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>As on: 26 February, 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Name of energy auditor</td>
</tr>
<tr>
<td>2</td>
<td>Father’s name</td>
</tr>
<tr>
<td>3</td>
<td>Date of certification as Energy Auditor</td>
</tr>
<tr>
<td>4</td>
<td>Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”</td>
</tr>
<tr>
<td>5</td>
<td>Examination Registration Number of (i) Energy Manager</td>
</tr>
<tr>
<td></td>
<td>(ii) “Energy Performance Assessment for Equipment and Utility Systems” (In case of Certified Energy Auditor, please write CEA Registration No.)</td>
</tr>
<tr>
<td>6</td>
<td>Certificate Registration Number of (i) Energy Manager</td>
</tr>
<tr>
<td>7</td>
<td>Date of issue of accreditation certificate</td>
</tr>
</tbody>
</table>

B. Information in respect of trade name or firms’ name

| 8 | Trade name / firms name under which energy audit is proposed to be conducted | Aditya Birla Management Corporation Pvt Ltd. |
| 9 | Date of accreditation as accredited energy auditor | (to be filled by BEE) |
| 10 | Type of firm/ private/ Government / NGO etc. | Private |
|   | 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  
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  
Mobile +91 95940 45432  
Telephone +91 22 27403109  
Fax +91 22 27403299 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Professional postal address with Pin Code of the accredited energy auditor</td>
<td>Aditya Birla Management Corporation Pvt Ltd., ABSTC, Plot no. 1 &amp; 1-A/1, MIDC Taloja, Taluka Panvel, Dist. Raigad – 410 208</td>
</tr>
<tr>
<td></td>
<td>E-mail address</td>
<td><a href="mailto:Jyotiprasad.bhattcharjee@adityabirla.com">Jyotiprasad.bhattcharjee@adityabirla.com</a>; <a href="mailto:jpbh@rediffmail.com">jpbh@rediffmail.com</a></td>
</tr>
</tbody>
</table>
|   | Telephone numbers with STD Code (R) (O) Mobile no: | 022-27741493  
022-27403149  
+91 9702087205/+91 9904409106 |
|   | 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 |
|   | Year of commencement of energy audit of the firm | 1997 |
|   | Whether any certificate to support the excellence in the system has been obtained (ISO etc.) | ISO 9001: 2008 |
|   | No. of branch offices  
(List of complete addresses including heads of all branch offices with telephone, fax and email addresses) | Nil |

### Details of Associated Energy Experts

<table>
<thead>
<tr>
<th></th>
<th>Number of resource persons available</th>
<th>19</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I)</td>
<td>Number of full-time energy auditors in position with work experience of all energy auditors associated with the firm</td>
<td>12</td>
</tr>
<tr>
<td>No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.</td>
<td>Nil</td>
<td></td>
</tr>
</tbody>
</table>

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:**

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

  **Present Employer**
  - Aditya Birla Management Corporation (P) Ltd. --------Since 2005
  - Type of Employment -------Full Time

  **Education**
  - Bureau of Energy Efficiency Energy Auditor-------- 2004
  - Govt. Engineering Collage, Ujjain (MP)  
    (Vikram University, Ujjain) BE (Electrical) ----------1988

  **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,
- Textile,
- Power Plants,
- Pulp, Fiber, Carbon Black, Chemicals & Fertilizers
- Ferrous and Non ferrous metals
- Insulators,
- Mining,
- Office Buildings, Malls, Hyper & Super Markets.

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

**Total work experience -------27 yrs.**
- 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

**Deepak Gokhale**  
(DGM Elect.)

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

**Sector covered in Energy Audit studies**
- Chlor- Alkali & Chemicals
Dipak Khandare  
(Sr. Manager)  

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  

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
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Total Work Experience</th>
<th>Experience Details</th>
</tr>
</thead>
</table>
| Mayank Shukla     | Asst. Manager Process                 | 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  
- Iron  
- Power Plant  
- Fertilizers  
- Petrochemicals  
- Fiber |
| Monesh Sharma     | Asst. Manager Mechanical              | 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 |
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Total Work Experience</th>
<th>Experience</th>
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</thead>
<tbody>
<tr>
<td>Harshal Limdi</td>
<td>(Dy. Manager Mech.)</td>
<td>11 yrs.</td>
<td>- Mechanical Maintenance</td>
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<td></td>
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<td>- Energy Conservation projects</td>
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<td>- Energy Audits</td>
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<td><strong>Sector Covered in Energy Audit studies</strong></td>
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<td></td>
<td></td>
<td></td>
<td>- Chlor- Alkali &amp; Chemicals</td>
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<td>- Cement,</td>
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<td>- Textiles</td>
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<td>- Aluminium</td>
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<td></td>
<td>- Iron</td>
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<td>- Power Plant</td>
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<tr>
<td>Vikram Shah</td>
<td>(Dep. General Manager - Chemical.)</td>
<td>27 yrs.</td>
<td>- Agrochemicals and pesticides</td>
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<td>- Polymers</td>
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<td>- Specialty chemicals</td>
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<td>- Energy Conservation projects</td>
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<td>- Energy Audits</td>
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<td><strong>Sector Covered in Energy Audit studies</strong></td>
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<td>- Chlor- Alkali &amp; Chemicals</td>
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<td>- Cement,</td>
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<td>- Aluminium</td>
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<td></td>
<td>- Power Plant</td>
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<td></td>
<td></td>
<td></td>
<td>- Fibers</td>
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<tr>
<td>Sudarshan Kumar Goyal</td>
<td>Senior Manager</td>
<td></td>
<td><strong>Experience</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>- Energy Audit, Project management, Cement Manufacturing Technology</td>
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<td></td>
<td></td>
<td>- Mechanical Maintenance</td>
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<td></td>
<td><strong>Audit Sector</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>- Cement, textiles, pulp and fiber, power plants, chemical, carbon black</td>
</tr>
<tr>
<td>Dharmendra Davda</td>
<td>Atul Joshi</td>
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<tr>
<td>(Deputy Manager)</td>
<td>(Dy. Manager Process.)</td>
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<tr>
<td><strong>Total work experience</strong></td>
<td><strong>Total work experience</strong></td>
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<td><strong>10 yrs.</strong></td>
<td><strong>7.5 yrs.</strong></td>
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<tr>
<td>➢ Energy Audits</td>
<td>➢ Operations of MEG Plant</td>
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<td>➢ Training Programmes on Energy</td>
<td>➢ Commissioning of MEG Plant</td>
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<tr>
<td>conservation</td>
<td>➢ Project Management for ABSTC</td>
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<tr>
<td>➢ Energy &amp; Emission accounting and cost</td>
<td>➢ Energy Conservation projects</td>
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<td>optimization</td>
<td>➢ Energy Audits</td>
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<tr>
<td>➢ Production operations handling &amp;</td>
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<td>trouble shooting</td>
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<td><strong>Sector covered in Energy Audit</strong></td>
<td><strong>Sector covered in Energy Audit</strong></td>
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<td>➢ Aluminum,</td>
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<td>➢ Textile,</td>
<td>➢ Cement,</td>
<td></td>
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<tr>
<td>➢ Power Plants,</td>
<td>➢ Textile,</td>
<td></td>
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</tr>
<tr>
<td>➢ Pulp, Fiber,</td>
<td>➢ Pulp, Fiber,</td>
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<tr>
<td>➢ Chemicals,</td>
<td>➢ Carbon Black, Chemicals</td>
<td></td>
<td></td>
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<tr>
<td>➢ Buildings,</td>
<td></td>
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<td></td>
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<tr>
<td>➢ Engineering &amp; foundry</td>
<td></td>
<td></td>
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<tr>
<td>➢ Pharmaceuticals</td>
<td></td>
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</tbody>
</table>

21 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

22 Subject wise expertise

**Electrical Utilities**
- Detailed analysis of
  - Tariff Analysis – Effective utilization of ToD.
  - Contract Demand Rationalization
| (a) | 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 | 
| Nil |
| (b) | Energy audit thermal utility system (list sectors) | Aluminium, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous material), Insulators, Mining |
| (c) | 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 |

23 Instruments available
(a) Electrical (list the name of the instruments)

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Electrical Instruments</th>
<th>Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power Logger ALM 10/Krykard</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Fluke 41B Power and Harmonic Analyser/Fluke</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Fluke 43B Power and Harmonic Analyser</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Clampon Power meter Nanovip/Krykard</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Power Quality Analyser Hioki 3196/Hioki</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>Digital Multimeter/Motwane</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>Insulation Tester/Meco</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Electric Motor Checker/EMC</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Digital Earth Tester/Motwane</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Thermal Instruments</th>
<th>Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ultrasonic Flow Meter/Eesiflo</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Ultrasonic Leak Detector/Ultraprobe</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Infrared Thermal Imager/Fluke</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>DP Meter Testo 445/Testo</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Stack Gas Analyser/ACEMaxicem/Testo</td>
<td>2+1</td>
</tr>
<tr>
<td>6</td>
<td>Pressure Logger/Crystal/Leo</td>
<td>2+1</td>
</tr>
<tr>
<td>7</td>
<td>Digital Pressure Gauge/Crystal/Keller</td>
<td>1+2</td>
</tr>
<tr>
<td>8</td>
<td>Digital Vane Anemometer/Dwyer/Testo</td>
<td>2+1</td>
</tr>
<tr>
<td>9</td>
<td>Stroboscope/Testo</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>Digital Luxmeter/Testo</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>IR Thermometer/Raytek/Testo</td>
<td>2+1</td>
</tr>
<tr>
<td>12</td>
<td>Humidity/Temp. Indicator/Vaishala</td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>Temp/Rh. Data Loggers/Testo/Kimo</td>
<td>2+2</td>
</tr>
</tbody>
</table>

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
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.)