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BUREAU OF INDIAN STANDARDS

Minutes

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Equipment for Electrical Energy Measurement and Load Control Sectional Committee, ETD 13	43 rd	Friday	05/01/2024	10:30AM	Virtual mode

CHAIRPERSON: Shri B.A.Sawle

MEMBER SECRETARY: Shri Sandeep Khokar

SI No.	Name of Organization	Represented by	Email
1.	Central Power Research Institute, Bengaluru	Shri Sawale B.A. (Chairperson)	dgcpri@cpri.in
2.	Adani Electricity Limited, Mumbai	Shri Arvind Rai	Arvind.Rai@adani.com
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4.	Assam Electricity Grid Corporation Limited, Guwahati	Shri Ashutosh Bhattacharjee	ashutosh.bhattacharjee@gmail.com
5.	Bureau of Energy Efficiency, New Delhi	Shri Rewti Raman	rewti.raman94@beeindia.gov.in
6.	BSES Rajdhani Power Limited, New Delhi	Shri Rishi Goyal	rishi.goyal@relianceada.com
7.	BSES Yamuna Power Limited, New Delhi	Shri Gaurav Sharma Shri Ashish Kumar Joshi	gaurav.a.sharma@relianceada.com gaurav.a.sharma@relianceada.com
8.	Bosch Global Software Technologies Private Limited, Bengaluru	Shri Atul Parkhi	parkhi.atul@gmail.com
9.	Bureau of Energy Efficiency, New Delhi	Shri Rewti Raman	rewti.raman94@beeindia.gov.in

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17.	Genus Power Infrastructures Limited, Jaipur	Shri Ranvir Singh Rathore Shri Anukram Mishra	rs.rathore@genus.in anukram.mishra@genus.in
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26.	Secure Meters Limited, Gurugram	Shri Rajnish Ameta	rajnish.ameta@securemeters.com
27.	Tata Power Delhi Distribution Limited, New Delhi	Shri Saurav Chandel Shri Subhadip Ray Chaudhuri	saurav.chandel@tatapower-ddl.com subhadip2409@gmail.com
28.	Uttar Gujarat Vij Company Limited, Mehsana	Shri A.N.Diwan	dehitechlab@ugvcl.com
29.	Yadav Measurements Private Limited, Udaipur	Shri Balmukund M Vyas	balmukund.vyas@yadavmeasurements.com
30.	Zera India Private Limited	Shri Shailendra Goyal Shri Kartikiya Sharma Shri Abhijit Kumar	s.goyal@zera.co.in k.sharma@zera.co.in a.kumar@zera.co.in

Item 0 Welcome and Opening Remarks by the Chairperson

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

In view of no comments, the committee formally confirmed the minutes of the 42nd meeting of Equipment for Electrical Energy Measurement and Load Control Sectional Committee, ETD 13 which was held on 04/10/2023.

Item 2 ACTIONS ARISING OUT OF PREVIOUS MEETING

SI No.	Item	Background	Decision of the last meetings	Action/Remarks	Decision Taken
1.	Comments from CEA A letter from CEA has been received regarding Provision of net metering in IS 15884.	In the 40th sectional committee meeting, the same was discussed. The committee felt that prepaid functionality (Remote) will be handled at MDM end and IS 15959 (Part 2) has provisions to shift to pre-paid	Remained undiscussed because there was no representative from the CEA present. Letter will be sent to CEA in this regard.	To be discussed in the meeting.	Remained undiscussed because there was no representative from the CEA present.

	See Annexure 1 of the agenda.	functionality. However, it was decided to re-discuss this in presence of CEA again in the next meeting as committee requested for clarification regarding the exact nature of change being asked by CEA. Ms Pooja (CEA) agreed to communicate regarding the same to the relevant division of CEA.			
2.	Letter from MOP regarding need for AMI seamless integration See Annexure 5 of the agenda.		A Letter from MOP regarding Need for AMI seamless Integration Framework is received. The same was discussed in the meeting and a working group was formed for development of technical framework for facilitating seamless integration/standardization of important key elements which are integral part of AMI Ecosystem with Schneider Electric India Pvt Ltd as convenor and authority has given to convenor to co-opted members in the working group.	Shri Vijay Singh Babel M/s Schneider Electric India Private Limited may update the committee regarding the progress of work.	AMI framework is beyond the scope of this committee. Opinions of ETD 13 is that it comes under the scope of LITD 10. So, this will be forwarded to the LITD 10 and there can be a joint WG between LITD 10 and ETD 13 to work upon this.

Item 3 P-DRAFTS Under Circulation

SI No.	IS no. and Title (with details of processing so far)	Decision taken in last meeting	Action	Decision Taken
1.	IS 15959 (Part 1): 2011 Data exchange for electricity meter	With regards to concerns raised by some committee members regarding the legal implications of deploying and commercializing an	This has been discussed in Panel 1 meeting held on 31st Oct, 2023. Minutes of Panel 1 meeting is attached as	Committee has decided to send a letter to the International Electrotechnical Commission (IEC) inquiring about the nature of the

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	<p>reading, tariff and load control — Companion specification (REVISION)</p> <p>Doc ETD 13 (21555)</p>		<p>Indigenous test tool, which is based on the IEC 62056 standard, derived from the content of DLMS UA.</p> <p>Mr. Om Krishan from MEITY has assured that they will re- evaluate the legal aspects of this tool to prevent any future intellectual property infringement issues.</p> <p>Panel 1 was asked to review the IS 15959 series and remove the reference of DLMS from the standard.</p> <p>It was also decided to the retain the line as stated in note 9 under Table no. 31 and note 7 under table no. 48 as mentioned in amendment No 5 to IS 15959 (Part 1): 2011 and additional lines that are not in Amendment no 5 are to be removed.</p>	<p>Annexure 2.</p>	<p>agreement between IEC and DLMS. This purpose of this to mitigate any potential implications on the SMITHA tool concerning any intellectual property rights (IPR) in the future.</p> <p>The following members will draft the letter:</p> <ol style="list-style-type: none"> 1. Dr Om Krishan Singh (Convenor) 2. Shri Vinoo S Warriar 3. Shri K Jiju 4. Mr. Shri Shailendra Goyal <p>Apart from this, BIS will explore the possibility to take the legal opinion from the Ministry of the Law.</p>
<p>2.</p>	<p>IS 15959 (Part 2):</p> <p>2016 Data exchange for electricity meter reading, tariff and load control- Companion Specification (AMENDME</p>		<p>Panel 1 was asked to review the IS 15959 series and remove the reference of DLMS from the standard.</p>	<p>This has been discussed in Panel 1 meeting held on 31st Oct, 2023.</p> <p>Minutes of Panel 1 meeting is attached as Annexure 2.</p>	<p>Refer item no. 3 (SI. No.-1)</p>

	NT 3)				
	Doc ETD 13 (21718)				

Item 4 DRAFTS UNDER PREPARATION

Sl. No	IS no. and Title	Details	Decision Taken in Previous Meeting	Action Taken	Decision Taken
1.	DC Energy Meter	<p>The committee had decided to prepare a skeleton document using IS 13779 as the reference for general requirements and combining it with the requirements given in the draft IEC standard on DC Metering. Chairman of the committee had asked Mr B M Vyas to prepare the skeleton document with help of Mr Jhalora and provide the same to BIS for further circulation as P-draft for 1 month within the committee.</p> <p>In the last meeting, Mr Vyas made a brief presentation before the committee explaining the structure of the IEC standards and its difference from the structure of Indian standards on Electrical Energy metering. He explained how the Indian Standards structure is more of a 'Product Standard' based structure</p>	<p>Mr B M Vyas, M.s YMPL labs and Mr Narang Kishore updated the committee that the draft shall be submitted before the next sectional committee meeting of ETD 13.</p>	<p>Mr Narang Kishore and Mr B M Vyas to update the committee on progress of work.</p>	<p>Mr Narang Kishore informed that the draft will be submitted within a month.</p> <p>It was also decided to write to the ETD 51 to seek inputs for EV charger requirements for metering purpose of EVs chargers.</p>

		<p>whereas, in IEC, different standards exist for:</p> <ul style="list-style-type: none"> • - General requirements such as Constructional, climatic and EMC & type tests etc.), • - Safety requirements and • - Particular requirements. <p>Thus, one single draft document on DC Energy Meter is being prepared in line with other Indian Standards on Electrical Energy Metering. He explained that while drafting the skeleton document for Indian Standard on DC Energy Meter, Standard ratings, Safety</p>			
2.	<p>Pluggable Communication module– Smart Meters</p> <p>(Informative annexure</p>	<p>Members had considered the document shared by NSGM. Mr Arun Mishra (NSGM) proposed that only Power and Data Interface may be standardized. Chairman clarified</p>	<p>Mr Ashish Gaur, M/s Genus will prepare white paper and that will be circulated among the committee members.</p> <p>Mr Deepak</p>	<p>Mr Aashish Gaur, M/s Genus, Convener (WG 1/Panel 1) to update the committee on progress of work.</p>	<p>The following members were co-opted in the Working Group to draft informative annexure on Pluggable Communication module– Smart Meters:</p>

	only)	<p>that in order to standardize the pluggable module provision, design changes would call for type testing.</p> <p>Shri Shailendra Goyal (M/s ZERA) had also offered to share similar documents (which are openly available and are not copyright protected) formulated by Germany as a concept document.</p> <p>Further, the committee noted that in one of the meetings with MoP, it was noticed that the work related to standardization of ‘Common Pluggable Communication Module’ needs to be taken up on priority.</p> <p>Given the urgency, Chairman proposed to form a working group WG 1 under Panel 4 under the convenorship of Mr Aashish Gaur, M/s Genus to draft an ‘informative annexure as a guideline for common pluggable module’.</p> <p>The draft is under preparation under WG 1/Panel 1. Mr Aashish Gaur, Convenor (WG 1/Panel 1), in the last sectional committee had informed that the first meeting had been</p>	Nimare agreed to help Mr Ashish gaur in this regard.		<ol style="list-style-type: none">1. Mr Ashish Gaur2. Mr Deepak Nimare3. Mr Ashish Kumar Joshi
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		<p>held in Dec 2021 and the work had been initiated. He informed that committee that the WG was working towards identifying the challenges and possible solutions by obtaining inputs both from the manufacturing and the HES end.</p> <p>Mr Narang Kishore updated the committee that no inputs were received from the panel members. He was requested to continue his work w.r.t clarification for DoT policy of IPv6 for communication.</p>			
3.	<p>Dual Source meters</p> <p>(Informative annexure only)</p>	<p>Chairman suggested having informative annexure on Dual source meters would be helpful in this regard. It was decided to collect use case data for the same and draft an annexure accordingly which would be suitably incorporated in the existing Indian Standards. Mr Kishore Narang was allocated the task to prepare this informative annexure.</p> <p>In the last meeting, Mr Narang Kishore informed that the draft is under preparation and will share the same by year end for consideration of the committee. It was</p>	<p>Mr Kishore Narang has submitted a draft and that draft will be circulate in the committee for obtaining comments from the committee members.</p> <p>The working group is formed to draft Informative Annexure on Dual Source meter.</p> <p>The following members were co-opted in the Working Group:</p> <p>i) Mr Rajnis</p>	<p>Mr Rajnish Ameta to update the committee on progress of work.</p>	<p>The following members were co-opted in the Working Group to draft informative annexure on Dual Source Meters:</p> <ol style="list-style-type: none"> 1. Mr Rajnish Ameta (Convenor) 2. Mr Atul Parkhi 3. Mr A.N.Diwan 4. Ms. Deepa Wadhkar 5. Mr Bajrang Agarwal

		decided to circulate the draft within the committee for 15 days for obtaining comments from the committee members.	<p>h Ameta (Conv enor)</p> <p>ii) Tata Power Delhi Distrib ution Limite d</p> <p>iii) HPL Electri c and Power Limite d</p> <p>iv) Narnix Techn olabs Private Limite d</p> <p>v) BSES Rajdha ni Power Limite d</p> <p>vi) BSES Yamu na Power Limite d</p>		
4.	Group Metering		Mr. Brajnath Dey has communicated to the committee that meetings have taken place on this and this subject is currently in discussion. Mr Subhadip will provide an update in the next	Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the committee on progress of work.	<p>Committee feels that group metering does not fit in the current framework of the standards and there is a need of separate standard for group metering.</p> <p>The following members were co-opted in the Working Group to draft standard on Group</p>

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			meeting.		metering: <ol style="list-style-type: none"> 1. Mr Bajrang Agarwal 2. Mr. Kartikiya Sharma 3. Shri Saurav Chandel 4. Mr. Arvind Rai 5. Mr. Ashish Kumar Joshi 6. Mr Sandeep Teemerva
5.	Composite Metering		This subject is currently under discussion in Panel 4, and the draft will be shared soon.	Convenor of Panel 4 may update the committee regarding the progress of work.	The committee decided to creating an initial draft. Subsequently, a decision will be made regarding its incorporation into the existing standards or whether to draft a separate standard.
6.	Informative annexures to IS 15959 (Parts 1, 2, 3) for guidance on interpretation and implementation of the IS 15959 series	The committee had decided that an informative annexure shall be added to IS 15959 (Part 1, 2 and 3) for guidance on interpretation and implementation of the provisions (eg. programming conditions) of these standards. A working group P1/WG 2 was constituted for discussion and formulation of the informative annexures.	Mr Shiva Kumar informed that the draft shall be submitted latest by end of October.	Mr Shiva Kumar may update the committee regarding the progress of work.	A working group will be constituted for discussion and formulation of the informative annexures under panel 1 and authority is given to panel to co-opt members in WG.
7.	IS 15959 (Part 3):	It was informed by the Convenor of WG 1/Panel 1, Mr Gaur	Panel 1 was asked to review the IS 15959 series and	This has been discussed in Panel 1	Refer item no. 3 (SI. No.-1)

	<p>2017 Data Exchange for Electricity Meter Reading, Tariff and Load Control — Company Specification Part 3 Smart Meter (Transformer Operated kWh and kVARh, Class 0.2 S, 0.5 S and 1.0 S) (AMENDMENT 1)</p>	<p>that the finalized draft shall be submitted after further deliberations in WG 1/Panel 1. It was decided to align the changes for this draft amendment in line with the changes being made in Amd 3 to IS 15959 (Part 2). Mr Gaur confirmed that this amendment shall follow once Amd 3 to IS 15959 (Part 2) is prepared.</p>	<p>remove the reference of DLMS from the standard.</p>	<p>meeting held on 31st Oct, 2023. Minutes of Panel 1 meeting is attached as Annexure 2.</p>	
<p>8.</p>	<p>IS 16444 (Part 1): 2015 A.C. Static Direct Connected Watthour Smart Meter Class 1 and 2— Specification</p>	<p>A Working Group WG 1/Panel 4 under the Convenorship of Mr Rajnesh Ameta, M/s Secure Meters, was formed to draft the standard. In the last meeting of sectional committee, after detailed discussions taking into consideration:</p> <ul style="list-style-type: none"> • changes being introduced in the draft 	<p>Mr Rajnish Ameta informed that the draft amendment to in line with the changes in IS 13779 and IS 15884 shall be submitted latest by end of October.</p>	<p>Draft Amendment submitted by Mr. Rajnish Ameta (see Annexure 6)</p>	<p>The committee agreed to circulate the draft as P-draft among the committee members for 15 days and if No comments received than doc may be sent for Wide Circulation with approval of Chairman.</p>

	(AMENDMENT 3)	<p>revision document of IS 15884,</p> <ul style="list-style-type: none"> • informative annexure as a guideline for common pluggable module, and • - considered extension of implementation of IS 13779: 2020, the committee decided to re-draft the Amendment to accommodate all relevant changes mentioned above. The revised draft amendment shall be prepared by WG 1/Panel 4 and submitted for consideration of the committee. 			
9.	<p>IS 16444 (Part 2): 2017</p> <p>A.C. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S,</p>	<p>The committee considered the following:</p> <ul style="list-style-type: none"> • changes being introduced in the draft revision document of IS 15884, • informative annexure as a guideline for common pluggable module, and 	<p>Mr Rajnish Ameta informed that the draft amendment to in line with the changes in IS 13779 and IS 15884 shall be submitted latest by end of October.</p>	<p>Draft Amendment submitted by Mr. Rajnish Ameta (see Annexure 7)</p>	<p>The committee agreed to circulate the draft as P-draft among the committee members for 15 days and if No comments received than doc may be sent for Wide Circulation with approval of Chairman.</p>

	<p>0.5S and 1.0S Part 2 Specification Transformer Operated Smart Meters</p> <p>(AMENDMENT 2)</p>	<ul style="list-style-type: none"> implementation of IS 14697: 2021, <p>the committee decided to re-draft the Amendment to accommodate all relevant changes mentioned above. The revised draft amendment shall be prepared by WG 1/Panel 4 and submitted for consideration of the committee.</p>			
<p>10.</p>	<p>IS 14697: 2021</p> <p>AC STATIC TRANSFORMER OPERATED WATTHOUR METERS CLASS 02 S AND 05 S AND VAR-HOUR METERS CLASS 02 S 05 S AND 10 S- Specification</p> <p>(Amendment 2)</p>	<p>The proposal for inclusion of accuracy class (0.1s) in Indian standard for a.c. Static Transformer Watthour Meters, IS 14697 was agreed and approved by the committee.</p>	<p>The committee agreed to circulate the draft as P-draft among the committee members for 30 days and if No comments received than doc may be sent for Wide Circulation with approval of Chairman.</p>	<p>No comments were received during P-draft circulation.</p> <p>Document may be sent for Wide-circulation.</p>	<p>The committee decided to re-circulate the draft as P-draft among the committee members for another 7 days and if No comments received than doc may be sent for Wide Circulation with approval of Chairman.</p>

Item 5 Comments on Published standards.

SI No.	Organization and comments received	Decision Taken in last meeting	Action	Decision Taken
1.	Comments on current edition IS 13779: 2020	Panel 2 will review the additional comments (see annexure 6 of agenda) received on IS 13779: 2020 and draft Amendment to IS 13779: 2020 will be circulate among the committee members as P-draft after incorporating modification based on comments and Chairperson approval.	Additional comments have been discussed in Panel 2 meeting (dated- 03/01/2024) and P-draft will be circulated among the committee members after incorporating modifications based on comments discussed in the panel meeting.	The comments has been discussed in Panel 2 meeting (dated- 03/01/2024) and noted in Annexure 1. Mr B M Vyas to make final draft based on this for submission to ETD13.

Item 6 Review of Pre-2000 Indian Standards

The following Indian Standards under the purview of ETD 13 were published prior to the year 2000 and are due for review. The following decisions were taken:

SI No.	IS No.	Title	Committee member to whom ARP review of IS is allocated	Decision Taken in last meeting	Action Taken	Decision Taken
1.	IS 1766:1998	Time switches for metering and load control (Second Revision)	Shri Shailendra Goyal, ZERA	ARP review is allocated to Shri Shailendra Goyal, Zera India Pvt Ltd.	Shri Shailendra Goyal may update the committee regarding the progress of work.	Committee decided to archived this standard. This will enable the committee to focus on more important standards and also keep the window open for the stakeholders to point out if the review is required.
2.	IS 9792 (Part 1): 1987	Guide for testing calibration and maintenance of AC	Shri Shailendra Goyal, ZERA	ARP review is allocated to Shri Shailendra Goyal, Zera India Pvt	Shri Shailendra Goyal may update the committee regarding	Committee decided to archived this standard. This will enable the committee to focus on more important standards and also

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		electricity meters: Part 1 Single phase whole current wathour meters Class 2.0 (First Revision)		Ltd.	the progress of work.	keep the window open for the stakeholders to point out if the review is required.
3.	IS 14451 (Part 1):1998	Telemetering for consumption and demands: Part 1 Impulse transmitting and receiving devices	Shri Shailendra Goyal, ZERA	<p>It was proposed to re-write the standard and reprint it with required reference and cosmetic changes as the committee felt that it may still have select users and withdrawing the standard without identifying them and seeking their input would rid them of a relevant reference document.</p> <p>The working group agreed to review the standard considering the above and confirm if re-printing of</p>	Shri Shailendra Goyal may update the committee regarding the progress of work.	The committee decided to withdraw the existing standard IS 14451 (Part I) as the same is for telemetering apparatus which is longer in use.

				<p>the document as mentioned above can be carried out.</p> <p>ARP review is allocated to Shri Shailendra Goyal, Zera India Pvt Ltd.</p>		
4.	IS 14451 (Part 2):1999	Telemetry for consumption and demands: Part 2 Direct digital transfer of meter values	Shri Shailendra Goyal, ZERA	<p>It was proposed to re-write the standard and reprint it with required reference and cosmetic changes as the committee felt that it may still have select users and withdrawing the standard without identifying them and seeking their input would rid them of a relevant reference document.</p> <p>The working group agreed to review the</p>	Shri Shailendra Goyal may update the committee regarding the progress of work.	The committee decided to withdraw the existing standard IS 14451 (Part II) as the same is for telemetry apparatus which is longer in use.

				standard considering the above and confirm if re-printing of the document as mentioned above can be carried out. ARP review is allocated to Shri Shailendra Goyal, Zera India Pvt Ltd.		
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It was re-iterated that Action Research projects (ARPs) are to be undertaken for review of the above standards. Action Research is the process of systematic actions carried out using the techniques of research, studying current practices, in order to suggest improvements in existing standards through innovative critical analysis.

The outcome of the ARP could be recommendations for either:

1. Revision (Draft to be submitted) or
2. Reprint with only editorial corrections or
3. Withdrawal (with justification)

Item 7 COMPOSITION OF SECTIONAL COMMITTEE ETD 13

The committee noted the information given in the agenda.

Item 8 PRESENT POSITION OF WORK OF ETD 13

The committee noted the information given in the agenda.

Item 9 INTERNATIONAL ACTIVITIES

9.1 Membership in IEC/TC 13 and New Subjects for Harmonization

The committee noted the information given in the agenda.

9.2 Committee decided to nominate Mr. Shailendra Goyal for Following Working Group of TC-13

- Work Group- 11 (WG-11) Electricity metering equipment

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- Work Group- 14 (WG-14) Data exchange for meter reading, tariff and load control
- Work Group- 15 (WG-15) Smart Metering Functions and Processes

Project team

- PT 62057 Test equipment, techniques and procedures for electrical energy meters
- PT 62057 -3 Test equipment, techniques and procedures for electrical energy meters - Part 3: Automatic Meter Testing System (AMTS)

9.3 Committee decided to nominate Mr. Rajnish Ameta for Following Working Group of TC-13

- Work Group- 11 (WG-11) Electricity metering equipment
- Work Group- 14 (WG-14) Data exchange for meter reading, tariff and load control
- Work Group- 15 (WG-15) Smart Metering Functions and Processes

Item 10 ANY OTHER BUSINESS

The meeting ended with a vote of thanks to the chair.