

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

<b>Serial Number</b>	<b>(AEA- 0040)</b>		<b>As on:- 26 February, 2013</b>
<b>A.</b>			
1	Name of energy auditor	Limdi Harshal	 Photograph of the energy auditor
2	Father's name	Limdi Ashok M.	
3	Date of certification as Energy Manager ( or Energy Auditor, pl specify)	Energy Auditor 6 <sup>th</sup> April, 2005	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	6 <sup>th</sup> April, 2005	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" ( In case of Certified Energy Auditor, please write CEA Registration No.)	EA – 1337	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	286	
7	Date of issue of accreditation certificate	( to be filled by BEE)	
<b>B.</b>			
<b>Information in respect of trade name or firms' name</b>			
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
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 Asst Vice President Head – Corporate Technical and Energy Services Aditya Birla Management Corporation Pvt Ltd., ABSTC, A\Plot No. 1-1/A, Taloja, Dist.: Raigad- 410208, Navi Mumbai, Maharashtra Ph No 022-27403100, Fax – 022-27403299 Email: <a href="mailto:jagrat.mankad@adityabirla.com">jagrat.mankad@adityabirla.com</a>
12	Professional postal address with Pin Code of the accredited energy auditor	Aditya Birla Management Corporation Pvt Ltd., ABSTC, A\Plot No. 1-1/A, Taloja, Dist.: Raigad- 410208, Navi Mumbai, Maharashtra
13	E-mail address	<a href="mailto:harshal.limdi@adityabirla.com">harshal.limdi@adityabirla.com</a> <a href="mailto:harshallimdi@rediffmail.com">harshallimdi@rediffmail.com</a>
14	Telephone numbers with STD Code (R) (O) Mobile no:	+91 8108673929/ 8097720344 022-27403100
15	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
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
<b>C</b>	<b>Details of Associated Energy Experts</b>	
19	Number of resource persons available	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 / previous year associated with the energy auditor / energy auditor's firms.	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:-**

**Harshal Limdi**

(Dy. Manager Mech.)

**Education**

B.E.(Mechanical) from Regional Engineering College, Surat, Gujarat  
MBA (Finance) from Symbiosis Institute of Distance Learning, Pune  
Certified Energy Auditor, BEE, Ministry of Power, GoI  
Certified Measurement and Verification Professional (CMVP) from EVO,  
Canada  
Certified IGBC-LEED AP

**Sector Covered in Energy Audit studies**

- Chlor- Alkali & Chemicals
- Cement,
- Textiles
- Aluminium
- Carbon black
- Power Plant
- Copper (Non ferrous metal)
- Pulp and fiber
- Building

## **Jagrat Mankad**

(Vice President and Head Corporate Technical and Energy Services)

### **Sector Covered in Energy Audit studies**

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

## **Deepak Gokhale**

(DGM Elect.)

### **Sector covered in Energy Audit studies**

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

## **Dipak Khandare**

(Sr. Manager)

### **Sector Covered in Energy Audit studies**

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

## **Jyotiprasad Bhattacharjee**

(DGM- Elect.)

### **Sector covered in Energy Audit studies**

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

## **Mayank Shukla**

(Asst. Manager Process)

### **Sector covered in Energy Audit studies**

- Chlor- Alkali & Chemicals
- Cement,
- Textiles
- Aluminium

- Iron
- Power Plant
- Fertilizers
- Petrochemicals
- Fiber

**Monesh Sharma**

(Asst. Manager Mechanical)

**Sector Covered in Energy Audit studies**

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

**Rajesh Chourishi**

(Sr. Manager Elect.)

**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.

**Vikram Shah**

(Dep. General Manager - Chemical.)

**Sector Covered in Energy Audit studies**

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

**Sudarshan Kumar Goyal**

Senior Manager

**Audit Sector**

- Cement, textiles, pulp and fiber, power plants, chemical, carbon black

**Dharmendra Davda**

(Deputy Manager)

**Sector covered in Energy Audit studies**

		<ul style="list-style-type: none"> <li>➤ Cement,</li> <li>➤ Textile,</li> <li>➤ Power Plants,</li> <li>➤ Pulp, Fiber,</li> <li>➤ Chemicals,</li> <li>➤ Buildings,</li> <li>➤ Engineering &amp; foundry</li> <li>➤ Pharmaceutical</li> </ul> <p><b>Atul Joshi</b> (Dy. Manager Process.)</p> <p style="color: #e91e63;">Sector covered in Energy Audit studies</p> <ul style="list-style-type: none"> <li>➤ Aluminum,</li> <li>➤ Cement,</li> <li>➤ Textile,</li> <li>➤ Pulp, Fiber, Carbon Black, Chemicals</li> <li>➤ Hyper &amp; Super Markets.</li> </ul>
21	Sectors in which the energy auditor has conducted energy audits since inception	Aluminium, Chlor-Alkali, Cement, Textile, Power Plants, Pulp, Fibre, Chemicals, Carbon Black, Fertilizer, Copper (Non ferrous metals), Insulators, Buildings
22	Subject wise expertise	<p><u>Electrical Utilities</u> - Detailed analysis of</p> <ul style="list-style-type: none"> <li>• Pumps</li> <li>• Fans &amp; Blowers</li> <li>• Cooling towers</li> <li>• Air compressor</li> <li>• Refrigeration and air conditioning</li> <li>• Contract Demand Rationalization</li> <li>• Tariff Analysis – Effective utilization of ToD.</li> <li>• Distribution network from optimizing at best efficiency point</li> <li>• Thermography</li> <li>• Power Quality Study</li> <li>• Power System Studies using ETAP software</li> <li>• Lighting</li> <li>• DG set</li> <li>• Electrical motor and transformers</li> </ul> <p><u>Thermal Utilities</u> – Detail analysis of</p> <ul style="list-style-type: none"> <li>• Boiler</li> <li>• Furnace</li> <li>• Waste heat recovery</li> <li>• Steam system</li> <li>• Heat exchangers</li> </ul>

		<ul style="list-style-type: none"> <li>• Steam and gas turbine</li> </ul>																														
(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 border="1"> <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>	Sr.No	Electrical Instruments	Nos.	1	Power Logger ALM 10/Krykard		2	Fluke 41B Power and Harmonic Analyser/Fluke	1	3	Fluke 43B Power and Harmonic Analyser	1	4	Clampon Power meter Nanovip/Krykard	3	5	Power Quality Analyser Hioki 3196/Hioki	3	6	Digital Multimeter/Motwane	3	7	Insulation Tester/Meco	1	8	Electric Motor Checker/EMC	1	9	Digital Earth Tester/Motwane	1
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		4	DP Meter Testo 445/Testo	3
		5	Stack Gas Analyser/ACEMaxicem/Testo	2+1
		6	Pressure Logger/Crystal/Leo	2+1
		7	Digital Pressure Gauge/Crystal/Keller	1+2
		8	Digital Vane Anemometer/Dwyer/Testo	2+1
		9	Stroboscope/Testo	3
		10	Digital Luxmeter/Testo	3
		11	IR Thermometer/Raytek/Testo	2+1
		12	Humidity/Temp. Indicator/Vaishala	3
		13	Temp/Rh. Data Loggers/Testo/Kimo	2+2
24 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit		Value Engineering-Focus on Enhanced Heat transfer	2008
(ii)			Fostering RCM culture- A Winning Strategy to Stand Tall	2009
(iii)			Electrical Power System Protection- A 360° Approach, Best Practices and Beyond	2010

<b>D</b>	<b>Remarks( if any)</b>
	<ul style="list-style-type: none"> <li>• We have carried out Energy Audits at various plants across the globe – Thailand, Indonesia, Canada, Phillipines, Egypts,etc</li> <li>• We are conducting Corporate Seminar once in a year for all our Group Units on latest topics on Energy / Reliability</li> <li>• We are publishing Quarterly C-ENERGY newsletter mainly focused on new developments in Energy field and circulate it to our group Units.</li> <li>• Encouraging our Group Units for celebration of Energy Conservation Day and participating in number of programs</li> <li>• Having High End Software for in depth analysis of Electrical and Thermal Energy like ETAP, HTRI, MathCad, etc.</li> <li>• We have received accreditation for energy audit firm from Gujarat Electricity Commissioner, GEDA, and MEDA</li> </ul>

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