



The Institution of Engineers, Malaysia

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Technical Visit to AZEETA PIPE SYSTEM SDN BHD and Technical Presentation on Polypropylene Random (PPR) Piping Systems (Organized by the Building Services Technical Division) BEM Approved CPD/PDP Hours: 4 Ref. No.: IEM16/HQ/129/V

Date : **7th May 2016 (Saturday)**
Time : 9:00 a.m. – 1.30 p.m.
Venue : **AZEETA PIPE SYSTEM SDN BHD**
Address : 38A, Jln Anggerik Mokara 31/47, Seksyen 31, Kota Kemuning, 40460 Shah Alam, Selangor Darul Ehsan.
Transport: Own Transport

SYNOPSIS

Polypropylene (PPR) Piping Systems are currently widely used in the hot and cold water plumbing applications in Malaysia. The standards used in certifying PPR pipes and fittings are **ISO 15874**, and **MS2286**. In the past, the pressure ratings of plastic pipes and fittings adopt the **Class** and **PN** systems such as Class C, D and E (equivalent to PN 9, 12, and 15 respectively). However, the current PPR piping standards focus on the **Standard Dimension Ratio (SDR)** classification resulting in the **S Series** System such as S5, S3.2 and S2.5. The Standards also introduce the concept of **Application Class** whereby each has different test parameters even though the pipe series are the same. In short, the Standards are not user friendly and created several confusions as to the pressure ratings of each of the **S series** pipes that correspond to the respective Application Class. This technical presentation attempts to address the confusion with the following:

- Brief Overview of the different Thermoplastic Materials
- The reference standards, ISO 15874 Parts 1 to 7
- Application Class
- Tests parameters for different Application Class
- Relating the S Series to the Pressure Class (PN)
- Fitness For Purpose Test with emphasis on Thermal Cycling Test

The delegate will then be introduced to the PPR pipe manufacturing process and witness for the first time the Thermal Cycling Test of PPR Pipe and Fittings that complies with ISO 15874-5 (test method EN 12293). This test is only available in Azeeta Pipe System Sdn Bhd as we designed and built this test facility with SIRIM's blessing and became **the first in Malaysia to have such testing facility**.

ITINERARY OF THE VISIT

Time	Itinerary
8.30am – 9.00am	Arrival & Registration at AZEETA Pipe System Sdn. Bhd & Breakfast
9.00am - 10.30am	Welcoming Speech and Introduction to Azeeta Pipe System and Technical Talk on Polypropylene Random (PPR) Piping Systems by Ir Ung Ah Hock Questions & Answers
10.30am – 11.00am	Tea Break
11.00am – 1.30pm	Walkabout to Operations Control Center Walkabout to Workshop End of Program

COMMITMENT FEE (Inclusive GST) (Nonrefundable & nontransferable)

IEM Member : RM 50.00
Non Member : RM 80.00

- ✓ The visit is strictly limited to **35 participants** registered on a first-come, first-served basis.
- ✓ Interested participants are to register and pay online at www.myiem.org.my or register by returning the appended registration form before **1st MAY 2016** together with the payment.
- ✓ Cheques are to be made payable to **The Institution of Engineers, Malaysia**.
- ✓ Please note that the commitment fee must be settled prior to the visit. Payment on the day of the visit is not acceptable.
- ✓ After this closing date, IEM reserves the right to allocate seats on first come first pay basis.
- ✓ Members are also reminded that if a place is reserved, IEM *may* cancel the reservation if payment is not received.

Ir. Wong Chu Loong
Chairman Session 2015/2016
Building Services Technical Division, IEM

REPLY SLIP (Fax to: 03-7957 7678) (Email: shamalah@iem.org.my)

Chairman, Building Services Technical Division, IEM
The Institution of Engineers, Malaysia

Technical Visit to "AZEETA PIPE SYSTEM SDN BHD"

I wish to participate in the above visit on **7TH MAY 2016**. I enclosed herewith a cheque No for the amount of..... as my commitment fee for the visit.

Name of Member :	.....	M'Ship No :	.....
Company's Name :	.....	NRIC :	.....
Position :	.....	Email :	.....
Address :	.....	Tel :	.....
	.....	Mobile :	.....
	.....	Fax :	.....

I will be participating in the visit at my own risk and hereby indemnify fully the IEM from all claims arising from any injury, damage or loss that may be sustained by me.

.....
(Date)

.....
(Signature)

Please bring along this flyer for confirmation of attendance
(Photostat copies are acceptable)