**FORM IV**  
(Refer regulation 7(2))  
Bureau of Energy Efficiency  
REGISTER CONTAINING NAMES OF OFFICES AND FIRMS OF ACCREDITED ENERGY AUDITORS

<table>
<thead>
<tr>
<th>Serial Number ( AEA- 0253)</th>
<th>As on:- 19/10/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Name of accredited energy auditor</td>
</tr>
<tr>
<td>2</td>
<td>Father’s name</td>
</tr>
<tr>
<td>3</td>
<td>Date of certification as Energy Manager</td>
</tr>
<tr>
<td>4</td>
<td>Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”</td>
</tr>
</tbody>
</table>
| 5  | Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” | EA - 18978  
|    |                  | EA -18978 |
|    |                  | 7848 |
| 7  | Date of issue of accreditation certificate | ( to be filled by BEE) |

<table>
<thead>
<tr>
<th><strong>B.</strong></th>
<th>Information in respect of trade name or firms’ name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Trade name / firms name under which energy audit is proposed to be conducted</td>
</tr>
<tr>
<td>9</td>
<td>Date of accreditation as accredited energy auditor</td>
</tr>
<tr>
<td>10</td>
<td>Type of firm/ private/ Government / NGO etc.</td>
</tr>
</tbody>
</table>
| 11 | Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address (All details compulsory) | **Mr Jagrat Mankad**  
Sr. Vice President and Head  
Corporate Technical and Energy Services  
**Aditya Birla Management Corporation Pvt Ltd.**,  
ABSTC,Plot no. 1 & 1-A /1, MIDC Taloja,  
Taluka Panvel, Dist. Raigad – 410 208  
Email: jagrat.mankad@adityabirla.com |
| 12 | Professional postal address with Pin Code of the accredited energy auditor | Aditya Birla Management Corporation Pvt Ltd.,  
ABSTC,Plot no. 1 & 1-A /1, MIDC Taloja,  
Taluka Panvel, Maharashtra  
Dist. Raigad – 410 208 |
| 13 | E-mail address | mayank.shukla@adityabirla.com  
mayankshukla12@gmail.com |
| 14 | Telephone numbers with STD Code (R) (O)  
Mobile no: | (O) 022-67605965  
(M) +91 8108400252 |
| 15 | Year of establishment of the trade name / firm’s name for undertaking the energy audit | 1999 onwards Aditya Birla Management Corporation Pvt Ltd  
1997-99 – A part of Indo Gulf Fertilizers Ltd |
| 16 | Year of commencement of energy audit of the firm | 1997 |
| 17 | Whether any certificate to support the excellence in the system has been obtained (ISO etc.) | ISO 9001: 2008 |
| 18 | No. of branch offices  
(List of complete addresses including heads of all branch offices with telephone, fax and email addresses) | Nil |
| **C** | **Details of Associated Energy Experts** |
| 19 | Number of resource persons available | 16 |
| 20 | I. Number of full-time energy auditors in position with work experience of all energy auditors associated with the firm | 11 |
| | II. No. of part-time energy auditors in position during the current year / | NIL |
CVs of all the full-time Energy Auditors with their Names, Contact address and energy audited Sectors

❖ Present Employer for all full time energy Auditor
   Aditya Birla Management Corporation Pvt Ltd.,

❖ Contact address for all full time energy auditors:
   Aditya Birla Management Corporation Pvt Ltd.,
   ABSTC, Plot no. 1 & 1-A/1,
   MIDC Taloja,
   Taluka Panvel,
   Dist. Raigad – 410 208

❖ Brief CVs of all full time energy auditors:

Mayank Shukla
(Manager Process)

Present Employer
Aditya Birla Management Corporation (P) Ltd. - - - - - - - S i n c e 2 0 0 7
Type of Employment - - - - - F u l l T i m e

Professional Education
➢ Bachelor in Chemical Engineering (2003)
➢ Certified Energy Auditor (2014)
➢ Certified (IRCA) Lead Auditor for ISO50001:2011
➢ Certified (IRCA) Lead Auditor for ISO9001:2008

Total work experience - - - - - - - - - - - - - - - - - - - 1 0 y r s .
➢ Basic Engineering Projects
➢ Detail Engineering Projects
➢ Commissioning
➢ Energy Conservation projects
➢ Energy Audits
➢ Energy Optimization projects
### Sector Covered in Energy Audit Studies

- Chlor-Alkali & Chemicals
- Cement, 
- Textiles
- Aluminium 
- Iron
- Power Plant 
- Fertilizers
- Petrochemicals
- Fiber

### Monesh Sharma
(Deputy Manager Mechanical)

**Total work experience**

![15 years.]

- Captive Power Plants (Operation & Maintenance)
- Mechanical Maintenance
- Projects (Erection and Commissioning)
- Energy Conservation projects
- Energy Audits

**Sector Covered in Energy Audit Studies**

- Chlor-Alkali & Chemicals
- Cement, 
- Textiles
- Aluminium
- Iron
- Power Plant

### Dharmendra Davda
(Deputy Manager)

**Professional Education**

- Bachelor in Chemical Engineering (2002)
- Certified Energy Auditor (2008)
- Certified Measurement & Verification Professional (CMVP)

**Total work experience**

![12 years.]

- Energy Audits
- Training Programmes on Energy conservation
- Energy & Emission accounting and cost optimization
- Production operations handling & trouble shooting

**Sector covered in Energy Audit studies**

- Cement, 
- Textile,
Power Plants,
Pulp, Fiber,
Aluminium (Refinery & Smelting)
Fertilizer
Chemicals,
Buildings,
Engineering & foundry
Pharmaceuticals

Dipak Khandare
(Sr. Manager)

Present Employer
Aditya Birla Management Corporation (P) Ltd. - - - - - - - S i n c e 2 0 0 7
Type of Employment - - - - - F u l l  T i m e

Professional Education
• Bureau of Energy Efficiency - Energy Auditor---------- 2006
• Master of Business Administration (MBA) – 1998
• Post Graduate Certificate Course in Energy Management (IIT, Mumbai) – 2006
• Bachelor of Electrical Engineering – 1993
• CMVP - Appeared

Total work experience---------- 1 7  y r s .
Projects – Electricals
Energy Conservation projects
Energy Audits
Electrical Maintenance
Power system studies

Sector Covered in Energy Audit studies
Chlor- Alkali & Chemicals
Cement,
Textiles
Aluminium
Fibre
Power Plant

Jagrat Mankad
(Vice President and Head Corporate Technical and Energy Services)

Total work experience ------ 2 7  y r s .
Industrial projects
- Project Execution
- Project Erection and Commissioning
  - Material Handling Design and Manufacturing
  - Marketing and Troubleshooting – Mechanical Transmission devices
  - Energy Conservation projects
  - Energy Audits

**Sector Covered in Energy Audit studies**
- Chlor- Alkali & Chemicals
- Cement, Textiles
- Aluminium
- Iron
- Power Plant

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**Deepak Gokhale**
(DGM Elect.)

**Total work experience** ----------- **20 yrs.**
- Electrical Maintenance
- Project Execution
- Energy Conservation projects
- Energy Audits

**Sector covered in Energy Audit studies**
- Chlor- Alkali & Chemicals
- Cement,
- Textiles
- Aluminium
- Power Plant

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**Rajesh Chourishi**
(Sr. Manager Elect.)

**Total work experience** ----------- **23 yrs.**
- Industrial power system projects
- Electrical Maintenance
- Power system studies & industrial network designing
- Energy Conservation projects
- Energy Audits

**Sector covered in Energy Audit studies**
- Aluminum,
- Cement,
Jyotiprasad Bhattacharjee
(DGM-Elect.)

Total work experience---------- 26 yrs

- Project execution from concept to commissioning of Power plants & Chemical plants.
- Troubleshooting of electrical problems in power plants and Chemical plants.
- System improvement for Power Plants electrics/instrumentation.
- O&M of Gas turbine, DG Power Plants.
- Electrical Maintenance of Fertilizer, Polymer, Fibre plants.
- Energy Audit of power plant, Textile and cement plant.

Sector covered in Energy Audit studies
- Chlor- Alkali & Chemicals
- Cement,
- Textiles
- Aluminium
- Power Plant

Mayank Shukla
(Asst. Manager Process)

Total work experience ----------- 8 yrs.

- Basic Engineering Projects
- Detail Engineering Projects
- Commissioning
- Energy Conservation projects
- Energy Audits
- Energy Optimization projects

Sector covered in Energy Audit studies
- Chlor- Alkali & Chemicals
- Cement,
- Textiles
- Aluminium
| **Monesh Sharma**  
| (Asst. Manager Mechanical) | **Total work experience **-------  **11 yrs.** |
| | Captive Power Plants (Operation & Maintenance) |
| | Mechanical Maintenance |
| | Projects (Erection and Commissioning) |
| | Energy Conservation projects |
| | Energy Audits |
| **Sector Covered in Energy Audit studies** |
| Chlor- Alkali & Chemicals |
| Cement, |
| Textiles |
| Aluminium |
| Iron |
| Power Plant |

| **Sudarshan Kumar Goyal**  
| Senior Manager | **Experience** |
| | Energy Audit, Project management, Cement Manufacturing Technology, Mechanical Maintenance, |
| | **Audit Sector** |
| | Cement, textiles, pulp and fiber, power plants, chemical, carbon black |

| **Atul Joshi**  
<p>| (Dy. Manager Process.) | **Total work experience **-------  <strong>7.5 yrs.</strong> |
| | Operations of MEG Plant |
| | Commissioning of MEG Plant |
| | Project Management for ABSTC |
| | Energy Conservation projects |
| | Energy Audits |
| <strong>Sector covered in Energy Audit studies</strong> |</p>
<table>
<thead>
<tr>
<th></th>
<th>Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aluminium, Cement, Textile, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous metals), Insulators, Mining, Buildings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Subject wise expertise</th>
</tr>
</thead>
</table>
|   | Electrical Utilities - Detailed analysis of  
|   | • Pumps  
|   | • Fans & Blowers  
|   | • Cooling towers  
|   | • Air compressor  
|   | • Refrigeration and air conditioning  
|   | Thermal Utilities – Detailed analysis of  
|   | • Boiler  
|   | • Furnace  
|   | • Waste heat recovery  
|   | • Steam system  
|   | • Heat exchangers  
|   | • Steam and gas turbine |

<table>
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<tr>
<th></th>
<th>Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil. Bureau of Energy Efficiency will be calling for detailed information in case agency has listed its energy audit expertise in the process systems</th>
</tr>
</thead>
</table>
|   | • Cement Pyro process  
|   | • Alumina Refinery |

|   | Energy audit thermal utility system (list sectors) |
|---|------------------------------------------------|--|
|   | Aluminium, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous material), Insulators, Mining |

|   | Energy audit electrical utility system (list sectors) |
|---|------------------------------------------------|--|
|   | Aluminium, Cement, Textile, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous material), Insulators, Mining, Buildings |

|   | Instruments available |
### Electrical (list the name of the instruments)

- Power Logger ALM 10/Krykard
- Fluke 41B Power and Harmonic Analyser/Fluke
- Fluke 43B Power and Harmonic Analyser
- Clampon Power meter Nanovip/Krykard
- Power Quality Analyser Hioki 3196/Hioki
- Lux Meter/Testo

### Thermal (list the name of the instruments)

- Ultrasonic Flow Meter/Eesiflo
- Ultrasonic Leak Detector/Ultraprobe
- Infrared Thermal Imager/Fluke
- DP Meter Testo 445/Testo
- Stack Gas Analyser/ACEMaxicem/Testo
- Pressure Logger/Crystal/Leo
- Digital Pressure Gauge/Crystal/Keller
- Digital Vane Anemometer/Dwyer/Testo
- Stroboscope/Testo
- IR Thermometer/Raytek/Testo
- Humidity/Temp. Indicator/Vaishala
- Temp/Rh. Data Loggers/Testo/Kimo

### Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit

<table>
<thead>
<tr>
<th></th>
<th>Training programme conducted during the energy audit at Aditya Cement - Shanbhupura</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i)</td>
<td></td>
<td></td>
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<tr>
<td>(ii)</td>
<td>Training programme conducted during the energy audit at Hindalco Industries Ltd - Belgaum</td>
<td>2014</td>
</tr>
<tr>
<td>(iii)</td>
<td>Training programme conducted during the</td>
<td>2014</td>
</tr>
</tbody>
</table>
We have carried out Energy Audits at various plants across the globe – Thailand, Indonesia, Canada, Phillipines, Egypts, etc. We are conducting Corporate Seminar once in a year for all our Group Units on latest topics on Energy / Reliability. We are publishing Quarterly C-NERGY newsletter mainly focused on new developments in Energy field and circulate it to our group Units. Encouraging our Group Units for celebration of Energy Conservation Day and participating in number of programs. Having High End Software for in depth analysis of Electrical and Thermal Energy like ETAP, MathCad, ASPEN, EBSILON etc. Capacity Development of each individual auditor is being done on regular basis. We have received accreditation for energy audit firm from Gujarat Electricity Commissioner, GEDA, and MEDA.

(Note: Responsibility of the authenticity of the above information rests with the concerned energy auditor/energy auditing agency.)