

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	44 th	Tuesday	11/06/2024	10:30 hrs	Hybrid mode

CHAIRMAN: Shri B A Sawle

MEMBER SECRETARY: Shri Emanuel Abhishek Murmu

Members Present:

Sr. No.	Organization	Member Name	Member Email
1.	Central Power Research Institute, Bengaluru	Shri. Sawale B. A. (Chairperson)	sawle@cpri.in
2.	Central Power Research Institute, Bengaluru	Smt. Viji Bharathi	viji@cpri.in
3.	BIS	Shri Asit Kumar Maharana	heetd@bis.gov.in
4.	BIS	Shri Emmanuel Abhishek Murmu	eetd@bis.gov.in
5.	Uttar Gujarat Vij Company Limited, Mehsana	Shri Alkesh Diwan (Representative)	alkesh.diwan@gmail.com
6.	Central Electricity Authority, New Delhi	Smt. Aarti Singh (Representative)	cedpm.cea@gov.in
		Shri Vivek Goel CEA (Representative)	vivek.goel.cea@nic.in
		Shri Praveen Kamal (Representative)	pmisra.cea@cea.nic.in
7.	Genus Power Infrastructures Limited, Jaipur	Shri Aashish Gaur	aashish.gaur@gmail.com
		Shri Akeel Khan (Representative)	akeel.khan@genus.in
8.	Zera India Private Limited	Shri Abhijit Kumar	a.kumar@zera.co.in
		Shri Shailendra Goyal	s.goyal@zera.co.in
		Shri Kartikiya Sharma	k.sharma@gmail.com
9.	Bosch Global Software Technologies Private Limited, Bengaluru	Shri Ap Parkhi	parkhi.atul@gmail.com
10.	BSES Yamuna Power Limited, New Delhi	Shri Ashish Kumar Joshi	ashish.k.joshi@relianceada.com

11.	Kalki Communication Technologies Private Limited, Bengaluru	Shri Balagopalan Nathoor	balagopal.mathoor@kalkitech.com
		Shri Vinoo S Warriar	vinoo.warrier@kalkitech.com
12.	IntelliSmart Infrastructure Private Limited, Gurgaon	Shri Bijender Malik (Representative)	bijender.malik@intellismartinfra.in
		Shri Navneet Tripathi (Representative)	navneet.tripathi@intellismartinfra.in
13.	Tata Power Delhi Distribution Limited, New Delhi	Shri Brajanath Dey	brajanath.dey@tatapower-ddl.com
		Shri Saurav Chandel	saurav.chandel1996@gmail.com
		Shri Subhadip Ray Chaudhuri	subhadip2409@yahoo.com
14.	Cyan Connode Private Limited, Bengaluru	Shri Deepak Nimare	deepak.nimare@cyanconnode.com
15.	Schneider Electric India Private Limited, Gurugram	Shri Karthik R	karthik.r@lntebg.com
		Shri Vijay Babel	vijay.babel@se.com
16.	Ministry of Electronics and Information Technology, New Delhi	Shri Shri Om Krishan Singh	om.krishan@meity.gov.in
17.	Electrical Research and Development Association, Vadodara	Shri Shri Pankaj Chawla	pankaj.chawla@erda.org
18.	Adani Transmission Limited, Ahmedabad	Shri Raguvendra S Dewra	raguvendral.dewra@adani.com
19.	Secure Meters Limited, Gurugram	Shri Rajnish Ameta	rajnish.ameta@securemeters.com
20.	Bureau of Energy Efficiency, New Delhi	Shri Rewti Raman	rewti.raman94@beeindia.gov.in
21.	Yadav Measurements Private Limited, Udaipur	Shri Bal Mukund Vyas	balmukund.vyas@yadavmeasurements.com
		Shri Sandeep Teemarva (Representative)	sandeep.teemarva@yadavmeasurements.com
22.	Calcutta Electric Supply Corporation Limited, Kolkata	Shri Santosh Chattopadhyay	santosh.chattopadhyay@rpsg.in
23.	Enernovation Private Limited, Udaipur	Shri Surendra Jhalora	sjhalora@gmail.com
24.	Paschim Gujarat Vij Seva Sadan, Rajkot	Shri S N Gediya	sngedia2806@gmail.com
25.	Indian Electrical and Electronics Manufacturers Association, New Delhi	Shri Uttam Kumar	uttam.kumar@ieema.org
		Shri Vipin -TC- IEEMA (Representative)	vipin.mishra@capitalpowers.com
		Smt. Vishakha IEEMA (Representative)	vishakha.chaudhary@ieema.org
26.	BSES Rajdhani Power Limited, New Delhi	Shri Rishi Goyal	rishi.goyal@relianceada.com

27.	HPL Electric and Power Limited, Noida	Shri Sundeep Tandon	sundeeptandon@hplindia.com
		Shri Ramveer Gupta	ramveergupta@hplindia.com
28.	Narnix Technolabs Private Limited, New Delhi	Shri Narang N Kishore	kishor@narnix.com
29.	Centre for Development of Advanced Computing, Pune	Shri K Jiju	jjjuk@cdac.in

Item 0 WELCOME & OPENING REMARKS BY THE CHAIRPERSON

The Chairperson, Shri B.A. Sawale welcomed the members present to the meeting. He appreciated the members for actively joining in the meeting and hoped for a fruitful discussion on all Agenda points.

The Head (ETD), Shri A.K. Maharana welcomed the members. He stressed on the need for active participation by the members for valuable inputs in the preparation of standards and also emphasised on timebound resolution of Agenda points. He also requested support from the members for attending all the meetings for the National cause and for benefits to standardization work.

Member Secretary also welcomed all the members present and requested everyone for their active participation.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 In view of no comments, the committee formally confirmed the minutes of the 43rd meeting of Equipment for Electrical Energy Measurement and Load Control Sectional Committee, ETD 13 which was held on 05.01.2024.

Item 2 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sr. No.	Item	Background	Decision taken during the last meeting	Action reported in agenda	Decision Taken
1	<p>Comments from CEA</p> <p>Comments from CEA have been received regarding provision of net metering in IS 15884 the change in Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 being brought by their draft Amd. 4. Given the above change, CEA has asked to make suitable modifications in the Indian Standards on Smart Meters.</p>	<p>In the 39th sectional committee meeting, letter was received from CEA regarding provision of net metering in IS 15884 owing to the change in Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 being brought by their draft Amd. 4. Given the above change, CEA had asked to include net metering in IS 15884 (see Annex 1 of Agenda)</p>	<p>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 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.</p> <p>Ms Pooja (CEA) agreed to communicate regarding the same to the relevant division of CEA. Remained undiscussed as there was no representative from CEA present during the meeting.</p>	<p>The committee may discuss</p>	<p>Representative from CEA has informed that a committee under CEA has been formed which shall draft the guidelines. The same will be informed to ETD 13 committee after completion.</p> <p>Hence, the committee decided to defer the agenda point until any further information is received from CEA in this case.</p>

2	<p>Letter received from CEA regarding Advanced Metering Infrastructure</p>	<p>A Letter from CEA regarding Standardisation of Advanced Metering Infrastructure (AMI) Chain from Smart Meter up to Billing Software and inter-operability at Head End System (HES) and further layers in AMI chain to eliminate the vendor driven approach has been received by BIS. (see Annex 2 of Agenda)</p>	-	The committee may discuss	<p>Representative from CEA has informed that a committee under CEA has been formed which shall draft the guidelines. The same will be informed to ETD 13 committee after completion.</p> <p>Hence, the committee decided to defer the agenda point until any further information is received from CEA in this case.</p>
3	<p>Informative annexures to IS 15959 (Parts 1, 2, 3) for guidance on interpretation and implementation of IS 15959 series</p>	<p>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.</p> <p>Shri Balagopal informed the committee that a draft has been prepared by Shri</p>	<p>Mr Shivakumar, CPRI Bengaluru agreed to work with Mr B M Vyas, M/s YMPL in order to prepare the informative annexures. The working group P1/WG 2 shall submit the drafts in 2 months' time for consideration of the committee.</p> <p>Mr Shivakumar informed that the draft shall be submitted latest by end of October 2023.</p> <p>A working group will be constituted for discussion and formulation of the</p>	Panel 1/ WG 2 may update on the status of work	<p>The committee opined that informative annexures are added to the standards for elaborating additional information for better clarity, interpretation and implementation of the standards.</p> <p>Panel 1/ WG 2 shall draft the informative annexures which would be reviewed by Panel 1 before submission for consideration of committee.</p>

		<p>Shivakumar. He informed that the draft can be finalized after further deliberation in the panel.</p> <p>It was decided to appoint Mr B M Vyas as the convener of P1/WG</p> <p>2. The panel composition was also updated. The composition of the panel is as follows:</p> <p>1) Shri B M Vyas, M/s YMPL – Convener</p> <p>2) Shri Balagopal, M/s Kalkitech</p> <p>3) Shri Deepak Nimare</p> <p>4) Shri Viji Bharati, CPRI</p> <p>5) Shri Aashish Kumar Gaur</p> <p>6) Shri R Karthik, M/s Schneider Electric Pvt. Ltd.</p> <p>7) Shri Devendra Vyas, M/s HPL Electric & Power Ltd.</p> <p>8) Shri Rajnish Ameta</p> <p>9) Shri Shailendra Goyal, M/s Zera</p> <p>10) Shri Bajrang Agarwal, M/s Genus.</p>	<p>informative annexures under panel 1 and authority is given to panel to co-opt members in WG.</p>		
--	--	---	---	--	--

Item 3 REVISION OF/ AMENDMENTS TO EXISTING INDIAN STANDARDS

Sr. No.	Item	Background	Decision of the last meetings	Decision Taken
1	<p>IS 15959 (Part 1): 2011 Data Exchange for Electricity Meter Reading, Tariff and Load Control - Companion Specification (REVISION) Doc ETD 13 (21555)</p>	<p>Mr Aashish Gaur, M/s Genus (Convener, P1/WG 1) informed the committee that the final merged document incorporating the panel recommendations has been prepared. It was decided to list the changes made in the document since its last amendment (i.e. Amd. 5 to IS 15959 (Part 1): 2011 edition) and include the same in the Foreword of the document. Mr Gaur agreed to incorporate this list of changes in the Foreword and submit the document to BIS.</p> <p>Members were requested to examine the document and provide comments within stipulated time.</p> <p>A proposal was received from CPRI regarding the integration of SMITHA-BSMPA, an indigenous testing tool (for metering protocol related to IS 15959 series and IS 16444 series) is jointly developed by CPRI and CDAC, into the existing standards. This issue was discussed in the Panel 1 meeting held on July 26th at CPRI, Bangalore, and a P-draft document has</p>	<p>Committee has decided to send a letter to the International Electrotechnical Commission (IEC) inquiring about the nature of the agreement between IEC and DLMS. The purpose of this is 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 (Convener) 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> <ul style="list-style-type: none"> • Draft IS 15959 Part 1 attached at Annex 3 of Agenda • Letter to IEC attached at Annex 4 of Agenda • Mail from IEC attached at Annex 5 of Agenda • Legal opinion on IPR infringement attached at Annex 6 of Agenda 	<p>Chairman has informed that the project leader of SMITHA test tool has approached Hon'ble Karnataka High Court against CPRI management wherein the SMITHA development has also been referred. Hence as the DG of CPRI, the Chairman has recused himself from deciding on this matter.</p> <p>With respect to any potential implications on the SMITHA tool concerning any intellectual property rights (IPR) violation issues that may arise, CPRI refused to take this responsibility. However, Mr K Jiju from CDAC-T informed that CDAC is ready to take responsibility w.r.t. IPR issue, if any.</p> <p>The Chairman also suggested that the above matter may be discussed and decided under the chairmanship of any other member. The possibility will be explored by BIS and accordingly a meeting would be scheduled to discuss on this particular agenda.</p> <p>The committee has decided that the process of revision of</p>

		<p>been prepared by the Panel, which includes this proposal as well as other comments received during the preliminary draft circulation.</p> <p>With regards to concerns raised by some committee members regarding the legal implications of deploying and commercializing an 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. Panel 1 was asked to review the IS 15959 series and remove the reference of DLMS from the standard. It was also decided to 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>IS 15959 (Part 1) incorporating all the existing amendments (from Amd. No. 01 to 05) shall continue without waiting for any decision or action on SMITHA tool. The requirements related to proposed change for SMITHA tool shall be deleted for the time being in proposed amendment. Same can be reconsidered later depending on the decision made by committee.</p> <p>As for the matter regarding inclusion of SMITHA tool into the standard, it shall be deliberated upon separately and shall be added as an amendment to the revised IS 15959 (Part 1), after approval from the committee.</p>
2	<p>IS 15959 (Part 2): 2016 Data Exchange for Electricity Meter Reading, Tariff and Load Control-Companion Specification</p>	<p>The committee had decided that a method of implementation needs to be formulated for transition of the Security Mechanism (IS 15959 series). A Working Group</p>	<p>The committee agreed to keep the security mechanism id 2 and 5 as alternate permitted options to allow smooth transition in future and the same is</p>	<p>The committee decided to wide circulate draft amendment no. 03 to IS 15959 (Part 2): 2016 for 30 days for inputs. In case no inputs are received</p>

<p style="text-align: center;">(AMENDMENT NO. 03) & Transition of the Security Mechanism</p>	<p>P1/WG 3 under the convenership was formed. The composition of the WG is given below: Mr Vinoo S. Warriar, Kalkitech-Convener 1) Ms Viji Bharathi, CPRI 2) Mr Shivakumar, CPRI 3) M/s Tata Power 4) M/s L+G 5) M/s HPL 6) M/s Secure Meters 7) M/s Genus 8) M/s CESC 9) Mr Deepak Nimare, M/s Cyanconnode.</p> <p>Additional members were to be coopted by the convener for completing the task as recommended by the panel. This work is to be carried out in coordination with P1/WG 1 so that necessary incorporations may be made in IS 15959 series while drafting its amendments. Mr Bali from NSGM was requested to bring together stakeholders from HES and MDM suppliers so that all stakeholders viewpoints are taken into consideration. Mr S Warriar and Mr Balagopal informed the committee that queries had been sent to HES vendors and that based on the inputs received from HES implementation agencies, no further change was made in the recommendation of the WG. It was also</p>	<p>to be incorporated in IS 15959 series. Mr Aashish Gaur, M/s Genus confirmed that he had incorporated the same in IS 15959 (Part 2) amendment document.</p> <p>Security mechanism id 2 and 5 have been incorporated in draft amendment no. 03 to IS 15959 (Part 2) as permitted alternate options to allow smooth transition (see Annex 7 of Agenda)</p>	<p>within the stipulated period, the amendment shall be forwarded for printing with the approval of the chairman.</p>
---	--	--	---

		<p>decided to include the change regarding HLS security mechanism as decided under P 1/WG 3. Mr Vinoo S. Warriar, Kalkitech – Convener (P1/WG 3) and Mr Balagopal, Kalkitech agreed to co-ordinate with Mr Gaur to provide necessary change.</p> <p>Informative Annexure being prepared under P1/ WG 2 under the convenership of Mr Shivakumar, CPRI (Bengaluru) shall also be included in the draft document.</p>		
3	<p>IS 15959 (Part 3): 2017 Data Exchange for Electricity Meter Reading, Tariff and Load Control- Companion Specification- Part 3 Smart Meter (Transformer Operated kWh and kVARh, Class 0.2 S, 0.5 S and 1.0 S) (AMENDMENT NO. 01)</p>	<p>It was informed by the Convener of P1/WG 1, Mr Gaur that the finalized draft shall be submitted after further deliberations in P1/WG 1. It was decided to align the changes for this draft amendment in line with the changes being made in Amd. No. 03 to IS 15959 (Part 2). Mr Gaur confirmed that this amendment shall follow once Amd. No. 03 to IS 15959 (Part 2) is prepared.</p>	<p>Mr Gaur informed that the Amd. No. 01 to IS 15959 (Part 3) would follow once Amd. No. 03 to IS 15959 (Part 2) goes into wide circulation.</p>	<p>The work on draft amendment no. 01 to IS 15959 (Part 3) is yet to be started by Panel 1/WG 1. The committee requested Panel 1/ WG 1 to take up the task of drafting the amendment. Recommendations shall be reviewed by Panel 1 before submission for consideration of committee.</p>
4	<p>IS 15707: 2006 Testing, Evaluation, Installation and Maintenance of a.c. Electricity Meters — Code of Practice (REVISION) Doc ETD 13 (21557)</p>	<p>Shri BM Vyas, Convener of the WG 2/Panel 2 had informed the committee that 8 meetings of the WG 2/Panel 2 have been held.</p> <p>Mr Surendra Jhalora, M/s Enernovation submitted before the committee that no such standard exists in</p>	<p>Committee decided to Wide Circulate the document and if No comments received. The doc may be sent for printing with approval of Chairman.</p> <p>Panel 2/ WG2 yet to submit finalised draft IS 15707 (see Annex 8 of Agenda) incorporating the</p>	<p>Clarifications pending w.r.t. draft IS 15707 are as follows:</p> <ol style="list-style-type: none"> 1. Do we keep IS 13010 in this scope? 2. Clause 10.2.2 : RTC drift not specified for class 1 / 2 meters 3. 11.2.2 : MDMS definition 4. Table 2 / 12.3.1 : load points shall be specific value or range

		<p>IEC and that this standard in its current form must also be considered for submission as a NP in IEC TC 13.</p> <p>The committee further agreed to submit the same draft as New Work Item Proposal (NP) to IEC TC 13 committee as no standard on this subject exists in IEC and this is a very important standard for testing, evaluation, installation and maintenance of a.c. electricity meters.</p> <p>Members agreed to provide comments on the draft document. It was decided that comments shall be resolved by Panel 2. Utilities may be added in the panel for a considered discussion. The panel recommendations shall be considered in the sectional committee for incorporation of suitable changes in the draft. Once the committee approves the draft document for wide circulation, that draft shall then be submitted as a New Work Item proposal (NP) to IEC TC 13. Additionally, CESC has submitted a proposal to include Informative, Guiding Annexure for “Selection of Proper Rating & Effective and efficient</p>	<p>Informative Index (see Annex 9 of Agenda)</p> <p>NOTE: This has reference to revision of IS 15707: 2016 and incorporation of an informative annexure regarding Whole current meter current rating.</p> <p>It is requested to update on the work status of the document. It is also informed that as per clause 6.1.15 of IS 12: 2005, 'the normative or informative annexes shall be placed after the main body of the standard and should be referred to somewhere in the standard'. In view of this, the WC meter current rating must be referred to somewhere in the main draft standard IS 15707. This may be taken into account while finalising the draft document.</p>	<p>5. 12.10 : Verification of meters after any change</p> <p>6. 13: list of probable defects</p> <p>7. List of reference standards to be updated</p> <p>The committee decided that reference to IS 13010 shall be removed and IS 13010 shall be archived.</p> <p>The committee requested Mr Rajnish Ameta to review the point nos 2, 3, 4, 5, 7 and also requested Mr Subhadip Ray Chaudhuri to review point no 6. The recommendations shall then be evaluated by Panel 2/ WG 2 and thereafter circulated to committee members for comments as P-draft.</p>
--	--	--	---	---

		<p>utilisation of whole current meters by the utilities” in the revised draft of IS 15707 and same has been discussed in Panel 2 meeting held on 23rd June at CPRI, Bangalore and panel has decided not to restrict the current ratings for whole current meters as it will contradict with CEA regulations.</p> <p>No change required in Draft prepared by Panel 2.</p>		
5	<p>IS 12346: 1999 Testing Equipment for a.c. Electrical Energy Meters (First Revision) (REVISION) Doc ETD 13 (25722)</p>	<p>Mr Goyal, Convener of WG 3/Panel 2 informed the committee that several meetings of the WG have been conducted and the draft revision document is being prepared based on IEC 62057. The working draft is expected to be ready in another 6 months.</p> <p>Mr Goyal informed the committee that 23 meetings so far have been conducted and that the draft prepared shall be submitted latest by end of February.</p>	<p>Mr Kartikey Sharma, M/s Zera (on behalf of Mr Goyal) informed the committee that 28 meetings so far have been conducted and that the draft prepared shall be submitted latest by end of February, 2023. Draft IS 12346 attached at Annex 10 of Agenda</p> <p>Mr Kartikey Sharma, M/s Zera has submitted draft standard IS 12346 for comments vide email dated 27.04.2024. P-draft has been circulated to members for comments for a period of 30 days i.e. till 20.06.2024</p>	<p>The committee decided to re-circulate the P-draft till 11.07.2024 for comments.</p>
6	<p>IS 16444 (Part 1): 2015 a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2 - Specification (AMENDMENT NO. 03)</p>	<p>A Working Group WG 1/Panel 4 under the Convenership of Mr Rajnesh Ameta, M/s Secure Meters, was formed to draft the standard.</p> <p>In the last meeting of sectional committee, after detailed</p>	<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 2023.</p> <p>Draft amendment no. 03 submitted by Mr.</p>	<p>The committee decided that draft amendment no. 03 to IS 16444 (Part 1) would be kept in abeyance until IS 15884 and IS 15959 (Part 1) are revised. Consecutively, the comments received on the draft</p>

		<p>discussions taking into consideration:</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 • 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. 	<p>Rajnish Ameta (see Annex 11 of Agenda). The draft amendment was circulated among committee members as P-draft for 15 days. Comments from members are attached at Annex 11 of Agenda</p>	<p>amendments would be deliberated and discussed jointly by Panel 1 and Panel 4.</p>
<p>7</p>	<p>IS 16444 (Part 2): 2017 a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, 0.5S and 1.0S Part 2 - Specification Transformer Operated Smart Meters (AMENDMENT NO. 02)</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 • implementation of IS 14697: 2021, the committee decided to re-draft the Amendment to accommodate all relevant changes mentioned above. The revised draft amendment shall be 	<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 2023.</p> <p>Draft amendment no. 02 submitted by Mr. Rajnish Ameta (see Annex 12 of Agenda). The draft amendment was circulated among committee members as P-draft for 15 days. Comments from members are attached at Annex 12 of Agenda</p>	<p>The committee decided that draft amendment no. 02 to IS 16444 (Part 2) would be kept in abeyance until IS 15884 and IS 15959 (Part 1) are revised. Consecutively, the comments received on the draft amendments would be deliberated and discussed jointly by Panel 1 and Panel 4.</p>

		prepared by WG 1/Panel 4 and submitted for consideration of the committee.		
8	IS 14697: 2021 a.c. Static Transformer Operated Watthour Meters (Class 0.2S And 0.5S) and Var-Hour Meters (Class 0.2S, 0.5S and 1S)-Specification (AMENDMENT NO. 02)	<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 the P-draft circulation. 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 07 days and if No comments are received than doc may be sent for Wide Circulation with approval of Chairman.</p> <p>Comments have been received from Mr Sujith Unnikrishnan, M/s SEIPL. Point-wise clarification has been provided by convener Mr B M Vyas, M/s YMPL (see Annex 13 of Agenda)</p>	<p>The committee decided that the draft amendment no. 02 to IS 14697 would be reviewed by Mr Vyas (Convener, Panel 2) and thereafter submit the rectified draft to BIS for wide circulation for 30 days. In case no inputs are received within the stipulated period, the amendment shall be forwarded for printing with the approval of the chairman.</p> <p>Consecutively, recommendation to be send to ETD 34 for addition of 0.1s accuracy class into IS 16227 (Part 2): 2016</p>

Item 4 DRAFTS UNDER PREPARATION

Sr. No.	Title	Decisions taken in last meetings	Actions taken - reported in the agenda	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</p>	<p>Mr Narang Kishore and Mr B M Vyas to update the committee on progress of work.</p> <p>Mr Narang Kishore and Mr B M Vyas have submitted the draft standard for Static Meter for DC Energy (Class 0.5 and 1.0), see Annex 14 of Agenda</p>	<p>A working group was formed to draft the framework for DC Energy Meter and following members were co-opted in the working group:</p> <p>i) Mr Surendra Jhalora (Convener) ii) Mr B.M. Vyas iii) Mr Narang N. Kishore iv) Mr Rajnish Ameta.</p>

		<p>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 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 requirements, General and Constructional requirements and metrological requirements will be</p>		<p>The working group shall present the framework to ETD 13 members by the next sectional committee meeting scheduled on 13.09.2024</p>
--	--	---	--	--

		<p>consolidated from IS 13779 and IEC 62052-31, making changes as per India-specific conditions. He further emphasized that guidance w.r.t the following is required from relevant sectional committees such as ETD 50, ETD 51 and ETD 52:</p> <ul style="list-style-type: none"> i. Standard values for voltages and current ii. Immunity requirements <p>He was requested to give details of the information required from the above committees with Member Secretary and Mr Narang Kishore so that necessary inputs may be obtained for preparation of the document.</p>		
2	<p>Pluggable Communication module – Smart Meters (Informative annexure only)</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 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</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 Nimare agreed to help Mr Ashish Gaur in this regard.</p>	<p>Mr Ashish Gaur to put up the paper to Panel 4. Panel 4 to update the committee on progress of work in the next sectional committee meeting scheduled on 13.09.2024</p>

	<p>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.</p> <p>Mr Aashish Gaur, Convenor (WG 1/Panel 1), in the last sectional committee had informed that the first meeting had been 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</p>		
--	--	--	--

		<p>received from the panel members. He was requested to continue his work w.r.t clarification for DoT policy of IPv6 for communication.</p> <p>Mr Aashish Gaur, M/s Genus, Convener (WG 1/Panel 1) apprised the committee regarding the progress of work in the Working group in the meeting held on 09 Jan.</p> <p>The working group was advised to work for defining a mechanical slot especially Pin out mechanical requirements. The following members were co-opted in the Working Group: i) Cynaconnode ii) Wirepas iii) Zera</p> <p>The committee authorized the WG convener to co-opt additional members from cellular communication providers too.</p>		
3	<p>Dual Source Meters (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</p>	<p>A working group is formed to draft Informative Annexure on Dual Source meter. The following members were co-opted in the Working Group: i) Mr Rajnish Ameta (Convener) ii) Tata Power Delhi Distribution Limited iii) HPL Electric and Power Limited</p>	<p>The working group under Mr Rajnish Ameta (Convener) shall prepare the draft and update on the progress to the committee members within 2 months.</p>

		<p>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 decided to circulate the draft within the committee for 15 days for obtaining comments from the committee members.</p> <p>Mr Kishore Narang has submitted a draft and that draft will be circulated in the committee for obtaining comments from the committee members.</p>	<p>iv) Narnix Technolabs Private Limited v) BSES Rajdhani Power Limited vi) BSES Yamuna Power Limited vii) Mr Atul Parkhi, M/s Bosch Global viii) Mr A N Diwan, M/s Uttar Gujarat Vij Company Ltd ix) Ms Deepa Wadhkar x) Mr Bajrang Agarwal</p> <p>Mr Rajnish Ameta to update the committee on progress of work.</p>	
4	<p>Group Metering</p>	<p>Mr Subhadip Ray Choudhury, M/s Tata Power-DDL informed that the work is yet to be initiated. He was advised to co-opt utilities like Adani, CESC, MGVCL and MPMKVCL in the group.</p> <p>The utilities agreed to assist in R&D testing for simulation of use cases so that a draft document may be prepared.</p> <p>Mr. Brajnath Dey has communicated to the committee that meetings have taken place on this and this subject is currently in discussion. Mr Subhadip Ray Choudhury will</p>	<p>Committee felt 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 metering:</p> <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 	<p>Mr Ashish Gaur to reassess the requirement of group metering document with the support from Mr Subhadip Ray Choudhury and circulate the findings to Panel 2 for review.</p>

		provide an update in the next meeting.		
5	Composite Metering	This subject is currently under discussion in Panel 4, and the draft will be shared soon.	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.	Mr Subhadip Ray Choudhury has circulated the findings to BIS on 11.07.2024 The document shall be circulated to Panel 2 for review.
6	ABT Meter	Panel 2 was asked to prepare a working draft and circulate among the committee members.	Mr B M Vyas (convenor Panel 2) informed that the work is yet to be initiated and will take up this in the upcoming Panel meetings.	Panel 2 to prepare a working draft and update the committee on progress of work within 6 months.
7	Grid regulation to be incorporated in the new IS	Panel 2 was asked to prepare a working draft and circulate among the committee members.	Mr B M Vyas (convenor Panel 2) informed that the work is yet to be initiated and will take up this in the upcoming Panel meetings.	Panel 2 to prepare a working draft and update the committee on progress of work within 6 months.

Item 5 COMMENTS ON PUBLISHED STANDARDS

Sr. No.	Organisation and comments received	Decision taken in last meeting	Action
1	<p>Comments on current edition IS 13779: 2020</p> <p>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.</p> <p>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.</p>	<p>The comments have been discussed in Panel 2 meeting (dated- 03/01/2024) and noted.</p> <p>Mr B M Vyas to make final draft based on this for submission to ETD13.</p> <p>Mr B M Vyas has submitted draft amendment 01 to IS 13779: 2020 (see Annex 15 of Agenda).</p>	<p>The committee decided to circulate the draft amendment among the committee members for comments for 15 days.</p> <p>The comments received shall be reviewed and resolved by Panel 2.</p>

Item 6 COMPOSITION OF SECTIONAL COMMITTEE, ETD 13

6.1 The following requests for co-option were accepted by the committee:

- i) M/s ERTL (West), Mumbai
- ii) M/s Landys+Gyr Ltd, Noida

Chairperson will write to MDs of Utilities from South India for seeking nominations.

Item 7 ANNUAL CALENDAR OF TECHNICAL COMMITTEE MEETINGS

It was decided to hold the next meeting tentatively on 13.09.2024 at BIS HQ, New Delhi in the next quarter of the year. The final date and place of the meeting shall be decided in consultation with the Chairperson of the committee.

Item 8 ANY OTHER BUSINESS

A new work item on kVAh metering standard was discussed and the committee decided on forming a working group for drafting the document. Members were requested to refer IEC, IEEE and CENELEC standard documents. Mr Surendra Jhalora has agreed to share his paper on kVAh metering as a reference with the committee.

Mr Narang N Kishore informed that a new project on 'Metering as a module' is being developed by JAHG 17 (joint working group at IEC between IEC TC 13 and IEC TC 69) for electric vehicle charging. NWIP is in the making and would soon be circulated for comments to ETD 13 and ETD 51. The committee noted the information.

There being no other business, the meeting ended with a vote of thanks to the chair.