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Foreword

The Energy Conservation Act, 2001, highlights the national urgency to promote and accelerate energy efficiency in our country. Amongst other provisions, the Act requires various industrial units and other establishments, who are large users of energy, to carry out periodic energy audits, and implement the audit recommendations that are viable.

The effective implementation of this provision requires standardization of energy audit procedure so as to ensure the comparability of audits across units, and clarity of expectations of both the auditors and the industry. In addition, the audit suggestions and recommendations require knowledge of the best practices prevalent in the industry; these provide the incentive to enhance efficiency in units that are not performing at the industry's best, as well as the confidence that the recommendations are achievable in practice. These codes and manuals support this objective of audit procedure standardization, and of disseminating best practice.

The BEE codes are recommended procedures as how to test energy intensive equipment in the field with respect to its performance and energy efficiency. They provide test procedures, which yield results of the highest level of accuracy under field conditions, with the best engineering knowledge and practice currently available. When tests are run in accordance with a code, the test results themselves, without adjustment for uncertainty, yield the best available indication of actual performance.

The codes are based on international practices, and have been developed by experts. These were posted on our web site for comments as well as critically reviewed by a group of experts (accredited energy auditors and energy managers) in a National workshop. They were revised based on the feedback and then validated by field tests conducted in industries to assess their repeatability and accuracy.

The BEE Best Practice Manuals provide information to the energy manager for the selection, installation, integration, and operation of various equipments at high efficiency levels.

These efforts have been coordinated by a steering committee consisting of members from IREDA, BEE and IGEN. The entire work of compilation was carried out commendably by M/s. Devki Energy Consultancy Pvt. Ltd, Vadodara.

I am sure that the this joint effort between IREDA and BEE in bringing out BEE Test Codes and Best Practice Manuals would strengthen the capacity of energy auditors and managers to test system efficiency in the field more professionally, and that the Best Practice Manuals would help energy managers to enhance energy efficiency in their plant.

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Dr. Ajay Mathur