



TechTalk

AHMEDABAD CHAPTER

The 'Tech Talk', organized by IPA Ahmedabad Chapter was held at Ahmedabad Management Association on 25 May 2019 in the post lunch period. 55 participants took part in the event.

The welcome speech given by Vice-Chairman Mr Harshal Parikh. Chapter Chairman

Mr Minesh Shah gave a brief on IPA activities and the upcoming events including the series of 'Tech Talk', IPPL 2019 and details on 'I Save Water' campaign. He also gave information regarding the advantages of being an IPA Member.

The technical presentation on "Pump Basics and Design of Pumping Systems" was given by Mr. Aditya Shankar, Manager – Business Development, Grundfos. A Q&A session that was held with Mr Aditya Shankar answering technical queries.

The event partners were Grundfos and Jay Pumps. The presentation was followed by Hi-Tea. All the participants appreciated the 'Tech Talk' as well as the Q&A session and requested the Ahmedabad Chapter to host similar 'Tech Talk' events in future.

Following were the take-away...

1. Basic information on types of pumps - suggestion based on requirement, flow, head, type of fluid etc.



Aditya Shankar making a Technical Presentation on Pump Basics and Design of Pumping Systems

2. Energy efficiency - system curve, pump curve, motor curve, overall efficiency, duty point parameter, BEP
3. NPSH calculation - available NPSH, Pump NPSH etc.
4. Selection of pumps
5. BMS, Data management
6. Importance of the diaphragm tank and hydraulic calculations/ principles
7. Type of Motor and class IE 5 , 6 standards
8. Basic principle of system design as per NBC
9. Do's & Don't
10. Suitable type of pumps based on waste water solid handling capacity
11. Importance of MoC for pump and motor
12. Application of Bernoulli's theorem/ principle

Observations and take-away by Mr. Harshal Parikh - Vice Chairman, IPAAC and IPAAC Tech Talk Convener:

1. Technical talk series - it was very informative. Guest speaker and IPA EC committee shared hands-on experiences for efficient pumping systems
2. Thumb rules and basic design criteria were discussed in brief with some realistic project data
3. Tutorials / problem solving activities were given to participants for identifying Pump Curves and Best Efficiency Point



*Amit Sahu (Grundfos)
making Sponsorial Presentation*

4. Session became very interactive while presentation was going on and discussions took place on Energy efficiency.
5. Guest speaker shared importance of Diaphragm tank along with Hydraulic calculation with basic principle of hydraulics.
6. Based on audience input separate topic related to importance of jockey pump in hydro-pneumatic system was discussed in brief.
7. Guest speaker and his team shared pictorial presentation for various component related to HPN system



Mr. Minessh Shah, Chairman, IPA AC, addressing participants