**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</th>
<th>(AEA - 0073)</th>
<th>As on: 26 February, 2013</th>
</tr>
</thead>
</table>

### A.  

<p>| | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>Name of accredited energy auditor</td>
<td>Dipak Khandare</td>
</tr>
<tr>
<td>2</td>
<td>Father’s name</td>
<td>Vijay Khandare</td>
</tr>
<tr>
<td>3</td>
<td>Date of certification as Energy Manager</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; November 2006</td>
</tr>
<tr>
<td>4</td>
<td>Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”</td>
<td>November 2006</td>
</tr>
<tr>
<td>5</td>
<td>Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”</td>
<td>EA - 2046 EA - 2046</td>
</tr>
<tr>
<td>7</td>
<td>Date of issue of accreditation certificate</td>
<td>(to be filled by BEE)</td>
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### B. Information in respect of trade name or firms’ name

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<tbody>
<tr>
<td>8</td>
<td>Trade name / firms name under which energy audit is proposed to be conducted</td>
<td>Aditya Birla Management Corporation Pvt Ltd.</td>
</tr>
<tr>
<td>9</td>
<td>Date of accreditation as accredited energy auditor</td>
<td>(to be filled by BEE)</td>
</tr>
<tr>
<td>10</td>
<td>Type of firm/ private/ Government / NGO etc.</td>
<td>Private</td>
</tr>
</tbody>
</table>
|   | 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  
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 |
|---|---|---|
| 11 | 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 |
| 12 | E-mail address | deepak.khandare@adityabirla.com; dipak_khandare@yahoo.com |
| 13 | Telephone numbers with STD Code (O) (M) Mobile no: | (O) 022-67603014  
(M) +91 9594932501/9594932512 |
| 14 | Year of establishment of the trade name / firms’ name for undertaking the energy audit | 1999 onwards Aditya Birla Management Corporation Pvt Ltd  
1997-99 – A part of Indo Gulf Fertilizers Ltd |
| 15 | Year of commencement of energy audit of the firm | 1997 |
| 16 | Whether any certificate to support the excellence in the system has been obtained (ISO etc.) | ISO 9001: 2008  
ISO 50001:2011 (Lead Auditor) |
| 17 | No. of branch offices  
(List of complete addresses including heads of all branch offices with telephone, fax and email addresses) | Nil |
| 18 | Number of resource persons available | 19 |
| 19 | I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm | 12 |
| 20 | II. No. of part-time energy auditors in position during the current year / | NIL |

C Details of Associated Energy Experts
previous year associated with the energy auditor / energy auditor's firms.

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:-

Dipak Khandare
(Sr. Manager)

Present Employer
Aditya Birla Management Corporation (P) Ltd. -------Since 2007
Type of Employment -------Full Time

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-------- 17 yrs.
➢ 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

<table>
<thead>
<tr>
<th>Jagrat Mankad</th>
<th>(Vice President and Head Corporate Technical and Energy Services)</th>
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</thead>
<tbody>
<tr>
<td>Total work experience</td>
<td><strong>27 yrs.</strong></td>
</tr>
</tbody>
</table>
| 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 | |

<table>
<thead>
<tr>
<th>Deepak Gokhale</th>
<th>(DGM Elect.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total work experience</td>
<td><strong>20 yrs.</strong></td>
</tr>
<tr>
<td>Electrical Maintenance</td>
<td></td>
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<tr>
<td>Project Execution</td>
<td></td>
</tr>
<tr>
<td>Energy Conservation projects</td>
<td></td>
</tr>
<tr>
<td>Energy Audits</td>
<td></td>
</tr>
<tr>
<td>Sector covered in Energy Audit studies</td>
<td></td>
</tr>
<tr>
<td>Chlor- Alkali &amp; Chemicals</td>
<td></td>
</tr>
<tr>
<td>Cement, Textiles</td>
<td></td>
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<tr>
<td>Aluminium</td>
<td></td>
</tr>
<tr>
<td>Iron</td>
<td></td>
</tr>
<tr>
<td>Power Plant</td>
<td></td>
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<table>
<thead>
<tr>
<th>Rajesh Chourishi</th>
<th>(Sr. Manager Elect.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total work experience</td>
<td><strong>23 yrs.</strong></td>
</tr>
</tbody>
</table>
- 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,
- Textile,
- Power Plants,
- Pulp, Fiber, Carbon Black, Chemicals & Fertilizers
- Ferrous and Non ferrous metals
- Insulators,
- Mining,
- Office Buildings, Malls, Hyper & Super Markets

**Jyotiprasad Bhattacharjee**
(DGM- Elect.)

**Total work experience**

- 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**

- Basic Engineering Projects
- Detail Engineering Projects
- Commissioning
<table>
<thead>
<tr>
<th>Energy Conservation projects</th>
<th>Energy Audits</th>
<th>Energy Optimization projects</th>
</tr>
</thead>
</table>

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

| 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

| Harshal Limdi  
(Dy. Manager Mech.) |  
Total work experience -------11 yrs. |  
- Mechanical Maintenance  
- Energy Conservation projects  
- Energy Audits |

**Sector Covered in Energy Audit studies**
- Chlor- Alkali & Chemicals
- Cement,
- Textiles
<table>
<thead>
<tr>
<th>Hydrocarbons</th>
<th>Agrochemicals and pesticides</th>
<th>Polymers</th>
<th>Specialty chemicals</th>
<th>Energy Conservation projects</th>
<th>Energy Audits</th>
</tr>
</thead>
</table>

**Vikram Shah**  
(Dep. General Manager - Chemical.)

**Total work experience**  
27 yrs.

- Agrochemicals and pesticides
- Polymers
- Specialty chemicals
- Energy Conservation projects
- Energy Audits

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

**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

**Dharmendra Davda**  
(Deputy Manager)

**Total work experience**  
10 yrs.

- 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,
- Chemicals,
- Buildings,
- Engineering & foundry
- Pharmaceuticals

**Atul Joshi**  
(Dy. Manager Process.)

**Total work experience** -----------7.5 yrs.
- Operations of MEG Plant
- Commissioning of MEG Plant
- Project Management for ABSTC
- Energy Conservation projects
- Energy Audits

**Sector covered in Energy Audit studies**
- Aluminum,
- Cement,
- Textile,
- Pulp, Fiber, Carbon Black, Chemicals
- Hyper & Super Markets.

| Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception | Aluminium, Cement, Textile, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous metals), Insulators, Mining, Buildings |
| Subject wise expertise | Electrical Utilities -
  - Detailed analysis of
  - Tariff Analysis – Effective utilization of ToD.
  - Contract Demand Rationalization
  - Distribution network from optimizing at best efficiency point
  - Electric Motor (HT & LT)
  - Transformers
  - Illumination
  - Thermography
  - Power Quality Study
  - Power System Studies using ETAP software (Like:- Load flow, Harmonic, Short circuit, Device duty analysis and Relay coordination)
  - DG set
  - Pumps
  - Fans & Blowers
  - Cooling towers |
<table>
<thead>
<tr>
<th><strong>Energy audit process system (list sectors)</strong> - 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>
<th><strong>Nil</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Energy audit thermal utility system (list sectors)</strong></td>
<td>Aluminium, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous material), Insulators, Mining</td>
</tr>
<tr>
<td><strong>Energy audit electrical utility system (list sectors)</strong></td>
<td>Aluminium, Cement, Textile, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous material), Insulators, Mining, Buildings</td>
</tr>
<tr>
<td><strong>Instruments available</strong></td>
<td><strong>(a) Electrical (list the name of the instruments)</strong></td>
</tr>
<tr>
<td><strong>(b) Thermal (list the name of the instruments)</strong></td>
<td>Ultrasonic Flow Meter/Eesiflo</td>
</tr>
</tbody>
</table>

- Air compressor
- Refrigeration and air conditioning

**Thermal Utilities – Detail analysis of**
- Boiler
- Furnace
- Waste heat recovery
- Steam system
- Heat exchangers
- Steam and gas turbine
<p>| | |</p>
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</table>
|   | 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

| 24 (i) | Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit | Fostering RCM culture- A Winning Strategy to Stand Tall | 2009 |
| (ii) | Electrical Power System Protection- A 360° Approach, Best Practices and Beyond | 2010 |
| (iii) | Green Energy | 2011 |

**Remarks (if any)**
- 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, HTRI, MathCad, 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.)