

**Regional workshop on PAT scheme and Pat Rules For PAT-4 Designated Consumers held on
23rd February 2018.**

Venue : Hotel Goldfinch, Near Akruti Centre Point, Andheri East, Maharashtra-400093
Date : 23rd February-2018
Time : 10:00AM-5:30PM
Workshop Convener : MEDA in association with BEE

The workshop was organized for the orientation of new DCs of PAT-4 from Existing sectors and new sector Hotels (buildings). It was organized by the Maharashtra Energy Development Agency (MEDA) in association with BEE. The workshop witnessed an overwhelming participation from plants and Hotels in the building sector. The workshop was divided in two sessions. The 1st session aimed at the orientation of new DCs under PAT-IV, whereas the session in 2nd half focused on different formats of documents and Modified Form-1 with sector specific proforma and these sessions were successful in delivering the content which the workshop intended. The sessions were followed by interactive discussions which turned out to be very fruitful for all the participants.

The copy of the agenda of the workshop is enclosed at annexure A

1. Inaugural Session

1.0 Smt. Smrita Kudrikar, GM (Energy Conservation) MEDA

Smt. Smrita Kudrikar welcomed the members on the dais and all the participants from the plant and from the Hotel industry. She gave her views on the PAT Scheme, especially the opportunity made available by BEE to the industry for participating in the PAT programme. This scheme needs to be deepened and widened to include many more sectors in the future as it would help in reaching the national goal for GHG mitigation. She stated that the scheme is well adopted by the industries for their betterment at least in the state of Maharashtra.

She thanked BEE for giving the SDA of Maharashtra the opportunity for organizing the regional workshop at Mumbai and assured BEE of continued support in the future as well.

1.1.1 Saurabh Diddi, Director, BEE.

He welcomed all the dignitaries on the dais and also welcomed DCs from various sectors of the PAT Scheme present in the workshop. He thanked the SDA of Maharashtra for not only organizing the regional workshop at Mumbai but for all the support MEDA has been extended to BEE in all their endeavours.

He outlined the need for the PAT scheme in the current scenario of climate change. He explained the importance of the workshop to all the designated consumers and requested them to utilize the information disseminated during the workshop. This would further help in clarifying the concepts under PAT. In brief he explained the PAT programme and incentives this market-based mechanism provides to the DC's as those who over-achieve are given energy efficiency

certificates which are tradable. Those who under achieve have the option of purchasing these Escerts for compliance or they will have to pay penalty.

1.1.2 Sh. Vikash Ranjan, Technical Expert, GIZ

He depicted a brief scenario of the Hotel industry in India and their energy consumption trends. He highlighted the potential energy saving opportunity in hotels in buildings. He described the rational method for energy assessment in the hotel industry and the evaluation of their performance. He also gave examples of how the specific energy of hotels varies due to different climatic zones. Detailed information regarding various supporting documents for energy assessment were also highlighted.

1.2 Smt. Rita Acharya, PAT Coordinator, IGEN

Smt. Acharya welcomed everyone to this workshop and appreciated the efforts made by all the DCs of PAT Cycle –I for their achievements. She stated that the PAT scheme is not only important from the international and national perspective but also from the point of view of the Dcs themselves as making their units energy efficient would make them more competitive. She also dwelled on the issues of global warming citing examples of the consequences of climate change. She also mentioned that India has made a commitment in its NDC to reduce the emission intensity of the GDP by 33-35 % by 2030 from 2005 levels and PAT would definitely help to some extent in this endeavour.

She gave a brief description about the PAT Scheme, mentioning the achievements made in PAT Cycle-I followed by notification of PAT Cycle-II and PAT Cycle-III.

She further requested all to participate in it with utmost zeal.

1.3 Smt. Monika Chaudhary, Project officer MEDA.

Smt. Monika Chaudhari proposed a vote of thanks, she thanked all the Dignitaries on the Dias for their constant support and guidance. She also appreciated the role played by the DC's who are the key stakeholders in the scheme and thanked them for participating in the workshop.

2.0 Technical Session-1

The first technical session was on Orientation of the PAT Scheme for the new DCs to be notified under PAT Cycle-IV.

2.1 Presentation on Overview of PAT Scheme by Shri Piyush Sharma, Technical Expert, GIZ

A detailed presentation on the Pat scheme and its outcome was made. He narrated the current scenario on climate change and how the PAT scheme has become a vital tool for considerable reduction in the CO2 emission and enhancing energy efficiency in

industries. He explained in detail as to how the scheme functions and how it would benefit the designated consumers. The impact of PAT cycle-I and the future approach and estimated savings for successive cycles was presented by him.

2.2 Presentation on PAT Rules and Target Setting Methodology by Sh. Ajitesh Upadhyay, Sector Expert BEE

He started the presentation by explaining the framework under the EC Act which gives the Central Government the mandate to prescribe rules and regulations to enhance energy efficiency and conservation. The rules governing the PAT scheme also flow from EC Act. He successfully explained the roles, responsibilities and timelines for each activity under the scheme. He also discussed about the factors considered during the target setting methodology. Apart from PAT scheme, the provision for mandatory energy audit under EC Act was also explained.

3.0 Technical Session-2 Parallel Session.

3.1 Presentation on the PAT Hotels by Sh. VikashRanjan, TechnicalExpert, GIZ.

The target setting methodology used in assigning targets to the 37 Hotels was presented by him and details on how the normalization factors in Building sector would be developed was discussed. The presentation was extremely informative and benefitted all the DCs in the building sectors.

3.2 Presentation on Formats and Form-1 by Sh. Piyush Sharma and Sh. Ajitesh Upadhyay.

Information regarding important documents Form-1, Form A and Form B along with the important timelines of submission of the such documents was indicated. Brief explanation was also given on the features of the Sector specific proforma and Form-1. Detail information was given on the data entry into different sections of the Proforma and the required supporting document for it. During the presentation the several query and issues were asked by the DC's which were resolved.

3.3 Presentation on Pro-Forma filling and changes made in the Pro-Forma (PAT-HOTELS) BY Sh. Suraj Kumar Mandal.

He gave a presentation on the Pro-Forma required to be filled in for the Hotel Sector. Brief explanation was given on the new sheets and existing sheets added including the instruction

sheet, Form 1, General Information, Form SI and Summary Sheet. Several doubts and queries raised were resolved.

3.4 Open House Discussion Session

The queries raised by the participants, were addressed by the PAT team. Details are mentioned below:

- Why don't we consider the basement area while calculating the SEC for buildings?
 - ✓ As the energy consumption in the basement area is very less as compared to the occupant area in a hotel, Energy consumption for basements has not been included.

- Whether the Normalization methodology will change or remain same in next PAT cycles?
 - ✓ It will remain same until the need for any refinement arises in future. If such a need arises, the methodology shall be discussed with the respective technical committee and then finalised.

- Can the DC go for Check verification?
 - ✓ As per said rules the check verification can be done by BEE by Suo moto or as per complaints received. The same can be done after submission of Form D until one year.

- The plant had given coal GCV on As Received Basis (ARB) basis and the baseline as well the target was set accordingly. However kindly explain as to the procedure that would be adopted during the assessment year.
 - ✓ Coal GCV should be on as fired basis only. However, if any plant has given it on as received basis and has got the target accordingly, it will be assessed on as received basis in assessment year. But, the plant is required to maintain GCVs on both ARB and AFB in the assessment year. The new target in next PAT cycle will be given to the plant on As Fired Basis (AFB).

- Is there any appellate tribunal for EC Act?
 - ✓ Yes, The Appellate Tribunal established under the Electricity Act is the "APTEL" which is also the Appellate Tribunal for the EC Act as well.

- As per Rule-6 is the Coal sampler provision only for the Assessment year or for the entire cycle.
 - ✓ The coal sampler is mandatory for all designated consumer using coal as a fuel to check their GCV on AFB basis. However, the above provision is mandatory for upcoming assessment year only and not for the entire cycle. But once installed, it will subsequently become valid for entire cycle from the consequent years.

- Is there any specification for coal samples?
- ✓ These is no specification for the coal sampler except that it should meet the IS norms of collecting homogeneous samples. Plants are free to purchase any coal sampler that take care of this requirement

- Who has to submit FORM D?
- ✓ As per PAT rule it is mandatory for all the Dc have to submit compliance report, i.e., FORM D within the specified timeline indicating the status of their compliance.

Annexure A.

10:00 - 10:30	Registration
10:30-10:35	Welcome Address- Smt Smita Kudrikar
10:35 - 10:45	Address- Shri Saurabh Diddi, Director (BEE)
10:45- 10:50	Address- Smt. Rita Acharya, PAT Coordinator (GIZ)
10:50 -10:55	Vote of Thanks- by SDA
10:50 - 11:15	Tea Break
Technical Session 1 (Orientation for PAT Cycle -IV)	
11:15-11:45	Presentation 1: Overview of PAT Scheme – Shri Piyush Sharma – Technical Expert(GIZ)

11:45- 12:30	Presentation 2: Rules & Regulations- Shri. Ajitesh Upadhyaya – Sector Expert (BEE)
12:30 – 13:10	Open House Discussion
13:10 – 14:00	Lunch Break
Technical session 2(Orientation for PAT Cycle -IV)	
14:00 – 15:00	Presentation 3: PAT Hotel Sector- Shri Vikash Ranjan, Technical Expert (GIZ)
15:00 – 16:30	Parallel Session: <ol style="list-style-type: none"> 1. Format Filling (PAT Sectors), Shri Piyush Sharma& Shri Ajitesh Upadhyay 2. Format Filling (Hotel), Shri Suraj-Mandal Project Engg (BEE)
16:30-16:35	Vote of Thanks -by SDA
16:35	High Tea& Disbursal