


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

Serial Number ( AEA- 0249)		As on:- 19/10/2015	
<b>A.</b>			
1	Name of energy auditor	Jinendra K Gugaliya	
2	Father's name	Kacharulal	
3	Date of certification as Energy Auditor	Sep 2012	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	Sep 2012	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA-16671	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	10215 10215	
7	Date of issue of accreditation certificate		
<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	ABB Global Industries and Serviced Limited	
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	Jinendra K Gugaliya Senior Scientist – Control and Optimization Group,	

	STD codes and email address ( All details compulsory)	Research Dept.  ABB GISL Bhoruka Tech Park Opp Brigade Metropolis, Whitefield Road Mahadevpura Bangalore 560048 Phone (O): +91 80-67579950 Mobile: +91 9844526055		
12	Professional postal address with Pin Code of the accredited energy auditor	Jinendra K Gugaliya  Senior Scientist – Control and Optimization Group, Research Dept.  ABB GISL Bhoruka Tech Park Opp Brigade Metropolis, Whitefield Road Mahadevpura Bangalore 560048 Phone (O): +91 80-67579950 Mobile: +91 9844526055		
13	E-mail address	<a href="mailto:Jinendra.gugaliya@in.abb.com">Jinendra.gugaliya@in.abb.com</a> Jinendra_k_jain@rediffmail.com		
14	Telephone numbers. with STD Code (R) (O) Mobile no:	Phone (O): +91 80-2294 9260 Mobile: +91 9844526055		
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	24/12/1949		
16	Year of commencement of energy audit of the firm	Yr.2000		
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	Yes,  DIN EN ISO9001:2008, ISO14001:2004 OHSAS 18001:2007		
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	For latest information Please refer:  <a href="http://www.abb.co.in">www.abb.co.in</a>		
<b>Contact details: ABB India Office</b>				
	<b>City</b>	<b>Street address</b>	<b>Phone</b>	<b>Local name</b>
	<a href="#">Ahmedabad</a>	A/6 Corporate Road Safal Profitaire		ABB Ahmedabad office

<a href="#">Bangalore</a>	49 Race Course Road	+91 80 2294 9250 / 6677	Regional South
<a href="#">Bangalore</a>	49 Race Course Road	+91 80 2294 9779	Regional Office South 1 - Bangalore
<a href="#">Bangalore *</a>	21st Floor, World Trade Center, Dr. Rajkumar Road, Malleshwaram West	+91 80 22949129, +91 80 22949150-54	Corporate Office
<a href="#">Bhopal</a>	Plot No 34 Sector – A	+91 755 6463601 - 08	Regional Office Central 1 - Bhopal
<a href="#">Bhubaneswar</a>	Plot No. A-5/1 Bhoi Nagar; City Centre	+91 674 6548 701-716	Branch Office East - Bhubaneswar
<a href="#">Chandigarh</a>	SCO No 13-14-15	+91 172 5214 400	Regional Office North 2 - Chandigarh
<a href="#">Chennai</a>	129-140 Greams Road	+91 44 28291550/28291551	Zonal Office
<a href="#">Coimbatore</a>	70 Race Course Road	+91 422 2305 934	Branch Office South - Coimbatore
<a href="#">Coimbatore</a>	70 Race Course Road	+91 422 2305 934	Ventyx
<a href="#">Dehradun</a>	C-2/201 Vaibhav Palace	+91 135 2762731 / 2760654	Branch Office North - Dehradun
<a href="#">Faridabad</a>	14 Mathura Road	+91 129 227 5591-92	Regional Office North
<a href="#">Hyderabad</a>	HUDA Road; Splendid Towers D.No 1-8-437 438 365 & 445	+91 40 2790 6736, +91 40 2790 6729	Branch Office South - Hyderabad
<a href="#">Jaipur</a>	C-116 Alaknanda	+91 141 2744024 to 26	Branch Office North - Jaipur
<a href="#">Jamshedpur</a>	Contractors area	+91 657 6619 201 / 202	Branch Office East - Jamshedpur
<a href="#">Kochi</a>	Seaport Airport Road	+91 0484 2421481, +91 0484 2421491	
<a href="#">Kolkata</a>	Bengal Intelligent Park Ltd	+91 33 6621 3311	Regional Office East - Kolkata
<a href="#">Lucknow</a>	29/9 Rana Pratap Marg	+91 522 2209 4369, +91 522 2209 466	Branch Office North - Lucknow
<a href="#">Mumbai</a>	ABB House	+91 22 6615 9828 / 9800	Regional office west - Mumbai
<a href="#">Mumbai</a>	Shah Industrial Estate; Janaki Centre	+91 22 6671 7272 / 73 / 74	Mumbai - Service centre
<a href="#">Mysore</a>	Mysore Ooty Road	+91 80 2125 36100	Raman Board Limited
<a href="#">Nagpur</a>	#5 Gawande Layout	+91 712 6461145 / 46 / 48 / 49	Branch Office West - Nagpur
<a href="#">Nashik</a>	Street No 17	+91 253 2201200, +91 253 2201337	Manufacturing Facilities - MV Switchgear
<a href="#">Pune</a>	Neel Square Plot No 8	+91 20 6624 3838	Branch Office West - Pune
<a href="#">Raipur</a>	GE Road	+91 77 1421 3200	Regional Office Central 2 - Raipur
<a href="#">Visakhapatnam</a>	Plot No 1 Balaji Nagar Siripuram	+91 891 2795837, +91 891 2538188	Branch Office South - Vishakapatnam

<b>C</b>	<b>Details of Associated Energy Experts</b>	
19	Number of resource persons available	10 no.
20	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the	<b>Dr. B S Babji</b> ( Advanced Services) Process Automation Division

firm

**Qualification:**

**B.E.-** Chemical Engg

**M. Tech-** Chemical Engg

**Ph.D.-** Chemical Engg

**Experience:** More than 25 years of industrial and academic experience in process modeling, simulation, advanced process control and optimization. Carried out performance analysis studies in more than 15 plants.

**Sectors:** Petroleum Refineries, Petrochemicals, Fertilizers, Pulp and Paper, Sugar, Captive Power plants etc

**Mr. Naveen Bhutani**

**Qualification:**

**B.E.-** Chemical engineering IIT, BHU, Varanasi, India

**M. Tech-** Specialization in Process Engineering Design IIT, Delhi, India

**Ph.D.-** Specialization in Process Systems Engineering N U Singapore, Singapore

**Experience:** 8+ years of experience in process design, energy monitoring, energy auditing, energy management and delivery of advanced energy efficiency solutions for process industries like power plants, oil and gas, desalination, pulp and paper, and steel mills.

Carried out 4 remote energy efficiency services and energy audit assignments for energy management in various process industries

**Sectors:** Power plant, Pulp & Paper and Buildings.

***Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16670)***

***Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA-16671)***

**Mr. Sanjaya Kumar Swain**

Process Automation

**Qualification:**

**B.E.-** Chemical Engg

**Experience:** More than 9 years of industrial experience in production, process analysis, control loops performance diagnosis and tuning.

**Sectors:** Pulp and Paper, Cement and Captive Power plants.

**Mr. Anirban Saha**

**Qualification:**

**B.E.- Power Plant Engineering**

**Experience:** 8 years' experience in project management for power Plant EPC, Energy audits, energy management & Maintenance.

**Sectors:** Power plant, Motor Manufacturing unit, Office Building & premises.

***Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16761)***

**Mr. Rajeev Pol**

HV Motors & Generators

**Qualification:**

B.E.- Electrical

PG Diploma in Operations Management

**Experience:** 20 Years of total experience. 2 years in process industry, 2 years in software service industry, 16 years in rotating machines manufacturing industry. Energy management, Head of electrical maintenance for 4 years, Head of HV motor test field for 8 years and since 4 years.

**Sectors:** Engineering, Chemical, Building

***Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA7783)***

**Mr. Ujjal Das**

Engineering, Power Systems, Substations

**Qualification:**

**B.E.- Electrical Engineering**

**Experience:** 22 years of experience in working in Power System, substation, design, tendering, project management for various State and Central Power Utility customer, Government and Private sector Steel Plant, Industrial sector, Aluminium Plant, Various Independent Power Plants.

***Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16737)***

**Mr. Sumesh P J**

Engineering & Design

**Qualification:**

ME- Power system

**Experience:** 9 year experience in the areas of generation, Substations, Transmission lines design. Main experience in preparation of layouts, conductor sizing, Engineering calculations etc.

Carried out energy audit of engineering, Building.

**Sectors:** Engineering and commercial Buildings

***Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA6590)***

**Mr. Himanshu Jain**  
eBOP, Designing

**Qualification:**

B.E.- Electrical Engineering,  
M.S in Power Engineering,  
PGDEM - Energy Efficiency, Certified Energy Auditor

**Experience:** Over 7 years' experience in electrical designing of power Plant EPC, Energy audits, energy management & Maintenance.

**Sectors:** Power plant, Engineering, Building.

***Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA15405)***

**Mr. Nilanjan Bose**

**Qualification:**

B.E.- Electrical Engineering  
PGDBM – Management Information Systems  
Certified Project Management Professional

**Experience:** 17 Years' experience out of which 11 in a Power generation / distribution utility looking after energy metering / billing/ monitoring & controlling T&D losses.

**Sectors:** Power distribution, Energy metering & AT&C Loss monitoring in distribution utilities.

***Certified Energy Manager by Bureau of Energy Efficiency (BEE) India (EA17013)***

**Ms. Thejaswini AR**  
Design & Engineering

**Qualification:**

B.E.- Electrical & Electronics Engineering

**Experience: Overall 10+ Years' Experience**

- 5+ Years' experience in Design & Engineering domain – Power distribution for Industrial & Infrastructure Projects

		<ul style="list-style-type: none"> <li>- 2 Years' experience in Design &amp; Engineering of Protection Panels for Switchyards.</li> <li>- 3 Years' experience in Receiving Station Maintenance, Responsible for improving Plant availability factor.</li> </ul> <p>Been part of Energy Audits conducted at ABB branches in Peenya, Nelamangala &amp; ABB- Mysore.</p> <p><b>Sectors:</b> Buildings, Paper &amp; Pulp</p> <p><b><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16685)</i></b></p>
20	II. No. of part-time energy auditors in position during the current year / previous years associated with the energy auditor / energy auditor's firms.	
21	Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception	<p>Cement, Iron &amp; Steel, Thermal Power plant, Food &amp; beverage, Engineering, Pulp &amp; paper Chemical Building Petrochemicals Fertilizer Aluminum Sugar Textile</p>
22	Subject wise expertise	<p>Assessment, Analysis of following systems</p> <ol style="list-style-type: none"> <li>1. <b>Thermal system-</b> Boilers, turbines, heat exchangers, .Steam distribution analysis and traps</li> <li>2. Pumps</li> <li>3. Fans/Blowers</li> <li>4 Process control and Loop performance analysis for various sectors.</li> <li>5. Compressed Air</li> <li>6. HVAC, Refrigeration –Air conditioning</li> <li>7. Cooling Towers</li> <li>8. Fuel fired equipments- Boilers, Hot oil generators, Furnaces, Gas, Coal</li> <li>9. End use analysis of heating &amp; cooling Waste Heat recovery- from utility equipments &amp; processes</li> <li>10. Buildings</li> </ol>

		<ul style="list-style-type: none"> <li>11. Analysis of cogeneration potential</li> <li>12. Technical &amp; Financial feasibility analysis</li> <li>13 Plant Transient Analysis (Startup/Shutdown)</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	Process control of: Thermal Power plant, Cement plant Pulp & paper Iron & Steel
(b)	Energy audit thermal utility system (list sectors)	<ul style="list-style-type: none"> <li>1. Power plant,</li> <li>2. Engineering</li> <li>3. Cement</li> </ul>
(c)	Energy audit electrical utility system (list sectors)	<ul style="list-style-type: none"> <li>1. Cement</li> <li>2. Iron &amp; Steel</li> <li>3. Thermal Power plant</li> <li>4. Food &amp; beverage</li> <li>5. Engineering</li> <li>6. Pulp &amp; paper</li> <li>7. Building,</li> <li>8. Chemical</li> <li>9. Transmission &amp; Distribution</li> </ul>
23	Instruments available	<ul style="list-style-type: none"> <li>1. 3-phase Power analyser</li> <li>2. Clamp type ammeter</li> <li>3. Lux meter</li> <li>4. Anemometer</li> <li>5. Digital Temperature indicator</li> <li>6. Data logger for high speed data acquisition for process analysis</li> </ul>
	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> <li>1. 3 phase power analyser</li> <li>2. Clamp-on ammeter</li> <li>3. Lux meter</li> </ul>
	(b) Thermal (list the name of the instruments)	<ul style="list-style-type: none"> <li>4. Anemometer</li> <li>5. Digital Temperature indicator</li> <li>6. ABB data logger for high speed data acquisition for process analysis</li> </ul>



24	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit		
(i)	Conducted training on energy efficiency improvement in utility system for ABB Business Unit Staff	Participant's appx. 20 nos. Duration: 2 days Areas covered: Basics of energy, Energy auditing of Thermal system, Motor, Pump, Fan, Compressors	Training Location: Bangalore During yr. 2013

<b>D</b>	<b>Remarks( if any)</b>

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