


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

<b>Serial Number ( AEA- 0252)</b>		<b>As on:- 04/11/2014</b>	
<b>A.</b>			
1	Name of accredited energy auditor	Shri K. R. Siddhapura	
2	Father's name	Mr. Ranchhodbhai H. Siddhapura	
3	Date of certification as Energy Manager	Energy Auditor - August 10, 2007	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	Energy Auditor - August 10, 2007	
5	Examination Registration Number of (i) Energy Manager (ii)"Energy Performance Assessment for Equipment and Utility Systems"	EA - 7189	
6	Certificate Registration Number of (i) Energy Manager (ii)"Energy Performance Assessment for Equipment and Utility Systems"	EA - 7189	
7	Date of issue of accreditation certificate	( to be filled by BEE)	
<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	Darshan Institute of Engineering and Technology- Rajkot	
9	Date of accreditation as accredited energy auditor	( to be filled by BEE)	
10	Type of firm/ private/ Government / NGO etc.	Registered Under Charitable Trust	
11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address	Contact person	Mr. K. R. Siddhapura
		Designation	Head & Associate Professor (Electrical Engineering Department )

	( All details compulsory)		CEO (Energy Management Cell)
		Address	Mr. K. R. Siddhapura 12 – A, Ghanshyam Nagar (W), Street No – 1, B/H IOC Colony, Kalawad Road, Rajkot - 360005
		Contact No	(O): +91 2822 293023 (M): +91 94272 29262 (Fax): +91 2822 293008
		e-mail	darshan.electrical@gmail.com
12	Professional postal address with Pin Code of the accredited energy auditor	Darshan Institute of Engineering and Technology At. Hadala, Near Water Sump, Rajkot - Morbi Highway, Rajkot – 363 650.	
13	E-mail address	darshan.electrical@gmail.com	
14	Telephone numbers. with STD Code (R) (O) Mobile no:	(R): +91 281 2562798 (O): +91 2822 293023 (M): +91 94272 29262	
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	2009	
16	Year of commencement of energy audit of the firm	2009	
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	Electrical Contractor	Government of Gujarat
		Energy Auditor	Government of Gujarat
		Energy Audit Consultant	Gujarat Energy Development Agency (GEDA)
		ESCO Grade "BEE Grade – 3"	BEE (Bureau of Energy Efficiency), Ministry of Power, Government of India
		SI Grade – "SP 3B"	ICRA assigned System Integrator for MNRE (Ministry of New and Renewable Energy), Government of India

		NGOs / Non-Profit Organizations	MNRE ( Ministry of New and Renewable Energy), Government of India
		Quality Management System ISO 9001:2008	SWISS CERT Pvt. Ltd.
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	No other branches	
<b>C</b>	<b>Details of Associated Energy Experts</b>		
19	Number of resource persons available	21 (Twenty One Only)	
20	I. Number of full-time energy auditors in position with work experience of all energy auditors associated with the firm	<p>ONE  <b>Name</b> – Mr. K. R. Siddhapura (EA – 7189)  <b>Qualification</b> – M. Tech. (PAED – IIT Roorkee), B. E. (Electrical – SVNIT Surat)  <b>Experience</b> – 6 years as Energy Auditor. Conducted more than 50 detailed energy audits, 30 Thermography, 10 power quality audit and More than 16 years as Professor in Engineering Institution  <b>Sectors</b> - Foundry Industry, Cement Industry, Zinc Ingots Manufacturer, Paper Mill, Ceramic Industry, Indian Railway (Western Region), PV Solar Power Plant, Gas Based Heat Pump Technology, Brass Parts Industry, Processed Food Industry Polypropylene (PP) Box Straps Manufacturer, Packaging box, labels, stickers, tags Manufacturer, Electrical Accessory Manufacturer, Engine Valves &amp; Spares Manufacturer, Government (Offices, Engineering College, University etc.), Health Care (Civil Hospital, Multispecialty Hospital etc.), Banking Sector (National, Co-operative etc.), Engineering Association etc.</p>	
	II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.	<p>ONE  <b>Name</b> – Mr. K. B. Sangani  <b>Qualification</b> – M. E. (HP), B. E. (Mechanical)  <b>Experience</b> – 5 years as freelancer Energy Auditor and More than 16 years as Professor in Engineering Institution  <b>Sectors</b> – Thermal and Heat Recovery System and Mechanical System</p>	

21	Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception	Cellulose Industry, Foundry Industry, Cement Industry, Zinc Ingots Manufacturer, Paper Mill, Ceramic Industry, Indian Railway (Western Region), PV Solar Power Plant, Gas Based Heat Pump Technology, Brass Parts Industry, Processed Food Industry Polypropylene (PP) Box Straps Manufacturer, Packaging box, labels, stickers, tags Manufacturer, Electrical Accessory Manufacturer, Engine Valves & Spares Manufacturer, Government (Offices, Engineering College, University etc.), Health Care (Civil Hospital, Multispecialty Hospital etc.), Banking Sector (National, Co-operative etc.), Engineering Association etc.
22	Subject wise expertise	<p><b>Investigative Expertise</b> - Energy Audit, Energy Conservation, Energy Management.</p> <p><b>Equipment Failure Analysis</b> - Electric Motors, Electric Generators, Refrigeration, Compressor, Electrical Furnaces.</p> <p><b>Electrical Measurements &amp; Design</b> - Voltage, Current, Power Factor, kW, kVAR, kVA, Maximum Demand, Transients, THD.</p> <p><b>Safety Audit</b> - Electrical and Static Electricity Hazards in Plant.</p> <p><b>Thermal Imaging</b> - Transmission Line, Generator, Electric Motor, Transformers, Switchgear, UPS, Mechanical Coupling, Solar Panels, Thermal Utilities.</p> <p><b>PV Solar Power Plant EPC</b> - Detailed planning, design, execution and power quality monitoring of the solar power plant.</p> <p><b>Electrical Earthing System Design</b> - Detailed planning, design and execution of earthing system. 3-Pole, 4-Pole, 2 clamps earth resistance measurement. Soil resistivity measurement.</p> <p><b>Pump Testing</b> - Efficiency measurement of pumping installation</p> <p><b>Flue Gas Analysis</b> - Determination of the completeness of the combustion of the carbon in the fuel.</p> <p><b>Electrical Design &amp; Drafting</b> - Building Electrical Wiring, Electrical Lighting Design, Motor Panel</p>

		Design.
(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	-----
(b)	Energy audit thermal utility system (list sectors)	Foundry Industry (Investment Casting, CI, Sand Casting etc.), Ceramic Industry, Gas Based Heat Pump Technology, Processed Food Manufacturer
(c)	Energy audit electrical utility system (list sectors)	Foundry Industry, Cement Industry, Zinc Ingots Manufacturer, Paper Mill, Ceramic Industry, Indian Railway (Western Region), PV Solar Power Plant, Gas Based Heat Pump Technology, Brass Parts Industry, Processed Food Industry Polypropylene (PP) Box Straps Manufacturer, Packaging box, labels, stickers, tags Manufacturer, Electrical Accessory Manufacturer, Engine Valves & Spares Manufacturer, Government (Offices, Engineering College, University etc.), Health Care (Civil Hospital, Multispecialty Hospital etc.), Banking Sector (National, Co-operative etc.), Engineering Association etc.
23	Instruments available	
	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> <li>• Power Analyzer (Model: CA 83323) - Chauvin-Arnoux - 1 No.</li> <li>• Power Analyzer (Model: ALM32) - KryKard - 1 No.</li> <li>• True RMS Handheld DMM (Model: U1231A) - Agilent - 1 No.</li> <li>• True RMS Clamp Meter (Model: 376) - Fluke - 1 No.</li> <li>• Digital Multimeter - Meco - 5 Nos.</li> <li>• True RMS Digital Clamp On Meter (AC/DC) - Meco - 1 No.</li> <li>• Digital Clamp on Meter (Model: 3600) - Meco - 1 No.</li> <li>• Digital Clamp on Meter (Model: 72(T)) - Meco - 1 No.</li> <li>• Digital Clamp on Meter (Model: 2775) - 2 Nos.</li> </ul>

		<ul style="list-style-type: none"> <li>• Earth Resistivity Tester (Model: CA 6471) - Chauvin-Arnoux – 1 No.</li> <li>• Analog Earth Tester – Nippen – 1 No.</li> <li>• Analog Insulation Tester – Nippen – 1 No.</li> <li>• Digital Insulation Tester – Meco – 1 No.</li> <li>• High Voltage Probe – 2 Nso.</li> <li>• Digital Lux Meter (Model: MS6610) – Vartech – 1 No.</li> <li>• Anemometer With Rotating Vane (Model: AM-4222) – Lutron – 1 No.</li> <li>• Digital Tachometer (Photo Type) - Meco – 1 No.</li> <li>• Digital Tachometer (Contact Type) Meco – 1 No.</li> <li>• Digital Solar Meter – 1 No.</li> </ul>	
	(b) Thermal (list the name of the instruments)	<ul style="list-style-type: none"> <li>• Flue Gas Analyzer – testo (Model: TESTO 350)– 1 No.</li> <li>• Ultrasonic Flow Meter (Model: 93T Portable) - Endress + Hauser – 1 No.</li> <li>• Thermal Imager (Model: TI32) – Fluke – 1 No.</li> <li>• Infrared Thermometer (Model: MS6530) – Mastech – 1 No.</li> <li>• Thermometer Pen Type Multistep (Model: ST-9263A/B/C) – 1 No.</li> <li>• Pitot Static Tube Apparatus With Manometer – Kmeco – 1 No.</li> </ul>	
24	Details of training program/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit		
(i)	Short Term Training Program (Advancement in Power System)	Speaker	School of Diploma Studies, R. K. University
(ii)	Zonal Seminar on “ Green Technologies” (Solar Power Plant Generation and Utilization)	Speaker	The Institution of Electronics and Telecommunication Engineers (IETE)
(iii)	GEDA Sponsored EC awareness workshop for engineering colleges in Gujarat (Energy Conservation, Energy Scenario, Systems Approach, Energy Audit and EC	Speaker	<ul style="list-style-type: none"> <li>• Marwadi Education Foundation’s Group of Institutions – Rajkot</li> <li>• Atmiya Institute of Technology &amp; Science – Rajkot</li> </ul>

	Opportunities in Motors, Lighting, Pumps, Fans, Refrigeration, Boilers, Compressors, and Furnaces)		<ul style="list-style-type: none"> <li>• Government Engineering College – Bhuj</li> <li>• Darshan Institute of Engineering and Technology - Rajkot</li> <li>• VVP Engineering College – Rajkot</li> <li>• Government Engineering College – Rajkot</li> <li>• Shri Labhubhai Trivedi Institute of Engineering &amp; Technology- Rajkot</li> <li>• Sanjaybhai Rajguru College of Engineering - Rajkot</li> </ul>
(iv)	Convergens – 2013 (Solar Energy and EV)	Speaker	U. V. Patel College of Engineering, Ganpat University
(v)	Energy Conservation Day – 2012 (Electricity Sector Reforms and Renewable Power Development)	Speaker	Institute of Engineers (India), Saurashtra Local Centre – Rajkot
(vi)	Metering Instrument - Power Quality Analyzer, Thermal Imager and Advanced Earth Tester	Speaker	Automation System Engineers Pvt. Ltd. - Ahmedabad
(vii)	TERI – SIDBI (Rajkot Engineering Cluster (Computer Aided Drawing & Drafting)	Speaker	Conducting training classes, Literature for trainee, award and certification distribution for Rajkot engineering cluster workers
(viii)	TERI – SIDBI (Rajkot Engineering Cluster (Basics of Electricity, Electrical Safety & Electrical Metering)	Speaker	Conducting training classes, Literature for trainee, award and certification distribution for Rajkot engineering cluster workers
(ix)	TERI – SIDBI (Rajkot Engineering Cluster (Computer Aided Electrical Drawing & Drafting)	Speaker	Conducting training classes, Literature for trainee, award and certification distribution for B. E. Electrical pre-final and final year students
<b>D</b>	<b>Remarks( if any)</b>		
	<ul style="list-style-type: none"> <li>• Mr. Kuman R. Siddhapura has been</li> </ul>		

	<ul style="list-style-type: none"> <li>▪ Invited for discussion followed by meetings on “Advantages of Energy Savings and Thermography” for DNV Certification with Marine Companies at Singapore.</li> <li>▪ Worked as a guest scientist at Electrical Drives Group, Department of Energy and Automation Technology, Faculty of Electrical Engineering and Computer Science, Technical University of Berlin from 2nd April 2014 to 10th June 2014 on a research project of sensor less PMSM Drives.</li> <li>▪ One of the delegates selected for Country Focused Training Course in Energy Conservation Techniques for India in Japan under Technical Cooperation of Government of Japan during 25<sup>th</sup> 2013 to 2<sup>nd</sup> August 2013 for BEE certified Energy Managers/ Auditors by Japan International Cooperation Agency (JICA), Government of Japan.</li> <li>▪ Chartered Engineer, Empanelled with Ministry of New and Renewable Energy, Government of India for Solar power Plant.</li> <li>▪ Awarded DAAD (German Academic Exchange Service) scholarship for doing Master’s thesis at University of Stuttgart, Germany under IIT-Masters-Sandwich Program for 9 months</li> <li>▪ GATE (Graduate Aptitude Test in Engineering) qualified with 99.26 percentile and awarded scholarship for doing M.Tech (Master of Technology) in Indian Institute of Technology, Roorkee.</li> <li>▪ Author of a book titled “A Textbook of Electrical Machines” (ISBN No. 978-93259-7562-0), Vikas Publishing House Private Limited, New Delhi, 1st Edition 2014.</li> <li>▪ Author of a book titled “Transmission and Distribution of Power” (ISBN No. 978-93259-8664-0), Vikas Publishing House Private Limited, New Delhi, 1st Edition 2014.</li> </ul>
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(Note: Responsibility of the authenticity of the above information rests with the concerned energy auditor/energy auditing agency.)