



National Water Services Commission

**GUIDELINES FOR
VOLUNTARY WATER
EFFICIENT PRODUCTS
LABELLING SCHEME**

Revision 8

**Industry Development & Audit Division
12 April 2022**

CONTENTS

ACKNOWLEDGEMENT

1.0	INTRODUCTION	1
2.0	THE PURPOSE OF WEPLS	1
3.0	INTERPRETATION OF TERMINOLOGY	2
4.0	PRODUCTS COVERED.....	4
5.0	REGISTRATION.....	5
5.1	Eligibility	5
5.2	Pre-requisites	5
5.3	Testing of Product Water Consumption	5
5.4	Testing Laboratory.....	5
5.5	Test Report.....	6
5.6	Quality Management System.....	6
5.7	Application for Registration.....	6
5.8	Service Charges	7
5.9	Processing.....	7
5.10	Water Efficiency Rating	7
5.11	Validity.....	8
5.12	Listing of Water Efficient Products.....	8
6.0	WATER EFFICIENCY LABEL	8
6.1	Labelling	8
6.2	Label Design and Version	8
6.3	Colour Scheme and Dimension	8
6.4	Paper Quality.....	9
6.5	Information on the Label.....	9
6.6	Guidance for Label Use.....	9
7.0	OBLIGATIONS OF THE WEPLS SUPPLIER.....	11
7.1	General Obligations.....	11
7.2	Notification of Change in Particulars.....	11
7.3	Notification of Modification to Registered Product	11
7.4	Notification of Change of Distributor	11

8.0	ENFORCEMENT	12
8.1	Purpose	12
8.2	Legal Provision	12
9.0	DISCLAIMER.....	12
10.0	ENQUIRIES.....	12

ANNEXES

Annex I	Testing of Water Consumption for Products
Annex II	Water Efficiency Rating
Annex III	Water Efficiency Label

ACKNOWLEDGEMENT

Suruhanjaya Perkhidmatan Air Negara (SPAN) would like to extend our gratitude to the following departments/organisations/agencies/associations for their contributions in developing the Guidelines:

Jabatan Bekalan Air, Kementerian Tenaga, Teknologi Hijau dan Air Malaysia
Department of Standard Malaysia, Kementerian Perdagangan Antarabangsa dan Industri

IKRAM QA Services Sdn. Bhd

SIRIM QAS International Sdn. Bhd

Pertubuhan Pengilang Malaysia (FMM)

Persatuan Perunding Jurutera Malaysia (ACEM)

Institut Jurutera Malaysia (IEM)

Pertubuhan Arkitek Malaysia (PAM)

Persatuan Pengedar Bahan Pembinaan Malaysia (BMDAM)

Perbadanan Bekalan Air Pulau Pinang Sdn. Bhd

Syarikat Bekalan Air Selangor Sdn. Bhd

SAJ Holdings Sdn. Bhd

Lembaga Air Perak

DOE Group of Companies

Clayton Industries Sdn Bhd / Clayton Corporation

Taigate Industries Sdn Bhd

Forum Air Malaysia

Persatuan Pengamatan Air Pulau Pinang (Water Watch Penang)

Persatuan Pengedar Barangan Elektrik Malaysia (MEADA)

GUIDELINES FOR VOLUNTARY WATER EFFICIENT PRODUCTS LABELLING SCHEME

1.0 INTRODUCTION

- 1.1 Water Efficient Products Labelling Scheme (hereinafter referred to as WEPLS) is one of the water conservation initiatives taken by Suruhanjaya Perkhidmatan Air Negara (SPAN) in promoting good practices of water demand management in Malaysia.
- 1.2 Products participating in WEPLS will incorporate a water efficiency label that serves to inform the consumers of its efficiency rating. Consumers will be able to take these factors into account when making their purchasing decision.
- 1.3 WEPLS adopts three (3) star rating labelling system. The more stars on the label mean that the product is more efficient and consumes lesser water, thus promoting water conservation.
- 1.4 WEPLS requires the water efficient products and the suppliers to be registered with SPAN. The products are to be labelled with water efficiency rating in accordance to the rating set in the Guidelines.
- 1.5 Participation of WEPLS by the suppliers is on a **voluntary basis** at this juncture in order to allow a lead time for market to transform towards more water efficient products. WEPLS is not intended to create any barrier to trade.

2.0 THE PURPOSE OF WEPLS

- 2.1 The main purpose of WEPLS is to encourage the suppliers in the development and marketing of water efficient products as part of the water conservation measures, as well as to raise the awareness of the public on the availability of water efficient products.

2.2 Water efficient labelling on the products will facilitate consumers to clearly identify more water efficient products from the less efficient ones at the point of purchase, therefore, consumers can make well informed purchasing decision.

2.3 In addition, implementation of WEPLS will also promote other benefits such as:

- (i) conserve water by further reducing water consumption through use of water efficient product;
- (ii) encourage a healthy water consuming habit among consumers;
- (iii) motivate the introduction of cost-effective and water efficient technologies;
- (iv) stimulate the adoption of efficient and effective water-use technologies; and
- (v) use of water efficient product as part of contributions towards green environment.

3.0 INTERPRETATION OF TERMINOLOGY

Unless otherwise specified, the following interpretation shall apply throughout the Guidelines:

“Guidelines”	refers to the “Guidelines for Voluntary Water Efficient Products Labelling Scheme”;
“Recognised Standard”	refers to standards or technical specifications of products recognised by SPAN for use in the national water services industry. The standard can be a Malaysian standard or an international standard;
“Supplier”	a supplier can be a manufacturer or an importer or a distributor or a retailer;
“Products”	refer to products covered under WEPLS as listed in section 4;
“Basin Tap”	refers to tap that is designed with intended use is to flow water into a basin or a bowl that is used primarily for washing the hands and face;

“Shower Tap”	refers to tap that is designed with intended use is to flow water for bathing purposes;
“Sink Tap”	refers to tap that is designed with intended use is to flow water into a sink in a kitchen;
“Ablution Tap”	refers to tap that is designed with intended use is to flow water for washing part of the body before a Muslim perform his/her prayer;
“Mixer”	refers to tap with a device to mix cold and hot water;
“Washing Machine”	refers to automatic clothes washing machine powered by electricity to wash laundry with the utilization of water and detergent;
“Showerhead”	refers to a device through which water is passed to form spray for bathing purposes;
“Water Consumption”	refers to the volume of water consumed by products to perform its function. Water consumption for products is computed according to methods prescribed in Annex II;
“Water Efficient Product (WEP)”	means a product that utilizes the lowest allowable amount of water discharge without reducing its ability to perform its function satisfactorily in accordance with product standard;
“Water Efficiency Label”	refers to label that has been established for the purpose to identify a water efficient product that has complied with WEPLS requirements;
“Water Efficiency Rating”	refers to the grades of efficiency according to water consumption as tabulated in Annex II.

4.0 PRODUCTS COVERED

4.1 Products that are covered under WEPLS are:

- (a) **Water taps** (either as a single tap, combination tap or mixer) that are produced with intended use as:
- basin taps
 - sink taps
 - shower taps
 - ablution taps
 - electronic sensor taps
 - automatic shut off taps
 - thermostatic mixer
- (b) **Water closet (WC)** that is supplied as:
- one-piece WC pan
 - a closed coupled WC pan
 - WC pan and cistern
 - WC pan and flush valve
- (c) **Urinal equipment** that is supplied as a complete system.
- (d) **Washing machine** (automatic) that is supplied as (including combination clothes washing machine with dryers):
- Front load washer
 - Top load washer
- (e) **Showerhead** which may include a fixed or pivot arm, a flexible hose, tap top assemblies, or other components.

5.0 REGISTRATION

5.1 Eligibility

5.1.1 WEPLS is opened to companies who manufacture, import, distribute or sell sanitary products, water fitting and washing machines in Malaysia.

5.1.2 For local manufactured products, the registration is encouraged to be done by the manufacturer.

5.1.3 For imported products, the registration is encouraged to be done by the main importer.

5.2 Pre-requisites

5.2.1 Except washing machines, all products shall:

- have complied with all the materials and performance standards required for its use as specified in the product standard in Annex 1; and
- the supplier and the products have been listed with SPAN under the “SPAN Listing of Suppliers” and has a validity period of not less than one month before the expiry date of the registration.

5.3 Testing of Product Water Consumption

5.3.1 Products to be registered under the WEPLS shall be tested for their water consumptions according to methods and procedures as prescribed in Annex I.

5.4 Testing Laboratory

5.4.1 Test of water consumption is to be carried out by an independent testing laboratory recognised by SPAN. The laboratory can be:

- (i) a local testing laboratory which has been accredited under the Skim Akreditasi Makmal Malaysia (SAMM) for the test method stipulated; or

- (ii) a foreign laboratory which has been accredited by partners under the Department of Standard Malaysia's Mutual Recognition Arrangement (MRA) for the test method stipulated.

5.5 Test Report

- 5.5.1 Test report shall contain all information as prescribed in Annex I.
- 5.5.2 The validity of the test report should be within five (5) years from the date of the report issued.
- 5.5.3 Upon submission for registration, the test report should be valid for at least one (1) year.

5.6 Quality Management System (QMS)

- 5.6.1 Certificate of QMS to be submitted with the application if the product is manufactured under a production system issued by CBs that are accredited by an accreditation body that is part of the international and regional mutual global recognition arrangement Mutual Recognition Arrangement (MRA)/ Multi Lateral Recognition (MLA) implemented by Asia Pacific Accreditation Cooperation (APAC) and International Accreditation Forum (IAF).

5.7 Application for Registration

- 5.7.1 Application for registration of water efficient product shall be made via e-Registration system at the SPAN website.
- 5.7.2 The following information shall be provided and submitted via e-Registration system:
 - (i) Company name, address and company registration number
 - (ii) SPAN supplier listing number
 - (iii) Manufacturer's details
 - (iv) Showroom/sales location

- (v) Parties who will be responsible for marking and affixing the label
- (vi) Information of the products to be registered under the WEPLS (type of product, brand, model, flowrate for taps, flush volume for WC and urinals, water consumption for washing machines, colour photo of products).
- (vii) Test report that shows that products are tested according to method prescribed in Annex I and meets the water consumption requirements.
- (viii) Documentary proof if the production system for the product is operating according to a recognised international quality management system.

5.8 Service Charge

5.8.1 No fees are imposed for the application of registration of WEPLS at this moment.

5.8.2 However, SPAN reserves the right to impose any fees or charges at any time for the registration of WEPLS.

5.9 Processing

5.9.1 On receipt of an application, SPAN will verify whether the product meets the water consumption requirements based on the submitted test report and will rate the products efficiency accordingly. Application for registration will be processed **within 14 working days**.

5.10 Water Efficiency Rating

5.10.1 The water efficiency of a product is rated to three different grades according to the water consumption as tabulated in Table 1 to Table 8 as listed in Annex II.

5.11 Validity

5.11.1 Registration of WEPLS is valid for three (3) year subject to renewal of listing of the supplier and the products under the “SPAN Listing of Suppliers”. A fresh application shall be submitted to SPAN not later than 1 month from the expiry date in order to maintain the products in the WEPLS listing.

5.12 Listing of Water Efficient Products

5.12.1 The product and the supplier that have been approved for WEPLS will be listed in a registry maintain by SPAN. The registration record will also be made available at the SPAN website for public information.

6.0 WATER EFFICIENCY LABEL

6.1 Labelling

6.1.1 An approved Water Efficient Product (WEP) shall be labelled with the approved water efficiency label. SPAN will provide the soft copy of standard format for the water efficiency label and the applicant is required to print the label and ensure the labels are affixed on the products or its packaging.

6.2 Label Design and Version

6.2.1 There are two versions of label, i.e. full and simplified version as shown in Annex III. The full version label shall be affixed on product packing at a prominent location. The simplified version label is designed to facilitate the supplier to affix the label on the products.

6.3 Colour Scheme and Dimension

6.3.1 The label shall be printed on white colour self-adhesive sheet material and should have dimension as shown in Annex III.

6.4 Paper Quality

6.4.1 The paper used for the label should be durable and possess good wear and tear characteristic. It should stick tightly on the products or its packing.

6.5 Information on the Label

6.5.1 Information to appear on the label shall be in accordance to the label format as indicated in Annex III and shall state the information as listed on the confirmation letter issued by SPAN.

6.5.2 Information on the label consists:

(a) Full version:

- (i) The star rating
- (ii) WEPLS Registration number
- (iii) Brand
- (iv) Model
- (v) Water consumption rate

(b) The simplified version shall contain the WEPLS registration number

6.6 Guidance for Label Use

6.6.1 The label shall be fixed to each product model displayed for sale or supplied. The label shall be fixed such that it is prominent for consumers to view and compare with ease.

6.6.2 The marking and information on the label shall not be removed, defaced or obscured in any manner that may confuse or mislead the consumer.

6.6.3 Water efficient product must, when supplied or offered for supply, have the following displayed in a way that is easily readable, clearly visible and attributable to the product:

Product	Unpackaged	Packaged	Website or Advertisement
1) Water taps 2) Water closet 3) Urinals 4) Showerhead	A tag in the simplified version shall be either: a) be on the product itself, or b) be on both sides of a swing tag affixed to the product, or c) be fixed adjacent to the product such that the juxtaposition of the label and product indicates a clear and obvious connection.	The label shall be in full version and be affixed on the packaging such that it is clearly visible on the front portion of the package when it is hung from a rack or placed on a shelf for supply purposes.	When label is used in the website or advertisement, the following requirements shall be complied: a) The label for each registered model shall be separately displayed if there is more than one model being advertised or promoted. b) The label shall appear next to products so that it is easily identified with the model featured. c) All information on the label shall be clearly visible and legible. Where it is impractical for the label to be of a size sufficient for any of the information on the label to be clearly visible and legible, the following relevant information shall be extracted and printed clearly and legibly alongside the label: brand, model, star rating as well as wordings (i.e “highly efficient” or “most efficient”), water consumption rate and registration number.
5) Washing machine	Unpackaged washing machines must carry WELPS label on the product itself or on both sides of a swing tag affixed to the product.		d) Statement connoting that the product is “SPAN tested” or “SPAN certified” or “SPAN approved” are prohibited.

7.0 OBLIGATIONS OF THE WEPLS SUPPLIER

7.1 General Obligations

7.1.1 Once approved by SPAN, the supplier is responsible to comply with the following general obligations to ensure that:

- (i) products are labelled according to water efficiency label as described in section 6; and
- (ii) only registered brands or models are labelled.

7.2 Notification of Change in Particulars

7.2.1 The supplier shall notify SPAN of any changes to any of the particulars (e.g. change in company name, etc.) provided to SPAN during the application of WEPLS. The notification shall be made not less than 14 working days after the changes.

7.3 Notification of Modification to Registered Product

7.3.1 Where any registered product is modified in any way, the supplier shall resubmit the application through e-registration system and if the modification alters the water consumption of the registered model, new test report also needs to be submitted.

7.3.2 SPAN may revise the water efficiency rating of the registered model based on the submitted information and test reports.

7.4 Notification of Change of Distributor

7.4.1 When the distributorship of an existing registered product is taken over by the newly appointed supplier, the new supplier who takes over the distributorship shall notify SPAN with an undertaking letter undertaking all declaration made by the existing supplier for the registered models.

8.0 ENFORCEMENT

8.1 Purpose

8.1.1 To uphold the credibility of WEPLS and to maintain continuous confidence of the consumer, monitoring and inspection on the use of labels on products registered under WEPLS will be conducted by SPAN.

8.2 Legal Provision

8.4.1 WEPLS is a voluntary scheme. However, suppliers who abuse the scheme by giving false information on the label may constitute an offence under the Malaysian Trade Description Act 2011 (Act 730), Consumer Protection Act 1999 (Act 566) and the Water Services Industry Act 2006 (Act 655).

9.0 DISCLAIMER

9.1 WEPLS is aimed at promoting and raising awareness on the availability of water efficient products. SPAN disclaims all responsibility and liability of any kind whatsoever for any loss, injury, liability, claim or damage of any kind resulting from and arising of, or any way related to the misuse or counterfeiting of the label under the scheme.

10.0 ENQUIRIES

10.1 All enquiries on WEPLS shall be addressed to SPAN at the following address:

The Senior Director
Development and Audit Industry Division
National Water Services Commission
Ground Floor, Prima Avenue 8
Block 3510, Jalan Teknokrat 6,
63000 Cyberjaya, Selangor.

Phone: 03-83179333/334; Fax: 03-83179469
Email: WEPLS@span.gov.my

ANNEXES

Annex I Testing of Water Consumption for Products

Annex II Water Efficiency Rating

Annex III Water Efficiency Label

ANNEX I
Testing of Water Consumption for Products

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
1.	<p>Water taps (either as a single tap, combination tap or mixer) that are produced with intended use as:</p> <ul style="list-style-type: none"> • basin taps • sink taps • shower taps • ablution taps • electronic sensor taps • automatic shut off taps 	<p>a) SPAN TS 3004:2021 for Water Taps-Single Taps and Combination Taps – Specification</p> <p>b) Section 10 of BS EN 200: 2008 for basin taps, sink taps, shower taps and ablution taps.</p> <p>c) Section 10 of BS EN 817: 2008 for mechanical basin/ sink/ shower mixers with a single or separate control device for adjusting</p>	<p>The following test requirements shall be followed in measuring and computing flow rates and nominal flow rates:</p> <p>a) The flow rates shall be measured in accordance with the standards stipulated above at each of the dynamic flow pressures of 50 kPa, 100 kPa, 150 kPa, 200 kPa, 250 kPa, 300kPa, 350 kPa, 400 kPa, 450 kPa, 500kPa and 550 kPa.</p> <p>b) The nominal flow rate shall be the mean of</p>	<p>The following shall be reported in the test report:</p> <p>a) Supplier, brand name, model name and model number of the product and description of other components tested with the sample.</p> <p>b) Photos showing tested product.</p> <p>c) The average flow rate through the test sample, at the dynamic flow pressure at 50 kPa, 100 kPa, 150 kPa, 200 kPa, 250 kPa, 300kPa, 350 kPa, 400</p>	<p>Water consumption for water taps and mixers is taken to be the nominal flow rate of taps or mixers compute at the mean of the average flow rates obtain at the following dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p>

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
	<ul style="list-style-type: none"> thermostatic mixer 	<p>flow rate and temperature</p> <p>d) Section 11.4.1 of BS EN 816:2017 for automatic shut off taps.</p> <p>e) Section 13.2 of BS EN 1287:2017 for thermostatic mixer.</p> <p>f) Section 5.3 of BS EN 15091:2013 for electronic sensor tap.</p> <p>g) BS EN 1287:2017 for sanitary tapware, Low Pressure Thermostatic Mixing Valves, General Technical Specifications.</p>	<p>the average flow rates obtain at the following dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>c) The highest average flow rate determined in accordance with the standards stipulated above at each of the dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa shall not exceed the upper limit of the flow range for the applicable rating for the determined nominal flow rate by more than 0.5 litres/min.</p>	<p>kPa, 450 kPa, 500kPa and 550 kPa.</p> <p>d) The nominal flow rate at 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>e) The highest average flow rate taken at 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>f) The lowest average flow rate taken at 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>g) The difference between the highest and lowest average flow rate 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p>	

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
			<p>d) The lowest average flow rate determined in accordance with the standards stipulated above at each of the dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa shall not exceed the lower limit of the flow range for the applicable rating for the determined nominal flow rate by more than 0.5 litres/min.</p> <p>e) The differences between the highest and lowest average flow rate determined in accordance with the standards stipulated above at each</p>		

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
			<p>dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa shall not exceed 2.0 litres/min.</p> <p>f) The recording of the average flow rates at 50 kPa, 200 kPa, 300 kPa, 400 kPa, 450 kPa and 550 kPa are for data collection purposes only.</p> <p>g) The water consumption of a tap shall be taken to be the nominal flow rate determined in (b).</p> <p>h) The tap shall also comply with the requirements specified</p>		

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
			in (c), (d) and (e) to be qualified for WEPLS.		
2.	Water Closet (WC)	Clause 4.8 of MS 1522:2015 Vitreous China Water Closet Pans – Specification.	The WC shall pass the flushing test as required for clause 4.8 of MS 1522:2011.	The following shall be reported in the test report: a) Supplier, brand name, model name and model number of the WC and flushing system used b) Photos showing tested product c) Flush volume d) If flush valve is used, state the flush valve manufacturer, model, pressure group and type of flush valve	
3.	Urinal Equipment	MS 1799:2020 as follows:	The Urinal shall pass the flushing test in clause 4.4.1 and 4.4.2 of MS 1799:2008 for slab urinals	The following shall be reported in the test report:	

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
		a) Annex A for slab and stall urinals. b) Annex B for wall-hung urinals.	and wall hung urinals, respectively.	a) Supplier, brand name, model name and type of urinal. b) The flushing mechanism. c) Actual volume of water discharge per flush. d) The area of sawdust remaining within the test area. e) Photos showing tested product.	
4.	Showerhead	a) SPAN TS 3005:2021 for Shower Outlet for Sanitary Tapware For Water Supply System – Specification. b) Section 11.2 of BS EN 1112:2008.	The following test requirements shall be followed in measuring and computing flow rates and nominal flow rates: a) The flow rates shall be measured in accordance with the standards stipulated	The following shall be reported in the test report: a) Supplier, brand name, model name and model number of the product and description of other components tested with the sample.	Water consumption for showerhead is taken to be the nominal flow rate of showerhead compute at the mean of the average flow rates obtain at the following dynamic

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
			<p>above at each of the dynamic flow pressures of 50 kPa, 100 kPa, 150 kPa, 200 kPa, 250 kPa, 300kPa, 350 kPa, 400 kPa, 450 kPa, 500kPa and 550 kPa.</p> <p>b) The nominal flow rate shall be the mean of the average flow rates obtain at the following dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>c) The highest average flow rate determined in accordance with the standards stipulated above at each of the dynamic flow pressures of 100 kPa,</p>	<p>b) Photos showing tested product.</p> <p>c) The average flow rate through the test sample, at the dynamic flow pressure at 50 kPa, 100 kPa, 150 kPa, 200 kPa, 250 kPa, 300kPa, 350 kPa, 400 kPa, 450 kPa, 500kPa and 550 kPa.</p> <p>d) The nominal flow rate at 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>e) The highest average flow rate taken at 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>f) The lowest average flow rate taken at 100</p>	<p>flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p>

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
			<p>150 kPa, 250 kPa, 350 kPa and 500 kPa shall not exceed the upper limit of the flow range for the applicable rating for the determined nominal flow rate by more than 0.5 litres/min.</p> <p>d) The lowest average flow rate determined in accordance with the standards stipulated above at each of the dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa shall not exceed the lower limit of the flow range for the applicable rating for the determined nominal flow rate by</p>	<p>kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p> <p>g) The difference between the highest and lowest average flow rate 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa.</p>	

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
			<p>more than 0.5 litres/min.</p> <p>e) The differences between the highest and lowest average flow rate determined in accordance with the standards stipulated above at each dynamic flow pressures of 100 kPa, 150 kPa, 250 kPa, 350 kPa and 500 kPa shall not exceed 2.0 litres/min.</p> <p>f) The recording of the average flow rates at 50 kPa, 200 kPa, 300 kPa, 400 kPa, 450 kPa and 550 kPa are for data collection purposes only.</p>		

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
			<p>g) The water consumption of a showerhead shall be taken to be the nominal flow rate determined in (b).</p> <p>h) The showerhead shall also comply with the requirements specified in (c), (d) and (e) to be qualified for WEPLS.</p>		
5.	Washing Machine	a) SPAN TS 3006:2021 for Washing Machines – Water Efficiency Performance and Related Testing Methods	The water consumption of washing machine shall be measured in accordance to Clause 9.5 of the above standards.	<p>The following shall be reported in the test report:</p> <p>a) Supplier, brand name, model name, model number and rated wash capacity of the washing machine.</p> <p>b) Photos showing tested product.</p>	a) Water consumption of the washing machine is taken to be actual volume of water used for a complete automatic cold or hot cycle for

No.	Product	Standard	Flow Performance Requirements	Test Report	Remarks
				<ul style="list-style-type: none"> c) Indication of front load or top load. d) Detail information of selected program with any associated settings. e) Wash load tested in kg. f) Volume of water consumption in litres. g) Water efficiency in litre/kg load. 	<p>washing, rinsing and spinning of the test load.</p> <p>b) The washing machine shall be tested using standard program (auto, normal or default program). Other option/features/functions such as prewash, eco, energy saver and etc shall be disabled.</p>

ANNEX II

Water Efficiency Rating

Water efficiency rating for products is determined in accordance to Table 1 to Table 8

Table 1: Conversion of water consumption to water efficiency rating for basin taps and mixers

Water Consumption <i>nominal flow rates (f)</i> (l/min)	Water Efficiency Grade	Rating	Symbol on Label
$6.0 < f \leq 8.0$	Efficient	1★	★
$4.0 < f \leq 6.0$	Highly Efficient	2★	★★
$1.5 < f \leq 4.0$	Most Efficient	3★	★★★

Note:

1. If tap equipment has an effective automatic shut-off device, its water efficiency rating is increased to the next higher rating. Tap equipment with an automatic shut-off capability are those that:

- a) For hand basins:
 - (i) Require user input to turn the flow of water on but automatically turn the flow off after a maximum time of 12 seconds (e.g. by use of a spring-loaded mechanism, a timer, a volume measuring device or electronically); or
 - (ii) Require user input to turn the flow of water on (e.g. a sensor), but turn the water off automatically within 2 seconds after the end of the user activity.

Table 2: Conversion of water consumption to water efficiency rating for sink taps and mixers

Water Consumption <i>nominal flow rates (f)</i> (l/min)	Water Efficiency Grade	Rating	Symbol on Label
$6.0 < f \leq 8.0$	Efficient	1★	★
$4.0 < f \leq 6.0$	Highly Efficient	2★	★★
$2.5 < f \leq 4.0$	Most Efficient	3★	★★★

Table 3: Conversion of water consumption to water efficiency rating for shower taps and mixers

Water Consumption <i>nominal flow rates (f)</i> (l/min)	Water Efficiency Grade	Rating	Symbol on Label
$8.0 < f \leq 10.0$	Efficient	1★	★
$6.0 < f \leq 8.0$	Highly Efficient	2★	★★
$4.5 < f \leq 6.0$	Most Efficient	3★	★★★

Table 4: Conversion of water consumption to water efficiency rating for ablution taps and mixers

Water Consumption <i>nominal flow rates (f)</i> (l/min)	Water Efficiency Grade	Rating	Symbol on Label
$6.0 < f \leq 8.0$	Efficient	1★	★
$4.0 < f \leq 6.0$	Highly Efficient	2★	★★
$1.5 < f \leq 4.0$	Most Efficient	3★	★★★

Table 5: Conversion of water consumption to water efficiency rating for water closet

Water Consumption <i>Flush volume per flush</i> (<i>fv</i>) (litre/flush)	Water Efficiency Grade	Rating	Symbol on Label
Full Flush $fv \leq 6.0$ Reduced Flush $fv \leq 3.0$	Efficient	1★	★
Full Flush $fv \leq 5.0$ Reduced Flush $fv \leq 3.0$	Highly Efficient	2★	★★
Full Flush $fv \leq 4.0$ Reduced Flush $fv \leq 3.0$	Most Efficient	3★	★★★

Note:

- i. If a WC pan, WC cistern or flush valve is supplied separately, its registration and rating shall be based on the performance of a WC pan in combination with the flushing cistern or flush valve (or other flushing control mechanism) nominated by the applicant for the testing and registration.

Table 6: Conversion of water consumption to water efficiency rating for urinal equipment

Water Consumption <i>Flush volume per flush</i> <i>(fv) (litre/flush)</i>	Water Efficiency Grade	Rating	Symbol on Label
$1.5 < fv \leq 2.5$	Efficient	1★	★
$1.0 < fv \leq 1.5$	Highly Efficient	2★	★★
$fv \leq 1.0$	Most Efficient	3★	★★★

Note:

If a urinal or a urinal flush valve is supplied separately, its registration and rating shall be based on the performance of a combination of a urinal and flush valve (or other flushing control mechanism) nominated by the applicant for registration.

Table 7: Conversion of water consumption to water efficiency rating for washing machine

Water Consumption <i>Volume per wash load</i> <i>v (litre/kg)</i>	Water Efficiency Grade	Rating	Symbol on Label
$12 < v \leq 15$	Efficient	1★	★
$9 < v \leq 12$	Highly Efficient	2★	★★
$v \leq 9$	Most Efficient	3★	★★★

Note:

Automatic washing machines are defined as machines where the load is fully treated by the machine without the need for user intervention at any point during the programme prior to its completion.

Table 8: Conversion of water consumption to water efficiency rating for showerhead

Water Consumption <i>nominal flow rate (f)</i> (l/min)	Water Efficiency Grade	Rating	Symbol on Label
$8.0 < f \leq 10.0$	Efficient	1★	★
$6.0 < f \leq 8.0$	Highly Efficient	2★	★★
$4.5 < f \leq 6.0$	Most Efficient	3★	★★★

ANNEX III

Water Efficiency Label



Full Version

Size 15.5 cm x 9.5 cm

Water Efficiency Label



Simplified Version
10.0 cm X 6.0 cm



Simplified Version
5.0 cm X 2.5 cm