

MINUTES OF MEETING

Name of the Committee	Date & Time	Venue
Technical Committee Meeting for Washing Machines labeling program	26 September 2017, 15:00 hours	Conference Hall, Bureau of Energy Efficiency

Beginning with the course of discussion, Sh. Saurabh Diddi, Director, BEE welcomed all the technical committee members. Subsequently, the following points were discussed.

Agenda of the Meeting:

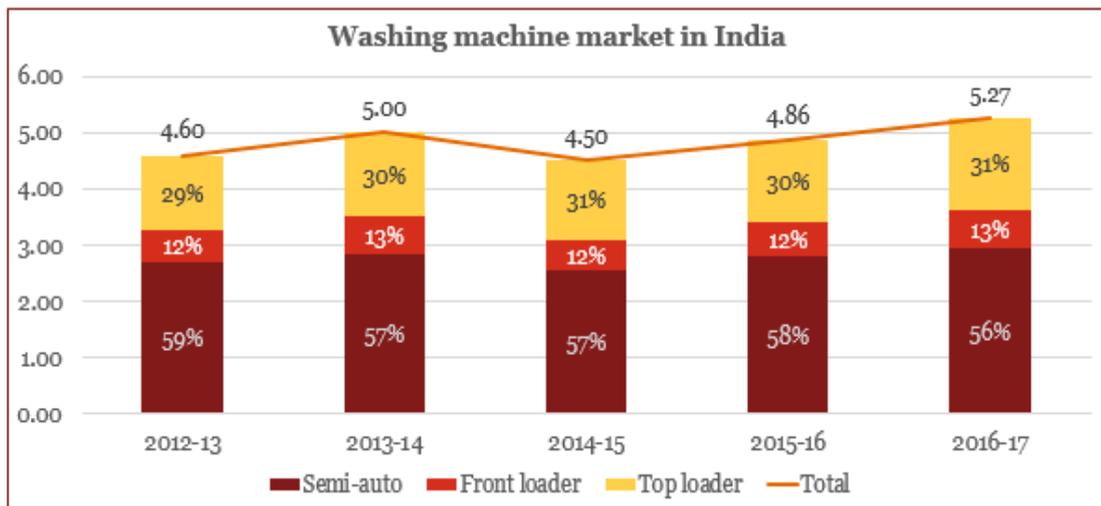
- 1) Overview of existing labeling program
- 2) Key findings of Market assessment
- 3) Update on National Test standard
- 4) Next steps and Way Forward for the labeling program

Discussions

- Chairperson extended a hearty welcome to the members present. At the outset, he gave a brief account of the existing Standards and labelling program for washing machines and its present status. He shared that the program was first launched in 2009/2010 and designed with a focus on the situation of the market and availability of test procedures at the time. However, the program was not very successful, primarily due to certain deficiencies in the available Indian standard and lack of standard detergent, reference machine and the reliable soiled strip and to some extent limited test facilities. He said that these issues have been now been adequately addressed as the relevant BIS committee is in the process of revising the existing Indian standard IS 14155 in line with corresponding IEC 60456.
- He further mentioned that as per his understanding, BIS draft standard for washing machine, the source of soiled strip, standard detergent and reference machine are the same as in IEC standard and therefore it is expected that there should not be any difficulty in carrying out the test in India particularly from the point of view of repeatability and reproducibility of the test result which was the major issues when the program was launched in 2009/2010.
- Finally, he mentioned that this was the right time to revive the S&L program of washing machines in India as early possible.
- **The committee members also shared their agreement to work with BEE with an approach to re-initiate this program.**

ITEM 1: MARKET ASSESSMENT OF WASHING MACHINE IN INDIA

- Representative from PwC made a brief presentation to the committee members on the findings from the market assessment, present status of the S&L scheme globally; existing shortcomings and issues faced in the past, and proposed revisions in the existing scheme. The points highlighted during the presentation were:
 1. Washing machine market in India
 2. Overview of the present washing machine S&L program in India & key issues faced
 3. Recent development & revisions in IS 14155
- **At the meeting’s conclusion, the final decision about the inputs and data requested from the members was discussed.**
- The presentation on the market assessment focused on the Indian washing machine market, market segmentation, sales trends and forecasts, imports and other trends. It was shared that the present market in India stood at 5.27 million units, with an expected growth of CAGR 9.92% in coming years. While the market for semi-automatic segment accounted for 56% of total market in FY 2016-17, top loaders accounted for 31% and front loaders for 13% during the same period. The graphical of the data is presented below.



- It was also shared that total imports in FY 2016-17 stood at 0.58 million units, which accounted for approximately 11% of the Indian market. Regarding the sales and market data presented, Chairperson requested manufacturers to verify this data, and provide their inputs in case there are any discrepancies in the data presented. The representative from LG mentioned that the import figures are close to 5-6% for FY 2016-17 instead of 11% shown in the presentation. He also added that most semi-automatic machines are manufactured in India, while imports comprise mainly of machines of higher capacity, which is totally in line with the figures shown in the presentation.

ITEM 2: REVIEW OF THE PRESENT WASHING MACHINE S&L PROGRAM IN INDIA & KEY ISSUES FACED

- There was a detail deliberation about the existing labelling program for washing machine in India particularly the various reasons about the lack of interest from the manufacturers for not participating in BEE labelling program for washing machine. All the technical issues particularly on the label scope, design, minimum eligibility criteria and provision of in-built heaters and external hot water supply for testing were discussed including various constraints in the standard and testing. The members were apprised about the details of the entire process flow of development of the previous program. The issues related to the previous program were also highlighted during the presentation.

ITEM 3: RECENT DEVELOPMENT & PROPOSED REVISIONS IN IS 14155

- The members were apprised on the various test parameters for testing and measurements and the comparative analysis including the gaps on the test protocol and the requirements prescribed in the existing IS 14155, IEC 60456, and the proposed revision of IS 14155. Members who are also members of BIS technical committee informed that once the revised version of IS 14155 was implemented there should not be any difficulty to participate in BEE labelling program. The members appreciated the efforts made by BIS to revise the IS 14155 and harmonizing the test methods and test requirements in line with IEC 60456 particularly source of reference machine, standard detergent and soiled strips.
- It was also noted that few parameters, such as wear suffered by textile, included in earlier version of IEC 60456 was removed from the latest version of IEC 60456 and also IS 14155. Mr Ritwik Anand from BIS was requested to share the reasoning behind the change to BEE for reporting to the members at the next TCM meeting. The Chairperson acknowledged that the revised IS 14155 is still in circulation stage for eliciting comments and is yet to be finalized by the BIS technical committee. It was therefore decided that BEE should go ahead with the labelling program based on the draft standard and changes if any at a later date once the BIS revised standard is published should be incorporated in the BEE schedule in due course.

Decisions

Based on the discussions of the technical committee key action points were are as below -

ITEM 4: WAY FORWARD, INPUTS FROM MANUFACTURERS & AGENDA FOR NEXT MEETING

- Representatives from IFB suggested that there was a need to revisit the energy efficiency programs prevailing in other countries such as of China,

EU etc. The chair appreciated the proposal and informed that a detail study and analysis of the labelling program practiced in other countries has already been done. The detail analysis of the study would be presented in the next in next technical committee meeting (TCM).

- Chairperson emphasized that in order to have better understanding about the current energy efficiency and water consumption data of the product available in Indian market, it would be appropriate to collect most recent data from the Indian manufacturers of various brands and models manufactured and sold by them.
- The committee wanted to know whether major manufacturers had test data for models as per IEC 60456 readily available with them, since many models sold in India and other countries such as the EU would be common. All manufacturers confirmed that they would provide the required data by the next TCM meeting. Representative from LG mentioned that although data was not readily available with them, they would test their models as per IEC 60456 for generating this data and would subsequently share with BEE. Chairperson appreciated this, and said that BEE would circulate a data collection template regarding this, and also provide reference of the test procedure to be followed so that uniformity is maintained while furnishing the data by the manufacturers.
- It was decided that manufacturers shall share the data by **15th November 2017**, which would be analyzed by the BEE team before the next TCM meeting. With a view to have the actual performance and efficiency data, the committee felt that the product of different models and brands could be tested in an independent laboratory. The labs and test protocols to be used for the testing would be finalized in the next meeting. While discussing about the list of NABL approved independent test labs for testing of washing machine particularly the performance, energy efficiency and water consumption, the committee requested the members to identify NABL approved independent test lab as per IS/IEC standard for washing machine and send the details to BEE at the earliest for discussion at the next TC meeting. The reportative form ERDA informed that they are fully equipped with the requisite test facilities for washing machine and would share the details to BEE and the technical committee in the next meeting. ERDA was requested to make a brief presentation of their facility in the next TCM.
- The chairperson finally concluded that one of the important issues to be discussed in the next TC meeting would be about the labeling program and rating band for different types namely, semi-automatic/fully automatic, top/front loading, impeller/agitator etc, including testing with or without hot water having internal or external heating arrangement.

The meeting concluded with vote of thanks to the chair,

MEMBERS PRESENT:

Annexure Technical Committee Members			
S. No.	Name	Designation	Organisation
1	Mr. Saurabh Diddi	Director	BEE
2	Ms. Meenakshi Sinha	Project Engineer	BEE
3	Mr. Manjeet Singh	Project Engineer	BEE
4	Mr. Ritwik Anand	Scientist C	BIS
5	Mr. Nikhil Kumar	Asst. Director	NABL
6	Mr. Nand Kumar	Acc. Official	NABL
7	Mr. B M Shetye	Vice President	IFB
8	Mr. P R S Neuretea	General Manager	IFB
9	Mr. Nikhil D	Asst. Manager	IFB
10	Mr. Madhanraj	Sr. Engineer	BSH
11	Mr. B Anand	Sr. Engineer	BSH
12	Mr. Rahul Kasturi	Dy. Manager	LG
13	Mr. Aditya Anil	Dy. Manager	LG
14	Mr. Himanshu Goyal	DGM	LG
15	Mr. Jay Prakash Sharma	Dy. Manager	LG
16	Mr. Bijoy J Kundani	Manager	Godrej
17	Mr. Mohan Kumar S	AGM	Godrej
18	Mr. Gaurav Gupta	Manager	Samsung
19	Mr. Devesh Saxena	DGM	Samsung
20	Mr. S. Sundarmoorthy	Dy. Manager	Panasonic
21	Mr. Sarvesh Singh Biseu	Asst. Manager	Panasonic
22	Ms. Anushka Gupta	AGM	Panasonic
23	Mr. Anish Duggal	GM	Whirlpool
24	Mr. R Kumaran	Manager	Whirlpool
25	Mr. Sheoraj Singh	Manager	Videocon
26	Mr. Rajat Varshney	Asst. Manager	ERDA
27	Mr. Vineet Sehgal	Deputy Manager	Intertek
28	Mr. K C Chaudhary	Sr. Manager	VOICE
29	Dr. Archana Walia	Director - India Programs	CLASP
30	Mr. P. K. Mukherjee	Senior Advisor	CLASP
31	Mr. Kishore Kumar	Senior Associate	CLASP
32	Mr. Rajeev Ralhan	Director	PwC
33	Mr. Mohit Verma	Manager	PwC
34	Mr. Tarun Garg	Manager	PwC
35	Mr. Jwalant Mehta	Consultant	PwC