

**TECHNICAL EVALUATION REPORT  
FOR PVC PIPE MANUFACTURER**

**ARPITECH (PVT) LTD**

**OCTOBER 2018**

## **PVC PIPES & FITTINGS MANUFACTURERS**

### **(01) INTRODUCTION**

SBDRC studied the Technical suitability of the PVC pipe & fittings manufacturers in Sri Lanka in order to conform the suitability of their products to be used for water supply systems.

### **(02) NWSDB REQUIREMENTS FOR uPVC PIPES & FITTINGS**

Manufacturer shall have the following certificates issued by SLSI or accredited agency who is a member of IAF.

- a. SLS 147:2013, Product Conformity Certificate for uPVC pipes.
- b. ISO 9001: 2015, Quality Management System Certificate for the pipe manufacturing factory.
- c. SLS 659:2015 or ISO 1452-Part 3 Product Conformity Certificate for Mechanical welded fittings (Rubber ring joints) / solvent welded fittings.
- d. ISO 9001: 2015, Quality Management System Certificate for the fittings manufacturing factory.
- e. SLS 935:1991 for solvent cement.
- f. ISO 9001: 2015, Quality Management System Certificate for the solvent cement manufacturing factory.
- g. If DI fittings are provided instead of uPVC fittings.  
(i)EN 12842/ EN 545/ ISO 2531, Product Conformity Certificate for DI fittings.  
(ii)ISO 9001: 2015, Quality Management System Certificate for DI fittings manufacturing factory.
- h. BSEN 681-1 /ISO 4633/SLS ISO 4633, Product Conformity Certificate for joint rings.
- i. ISO 9001: 2015 Quality Management System Certificate for joint rings manufacturing factory.
- j. Guarantee from Pipe manufacturer to ensure a leak proof pipe line.
- k. Guarantee to supply Rubber Rings to uPVC pipe manufacturer

### (03) PRESENT SITUATION

At present NWSDB has short listed seven pipe Manufacturers for uPVC pipes and fittings. The approved contractors with their details are as follows.

1. St. Anthony's Industries Group (Pvt.) Ltd has short listed to supply uPVC pipes, fittings and solvent cement with Joint rings from Samson International PLC.
2. Central Industries PLC Ltd has short listed to supply uPVC pipes, fittings and solvent cement with Joint rings from Samson International PLC.
3. S-lon Lanka (Pvt.) Ltd has short listed to supply uPVC pipes, fittings and solvent cement with Joint rings from Samson International PLC.
4. Kamal PVC Industries (Pvt.) Ltd has short listed to supply uPVC pipes, fittings and solvent cement with Joint rings from Samson International PLC.
5. Sierra Industries (Pvt.) Ltd has short listed to supply uPVC pipes and fittings with solvent cement from Central Industries PLC and Joint rings from Samson International PLC.
6. M/s. Duro Pipe Industrial (Pvt) Ltd. has short listed to supply uPVC pipes and solvent cement with uPVC fittings from Sierra Industries (Pvt.) Ltd and Joint rings from Samson International PLC.
7. M/s. Samson International PLC has short listed to supply uPVC pipes, fittings, solvent cement and Joint rings.

### (04) TECHNICAL REVIEW OF MANUFACTURER

#### **Arpitech (Pvt)Ltd.**

The manufacturer has submitted the following certificates and required details for the Pre-Qualification and the position of the certificates produced by the manufacturer is given below.

This manufacturer posses,

- i) SLS 147:2013, Product Conformity Certificates (PCC) for uPVC pipes of following sizes;

<b>Pressure Class</b>	<b>Size (mm)</b>
PN <sub>T</sub> 18	63-315
PN <sub>T</sub> 14	20,25,63-315
PN <sub>T</sub> 11	25-315
PN <sub>T</sub> 7	32-315
PN <sub>T</sub> 9	32-315

This certificate is valid upto 12<sup>th</sup> January 2019. The certificate was verified as authentic by SLS and attached as Annex 01.

- ii) SLS 659:2015, Product Conformity Certificates (PCC) for uPVC pipe fittings of following sizes;

<b>Product</b>	<b>Pressure Class</b>	<b>Size (mm)</b>
Elbow	PN <sub>T</sub> 14	20
	PN <sub>T</sub> 11	25,32,40,50,63,90,110
	PN <sub>T</sub> 9	90,110
Equal Tee	PN <sub>T</sub> 14	20
	PN <sub>T</sub> 11	25,32,40,50,63,90,110
	PN <sub>T</sub> 9	90,110
Equal Socket	PN <sub>T</sub> 14	20
	PN <sub>T</sub> 11	25,32,40,50,63,90,110
	PN <sub>T</sub> 9	90,110
Valve Socket	PN <sub>T</sub> 14	20
	PN <sub>T</sub> 11	25,32,40,50,63,90,110
	PN <sub>T</sub> 9	90,110
Faucet Socket	PN <sub>T</sub> 14	20
	PN <sub>T</sub> 11	25,32,40,50,63,90,110
	PN <sub>T</sub> 9	90,110
End cap	PN <sub>T</sub> 14	20
	PN <sub>T</sub> 11	25,32,40,50,63,90,110
	PN <sub>T</sub> 9	90,110
Faucet Elbow	PN <sub>T</sub> 14	20
Faucet Tee	PN <sub>T</sub> 14	20

This certificate is valid upto 01<sup>st</sup> April 2020. The certificate was verified as authentic by SLS and attached as Annex 02.

- iii). SLS 935:1991 PCC for solvent cement.

This certificate is valid upto 08<sup>th</sup> January 2019. The certificate was verified as authentic by SLS and attached as Annex 03

- iv). ISO 9001:2015 Quality Management System certificate for pipes, pipe fittings & solvent cement manufacturing factory.

This certificate is valid upto 19<sup>th</sup> August 2020. The certificate was verified as authentic by SLS and attached as Annex 04.

- v). ISO 9001:2015 Quality Management System certificate for rubber rings manufacturing factory.

This certificate is valid upto 11<sup>th</sup> November 2018. The certificate was verified as authentic by SLS and attached as Annex 05.

- vi). Instead of EN 681-1:1996 the manufacturers has produced a test certificate for joint rings from ITI and attached as Annex 06.

- vii). Guarantee from Pipe manufacturer to ensure a leak proof pipe line and attached as Annex 07.

- viii). Guarantee to supply Rubber Rings to uPVC pipe manufacturer and attached as Annex 08.

#### **(05) RECOMMENDATION**

Having studied on the documents and certificates submitted from Arpitech (Pvt) Ltd., this manufacturer is recommended to be short listed manufacturer to supply of PVC pipes, fittings and rubber rings as detailed in **Table 1** given below.

**Details of Pre-Qualification Scope for PVC Pipes, Fittings and Rubber Rings**

**Table 1**

Manufacturer's Name & Address	Name & Address of the Pipes & Fitting Manufacturing Factory	Pressure Class	Dia. Range(mm)	Factory Address for joint rings	Factory Address for Solvent Cement
		Pressure Class	Dia. Range(mm)		
M/s. Arpitech (Pvt)Ltd., No 310, Highlevel road, Nawinna, Maharagama.	<b>Pipes</b> M/s. Arpitech (Pvt)Ltd.,- PVC Operation, P O Box 01, Siyabalagoda, Polgasowita. <b>Tel No.</b> 011-7107555 <b>Fax No.</b> 011-7107530, 011-7107562	PN <sub>T</sub> 7	32-315	M/s Samson International PLC, Akuressa Road, Bogahagoda, Angulugaha, Galle.	M/s. Arpitech (Pvt)Ltd.,- PVC Operation, P O Box 01, Siyabalagoda, Polgasowita.
		PN <sub>T</sub> 9	32-315		
		PN <sub>T</sub> 11	25-315		
		PN <sub>T</sub> 14	20,25, 63-315		
		PN <sub>T</sub> 18	63-315		
	<b>Fittings</b> M/s. Arpitech (Pvt)Ltd.,- PVC Operation, P O Box 01, Siyabalagoda, Polgasowita.	PN <sub>T</sub> 14	20		
		PN <sub>T</sub> 11	25-110		
		PN <sub>T</sub> 9	90,110		