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The new API670 standards require a total systems approach to meet the safety levels required in the industry. Woodward is a leader in delivering steam turbine safety systems to meet these new standards. Woodward's SIL-3 enabled safety systems with integrated package of ProTech, QuickTrip, and certified sensors reduce installation costs and allow you to meet the safety requirements for small, medium, or large steam turbine applications.

Woodward turbine safety systems precisely and reliably scan rotor speed and other key turbine operating parameters over 40 times per second. Purpose built with deterministic behavior and fast scan rate safety logic solvers and sensors combined with the speed and reliability of our fully integrated trip block assembly with on-line test capability enable our customers to have a stand-alone SIL-3 safety system you can trust.



PROTECH

Woodward ProTech safety logic solvers were designed in collaboration with turbine manufacturers to ensure fast response times required to shut down large, medium and small turbines quickly and safely.



QUICKTRIP

Woodward's QuickTrip fault tolerant trip block design makes it ideal for critical steam turbine applications, where turbine up-time and availability are essential. This trip block assembly's 2-out-of-3 voting design provides users with a very high level of system reliability as well as compliance with industry standard API-670.



SIL SENSORS

Woodward's SIL-3 certified speed sensors provides a complete certified safety system solution when combined with our safety logic solver, trip block and approved trip and throttle valve.



TURBOMACHINERY CONTROL EXPERTS
Turbines | Compressors | Safety | Actuation

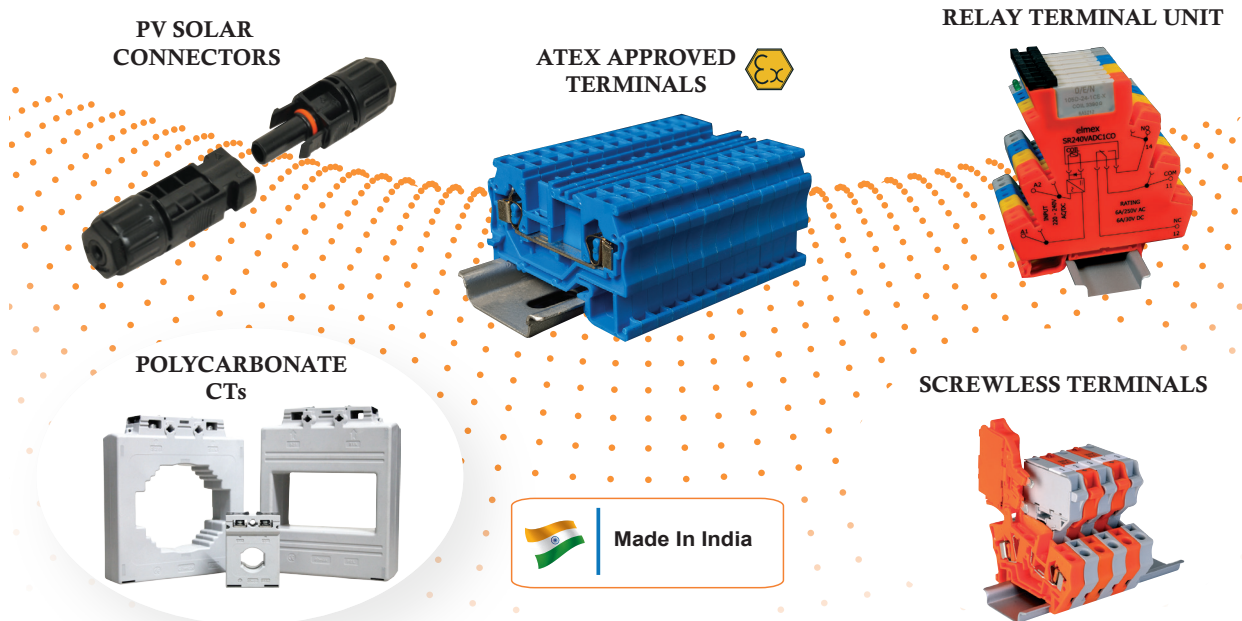
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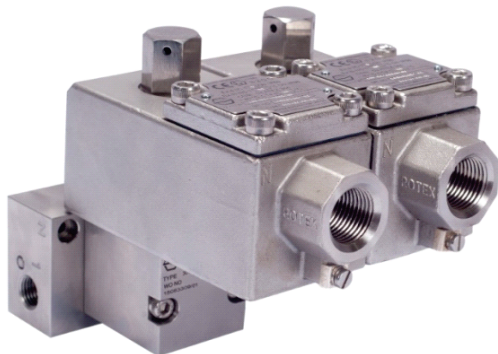
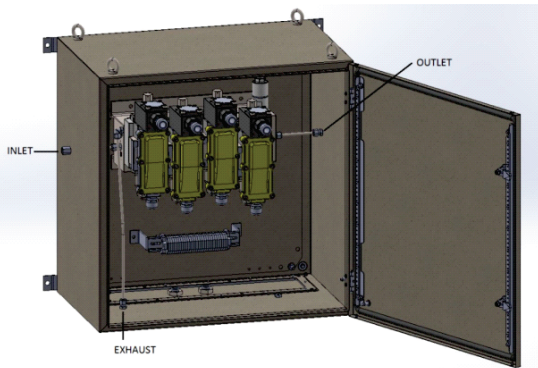


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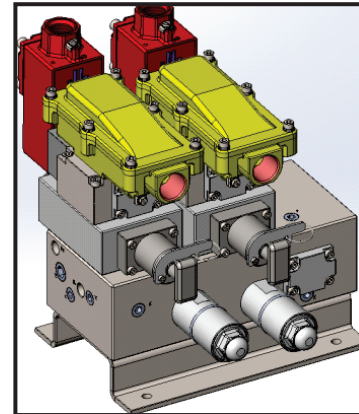
REDUNDANT CONTROL SYSTEMS



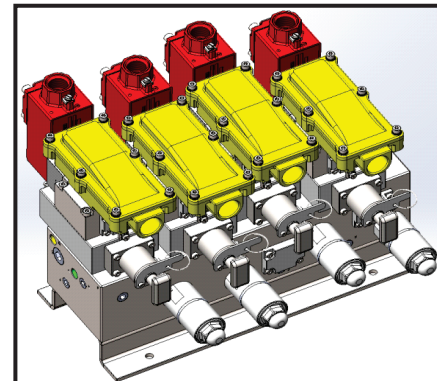
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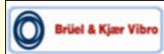
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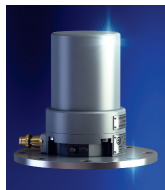
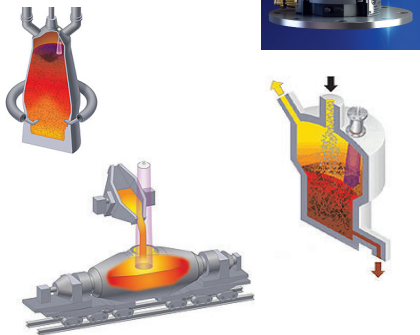
90°
67.5°
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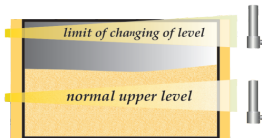
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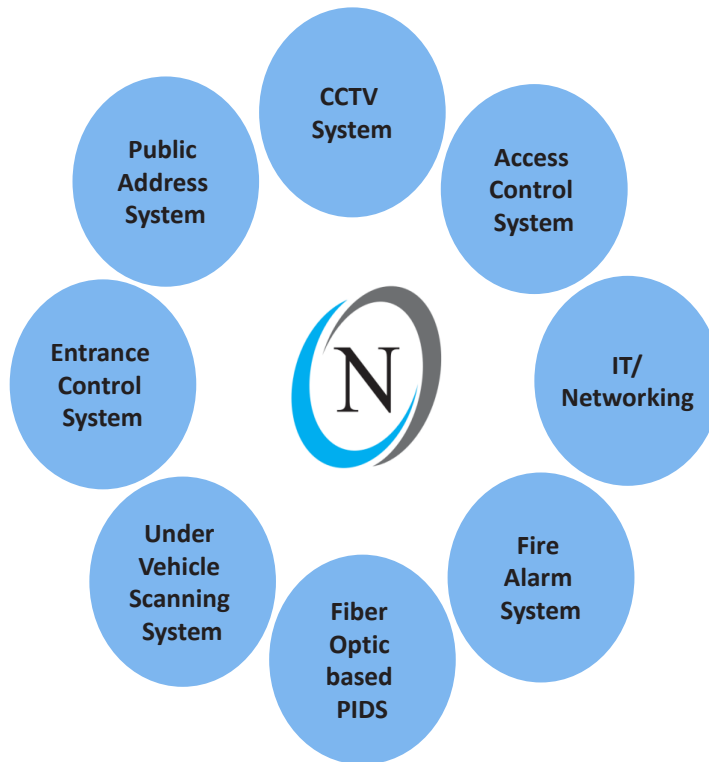


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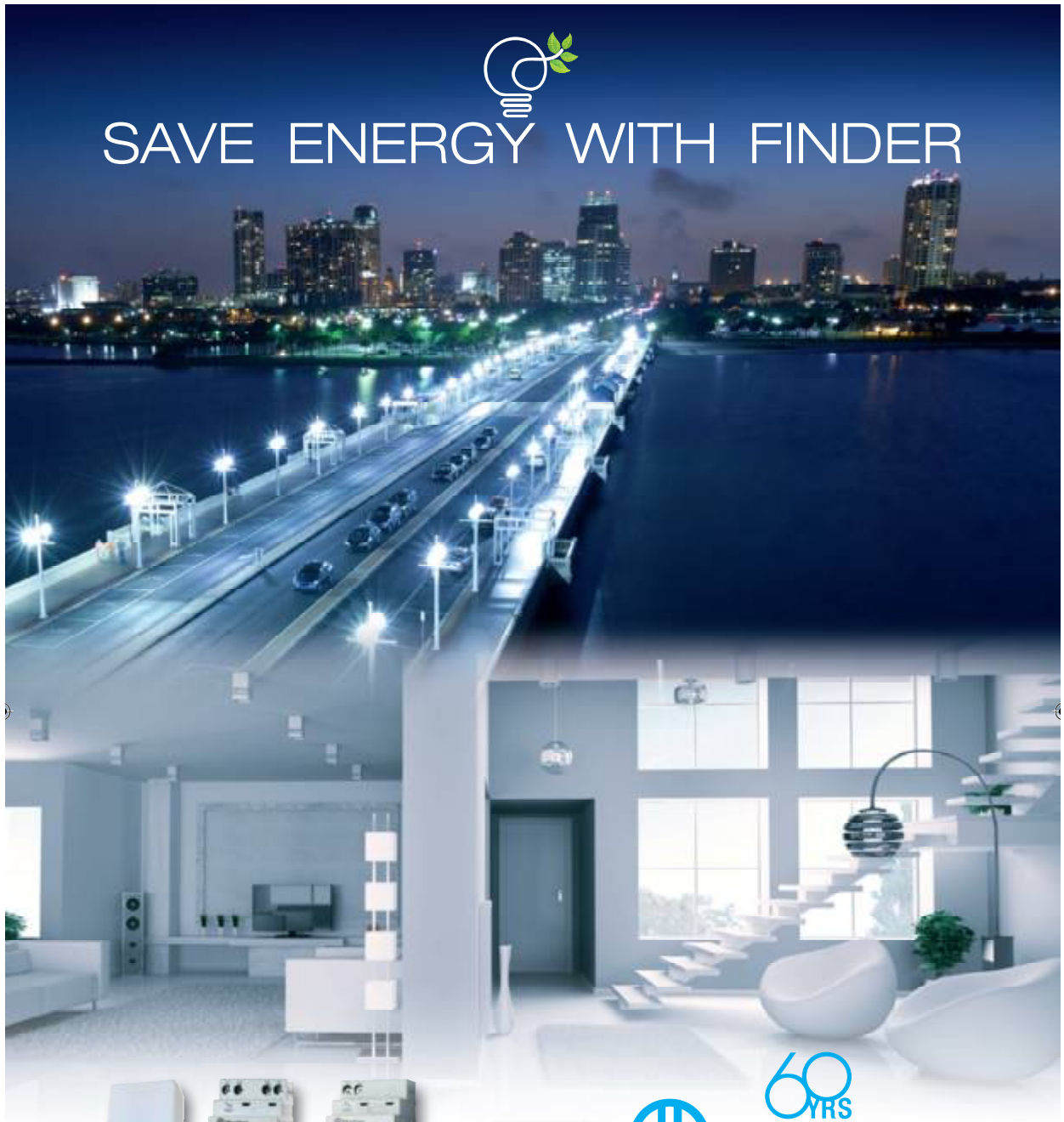
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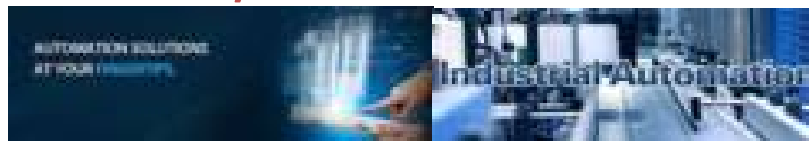
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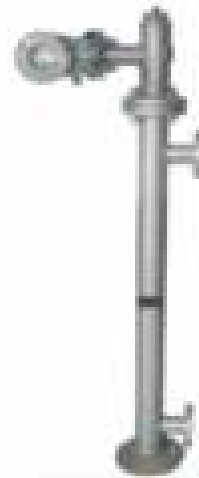
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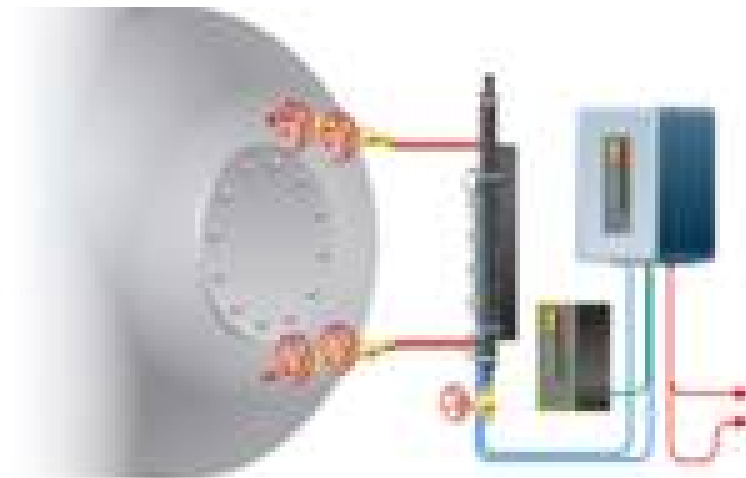


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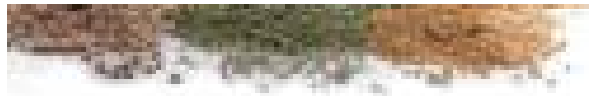
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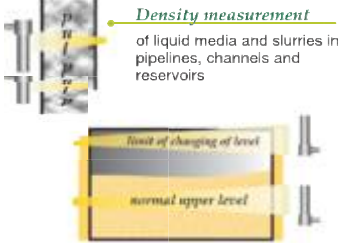
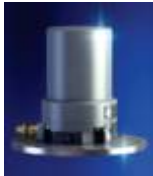
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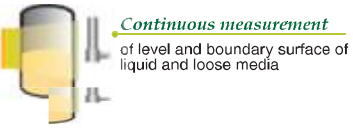


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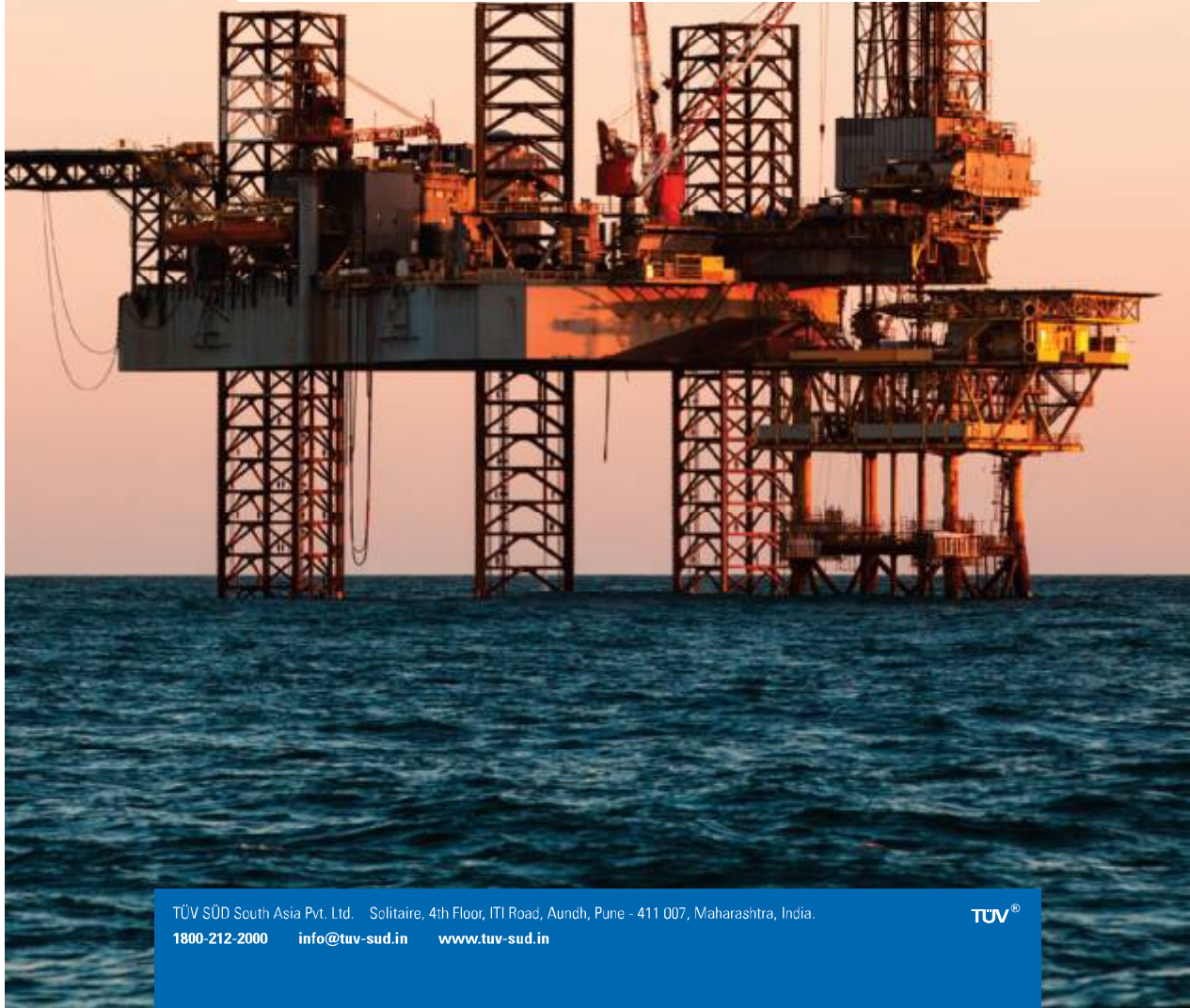
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ISA Delhi Section

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Program Details

Date-21st-22nd April-2017

“Hotel Eros, Nehru Place, New Delhi”

DAY-1	21-Apr-17		Pg no.
Inauguration Session	Time		
Registration	08:30 AM	09:30 AM	
Arrival of Chief Guest	09:30 AM	9:45 AM	
Welcome of Dignitaries	09:45 AM		
Lamp Lighting	09:50 AM		
Welcome address by ISA-D President	09:55 AM		
Address by Guest of Honour	10:00 AM		
Address by Guest of Honour	10:15 AM		
Address by Guest of Honour	10:30 AM		
Address by Chief Guest	10:45 AM		
Release of Souvenir by Chief Guest	11:05 AM		
Vote of Thanks by Convener	11:10 AM		
Inauguration of Exhibition by Chief Guest and Dignitaries	11:15 AM		
Networkig Tea Break	11:30 AM	12:00 PM	
Session-1 :	12:00 PM	01:00PM	
Process and Operation expectations from Automation			
	EIL	Ms. Jayati Ghosh	
	NTPC	Mr. Sudip Nag	
	IOCL	Mr. Sanjay Raizada	
Networking Lunch Break	01:00 PM	02:00 PM	
Session-2	02:00 PM	03:30 PM	
Deploying automation solutions for effective operation and energy management			
1. Li-Fi Instrument Communication Network	Fluor Daniel India Pvt. Ltd	Mr. Sheikh Rafik Manihar Ahmed	3
2. Unified HMIPIS	NTPC	Mr. Somenath Kundu	107
3. Technical Presentation on Comprehensive Lightning protection solution” as per the recently release NBC – 2016 (National Building Code)	DEHN INDIA (P) Limited	Mr. Brijesh Malik	13

4. New Ways of Sampling System Efficiencies in Power Plants	Forbes Marshal	Mr. Mukesh Vyas	17
Smart Quiz with Special Prizes			
Networking Tea Break	03:30 PM	04:00 PM	
Session-3	04:00 PM	06:00 PM	
Workshop & Hands on – Control valve and Analyser system			
Workshop	04:00 PM	05:00 PM	
Control Valve for Severe Service	CCI VALVES	Mr. Tarak Chhaya Mr. Pavitran Kottarathil	35
Physical display of Valve Internals			
Control Valve functioning			
Practical issues faced in valve operation and its solution.			
Case Study			
Workshop	05:00 PM	06:00 PM	
Analyser (Measurement in SRU)	AMETEK	Mr. Jochen Geiger Mr. Ananth Kukkuvada	37
Safety feature in desingining of Anlayser for Hardeous area and Selection			39
Sample handling			
Displaying of Analyser Probe -ASR Probe / HAG Probe			
Analyser Installation : Problem/Issues			
TIME TO VISIT EXHIBITIONS	06:00 PM	07:30 PM	
Networking Dinner	07:30 PM	10:00 PM	
Day-2	22-Apr-17		
Session-4	09:30 AM	11:00 AM	
Cutting edge automation for Environment Management			
1. Critical Steps Towards Healthy Environment Emission and Immission Monitoring	Chemtrols Industires Pvt. Ltd.	Mr. Pankaj Kumar Rai	42
2. Process Mass Spectrometry	Spectrum Automation & Controls	Mr. Brijesh Chowdhary Mr. Mukesh Arora	75
3. Problems when measuring TOC-COD with UV Light	HACH	Mr. G. B. Diwakar	119
4. Non-invasive Ultrasonic high temp flow and concentration solutions.	FLEXIM Instruments Asia Pte Ltd	Mr. Lalit Mohan	133
5. Predictive Emission Monitoring System (PEMS)	EIL	Mr. Sourav Mukherjee	167
Smart Quiz with Special Prizes			
Networking Tea Break	11:00 AM	11:45 AM	

Session-5		11:45 AM	01:30 PM	
Futuristic Automation and Standard & Practices				
1	Industry 4 as Futuristic Automation	Holdor Topsoe	Mr. Atanu Ghoshal Mr. Vidhya Ratna Pal	177
2	Designing THERMOWELLS in Accordance with ASME PTC 19.3 TW-2016	BECHTEL	Mr. Vikas Lodhi	181
3	Secuirty in COTS	NPCIL	Mr. Neeraj Agrawal	187
4	"Electricity Generation by Bicycle And Its Use In Villages To Overcome Health Diseases"	ISA Student Section	Mr. Abhishek Matlotia Mr. Ajay Kumar	209
Smart Quiz with Special Prizes				
Networking Lunch Break		01:30 PM	02:30 PM	
Session-6		02:30 PM	04:30 PM	
Workshop & Hands on – Valves and Level measurement				
Workshop		02:30 PM	03:30 PM	
On-Off Valves		Advance Valves		217
Type Valves for Control Application				
Relative features of different type of Control Valves				
Use of Triple Offset Butterfly Valves for Control Application				
Sizing & Selection of Valves for Control application				
Case Studies				
Demostration of Live Model				
Advance Valves Corporate Presentation				
Workshop		03:30 PM	04:30 PM	
Level Measurement		EIP Enviro Level Controls Pvt. Ltd.	Mr. Abhishek Goyal Mr. Rajat Goyal	219
Solid & Liquid level measurement : Different types & Selection techiques				
Different Technologies/Types & their calibration.				
Troubleshooting steps				
Display & Handson on : Radar ,Ultrasonic, Level Switches etc.				
Panel discussion				
		04:30 PM	05:30 PM	
		End User		
		Automation System Suppliers		
		Consultant		
Felicitations Ceremony		05:30 PM	06:00 PM	
Networking Tea Break and END of the PPAM 2017		06:00 PM	06:30 PM	

