BUREAU OF INDIAN STANDARDS

For BIS Use Only

Name of the committee	Meeting No.	Day	Date	Time	Venue
Industrial Process Measurement and Control	17 th	Wednesday	14 Sep 2022	1030	Online Meeting
Sectional Committee, ETD 18					C

CHAIRPERSON: Shri Rajiv Gupta MEMBER SECRETARY: Shri Ashok Kumar

MEMBERS PRESENT:

Sl. No	Name	Organization	Attendee Email	Mobile No
1.	Shri Rajiv Gupta	Engineers India Limited, New Delhi	rajiv.gupta@eil.co.in	+91 9818341262
2.	Dr. Shiv Kumar Jaiswal	CSIR - National Physical Laboratory	skjaiswal@nplindia.org	+91 9958618375
3.	Shri Hardev Singh	Electronics Corporation of India Limited	hardev.214@gmail.com	+91 9700589868
4.	Shri Mainak Nandi	Engineers India Limited	m.nandi@eil.co.in	+91 9971581956
5.	Shri Anindyo Ray	Engineers India Limited	a.ray@eil.co.in	+91 9810250426
6.	Shri nandakumar	Chemtrols Industries Private Limited	nandakumar@chemtrols .com	+91 9821042703
7.	Shri C R Raju	Oil and Natural Gas Corporation Limited	crraju@gmail.com	+91 9969220203
8.	Shri Shankar Mathur	Rockwin Flowmeter India Private Limited	shankar@rockwin.com	+91 9821127335
9.	Shri Ashish Jha	Steel Authority of India Limited (SAIL)	ashishjha@sail.in	+91 9434791851
10.	Dr. M Suresh	Fluid Control Research Institute	m.suresh@fcriindia.com	9446310513
BIS DG				
	Shri Ashok Kumar	Scientist -B, ETD, BIS	ashok9413@bis.gov.in	7755839773

ITEM 0 WELCOME AND OPENING REMARKS BY THE CHAIRPERSON

0.1 Mr. Rajiv Gupta, Chairperson, ETD 18 extended a hearty welcome to the members present. He asked all the working groups to actively work on their subject standards and requested members to contribute for incorporating the latest practices to provide the best products for utilities.

0.2 Shri Ashok Kumar, Member Secretary of ETD 18, welcomed all the members present in the meeting. The meeting started with a brief introduction of the members present.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 There being no comments, the Committee confirmed the minutes of the last meeting of ETD 18 held on 26.10.2021.

1.2 Action Arising Out of Previous Meeting

S.No	lte	em		Decision		Action Taken
1.	Compositi Sectional	Committee	thefollo	nmittee decide wing organiza	itions in the	Alternate Mamber details for
	and Requests	Co-option	1. 2. 3.	al committee: Vizag Steel NALCO MECON Limi ⁻ Pyrotech Private		Chemtrols Industries Ltd. And contact details of the following organizations: 1. Vizag Steel 2. NALCO 3. MECON Limited. Banchi
				der letters and its have been id.		3. MECON Limited, Ranchi Shri Mainak nandi to share contact details of Pyrotech Electronics Private .
						Mail will be sent to all non- participating organizations reconfirming their nominations.
						Dr Shiv Kumar Jaiswal to share updated nominations from Institute for Design of Elec. Meas. Instruments.

2.			IS 10398: 1982 "Zener barriers for
	intrinsically safe		intrinsically safe process control
	process control instruments	, ,	instrument" was discussed at
	instruments	available, shall be adopted or	length.
		Whether the standard needs to	
		be withdrawn.	IS 10398 covers <i>Safety</i> and <i>Design</i>
			aspect part. Safety aspect part is
		The working group EID 18-05	already covered in IS/IEC 60079- 11: 2011 and followed by almost
			all the manufacturers. The 'Design
		SignalTransmission" was asked	aspect' part does not have much
		to subline a report/ drait	use and not referred by
		revision document before the next meeting to BIS so that the	
		next meeting to BIS so that the	isolators have replaced the Zener
		same can be discussed in the	barriers in almost all the
		next meeting.	industries. IEC also doesn't have
		Shri M. Suresh, FCRI informed	standard on Zener barriers. Zener
		that the standard should be	barriers are obsolete and the
		retained with ETD 18 Sectional	standard can be withdrawn after
		committee.	obtaining confirmation from the
			relevant manufacturing.
			Chri Mainak Nandi Ell ta diasuas
			Shri Mainak Nandi, EIL to discuss the applicability of the Standard
			with the manufacturer.
			The decision on withdrawal of the
			IS 10398: 1982 will be taken in the
			next meeting after obtaining
			inputs from the manufacturers.
			If manufactures are still referring
			the 'Design aspect' part of IS
			10398: 1982 and following IEC
			60079: 2011 for Safety related
			compliances then the Safety
			related part can be removed from
			the IS 10398.

3.	Revision of	the I	S	IS 9334 : 1986 Specification for The committee decided to adopt and
	9334 : 1986	and I	S	electric motor operated wide circulate the IEC 61010-2-202 .
	8935 : 1985			actuators (First Revision) IS 8935
				: 1985 Specification for electric Members from the Emerson were
				solenoid operated actuators requested to assess the applicability
				(First Revision) of IS 9334: 1986 and IS 8935: 1985.
				EIL and Emerson were given the
				task to assess the applicability It was also decided to send the email
				of IEC 61010-2- 202 in the to relevant Industries to check
				present Indian Scenario. whether they are referring the IS
				9334: 1886 and IS 8935: 1985 or
				Mail sent to EIL and following the IEC 61010-2-202.
				EMERSON to provide their
				inputs.
				Shri Mainak Nandi , EIL informed
				that IEC 61010-2-202 is not a
				substitute for IS 9334: 1986 and IS
				8935:1985 as IEC 61010-2-
				202 mainly highlights the
				safety requirements and its
				associated testing of the actuators
				and SOVs, while the IS standards
				are more focused on the design
				and testing requirements of the
				actuators/SOVs. IEC-61010-2-202
				is applicable even in Indian
				scenarios as it takes care of safety
				requirement.
				However, it is being observed that
				most of the Indian manufacturers
				of motor operated actuators and
				electrically operated SOVs are not
				referring the mentioned Indian
				standards in their design as per
				their published catalog. The
				applicability of Indian standards is
				required to be deliberated in
				Sectional committee meeting.

4.	New Subjects For Standard Formulation	Ramani Iyer to submit the refined list segregating the standards for various sub- groups to BISin 1-month time.	Committee deliberated upon adopting IEC standards related to smart manufacturing, smart cities etc. It was felt that inputs from manufacturing industries should be obtained while adopting IEC standards relevant to Indian scenario. Shri Nanda Kumar to share Manufacturing industries details. Members from Manufacturing industries will be included in Group ET 18-SM. Sub-committee meeting will be planned with the updated composition to discuss the IEC standards.
5.	Review ofIndian Standards For Revision/Reaffir mation -Industrial Electroheating standards	Emails sent to Bhillai Steel Plant to provide contact details of Durgapur Steel Plant (SAIL). Reply Awaited from all identified organizations. The subject was discussed at length andit was felt that this committee has no experts relevant to these set of standards. Hence, it was decided that Shri Ravinder Kumar Raina, Bharat Heavy Electricals Ltd. shall reach out to the concerned unit in BHEL to obtaininformation about use of these Industrial Electro heating standards within a month. If a lack of expertise and inputs is reported from his end, these standards shall be transferred to MTD or PGD. Reply Awaited from Shri Ravinder Kumar Raina, Bharat	electro heating subject.

		Heavy Electricals Ltd.	
6.	InternationalActivities	Mr Raju was to make brief presentations on IEC 61508 and IEC 61511 and the progress of work in IEC.	Mr C. R. Raju updated the committee regarding the progress of work under IEC 61508 and IEC 61511.
			Shri Nanda Kumar to organize a meeting for presentation regarding the latest developments discussed during the 4 Day conference in Cietal.
			The decision on adopting the IEC will be taken after the presentation.
7.	IS/IEC 62264 (Part 2):	The document has been sent into	The committee decided to wide
	2004	circulation as a P-draft for a period of 1 month.	circulate the IEC for the period of 1 month.
	Enterprise - Control system integration: Part 2 object model attributes	No comments received.	System Integration Industries Honeywell, ABB, Schneider, Yokogawa will be informed for their comments.

ITEM 2 PRESENT POSITION OF WORK OF ETD 18

2.1 The committee noted the information given in the agenda. The decision with respect to several Indian Standards in the Program of Work is listed in table below.

SI. No.	IS	Title	Decision Taken
1.	IS/IEC 519-1 : 1984	Safety in electroheat installation Part 1 general requirements	Committee decided to Wide circulate the IEC for the period of 1 month
2.	IS/IEC 519-3 : 1988	Safety in electroheat installations Part 3 particular requirements for induction and conduction heating and induction melting installations	Committee decided to Wide circulate the IEC for the period of 1 month
3.	IS/IEC 1131-2 : 1992	Programmable controllers Part 2 equipment requirements and tests	Committee decided to Wide circulate the IEC for the period of 1 month

4.	IS/IEC 1308 : 1994	High frequency dielectric heating	Committee decided to Wide
	IEC 61308 : 1994	installations - Test methods for the determination of power output	circulate the IEC for the period of 1 month
5.	IS/IEC 519-5 : 1980	Safety in electroheat installation Part 5 specification for safety in plasma installation	Committee decided to withdraw the standard as base IEC 60519-5: 1980 has been withdrawn.
6.	IS/IEC 519-9 : 1987	Safety in electroheat installations Part 9 particular requirements for high - Frequency dielectric heating installations	Base IEC 60519-9: 1987 has been replaced by IEC 60519-6: 2022. Committee decided to wide circulate the IEC for the period of 1 month.
7.	IS 5883 : 1970	Specification for nickel resistance thermometer elements	Since the manufacturing and usage of nickel resistance thermometer elements is minimal in the country in recent times and platinum resistance RTDs are being used predominantly in almost all the industrial applications. The committee decided to withdraw the standard.
8.	IS 2848: 1986	Specification for industrial platinum resistance thermometer sensors First Revision	The committee decided to revise and align the standard with IEC 60751:2008 . IEC will be wide circulated for the period of 1 month.
7.	IS 6720 : 1972	Reference tables for platinum 30 percent rhodium - Platinum 6 percent rhodium thermocouples	Committee decided to supersede the standard with IEC 60584-1: 2013 and IEC 60584-3: 2021. IEC 60584-1: 2013 already adopted in ETD 18. IEC 60584-3: 2014 will be wide circulated for the period of 1 month.
10.	IS 4309 : 1979	Methods of measurement on direct reading PH meters First Revision	IEC publications will be shared with all the member to check the relevant
11.	IS 6804 : 1972	Specification for glass electrodes for direct reading pH meter	IEC standards to revise Indian Standards.
12.	IS 8018 : 1976	Specification for platinum and platinum alloy wires for thermocouple elements	It was decided to seek opinions from Emerson, Forbes and Yokogawa IA Technologies India Private Limited to revise these standards.
13.	IS 10189 (Part 2/Sec 1) : 1993	Industrial process control valves Part 2 flow capacity Sec 2 sizing equations for compressible fluid flow under installed conditions	IS 10189 (Part 2/Sec 1) : 1993 is Modified/Technically Equivalent of Base IEC: IEC Pub 534 - 2 : 1978
14.	IS 10189 (Part 2/Sec 2) : 1993	Industrial process control valves Part 2 flow capacity Sec 2 sizing equations for compressible fluid	IS 10189 (Part 2/Sec 2) : 1993 is Modified/Technically Equivalent of IEC Publication 534-2-2 (1980)

flow under installed conditions	
	Both International standards have been replaced by IEC: IEC 60534-2- 1:2011. It was decided to seek opinions from FCRI to revise both Indian Standards.

ITEM 3 REVIEW OF COMPOSITION OF BASIC ELECTROTECHNICAL STANDARDS AND POWER QUALITY SECTIONAL COMMITTEE, ETD 01

3.1 The committee reviewed the composition. It was requested to all the participants to inform BIS regarding any change in their current organization. It was decided to send the mail to all non-participating organizations to reconfirm their nominations.

ITEM 4 INTERNATIONAL ACTIVITIES

4.1 The committee noted the information given in the agenda. Members are requested to review the information given in Annex 4 of Agenda (*POW of IEC TC*) and send inputs via email.

4.2 The committee discussed the Proposal for transferring the working groups of IEC TC 65 (Industrial-process measurement, control, and automation) from ETDC to LITDC. The scope of relevant LITD committee will be shared with the members to review the proposal. Due to lack of expertise in the meeting, inputs from the manufacturing industries will be obtained on the above proposal. A sub-group meeting with experts of LITD will be planned to discuss the proposal.

ITEM 5 IMPLEMENTATION STATUS OF INDIAN STANDARDS

The committee noted the information given in the Agenda.

ITEM 6 TRAINING PROGRAMME

The Committee noted the information about NITS which has been setup by BIS to provide quality platform to various organization who might need assistance for their personnel to achieve quality in their field.

ITEM 7 ANY OTHER BUSINESS

ITEM 8 DATE AND PLACE OF NEXT MEETING

The following timelines were decided:

ETD 18: Dec 2022 (in consultation with chairman)