1 : 2003 BS EN 14362-2 : 2003
		- 4-Aminoazobenzene 5 mg/kg to 150 mg/kg	BS EN 14362-3 : 2012
		- 4-Aminoazobenzene 2 mg/kg to 200 mg/kg	GB/T 23344-2009
		- 4-Aminoazobenzene 5 mg/kg to 150 mg/kg	ISO 14362-3 : 2017
		- Disperse dyestuffs 6 mg/kg to 15 mg/kg	DIN 54231 : 2005
		- Alkylphenols 3 mg/kg to 60 mg/kg	In – house method : PNCH-009 based on ISO 18254-1 : 2016

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1 (cont.)	Textiles	- Alkylphenol ethoxylates 1 mg/kg to 60 mg/kg  - Phthalate 30 mg/kg to 1 000 mg/kg  - COC 0.1 mg/kg to 1.0 mg/kg  - Nickel Release 0.50 $\mu\text{g}/\text{cm}^2/\text{week}$ to 0.83 $\mu\text{g}/\text{cm}^2/\text{week}$	In – house method : PNCH-009 based on ISO 18254-1 : 2016  ISO 14389 : 2014  EN 17137 : 2018  EN 12472-2005 A1 2009 EN 1811-2011 A1-2015

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Laboratory Name : SGS CAMBODIA LABORATORY

Address : 1076 A-D, Street 371, Phum Trea II Sangkat Stung Meanchey,  
Khan Meanchey, Phnom Penh 120603, Kingdom of Cambodia

Accreditation Number : Testing - 0129

Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Textiles	- Extractable chlorophenol - Chlorophenol (CPs) 0.025 mg/kg to 2.5 mg/kg - Phenyl phenol (OPP) 0.05 mg/kg to 25 mg/kg	In - house method : PNCH-009 based on LFGB, BVL B 82.02-8:2001
2	Leather	- Color fastness to cycles of to and fro Rubbing  - Color fastness to Perspiration  - Color fastness to Water	ISO 11640 : 2018  ISO 11641 : 2012  ISO 11642 : 2012

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2 (cont.)	Leather	- Azo colorants 5 mg/kg to 60 mg/kg	ISO 17234-1 : 2015
		- 4-Aminoazobenzene 5 mg/kg to 150 mg/kg	ISO 17234-2 : 2011
		- Formaldehyde 5 mg/kg to 250 mg/kg	ISO 17226-1 : 2018 (HPLC method)
		- Formaldehyde 1.25 mg/kg to 60 mg/kg	ITX-GB/T 19941.2/2005D (HPLC/DAD method)
		- Formaldehyde 3.8 mg/kg to 150 mg/kg	ISO 17226-2 : 2018 (Colorimetric method)
		- Formaldehyde 2.5 mg/kg to 250 mg/kg	ITX-GB/T 19941.2/2005A (Colorimetric method)

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2 (cont.)	Leather	- Chromium (VI) 3.2 mg/kg to 125 mg/kg	ISO 17075-1 : 2017
		- Alkylphenols 2 mg/kg to 60 mg/kg	In – house method : PNCH-009 based on ISO 18218-1 : 2015
		- Alkylphenol ethoxylates 1 mg/kg to 60 mg/kg	
		- pH 4.0 to 6.0	ISO 4045 : 2018
		- Hexavalent chromium 0.5 mg/kg to 25 mg/kg	ISO 17075-2 : 2017

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3	Children's product	- Lead in metal products 50 mg/kg to 2 500 mg/kg	CPSC-CH-E1001-08.3 : 2012
		- Lead in nonmetal products 50 mg/kg to 2 500 mg/kg	CPSC-CH-E1002-08.3 : 2012
		- Lead in paint and surface coatings 10 mg/kg to 500 mg/kg	CPSC-CH-E1003-09.1 : 2011
		- Phthalates 30 mg/kg to 3 000 mg/kg	CPSC-CH-C1001-09.4 : 2018

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3 (cont.)	Children's product	<ul style="list-style-type: none"> <li>- Cords and drawstrings on children's clothing</li> <li>- General</li> <li>- Head, neck and upper chest area on garments for young children</li> <li>- Head, neck and upper chest area on garments for older children and young persons</li> <li>- Chest and waist area</li> <li>- Lower edge of garments which hang below the crotch</li> <li>- Back area</li> <li>- Sleeves</li> <li>- Other parts of the garment</li> <li>- Cords and drawstrings on garments for infants and children</li> </ul>	<p>BS EN 14682 : 2014</p> <p>Clause 3.1</p> <p>Clause 3.2</p> <p>Clause 3.3</p> <p>Clause 3.4</p> <p>Clause 3.5</p> <p>Clause 3.6</p> <p>Clause 3.7</p> <p>Clause 3.8</p> <p>GB 31701-2015</p> <p>Clause 4.4.3</p>

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4	Plastics	- Total Cadmium 2 mg/kg to 100 mg/kg  - Bisphenol A MSD227 0.50 mg/kg to 20 mg/kg DAD230 0.50 mg/kg to 20 mg/kg	BS EN 1122 : 2001, Method B  Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008, Japan External Trade Organization, JETRO, section II, B-8, January 2009
5	Footwear	- Organotin compounds 0.04 mg/kg to 4 mg/kg  - Dimethylformamide 0.5 mg/kg to 200 mg/kg	ISO/TS 16179 : 2012  ISO/TS 16189 : 2013

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6	Wastewater	- Total suspended solids dried at 103 °C to 105 °C 7 mg/L to 8 890 mg/L  - pH 4.0 to 9.0  - BOD 3 mg/L to 2 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 2540 D  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500 – H <sup>+</sup> B  In - house method : PNCH - 027 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 5210 B

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6 (cont.)	Wastewater	- COD 15 mg/L to 2 960 mg/L  - Color 1 CU to 30 CU  - True color 1.9 m <sup>-1</sup> to 20.8 m <sup>-1</sup> at 436 nm 0.9 m <sup>-1</sup> to 10.6 m <sup>-1</sup> at 525 nm 0.4 m <sup>-1</sup> to 5.0 m <sup>-1</sup> at 620 nm	In - house method : PNCH - 028 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 5220 C  In - house method : PNCH - 029 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 2120 C  ISO 7887 : 2011 Method B

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6 (cont.)	Wastewater	- Total solids dried at 103 °C to 105 °C 70 mg/L to 19 700 mg/L	In - house method : PNCH - 085 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 2540 B

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