

UREAU OF INDIAN STANDARDS

MINUTES

MEETING	NO. OF MEETING	DAY & DATE	TIME	VENUE
Secondary Cells and Batteries Sectional Committee, ETD 11	31 th	Thursday 10 th October 2024	1430 Hrs	Hybrid (Copper Room, Manak Bhawan, New Delhi) https://bismanak.webex.com/bismanak/j.php?MTID=me0e014b41ab743a2696ccef2f9efa1be

CHAIRMAN: Shri Pankaj Batra

MEMBER SECRETARY: Shri Neeraj Kushwaha

Participants:-

S.No.	Organization	Member Name
1	Chairperson	Shri Pankaj Batra
2	Bharat Test House Private Limited, New Delhi	Shri Lalit Aggarwal Shri Vaibhav Gupta
3	Central Electricity Authority, New Delhi	Shri Rajesh Kumar
4	Controllerate of Quality Assurance, New Delhi	Deputy Controller E
5	Directorate General of Mines Safety, Dhanbad	Shri Ajay Singh
6	Electrical Research and Development Association, Vadodara	Shri Rakesh Patel
7	Engineers India Limited, New Delhi	Shri Viswa Teja Yerramathi
8	Exide Industries Limited, Kolkata	Shri Anjan Roy
9	HBL Power System Limited, Hyderabad	Shri Sanjeev Kumar
10	Indian Electrical and Electronics Manufacturers Association, New Delhi	Shri Kumar Rahul
11	Log 9 Materials Scientific Private Limited, Bengaluru	Shri Saravanan Muniswamy
12	Luminous Power Technologies Private Limited, Gurugram	Shri Amlan kanti Das
13	NTPC Limited, New Delhi	Shri Gaurav Yadav Shri Vijay Kumar
14	Nuclear Power Corporation of India Limited, Mumbai	Smt. Nidhi Sangam Smt. Swati R. Patil
15	React Laboratories, Bangalore	Smt. Madhura R Smt. Monica H.S
16	Saft India Private Limited, Bengaluru	Shri Arumugam Manickam

17	Shreenath Smart Technologies Private Limited, Ahmedabad	Shri Rahil Patel
18	UL India Private Limited, Bengaluru	Shri Anand Kumar
19	Vision Mechatronics Private Limited	Dr. Rashi Gupta
20	Voluntary Organisation in Interest of Consumer Education (VOICE), New Delhi	Shri H. S. Wadhwa

Item 0 Welcome and Opening Remarks

Shri Pankaj Batra Chairperson ETD 11 extended a hearty welcome to all the members present. He informed that this meeting is being conducted to take decisions on some urgent agenda points. He requested all the members to be interactive and participate actively in the meeting.

Member Secretary, Shri Neeraj Kushwaha welcomed all the members and requested them to participate actively in the work of this committee.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

- 1.1 There being no comments, the committee formally confirmed the minutes of 30th meeting of Secondary Cells and Batteries Sectional Committee, ETD 11 held on 24th July 2024, which were circulated vide BIS DG letter dated 20th August 2024.

Item 2 REVIEW OF COMPOSITION OF SECONDARY CELLS AND BATTERIES SECTIONAL COMMITTEE, ETD11

2.1 a) Identification and involvement of talent available in the country related to the subject dealt by the committee and methodology to involve them in the proceedings of the Committee

The committee noted the information provided.

b) Co-option requests

- i) Apple India Pvt. Ltd. – The committee decided to seek clarification on how they can contribute to the committee. Committee also decided to seek their functional category of membership with respect to the ETD 11 committee.
- ii) Godi Energy – Co-option request approved.
- iii) IIT Roorkee – Co-option request approved.

Item 3 APPROVAL OF DOCUMENTS/AMENDMENTS FOR FINALIZATION/PRINTING

Sl No.	Draft Indian Standard	Remarks	Decision
1.	Amendment no. 1 to IS 1652:2013, Stationary cells and batteries, lead - Acid type with plante positive plates - Specification (Fourth Revision)	As per the discussions in ETD11/WG02, Editorial comments incorporated in the draft and sent with agenda.	The draft amendment has been finalized for printing.

Item 4 APPROVAL OF DOCUMENTS/AMENDMENTS FOR WIDE CIRCULATION

Sl No.	Draft Indian Standard	Remarks	Decision
a)	Draft revision of IS 17882 Methods of test for measurement of Energy density and Cycle life of Advanced Chemistry Cells ACCs (First revision)	Provided by ETD 11/WG03. Draft document was sent with the agenda.	The draft has been approved for P-draft for 7 days. If there are no technical comments, the draft is also approved for wide circulation for 30 days.

Item 5 COMMENTS/QUERIES ON INDIAN STANDARDS**5.1 Comments: -**

S No.	Indian Standard	Commentator	Comments	Decision
a)	IS 16046 (Part 2):2018, Secondary Cells IS 16047(Part 3):2018,	MEITY	IS 16047: Part 3 mentions - "Only cell or battery samples which are less than two months (60 days) old, from the date of manufacture, shall be used for the tests specified. "However, for cells/ batteries imported into India, 60 days' time period might have already elapsed and hence the testing of these may not be performed because of the aforesaid clause. A similar clause is stated in IS 16046 (Safety standards) as well. BIS to relook into these clauses and take up suitable action to address the matter.	After detailed deliberation, the committee requested Log9 to review the facts and present the information in the next committee meeting. The committee will take a decision based on the information to be presented.

5.2 Queries/Clarification: -

S No.	Indian Standard	Clarification sought from	Query	Decision
a)	IS 16270:2023	Registration Department, BIS	Registration Department is in receipt an application for Secondary Battery for Solar PV application as per IS 16270:2014. In this regard, a query was raised to the applicant for sulphation test (Cl 8.5.2 of IS 16270:2014) as lab had carried out	After detailed deliberation, the committee concluded that the C10 in IS 16270:2014 is a typo error. Instead of C10, it should have been C120. The same has been

			<p>discharge at C_{120} rate to an end voltage of 1.9 V/cell instead of C_{10} rate as mentioned in Cl 8.5.2 (d) . In reply, lab has stated that "C_{120} should have been mentioned in the standard instead of C_{10} . C_{10} is a typo error in IS 16270:2014 and hence in the test report we have mentioned as C_{120} instead of C_{10} .Mentioning discharge at C_{10} would give a totally wrong meaning/perspective to the test performed. The same has been corrected in the revised edition of the same standard IS 16270: 2023"</p>	<p>corrected in the revised version of IS 16270:2023 and hence no changes are required in the standard.</p>
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Item 6 PRESENT POSITION OF WORK

6.1 Present status of work as identified during previous meetings of ETD 11 are given below:

SI. No.	IS No.	Actions	Decision
1.	Progress of work of 'Draft for batteries for drone application	<p>The working group(ETD11/WG01) updated the committee that a meeting has been conducted and it was decided to involve QCI and UL India in the working group.</p> <p>The committee requested the working group to provide the draft within 2 months.</p> <p>ETD11/WG01 may update the committee.</p>	<p>The committee requested the working group ETD11/WG01 to expedite in providing the draft.</p>
2.	Adoption of IEC 63193: 2020 'Lead-acid batteries for propulsion power of lightweight vehicles - General requirements and methods of test'	<p>The committee requested Dr. Mayavan to review the IEC Standard and to provide working draft within 01 month considering the Indian ambient conditions.</p> <p>Dr. Mayavan may update the committee.</p>	<p>The committee deferred this agenda point to the next meeting due to unavailability of Dr. Mayavan.</p>

Item 7 REVIEW/REAFFIRMATION OF PUBLISHED INDIAN STANDARDS

7.1 The committee noted the information provided.

Item 8 NEW SUBJECTS AND FUTURE PROGRAMME OF WORK

8.1 The following New work item received was considered of the committee:

- i) **Battery Regenerator** – The committee decided to ask the proposer to present the topic in the next committee meeting.
- ii) **Lithium Hexafluorophosphate** - The committee decided to transfer the subject to Chemical Department (CHD) of BIS as it is more relevant to CHD.

Item 9 INTERNATIONAL ACTIVITIES

9.1 IEC TC meeting information: The committee noted the information provided.

9.2 Designated experts in specific sectors for the purpose of examining the respective IEC Standards at the review stage: The committee decided to designate the following experts in the relevant sectors of the committee:

S. No	Sector	Sub Sector	Designated experts
1	Lead acid and other aqueous electrolyte based		Exide Industries Limited (Convenor) Luminous Power technologies ERDA CECRI
2	Li-ion, Ni-cd and other Advanced chemistry based	i) Li-ion system ii) Ni Metal Hydride system iii) Ni cadmium system iv) Other	Vision Mechatronics Exide energy Godi energy Amara raja Shreenath Smart tech (Convenor) ERDA
3	General standards and Fuel cells		
4	Second life of batteries		UL India Vision Mechatronics (Convenor)

9.3 Reports of Working groups

Dr. Rashi Gupta, agreed to provide the reports of the working groups of IEC TC 21 and IEC SC 21A, in which she is a member, via mail to BIS, the same will be presented in the next committee meeting.

Item 10 ANY OTHER BUSINESS

Shri Vaibhav from Bharat Test House invited the members of the committee to visit their facility. There being no other business, the Chairperson ended the meeting with vote of thanks.