## **BUREAU OF INDIAN STANDARDS**

# **MINUTES**

Name of the	No. of	Day	Date	Time	Venue
Committee	Meetin				
	g				
Equipment for	41 <sup>st</sup>	Tuesday	10/01/2023	1030 h	Lal C Verman Hall
Electrical Energy					Manak Bhawan
Measurement and					BIS Headquarters, 9 Bahadur
Load Control					Shah Zafar Marg, New Delhi
Sectional					
Committee, ETD 13					

CHAIRPERSON: Shri B.A.Sawle MEMBER SECRETARY: Smt Meghna Mudgal

Sl. No.	Organization	Name
1.	Chairperson (ETD 13)	Shri B.A. Sawale
	Central Power Research Institute	
2.	Member Secretary (ETD 13)	Smt Meghna Mudgal
	Bureau of Indian Standards	
3.	Adani Transmission Limited	Shri Manoj Taunk
4.	BSES Rajdhani Power Limited	Shri Rishi Goyal
5.	BSES Yamuna Power Limited	Shri Ashish Kumar Joshi
6.	Calcutta Electric Supply Corporation Limited	Shri Udayan Ganguly
7.	Central Electricity Authority	Ms Bhaavya Pandey
8.	Central Power Research Institute	Smt Mridula Jain
9.	Central Power Research Institute	Shri V. Shivakumar
10.	Central Power Research Institute	Smt Viji Bharathi
11.	CyanConnode Private Limited	Shri Deepak Nimare
12.	CyanConnode Private Limited	Shri Manish
13.	Genus Power Infrastructures Limited	Shri Bajrang Agarwal
14.	Genus Power Infrastructures Limited	Shri Kuldeep Dhiman
15.	Genus Power Infrastructures Limited	Shri Aashish Gaur
16.	Genus Power Infrastructures Limited	Shri Ranvir Singh Rathore
17.	HPL Electric and Power Limited	Shri Sundeep Tandon
18.	HPL Electric and Power Limited	Shri Devendra Vyas
19.	HPL Electric and Power Limited	Shri Ramveer Gupta
20.	India Smart Grid Forum	Shri Reji Kumar Pillai
21.	Indian Electrical and Electronics Manufacturers Association (IEEMA)	Shri Uttam Kumar
22.	Indian Electrical and Electronics Manufacturers Association (IEEMA)	Shri Saad Faruqui
23.	Kalki Communication Technologies Private Limited	Shri Balagopalan Nathoor
24.	Narnix Technolabs Private Limited	Shri Kishor N. Narang
25.	National Smart Grid Mission, Ministry of Power	Shri Atul Kumar Bali

		(Virtual Presence)
26.	Paschim Gujarat Vij Seva Sadan	Shri S N Gediya
27.	Schneider Electric India Private Limited	Shri Sujith Unnikrishnan
28.	Secure Meters Limited	Shri Rajnish Ameta
29.	Secure Meters Limited	Shri Mukesh Hingar
30.	Secure Meters Limited	Shri Hemant Kumar Sharma
31.	Secure Meters Limited	Shri S K Rattampal
32.	Tata Power Delhi Distribution Limited	Shri Saurav Chandel
33.	Tata Power Delhi Distribution Limited	Shri Subhadip Ray Chaudhuri
34.	Uttar Gujarat Vij Company Limited	Shri A.N.Diwan
35.	Yadav Measurements Private Limited	Shri Balmukund M Vyas
36.	Zera India Private Limited	Shri Shailendra Goyal
37.	Zera India Private Limited	Shri Kartikiya Sharma

### Item 0 Welcome and Opening Remarks by the Chairperson

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

Member secretary welcomed the members to the meeting and briefed the members regarding various agenda points which required detailed discussions and solicited the co-operation of the members for completing the agenda in time.

#### Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

In view of no comments, the committee formally confirmed the minutes of the 40<sup>th</sup> meeting of Equipment for Electrical Energy Measurement and Load Control Sectional Committee, ETD 13 which was held on 01/07/2022.

#### Item 2 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sl.	Item	Item	Background	Decision taken in the last	Action	<b>Decision Taken</b>
No	no of			meeting	Report	
	Last				ed in	
	minu				the	
	tes				agenda	

2. 2 (SI No. 10) No. 1	to IS and 15959 and (Parts 1, 2, (Farts 1, 2	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 tandards.  A working group P1/WG 2 was constituted for discussion and formulation of the informative annexures.	been prepared by Shri Shiva Kumar. He informed that the draft can be finalized after further deliberation in the panel. It was decided to appoint Mr B M Vyas as the convener of WG 2/P1. The panel composition was also updated. The composition of the panel is as follows:  1) Shri B M Vyas, M/s YMPL - Convenor 2) Shri Balagopal, M/s Kalkitech 3) Shri Deepak Nimare 4) Shri Viji Bharati, CPRI 5) Shri Ashish Kumar Gaur	Vyas, M/s YMPL, Conve ner (WG 2/P1) to update the commit tee on the progres s of work.	Bengaluru agreed to work with Mr B M Vyas, M/s YMPL in order to prepare the informative annexures.  The working group WG 2/P1 shall submit the drafts in 2 months' time for consideration of the committee.
formed. The keep the security mechanism ment comments on composition of the id 2 and 5 as alternate docum the same.	No. of the domain of the Security of Mechanis of the Mechanis of the Security of the Mechanis of the Security of the Security of the Mechanis of the Security	decided that a method of implementation needs to be formulated for transition of the Security Mechanism (IS 15959 series).  A Working Group P1/WG 3 under the convenorship was formed. The	Schneider Electric Pvt. Ltd.  7) Shri Devendra Vyas, M/s HPL Electric & Power Ltd.  8) Shri Rajnish Ameta 9) Shri Shailendra Goyal, M/s Zera 10) Shri Bajrang Agarwal, M/s Genus  Mr S Warrier 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; see Annex 1 of the minutes of the last meeting.  The committee agreed to keep the security mechanism	y mecha nism id 2 and 5 have been incorpo rated in IS 15959 (Part 2) amend ment	noted the information given alongside.  Members were requested to examine the draft Amd 3 to IS 15959 (Part 2) (Doc ETD 13 (21718)) and provide comments on

Mr Vinoo S. and the same is to be ed alternat warrier, Kalkitech - Convener options	
Warrier, Kalkitech series. e options	
- Convener options	
1) Ms Viji   Mr Aashish Gaur, M/s Genus   to	ļ
Bharathi, CPRI   confirmed that he had allow	
2) Mr Shiva incorporated the same in IS smooth	
Kumar, CPRI 15959 (Part 2) amendment transiti	
3) M/s Tata document. on.	
Power Potts document:	
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	
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	
WG 1/Panel 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/view-	
points are taken	
into consideration.	

#### **Item 3 COMPOSITION OF SECTIONAL COMMITTEE ETD 13**

- **3.1** The present composition of ETD 13 along with list of panels was reviewed by the committee. The following was decided:
  - i) New Conveners for the following panels were appointed:
    - a) Panel 1 Maintenance of IS 15959 series: New Convener Ms Viji Bharathi, CPRI
    - b) Panel 2 Maintenance of IS 13779, IS 14697, IS 15884: New Convener Mr B M Vvas, YMPL Labs
    - c) Panel 4 Maintenance of IS 16444 (Parts 1 and 2): New Convener Mr Subhadip Ray Choudhury, M/s Tata Power-DDL
- ii) It was decided to remove ITRON from the committee due to continuous lack of participation in the committee work.
- **3.2** The following co-option requests were accepted by the committee:
- i) M/s Wirepas To ensure reprentation from the RF Mesh provider end.
- ii) M/s Bosch Global Software Technologies HES

Co-option requests of M/s. Linkwell Telesystems Pvt Ltd and M/s Electrify Energy Pvt Ltd were not accepted as industry and industry association is currently well represented in the committee. However, it was decided to add the two in the additional mailing list so that comments may be obtained from the two and they may accordingly re-apply after sometime where the committee may re-consider their contribution to the standardization work and also participation of other members in the committee.

#### **Item 4 PRESENT POSITION OF WORK OF ETD 13**

The committee noted the information given in the agenda.

#### Item 5 FINALIZED DRAFTS UNDER PRINT

Sl No.	IS no. and Title processing so far)	(with details of	Decision Taken in the last	Action Reported in the agenda	Decision Taken
			meeting	agenaa	
NEW	7				
1.	IEC TR 62059-11:	Wide circulated	It was	This document	The committee
	2002 Electricity	as <b>Doc ETD 13</b>	decided to	is under print	noted the
	metering	( <b>19813</b> ) on 13	send the	since no	information
	equipment -	June 2022	document for	comments were	given in the
	Dependability -Part		printing, if	received during	agenda.
	11: General	Last date of	no comments	wide circulation	
	concepts	comments: 12	are received	period.	
		Aug 2022	during the		
			wide		
		No comments	circulation		
		received so far.	period.		
2.	IEC TR 62059-21:	Wide circulated	It was	This document	The committee
	2002 Electricity	as <b>Doc ETD 13</b>	decided to	is under print	noted the
	metering	( <b>19814</b> ) on 13	send the	since no	information
	equipment -	June 2022	document for	comments were	given in the
	Dependability -		printing, if	received during	agenda.

	Dont 21. Call. 4!.	Loot data . C	no ocara	wide sime-1-4!-	
	Part 21: Collection			wide circulation	
	of meter	comments: 12	are received	period.	
	dependability data	Aug 2022	during the		
	from the field		wide		
		No comments	circulation		
		received so far.	period.		
3.	IEC 62059-31-1:	Wide circulated	It was	Following	The committee
	2008 Electricity	as <b>Doc ETD 13</b>	decided to	comments have	agreed that
	metering	( <b>19816</b> ) on 13	send the	been submitted	there is a need
	equipment –	June 2022	document for	by M/s	of an Indian
	Dependability –		printing, if	Schneider	Standard on the
	Part 31-1:	Last date of	no comments	Electric Pvt.	subject.
	Accelerated	comments: 12	are received	Ltd.:	J
	reliability testing –		during the		
	Elevated		wide	"Regarding	Also, no
	temperature and	No comments	circulation	Dependability	decision from
	humidity	received so far.	period.	standard IEC	IEC has been
		10001100 00 101.	Politou.	62059-31-1, we	communicated
				got inputs from	to INC so far
				colleagues who	regarding any
				are involved in	withdrawal of
				standards	the IEC
				committee of	
				other countries	in process.
				that there were	in process.
				feedback to IEC	Hence, the
				committee from	committee
				the industry on	approved the
				IEC 62059-31-1	document for
				that the standard	printing and
				has proven to be	the testing
				-	_
				difficult to use	laboratories
				as the test is	-
				time consuming	meeting were
				and the results	apprised
				are not	specially
				convincing.	regarding the
				IEC	testing
				IEC committee	requirements
				is reviewing the	so as to take up
				inputs for the	enhancement
				same.	of test facilities
				Wa anasat t	as and when
				We suggest to	need arises for
				check with the	implementation
				progress on this	of the standard.
				standard in IEC	
				committee. If	
				the standard is	
				under review,	
				we can wait till	

				conclusion before adoption of the standard as it is. Considering the testing infrastructure availability in India, it will be difficult to practice the standard."	
metering equipment Dependab Part Durability Testing stability metrologic characteris applying	ility – 32-1: Last of the of the stics by elevated (19817)	c ETD 13 7) on 13 022 date of ents: 12	It was decided to send the document for printing, if no comments are received during the wide circulation period.	The committee may discuss.  This document is under print since no comments were received during wide circulation period.	The committee noted the information given in the agenda.
2006 I metering equipment Dependab Part 41: I prediction	Electricity as Do (19818)  t - June 2  ility - Reliability Last common Aug 20  No	c ETD 13 B) on 13 022 date of ents: 12	It was decided to send the document for printing, if no comments are received during the wide circulation period.		The committee noted the information given in the agenda.
6. IS 1588 Alternatin direct community of the second static properties of the energy (Class 1 a Specificate)	g current nected as Do (17673) or active June 2 Last commodion June 2 No	date of ents: 30	The committee approved the document for printing.	The document is under print. See Annex 4 of the agenda.	The committee approved and noted the document enclosed with the agenda.

### **Item 6 DRAFTS APPROVED FOR WIDE CIRCULATION**

The committee noted the information given in the agenda.

## **Item 7 P-DRAFTS UNDER CIRCULATION**

Sl	IS no. and Titl	le (with details of processing so far)	Action	Decision Taken
No.			Reported in the	
			agenda	
REVI	SION			
1.	IS 15707:	Shri BM Vyas, Convener of the WG 2/Panel 2 had informed	The draft is	Members agreed to provide comments on
	2006 Testing,	the committee that 8 meetings of the WG 2/Panel 2 have been	under P-draft	the draft document.
	evaluation,	held.	circulation as	
	installation and maintenance of	Mr Surendra Jhalora, M/s Enernovation submitted before the	Doc ETD 13	It was decided that comments shall be
	a.c. electricity	committee that no such standard exists in IEC and that this	(21557).	resolved by Panel 2. Utilities may be
	meters — Code of	standard in its current form must also be considered for		added in the panel for a considered
	practice	submission as a NP in IEC TC 13.		discussion.
	(REVISION)			The panel recommendations shall be
		The committee agreed to circulate the draft as P-draft among		considered in the sectional committee for
	Doc ETD 13	the committee members for 30 days.		incorporation of suitable changes in the
	(21557)			draft.
		The committee further agreed to submit the same draft as New		
		Work Item Proposal (NP) to IEC TC 13 committee as no		Once the committee approves the draft
		standard on this subject exists in IEC and this is a very		document for wide circulation, that draft
		important standard for testing, evaluation, installation and		shall then be submitted as a New Work
		maintenance of a.c. electricity meters.		Item proposal (NP) to IEC TC 13.
2.	IS 15959	Mr Ashish Gaur, M/s Genus (Convenor of WG 1/Panel 1)	The draft is	Members were requested to examine the
	( <b>Part</b> 1):	informed the committee that the final merged document	under P-draft	document and provide comments within
	<b>2011</b> Data	incorporating the panel recommendations has been prepared.	circulation as	stipulated time.
	exchange for	It was decided to list the changes made in the document since	Doc ETD 13	
	electricity meter reading, tariff and	its last amendment (i.e. Amd 5 to IS 15959 (Part 1): 2011	(21555).	In case, comments are received during P-
	load control —	edition) and include the same in the Foreword of the		draft circulation, comments shall be
	Companion	document.		resolved by WG 1/P1. Recommendations
	specification	Mr Aashish Gaur agreed to incorporate this list of changes in		of WG 1/P1 shall be considered by Panel
				P1 before submission for consideration of

	(REVISION)	the Foreword and submit the document to BIS.		ETD 13 committee.
	(KEVISION)	the Foreword and submit the document to Bis.		ETD 13 committee.
	Doc ETD 13 (21555)	In the last sectional committee meeting, Mr Gaur had agreed to provide the draft in 1 week after incorporation of the detailed list of changes made in the document since its last amendment in the foreword of the standard.		In case no comments are received during P-draft circulation, the committed decided to put the draft in wide circulation for 60 days.
		The committee agreed to circulate the draft as P-draft among the committee members for 30 days.		
3.	IS 15959	In the Joint meeting of Panel 1 and Panel 4 held on 29 Sept	The draft is	Members were requested to examine the
	(Part 2):	2021, it was decided to add the following to the under	under P-draft	document and provide comments within
	2016 Data exchange for electricity meter reading, tariff and load control-	preparation draft amendment:  "Amendment to be made to Table 10: Bit no. 85 Last Gasp (Occurrence of Power failure) Bit no. 86 First Breath (Occurrence of Power restoration)	circulation as Doc ETD 13 (21718).	In case, comments are received during P-draft circulation, comments shall be
	Companion Specification  (AMENDME NT 3)	Amendment to be made to notes under Table 10:  Note 1 – To be retained as it is.  Note 2- Bits associated with events which are not applicable shall always be set to '0'. Bit status will be '1' for occurrence & '0' for restoration. For example, in case of load disconnection (301), bit (84) status will be '1' & '0' for load connection (302).		resolved by WG 1/P1. Recommendations of WG 1/P1 shall be considered by Panel P1 before submission for consideration of ETD 13 committee.  In case no comments are received during
	Doc ETD 13 (21718)	Note 3- In case of event id, the odd number is for occurrence & the even number is for restoration."  Committee approved the modification proposed in the joint meeting of Panel 1 and 4.  It was also decided to include the change regarding HLS security mechanism as decided under WG 3/Panel 1. Mr Vinoo S. Warrier, Kalkitech – Convener (WG 3/Panel 1) and Mr Balagopal, Kalkitech agreed to co-ordinate with Mr Gaur to provide necessary change.  Informative Annexure being prepared under WG 2/P1 under the convenorship of Mr Shiva Kumar, CPRI (Bengaluru) shall		P-draft circulation, the committed decided to put the draft in wide circulation for 60 days.

	also be included in the draft document.		
	The committee agreed to circulate the draft as P-draft among		
	the committee members for 30 days.		

## **Item 8 P-DRAFTS UNDER PREPARATION**

Sl No.	IS no.	Details	Decision Taken in	Action	<b>Decision Taken</b>
	and		the last meeting	Reported in	
	Title			the agenda	
New Subjects					
1.	DC Energy Meter	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.  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:  - General requirements such as Constructional, climatic and EMC & type tests etc.), - Safety requirements and - Particular requirements.  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	Mr Surendra Jhalora, M/s Enernovation Pvt. Ltd. was asked to take up the skeleton document prepared by Mr B M Vyas as a working draft and submit a P- draft.  Mr Jhalora agreed to submit a White paper detailing the following:  - Terms of Reference - Details of testing of DC meters around the world	Mr Jhalora to update the committee on progress of work.	Mr B M Vyas, M.s YMPL labs and Mr Narang Kishore, M/S Narnix Technolabs were allocated the task to jointly work and prepare the draft document, taking the IEC document as base document and submit the working draft for consideration of the committee within 3 months.

		Insprimentational and Constructional requirements and	II. samed to submit		
		requirements, General and Constructional requirements and	He agreed to submit		
		metrological requirements will be consolidated from IS 13779 and	the above white		
		IEC 62052-31, making changes as per India-specific conditions.	paper in 15 days.		
		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:			
		i. Standard values for voltages and current			
		ii. Immunity requirements			
		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.			
2.	Pluggabl	Members had considered the document shared by NSGM. Mr Arun	Mr Aashish Gaur,	WG 1/Panel	Mr Aashish Gaur, M/s
	e	Mishra (NSGM) proposed that only Power and Data Interface may	M/s Genus,	1 has a	Genus, Convener (WG
	Commu	be standardized. Chairman clarified that in order to standardize the	Convener (WG	meeting	1/Panel 1) apprised the
	nication	pluggable module provision, design changes would call for type	1/Panel 1) informed	scheduled on	committee regarding the
	module-	testing.	the following:	09 Jan 2023.	progress of work in the
	Smart		- The WG 1/Panel		Working group in the
	Meters	Shri Shailendra Goyal (M/s ZERA) had also offered to share similar	1 met once since	Mr Aashish	meeting held on 09 Jan.
		documents (which are openly available and are not copyright	the last sectional	Gaur, M/s	
	(informat	protected) formulated by Germany as a concept document.	committee	Genus,	The working group was
	ive		meeting.	Convenor	advised to work for
	annexure	Further, the committee noted that in one of the meetings with MoP,	However, Group	(WG 1/Panel	defining a mechanical
	only)	it was noticed that the work related to standardization of 'Common	members were	1) to update	slot especially Pin out
		Pluggable Communication Module' needs to be taken up on	not able to	the	mechanical requirements.
		priority.	conclude the	committee.	_
		Given the urgency, Chairman proposed to form a working group	content of		The following members
		WG 1 under Panel 4 under the convenorship of Mr Aashish Gaur,	common		were co-opted in the
		M/s Genus to draft an 'informative annexure as a guideline for	pluggable		Working Group:
		common pluggable module'.	document		i) Cynaconnode
			- The next meeting		ii) Wirepas
		The draft is under preparation under WG 1/Panel 1.	(physical		iii) Zera
		Mr Aashish Gaur, Convenor (WG 1/Panel 1), in the last sectional	meeting) was		The committee
		committee had informed that the first meeting had been held in Dec	scheduled at		authorized the WG

		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.  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.	CPRI Bhopal on 11th July to discuss the issues and conclude it.  - Chairman had shared one reference document which was created with same objective. The document would be taken as input during the discussion on 11th July.  Mr Narang Kishore agreed to share the draft letter/inputs for sending another		convener to co-opt additional members from cellular communication providers too.
			letter in consultation with Chairperson of the committee.		
3.	Dual Source meters (informat ive annexure only)	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.  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.	Mr Kishore informed that the draft is under preparation and will share the same shortly for review by the committee.	Mr Narang Kishore to update the committee.	Mr Narang Kishore informed that the work is yet to be initiated. He agreed to prepare and submit the informative annexure on Dual source meters within 1 month.

decided that a new document can be prepared for group metering. A working group was constituted for the same with Mr Subhadip Ray Annex 12.  Tata Power-DDL and the work is yet to be initiated. He was advised to co-opt weekers and other relevant stakeholders in the working group. The utilities agreed to assist in R&D testing for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  decided that a new proposal regarding proposal regarding group. He was advised to co-opt MFWKVCL in the group. The utilities agreed to assist in R&D testing for simulation of use cases to that a draft document may be prepared.  L) has also working group. The utilities agreed to assist in R&D testing for simulation of use cases to that a draft document may be prepared.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the location of the proposal regarding which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the location of the proposal regarding group. The utilities like Adani, testing the work is yet to be initiated. He was advised to co-opt MFWKVCL in the group. The utilities agreed to assist in R&D testing for simulation of use cases to that a draft document may be prepared.	4.	Group	-	It was further	MGVCL has	Mr Subhadip Ray
document can be prepared for group metering. A working group was constituted for the same with Mr Subhadip Ray Choudhury, M/S Tata Power-DDL as the convenor for drafting the same He was authorized to co-opt members from utility. L.) has also manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.    Modern DDL informed that the work is yet to be initiated. He was advised to co-opt utilities like Adani. GESC, MGVCL and MPMKVVCL in the group.    MP.Madhya Rshetra Vidyut Vitran of the was authorized to co-opt members from utility. L.) has also submitted a proposal group. The draft would be submitted in 3 months time.    Modern DDL informed that the work is yet to be initiated. He was advised to co-opt utilities like Adani. GESC, MGVCL and MPMKVVCL in the group.    MPMKVVCL in the group. The draft would be submitted a proposal relation of the working group. The draft would be submitted in 3 months time.    Modern DDL informed that the work is yet to be initiated. He was advised to co-opt utilities like Adani. The utilities agreed to assist in R&D testing for simulation of use cases submitted a proposal submitted and the working group. The draft would be submitted in 3 months time.		_		decided that a new	submitted a	1
prepared for group group was constituted for the same with Mr Subhadip Ray Choudhury, M/s Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.    Prepared for group regarding Group metering which is given at Annex 13.		g		document can be	proposal	Power-DDL informed
group was constituted for the same with Mr Subhadip Ray Choudhury, Mr Same with Mr Subhadip Ray Choudhury, Mr Same with Mr Subhadip Ray Choudhury, Mr Subhadip Ray Choudhury Ray Ch				prepared for group	regarding	that the work is yet to be
constituted for the same with Mr Subhadip Ray Choudhury, M/s Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  Constituted for the same with Mr Subhadip Ray Choudhury, M/s Tata Power-DDL The utilities alike Adani, egyeen at Annex 12.  WPMKVVCL in the group. The draft would with the proup. The utilities agreed to constitute a proposal regarding for simulation of use cases so that a draft document may be prepared.  Which is given at Annex 12.  Who MPMKVVCL in the group. The group. The group may be prepared.  Which is given at Annex 13.  Wr Subhadip Ray Choudhury, M/s Tata Power-DDL To update the group. The group. The group may be prepared.  Which is given at Annex 12.  Who MPMKVVCL in the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group. The group may be prepared.  Who Wov Clin the group. The group may be prepared.  Who Clin the group. The group. The group may be prepared.  Who Clin the group. The group may be prepared.  Who Clin the group. The group may be prepared.  Who Clin the group may be group. The group may be prepared.  Who Clin the group may be group. The group may be group.  The utilities and group. The group may be group.  Th				metering. A working	Group	initiated.
same with Mr Subhadip Ray Choudhury, M/s Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  stame with Mr Subhadip Ray Annex 12. Also, MPMKVVCL in the group. The utilities agreed to assist in R&D testing for vidyut Vitran Co. Ltd. (MPMKVVC Ltd. (MPMKVVC In the group. The utilities agreed to assist in R&D testing for simulation of use cases bubmitted a proposal regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the				group was	metering	He was advised to co-opt
Subhadip Ray Choudhury, M/s Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  Subhadip Ray Choudhury, M/s Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members from utility, L) has also submitted a proposal regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the				constituted for the	which is	utilities like Adani,
Choudhury, M/s Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the draft would be submitted in 3 months time.  Choudhury, M/s Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members (MPMKVC) L) has also submitted a proposal regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the					given at	CESC, MGVCL and
Tata Power-DDL as the convenor for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  The utilities agreed to assist in R&D testing for simulation of use cases (MPMKVVC). L) has also submitted a proposal regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the					Annex 12.	MPMKVVCL in the
as the convenor for drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  As the convenor for drafting the same. He was authorized to co. Ltd. (MPMKVVC L.) has also submitted a proposal regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the				• ,		
drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.    drafting the same. He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.    drafting the same. He was authorized to co- Ltd. (MPMKVVC L.) has also submitted a proposal regarding Group metering which is given at Annex 13.    Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						_
He was authorized to co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  He was authorized to co-opt members (MPMKVVC). L) has also submitted a proposal regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						
co-opt members from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  Co-opt members from utility, L) has also submitted a proposal regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, Mrs Tata Power-DDL to update the					•	
from utility, manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						
manufacturers and other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the				*	`	may be prepared.
other relevant stakeholders in the working group. The draft would be submitted in 3 months time.  Other relevant regarding Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the				• /	· ·	
stakeholders in the working group. The draft would be submitted in 3 months time.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						
working group. The draft would be submitted in 3 months time.  Working group. The draft would be submitted in 3 months time.  Group metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						
draft would be submitted in 3 months time.  metering which is given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						
submitted in 3 months time.  Submitted in 3 given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the					-	
months time.  given at Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						
Annex 13.  Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the						
Mr Subhadip Ray Choudhury, M/s Tata Power-DDL to update the				months time.	_	
Ray Choudhury, M/s Tata Power-DDL to update the					Annex 13.	
Ray Choudhury, M/s Tata Power-DDL to update the					M. C1.1 1'	
Choudhury, M/s Tata Power-DDL to update the					-	
M/s Tata Power-DDL to update the						
Power-DDL to update the						
to update the						
I COMMITTO ON I					committee on	
the progress						
of work.						

Revisio	n of/Ameno	lments to existing IS			
5.	IS	Mr Goyal, Convener of WG 3/Panel 2 informed the committee that	Mr Goyal informed	Mr Goyal	Mr Goyal (Convener,
	12346:	several meetings of the WG have been conducted and the draft	the committee that	(Convener,	WG 3/Panel 2) informed
	1999	revision document is being prepared based on IEC 62057.	the WG 3/Panel 2	WG 3/Panel	the committee that 23
	Testing	The working draft is expected to be ready in another 6 months.	has had 20 meetings	2) to update	meetings so far have
	equipment for		and that the draft is	the	been conducted and that
	ac electrical		almost ready and	committee.	the draft prepared shall
	energy		will be submitted		be submitted latest by
	meters ( <i>first</i>		shortly for		end of February.
	revision)		consideration of the		-
			committee.		It was decided to
	(REVISI				circulate the draft as P-
	ON)				draft among committee
					members for 30 days.
6.	IS 15959	It was informed by the Convenor of WG 1/Panel 1, Mr Gaur that the	Mr Gaur informed		Convenor of WG 1/Panel
	(Part 3):	finalized draft shall be submitted after further deliberations in WG	that the amendment		1, Mr Gaur informed that
	<b>2017</b> Data	1/Panel 1.	1 to IS 15959 (Part		amendment 1 to IS
	Exchange	It was decided to align the changes for this draft amendment in line	3) would follow		15959 (Part 3) shall now
	for Electricity	with the changes being made in Amd 3 to IS 15959 (Part 2).	once Amd 3 to IS		be drafted and submitted
	Meter	Mr Gaur confirmed that this amendment shall follow once Amd 3 to	15959 (Part 2) goes		for consideration of the
	Reading,	IS 15959 (Part 2) is prepared.	into wide circulation.		committee since Amd 3
	Tariff and Load				to IS 15959 (Part 2) has
	Control —		CDAC and ZERA		been put in P-draft
	Companion		comments shared as		circulation.
	Specificatio n		Annex 10 of the		
	Part 3 Smart		agenda of the 40 <sup>th</sup>		
	Meter		meeting to be		
	(Transforme r Operated		considered while		
	kWh and		drafting the		
	kVARh,		Amendment as		
	Class 0.2 S, 0.5 S and		decided in the last		
	1.0 S)		meeting.		
	(AMEN				

DMENT				
1)				
7. IS 16444 (Part 1): 2015 a.c. Static Direct Connected Watthour Smart Meter Class 1 and 2 — Specificatio n  (AMEND MENT 3)	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:	The committee agreed that the changes in IS 15884 were finalized now and also the IS 13779 implementation issue had been taken care of. The informative annexure on common pluggable module was also expected to be finalized soon. It was, decided, to re-draft the amendment in line with the changes mentioned above. WG 1/Panel 4 under the Convenorship of Mr Rajnesh Ameta, M/s Secure Meters agreed to formulate the modified draft amendment 3 to IS 16444 (Part 1) for the consideration of the committee. The committee agreed to circulate the draft (once	Mr Rajnesh Ameta, M/s Secure Meters to update the committee on progress of work.	Mr Rajnesh Ameta, M/s Secure Meters, Convener WG 1/Panel 4 agreed to rework on the draft in line with changes in IS 13779 and IS 15884.  The draft shall then be circulated among committee members as P-draft for 30 days.

Class 0.2S, shall be prepared by WG 1/Panel 4 and submitted for consideration of. The informative circulated among		1		magaired) as D darfe		
8. IS 16444 (Part 2):  - changes being introduced in the draft revision document of IS 15884,  - changes being introduced in the draft revision document of IS 15884,  - changes being introduced in the draft revision document of IS 15884,  - informative annexure as a guideline for common pluggable watthour and Var-Hour Smart Meters, Class 0.2S, Stalic Static Static Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, Stalib be prepared by WG 1/Panel 4 and submitted for consideration of The informative shall be prepared by WG 1/Panel 4 and submitted for consideration of The informative committee members for 30 days.  The committee members for 30 days.  The committee decided that the changes in IS 15884 were finalized now and also the IS 14697 committee on implementation issue had been taken care of. The draft shall then be circulated among				<u> </u>		
8. IS 16444 The committee considered the following:  (Part 2):     Changes being introduced in the draft revision document of IS 15884,     Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, class 0.2S, shall be prepared by WG 1/Panel 4 and submitted for consideration of IS 1/Panel 4 and submitted for committee and that the changes in IS 1/Panel 4 and submitted for committee and that the changes in IS 1/Panel 4 and submitted for committee and that the changes in IS 1/Panel 4 and submitted for committee and that the changes in IS 1/Panel 4 and submitted for committee and that the changes in IS 1/Panel 4 and submitted for c				C		
8. IS 16444 The committee considered the following:  (Part 2):  - changes being introduced in the draft revision document of 2017 a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, Class 0.2S, Shall be prepared by WG 1/Panel 4 and submitted for consideration of I/Panel 4 and submitted for committee committee on that the changes in I/Panel A and submitted for committee decided that the changes in I/Panel A and submitted for committee agreed that the changes in I/Panel A and submitted for committee agreed that the changes in I/Panel A and submitted for committee agreed that the changes in I/Panel A and submitted for committee agreed that the changes in I/Panel A and submitted for committee agreed that the changes in I/Panel A and submitted for committee agreed that the changes in I/Panel A and submitted for committee agreed that the cha						
CPart 2):   2017 a.c.     Static   Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S,   Class 0.2S,     Class 0.2S,     CPart 2):				ř		
2017 a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, Class 0.2S, Static Transformer Operated Watthout Static Transformer Operated Watthout and Var-Hour Smart Meters, Class 0.2S, Class 0.2S, Class 0.2S, Static Transformer Operated Watthout and Var-Hour Smart Meters, Class 0.2S, Class 0	8.				•	
Static Transformer Operated Watthour and Var- Hour Smart Meters, Class 0.2S, C		` ′			· · · · · · · · · · · · · · · · · · ·	ŕ
Transformer Operated Watthour and Var-Hour Smart Meters, Class 0.2S, Shall be prepared by WG 1/Panel 4 and submitted for consideration of the distribution of the dist			,			<u> </u>
Operated Watthour and Var-Hour Smart Meters, Class 0.2S, Shall be prepared by WG 1/Panel 4 and submitted for consideration and also the 1S update the line with changes in 1S 14697 committee on had been taken care work.  Indicates the line with changes in 1S 14697 and IS 15884.  Indicates the line with changes in 1S 14697 and IS 15884.  Indicates the line with changes in 1S 14697 and IS 15884.  The draft shall then be circulated among						
watthour and Var-Hour Smart Meters, Class 0.2S, Shall be prepared by WG 1/Panel 4 and submitted for consideration in the committee decided to re-draft the Amendment to accommodate and submitted for consideration is understant.  14697 committee on progress of had been taken care of the draft shall then be circulated among the committee on progress of the draft shall then be circulated among the committee on progress of the committee on the committee on progress of the committee on			, and the second		1	_
Hour Smart Meters, Class 0.2S, Shall be prepared by WG 1/Panel 4 and submitted for consideration of. The informative of the draft shall then be circulated among		Watthour	- implementation of IS 14697: 2021,	14697	committee on	14697 and IS 15884.
Meters, Class 0.2S, shall be prepared by WG 1/Panel 4 and submitted for consideration of. The informative circulated among			the committee decided to re-draft the Amendment to accommodate	implementation issue	progress of	
class 0.2S, shall be prepared by WG 1/Panel 4 and submitted for consideration of. The informative circulated among			all relevant changes mentioned above. The revised draft amendment	had been taken care	work.	The draft shall then be
			shall be prepared by WG 1/Panel 4 and submitted for consideration	of. The informative		circulated among
0.5S and of the committee. annexure on committee members as			of the committee.	annexure on		committee members as
1.0S Part 2 Specificatio common pluggable P-draft for 30 days.				common pluggable		P-draft for 30 days.
n   module was also		n		module was also		
Transformer expected to be				expected to be		
Operated Smart finalized soon.		_		finalized soon.		
Meters It was, decided, to				It was, decided, to		
re-draft the				re-draft the		
(AMEN amendment in line		(AMEN		amendment in line		
DMENT with the changes		DMENT		with the changes		
mentioned above.		2)				
WG 1/Panel 4 under				WG 1/Panel 4 under		
the Convenorship of				the Convenorship of		
Mr Rajnesh Ameta,				1		
M/s Secure Meters						
agreed to formulate				agreed to formulate		
the modified draft				0		
amendment 2 to IS						
16444 (Part 2) for						
the consideration of				` ·		
the committee.						
The committee	1					

	agreed to circulate	
	the draft (once	
	received) as P-draft	
	among the	
	committee members	
	for 30 days.	

## **Item 9 COMMENTS ON PRINTED STANDARDS**

# 9.1 Comments carried forward from last meeting

Sl	Organization	<b>Decision Taken in the last meeting</b>	<b>Action Reported</b>	Decision Taken
No.	and comments		in the agenda	
	received			
1.	<b>Comments from</b>	In the last sectional committee meeting, the	To be discussed	The agenda point came up for discussion when
	CEA	same was discussed. The committee felt that	in the meeting.	representative of CEA had to excuse herself for
		prepaid functionality (Remote) will be handled		another meeting.
	A letter from	at MDM end and IS 15959 (Part 2) has		-
	CEA has been	provisions to shift to pre-paid functionality.		To be discussed in the next meeting in presence
	received	However, it was decided to re-discuss this in		of CEA representative.
	regarding	presence of CEA again in the next meeting as		
	Provision of net	committee requested for clarification regarding		
	metering in IS	the exact nature of change being asked by CEA.		
	15884. <i>See</i>	Ms Pooja (CEA) agreed to communicate		
	Annex 5 of the	regarding the same to the relevant division of		
	agenda.	CEA.		
2	<b>Comments from</b>	Proposed change by ISGF - Remove Clause 9.3	Working Group	The committee deliberated and discussed on the
(i)	ISGF	of IS 16444	WG 2/Panel 4	proposal in detail.
			has submitted its	The committee agreed that the current
	ISGF has	Decision Taken by ETD 13: Regarding RPL	recommendations	requirement is in no way restricting entry of new
	submitted	routing protocol, ISGF stated that this is required	which are given	technologies and the same is technology
	comments	as there were several technology advancements	at Annex 7 for	agnostic.
	proposing	in the 7 years since publishing of standard and	consideration of	
	changes in IS	suggested this requirement be kept open. He	the committee.	However, based on the feedback of ISGF and

		Г	1
16444. See			Narnix Technolabs, the committee felt that it
Annex 6 of the	with this suggestion. Shri Sundeep Tandon, M/s		appears that certain issues have been faced by
agenda.	HPL opined that this point has to be deliberated		providers of certain communication technologies
	in depth before making a decision. Shri Ashish		even though none have been reported to ETD 13
	Gaur, M/s Genus seconded the opinion and		so far.
	suggested forming a working group for the		
	same. Shri Narang Kishore, M/s Narnix		In order to make the requirements completely
	Technolabs agreed to provide information		technology agnostic in nature to allow latest
	regarding the work done by LITD in this regard.		routing protocols and communication
	The committee agreed that this issue needs to be		technologies, following modification in the
	discussed by the committee further before		clause 9.3.1 may be considered:
	arriving at a decision. It was decided to form a		Network: IPv6 (RPL or other routing
	new Working Group WG 2/Panel 4 and the task		protocols complying to standards from
	of reviewing the existing Communication		ITU/IEC/IEEE/CEN/CENELEC/ETSI/IETF).
	Requirements in IS 16444 (Part 1 and 2) was		, , , , , , , , , , , , , , , , , , , ,
	allocated to the Working Group. Composition of		The above modified text shall be shared as a
	the Working Group is as follows:		proposed amendment to REC and NSGM along
	a. Shri Saurav Chandel, Tata Power-DDL		with state utilities inviting their comments and
	(Convener)		seeking their concurrence/dis-agreement on the
	b. Shri Devendra Vyas, HPL		proposed change.
	c. Shri Kishore Narang, Narnix Technolabs		Further, inputs shall be sought from them for
	d. Ms Viji Bharti, CPRI		proposing changes required in Adaptation layer
	e. Shri Deepak Nimare, CyanConnode		and clause 9.3.2 in accordance with draft
	Private Limited,		changes mentioned above in Network layer.
	f. Shri Balagopal, Kalkitech		changes mentioned above in rectwork layer.
	g. Shri R Karthik, Schneider Electric India		If the above changes are agreed by the utilities,
	Power Ltd.		REC and NSGM, i.e the implementation bodies,
	h. Shri Shailendra Goyal, Zera		the amendment shall be put in wide circulation
	i. Shri Aashish Gaur, Genus		for 60 days.
	j. Shri Rajnish Ameta, Secure Meters		101 00 days.
	k. Shri Shubhadip Ray Chaoudhury, Tata		
	Power-DDL		
	1. Shri Reji Pillai & Shri Amarjeet, ISGF		
+	ISGF Comment 2 - Test Schema for testing	Same as above	The committee agreed that members of ETD 13
	1501 Comment 2 - Test Schema for lesting	Bame as above.	The committee agreed that members of ETD 13

(ii)	meters and communication solutions		must be represented in LITD 28 so as to help
	Decision Taken by ETD 13: Shri Reji Pillai, ISGF suggested that the test scheme for testing meters and communication solutions should be developed by ETD 13.		understand the latest developments and further then draft the informative annexures of IS 15959 series under WG 2/P1.
	Chairman (ETD 13), Shri B.A. Sawale clarified and informed that it has already been decided by the committee to add an informative annexure to the IS 15959 series of standards in this regard to clarify any confusion due to interpretation of clauses. It was informed that a working group WG 2/P1 under Shri Bal Mukund Vyas, M/s YMPL is working on the same.		
2	discussed by the working group WG 2/Panel 4.	Come as above	Same as 2 (i) above
(iii)	ISGF Comment 3 – Other changes suggested:  i. Communication requirements:	Same as above and	Same as 2 (i) above.
(111)	Decision Taken: To be discussed		
	by the working group WG 2/Panel		
	4.	Gaur to confirm.	
	ii. Common Pluggable Modules: To		
	be discussed by the working group		
	WG 1/Panel 1.		

## 9.2 New Comments

Sl	Organization and comments received	Decision Taken
No.		
1.	Comments from M/s Secure Meters (see Annex 8 of the agenda)	The committee discussed the need for providing option for
		simultaneous operation. The committee felt that the need may be
	M/s Secure Meters has submitted comments on Clause 4.3 of IS 15959	application specific and only in special cases.

	(Part 1) – "Requirements for simultaneous operation".	It was, therefore, agreed to include the requirement as an optional requirement only, by means of adding a note after clause 4.3 in IS 15959 (Part 1) stating the following:  NOTE — Wherever there is a requirement for simultaneous operation from utility, the same may be agreed between buyer and supplier.
2.	Comments from Mr Narang Kishore (see Annex 9 and Annex 10 of the agenda)  Mr Narang Kishore, M/s Narnix Technolabs has submitted a proposal	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.
	to higher accuracy class (0.1s) inclusion in Indian standard for AC Static Transformer Watthour Meters (IS 14697).	Since the entire document needs to be modified to accommodate requirements in majority of clauses for the accuracy class 0.1S, it was decided to draft a revision document in place of an amendment.  Panel 2 was asked to prepare the draft revision document of IS 14697 incorporating the above.
3.	Comments from M/s Bosch Global Software technologies  The load control is an important functionality of Smart meter. It is important to standardize the representation of these events. In the current version of the standard, there is lack of clarity in representation	WG 1/P1 convener confirmed that requirement is covered in the draft IS 15959 revision document under circulation.  However, WG 1/P1 was advised to revisit M/s Bosch's comments and discuss with them if needed to incorporate any suitable changes to allow clarity in interpretation of the document.
	of load control event. This is leading to different interpretations and implementation resulting in reporting issues.  This ambiguity can be corrected by any one of the two approaches presented in <b>Annex 14</b> .	If any change is proposed based on the above discussion, WG 1/P1 convener to immediately apprise the committee of any changes so that the same may be discussed before finalizing the draft document in the committee.

### Item 10 REVIEW/REAFFIRMATION OF PUBLISHED INDIAN STANDARDS

**10.1** The committee noted the information given in the agenda.

### 10.2 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:

Sl No.	IS No.	Title	Committee member to whom ARP review of IS is allocated	Decision Taken
1.	IS 1766:1998	Time switches for metering and load control (Second Revision)	Working Group of following members:  i) Shri B.A.Sawale, Chairperson (ETD 13)  ii) Shri B M Vyas, YMPL  iii) Shri Shailendra Goyal, ZERA	The working group agreed to review the standard and submit the ARP report within 2 months' time.
2.	IS 9792 (Part 1): 1987	Guide for testing calibration and maintenance of AC electricity meters: Part 1 Single phase whole current watthour meters Class 2.0 ( <i>First Revision</i> )	Working Group of following members:  i) Shri B.A.Sawale, Chairperson (ETD 13)  ii) Shri B M Vyas, YMPL  iii) Shri Shailendra Goyal, ZERA	The working group agreed to review the standard and submit the ARP report within 2 months' time.
3.	IS 12346:1999	Testing equipment for a.c. electrical energy meters (First Revision)	Already under revision under WG 3/Panel 2	See Item 8 Sl no. 5 of these Minutes.
4.	IS 14372:1996	Volt - Ampere hour meters for full power factor range - Specification	Shri Sujith Unnikrishnan, Schneider Electric India Pvt. Ltd.	Shri Sujith Unnikrishnan, M/s Schneider Electric India Pvt. Ltd. presented the review report for consideration of the committee (see Annex 1 of these minutes).
				The report recommended to withdraw the standard and draft a new standard considering electronic meter based VAh energy measurement and this independent standard can then be referred in IS 13779/IS 14697.
				The committee approved the above recommendation and agreed to withdraw the existing standard IS 14372 as the same is electromechanical type meter

				which is no longer in use. The committee also agreed to <b>draft a new standard</b> considering electronic meter based VAh energy measurement and this independent standard will then be referred in IS 13779/IS 14697. <b>Panel 2</b> was asked to draft the new Indian Standard in line with the above decision.
5.	IS 14415:1997	Volt - Ampere hour meters for restricted power factor range - Specification	Shri Sujith Unnikrishnan, Schneider Electric India Pvt. Ltd.	Shri Sujith Unnikrishnan, M/s Schneider Electric India Pvt. Ltd. presented the review report for consideration of the committee ( <i>see</i> Annex 1 of these minutes). The report recommended to withdraw the standard IS 14415 as it is defined for electromechnical type meters which are no longer in use. The recommendation was approved by the committee.  Panel 2 was asked to draft the new IS document as decided at Sl no. 4 above while accommodating restricted power factor range in the same draft document.
6.	IS 14451 (Part 1):1998	Telemetering for consumption and demands: Part 1 Impulse transmitting and receiving devices	Working Group of following members:  i) Shri B.A.Sawale, Chairperson (ETD 13)  ii) Shri B M Vyas, YMPL  iii) Shri Shailendra Goyal, ZERA	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.  The working group agreed to review the standard considering the above and confirm if re-printing of the document as mentioned above can be carried out.

7.	IS 14451	Telemetering for consumption	Working	Group of following members:	It was proposed to re-write the standard
	(Part 2):1999	and demands: Part 2 Direct	i)	Shri B.A.Sawale, Chairperson	and reprint it with required reference and
		digital transfer of meter values		(ETD 13)	cosmetic changes as the committee felt that
			ii)	Shri B M Vyas, YMPL	it may still have select users and
			iii)	Shri Shailendra Goyal, ZERA	withdrawing the standard without
					identifying them and seeking their input
					would rid them of a relevant reference
					document.
					The working group agreed to review the
					standard considering the above and
					confirm if re-printing of the document as
					mentioned above can be carried out.

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 11 INTERNATIONAL ACTIVITIES**

### 11.1 Membership in IEC/TC 13 and New Subjects for Harmonization

The committee noted the information given in the agenda.

11.2 In the last meeting of sectional committee ETD 13, Shri Kishore Narang had briefed members on recent activities of TC 13/WG 14. He informed the committee that he has been appointed as liaison with TC 13 on behalf of TC 69 for EV. He informed the members that an ad-hoc group has been created for cooperation between TC 13 and TC 69. The next meeting of the Joint adHoc group was scheduled on 19 Jan 2023.

It was decided that ZERA must be represented on the adHoc group and Mr Kishore was advised to do the needful.

He also informed the committee regarding the proposal regarding meter as a module for incorporating into a system and suggested India could develop a proposal for same and lead the standardization process for the same. Shri B.A. Sawale emphasized that the various use cases and applications of DC metering need to be listed for further standardization. Shri Shubhadip Ray Choudhury, M/s Tata Power-DDL added that additional conditions like environmental conditions, configuration, termination and mechanical requirements, metrology and influenced parameters etc. It was decided that Shri Narang Kishore shall prepare a concept note based on the applications and what metering configuration is required for each case and decide whether only metrology part needs to be defined or not. shall prepare the concept note for consideration of the committee and the proposal shall be discussed and decided on in the next meeting.

#### Item 12 NEW WORK ITEM PROPOSALS FOR INDIAN STANDARDIZATION

#### **12.1 Group Metering**

See Item 8, Sl no. 4 above.

In addition, following new work items were discussed and the committee agreed that there is a market requirement of these subjects and hence new Indian Standards or suitable annexures in existing standards addressing the following requirements must be formulated:

#### 12.2 ABT Meter

Panel 2 was asked to prepare a working draft and circulate among the committee members.

#### 12.3 Grid regulation to be incorporated in the new IS

Panel 2 was asked to prepare a working draft and circulate among the committee members.

### **12.4 Composite Metering**

Panel 4 was asked to prepare a working draft and circulate among the committee members.

#### Item 13 DATES AND PLACE OF THE NEXT MEETING

It was decided to hold the next meeting in the next quarter of the year. The final date and place of the meeting shall be decided in consultation with the Chair of the committee.

### **Item 14 ANY OTHER BUSINESS**

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