


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

Serial Number (AEA-0223)		As on 26/6/2015	
A.			
1	Name of energy auditor	Shri Manish Subhash Thakare	
2	Father's name	Subhash	
3	Date of certification as Energy Manager (or Energy Auditor, pl specify)	February 1, 2013	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	February 1, 2013	
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 -15836	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	7458	
7	Date of issue of accreditation certificate	(to be filled by BEE)	
B. Information in respect of trade name or firms' name			
8	Trade name / firms name under which energy audit is proposed to be conducted	Schneider Electric India Pvt Ltd	
9	Date of accreditation as accredited energy auditor	(to be filled by BEE)	
10	Type of firm/ private/ Government / NGO etc.	PVT	

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. UpendraPratap Singh Sr. Manager –Audits & Consultancy Address: Schneider Electric India Pvt. Ltd. 9th Floor, DLF Building No.10, Tower C, DLF Cyber City, Phase II, Gurgaon -122002, Haryana Mobile No.9910695696 Phone: 0124 3305387 Fax: 0124 4222 036 Email: upendrapratap.singh@schneider-electric.com Website: www.schneider-electric.com
12	Professional postal address with Pin Code of the accredited energy auditor	Schneider Electric India Pvt. Ltd. 4th Floor, Electra wing 'A', Exora Business Park, Marathahalli, Sarjapur Outer Ring Road, Bangalore – 560103
13	E-mail address	baranitharan.gnanamoorthy@schneider-electric.com
14	Telephone numbers. with STD Code (R) (O) Mobile no:	Phone: +080- 43333638 Mobile: +91 9767512644
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	1995
16	Year of commencement of energy audit of the firm	2002
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	Yes. 1: ISO Certificate: Certificate no: 195153-15-UK, valid from 22—08-08 to 30-07-2014 2. OHSAS Certificate no: of-HK 10023-15, valid from 26-07-11 to 30-07-2011 3.ISO 9001: 2008 Certificate no: 195152-18-UK, valid from 22—08-08 to 30-07-2014
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Corporate Office: Delhi Schneider Electric India Pvt. Ltd. Professional Services 9 floor, DLF Building, 10, Tower C, DLF Cyber city, Phase II, Gurgaon, Haryana 122 002 Dr. Satish Kumar Energy Efficiency Ambassador Phone: ++91-124-3940-400 ext. 439 Fax: ++91-124-4222-036 Mobile: + +91-98180-75006 Email: satish.kumar@schneider-electric.com Site: www.schneider-electric.com

	<p>Branch Office: Bangalore Schneider Electric India Pvt. Ltd. Professional Services #44P,Electronic City East Phase, Hosur Road, Bangalore 560 100 Vijayarengamani R Associate General Manager -Energy Efficiency Audits & Consulting Phone: +91 80 39102767 Fax: +91 80 39102735 Mobile: +91 9566656574 Email: vijayarengamani.ramalingam@schneider- electric.com Site: www.schneider-electric.com</p> <p>Branch Office: Bangalore Schneider Electric India Pvt. Ltd. Professional Services 4th Floor, Electra, Wing 'A' Exora Business parks, Marathahalli, Sarjapur Outer Ring Road, Bangalore - 560 103 Abraham Varughese General Manager, Professional Services Phone: 080 43333333 Fax: 080 43332323 Mobile: +91 98454 71135 Email: abraham.varughese@schneider- electric.com Site: www.schneider-electric.com</p>	<p>Branch Office: Kolkatta Schneider Electric India Pvt. Ltd. Professional Services Sugam Business Park ,4th & 5th Floors ,Plot-J6, Block-GP,Sector-V, Salt Lake city,Kolkata-700 091 Laxmidhar Sutar Associate General Manager- Energy Efficiency Audits & Consulting Phone: +913339404000 ext. 4131 Fax: +913330248686 Mobile: +919831556693 Email: laxmidhar.sutar@schneider-electric.com Site: www.schneider-electric.com</p> <p>Branch Office: Mumbai Schneider Electric India Pvt. Ltd. Professional Services Unit No.1141/42, Building no.11, 4th Floor, Solitaire Corporate Park, Andheri Kurla Road, Chakala, Andheri (E), Mumbai-400059, India Mangesh Mayekar Deputy Manager Phone: +91 22 3940 400 Toll Free: +18004250555 Fax: +91 22 3073 8800 Mobile: +9892068611 Email: mangesh.mayekar@schneider-electric.com Site: www.schneider-electric.com</p>
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C	Details of Associated Energy Experts	
19	Number of resource persons available	15
(I)	Number of full-time energy auditors in position with work experience of all energy auditors associated with the firm	15
	<p>1. Sivakumar RK, General Manager EM services Qualification: B.E in Electronics & Instrumentation Experience: IBMS engineer with over 21 years of relevant experience including 11 yrs of overseas experience in Integrated Building Management Systems (IBMS), Controls & Automation with P&L responsibility. IEEE Membership (EMEA, Saudi Arabian & Indian Chapter) – Type (Research Scholar, Controls & Systems Chairperson – Reviewing Committee Person in Jordan University, External IT & Systems Consultant for Indian Embassy School, Saudi Arabia for 3 Years, Creative Education Support for Somaliland & Somalia districts thro’ a non UNICEF board.</p>	<p>2. Abraham Varughese General Manager, PFC Qualification: B.Tech in Electrical Engineering, MBA, DIS, AMIE, MIIPE Experience: 21 Years experience in Detailed Energy Audits, Safety Management and Energy Management etc. Carried out more than 500 Comprehensive Consultancy assignments in energy management in various industries in India and abroad Sectors: Textile, Sugar, Paper and Pulp, Steel, Pharmaceutical, Buildings, Automobile, Brewery, Food Processing, Thermal Power Plants, Chemical, Hotel, Hospital, Engineering <i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 0079).</i></p>

		<p><i>Accredited Energy Auditor AEA-0006</i></p>
	<p>3. Mr. Vijayarengamani AGM, Global Energy Efficiency and Process Expert – Cement</p> <p>Qualification: B Tech in Production Technology.</p> <p>Experience: 18 years experience in Energy audit and in Cement industry. Carried out at about 120 comprehensive assignments in across various industries in different countries in India and abroad.3 years experience in Cement Industry</p> <p>Sectors : Cement, Steel, Aluminum, Refinery, Port, Textile, Buildings, Paper and Pulp, Chemical, Rayons, Pharmaceutical, Thermal Power Plants, Tyre, Mines, Automobile, Brewery, Beverages, Engineering, Hotels, Hospitals</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1079). Accredited Energy Auditor AEA-0074</i></p> <p>4. Mr. Upendra Pratap Singh Sr. Manager, EM Services</p> <p>Qualification: B E in Mechanical Engineering and M Tech in Energy Studies</p> <p>Experience: 17 years experience in Energy audit and clean development mechanism in various industries. Carried out more than 250 comprehensive assignments in across various industries in different countries in India and abroad. 10 years experience in Textiles</p> <p>Sectors: Municipal Water Pumping, Buildings, Thermal Power Plants, Steel, Chemicals, Pharmaceuticals, Textiles, Cement, Paper and Pulp, Battery, Railways, Residential, Automobile, Telecom, Rubber, Tyre, Engineering, Chlor Alkali</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 0232) Certified CMV Professional by EVO & AEEE Accredited Energy Auditor AEA 005</i></p> <p>5. Mr. Laxmidhar Sutar Sr. Manager, EM</p>	<p>9. Mr.Mangesh Mayekar Dy. Manager, EM Services</p> <p>Qualification: B.E in Electrical Engineering</p> <p>Experience: 5 Year experience in Energy audits carried out 45 energy audits& 28 Power quality audits,6 year experience in industry, operation and maintenance of network, switch gear.</p> <p>Sectors: Chlor Alkali, Refinery, Thermal Power Plants, Pharmaceuticals, Tyres, Port, Hotel, Indian Naval Ship, Beverages, Steel, Engineering, Automobile, Refinery, FMCG, Food Processing, Municipality, Railways, Battery</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1526) Accredited Energy Auditor- AEA 004</i></p> <p>10. Mr. Mrinmoy Kayal Dy. Manager, EM Services</p> <p>Qualification: PG Diploma in Energy Management</p> <p>Experience: 5.5 Year experience in Energy audits, conducted 35 energy audits out of which 23 are in power plants</p> <p>Sectors: Automobile, Tea, Buildings, IT, Thermal Power Plants, Ordinance, Aluminium, Textile,</p> <p><i>Certified Energy Manager by Bureau of Energy Efficiency (BEE) India (EM 2238)</i></p> <p>11. Mr. Biyas. B. Asst. manager – EM Services</p> <p>Qualification: M Tech in Energy management. B. Tech in Mechanical Engineering 5.5 years experience in Energy Audits, conducted 60 Comprehensive energy audits in Industrial and Commercial complexes in India and abroad</p> <p>Sectors: Buildings, Tyre, IT, Iron & Steel, Pharmaceuticals, Electronics, Textiles, Power plant, FMCG, foundry & Refractories,</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India EA12557 Certified CEM, AEE</i></p>

<p>Services</p> <p>Qualification: A M I E in Electrical Engineering</p> <p>Experience: 14 Years experience in Energy audits and conducted more than 180 comprehensive assignments in Industrial and Commercial complexes in India and Abroad. 25 Power Plant audits .7 years experience in Studies and implementation in textile mills</p> <p>Sectors: Jute Mills, Thermal Power Plants, Textile, Chemicals, Refractory, Cement, Sponge Iron, Buildings, Food Processing, IT, Railways, Cables, Automobile, Carbon, FMCG, Automobile, Engineering, Pulp and Paper, iron & steel</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1853)</i></p> <p>6. Mr. Baskaran G Manager, EM Services Qualification: B. Tech in Mechanical Engineering; M Tech in Energy Technology</p> <p>Experience: 6 Years experience in Energy audits and conducted about 60 comprehensive assignments in Industrial and Commercial complexes in India and abroad</p> <p>Sectors: Refinery, Cement, Aluminum, Thermal Power Plants, Buildings, Municipalities, Engineering, Pharmaceuticals, Port, Carbon, IT, Rice Mills, Automobile, Food Processing, Brewery, FMCG, Chlor Alkali, Tea</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 7490)</i> <i>Certified CMV Professional by EVO & AEEE</i> <i>Accredited Energy Auditor-AEA 0079</i> <i>Certified CEM, AEEE</i></p> <p>7. Mr. Benet George Manager, EM Services</p> <p>Qualification: AMIE , MTech in Energetics</p> <p>Experience: 6 years Industrial Experience and has conducted more than 60 comprehensive energy audits in India and abroad</p> <p>Sectors:Hotel, Refinery, Textile, Buildings, Ports, Steel, Cement, Automobile, Pharmaceutical, Food Processing, IT, Power Plants, Mines, Aluminum, Municipality, Hotel, Chemicals, FMCG , Tea</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 6737)</i> <i>Certified CMV Professional by EVO & AEEE</i> <i>Certified PMP by PMI</i></p>	<p>12. G. Baranitharan Sr. Engineer – EM Services</p> <p>Qualification: B.E. in Electrical Engineering</p> <p>Experience: .54 Years experience in energy audit and compressed air audits. Conducted 25 detailed energy audits and 120 compressed air audits</p> <p>Sectors: Automobile, MUDSM, Foundry & refractory, Buildings, Pharmaceuticals, IT , Hospital, FMCG, electronics,Engineering</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India EA11847</i></p> <p>13. Mr. Santanu Mondal Asst. Manager – EM Services Qualification: B. E in Electrical Engineering, PG Diploma in Transmission & distribution</p> <p>Experience: 5.5 Year experience in Energy Audits, conducted 60 Energy audits , out of which 25 are power plants & 15 Power quality audits, 1 year experience in Networks</p> <p>Sectors: Thermal Power Plants, Food Processing, Tobacco, Iron \$ steel, Textiles, Municipality, Buildings, Pharmaceuticals, IT, Hospital, FMCG, Ship Builders, Bank, Telecom, Mines,</p> <p>14 Mrs. Bindu V Thomas Dy. Manager, EM Services Qualification: B Tech in Electrical Engineering</p> <p>Experience: 5.5 Years experience in report writing and report quality check, developing templates for data collection & report writing, condition Monitoring</p> <p>Sectors: Cement, Building, Tyre, Refinery, Water &Waste water, Pharmaceuticals, Power plant, Engineering, Chlor Alkali, Data centre</p> <p>15 Manish Thakare Sr. Engineer – EM Services</p> <p>Qualification: B. E in Electrical Engineering</p> <p>Experience: : 3 Years experience in Energy audits and conducted about 22 comprehensive energy audits,15 power quality assignments in Industrial and Commercial complexes in India, other than 16 DSM Projects by BEE and 40 electrical safety audits in retail outlets</p>
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	<p><i>Accredited Energy Auditor AEA 053</i> <i>Certified CEM, AEE</i></p> <p>8. Mr. Raghavendra Rao. L Sr. Manager, EM Services Qualification: Diploma In Electrical Engineering</p> <p>Experience: 8 Years experience in condition monitoring, harmonic analysis, Power quality & Power audits etc. Specializing in harmonic analysis, design, installation and commissioning of harmonic filters. Conducted more than 300 power quality studies, 25 datacenter Power audits & 30 thermal imaging studies and in India and abroad.</p> <p>Sectors: Hotel, Textile, Buildings, Steel, Cement, Automobile, Pharmaceutical, Food Processing, IT, Power Plants, Hotel, Chemicals, FMCG, Naval ship, tobacco, Sugar, Ceramics, tyres, breweries, Dairy, foundry & forging, Glass, printing, plastics, Engineering</p> <p>9. Srijit Mukherjee Manager – EM Services</p> <p>Qualification: B.E in Mechanical Engineering. PG certification in energy management from IISWBM, Kolkata</p> <p>Experience: 8 Years experience in Energy audits and conducted more than 110 comprehensive assignments in Industrial and Commercial complexes in India and Abroad. 1.5 years experience in energy efficient designing & execution of HVAC System in Commercial Buildings</p> <p>Sectors: Hotel, Jute mill, Buildings, IT, Power plants, Food processing, Textiles, Tyre</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India EA8376</i></p>	<p>Sectors: Retail, Steel, Chemicals, Buildings, Gas Manufacturing, Chlor Alkali, Ceramics, Battery, Beverages, Hotels</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India EA15836</i></p>																					
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.	Not applicable																					
21	Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception	61																					
	<table border="0"> <tr> <td>1</td> <td>Bank</td> <td>5</td> </tr> <tr> <td>2</td> <td>Education</td> <td>2</td> </tr> <tr> <td>3</td> <td>Hospital</td> <td>3</td> </tr> </table>	1	Bank	5	2	Education	2	3	Hospital	3	<table border="0"> <tr> <td>31</td> <td>Copper</td> <td>2</td> </tr> <tr> <td>32</td> <td>Diamond</td> <td>2</td> </tr> <tr> <td>33</td> <td>Foundry</td> <td>1</td> </tr> <tr> <td>34</td> <td>Graphite</td> <td>1</td> </tr> </table>	31	Copper	2	32	Diamond	2	33	Foundry	1	34	Graphite	1
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	<p>4 Hotel 35</p> <p>5 Pharmaceuticals 22</p> <p>6 Medical products 6</p> <p>7 Office 39</p> <p>8 Residential 2</p> <p>9 Retail 4</p> <p>10 Other bulidings 6</p> <p>11 Township 17</p> <p>12 BFSI 0</p> <p>13 BPO 2</p> <p>14 DataCentres 4</p> <p>15 ITES 13</p> <p>16 Telecom 16</p> <p>17 Automotive 20</p> <p>18 Chemicals 11</p> <p>19 Chlor Alkali 4</p> <p>20 Detonators 1</p> <p>21 Fertilizers 2</p> <p>22 Insecticides 1</p> <p>23 Lubricants 1</p> <p>24 Paints 1</p> <p>25 Polyurethene foam 1</p> <p>26 Engineering 114</p> <p>27 Food_and_Bev 92</p> <p>28 Aluminium 1</p> <p>29 Carbon black 1</p> <p>30 Cement 32</p>	<p>35 Glass 4</p> <p>36 Iron & Steel 37</p> <p>37 Mining 3</p> <p>38 Othersmmm 2</p> <p>39 Refractory 3</p> <p>40 Paper 1</p> <p>41 Gypsum Board 6</p> <p>42 Rayon 1</p> <p>43 Biomass CPP 1</p> <p>44 CPP 9</p> <p>45 CPP- steel & Power 2</p> <p>46 Thermal PP 68</p> <p>47 Combined cycle PP 4</p> <p>48 Textile 36</p> <p>49 WWW 6</p> <p>50 Industrial gases 1</p> <p>51 PVC 1</p> <p>52 Rubber 2</p> <p>53 Sugar 1</p> <p>54 Tyre Chord 1</p> <p>55 ups 1</p> <p>56 Electrical_Uilities 1</p> <p>57 Highways 7</p> <p>58 Oil_and_Gas 7</p> <p>59 Ports_Shipyards 7</p> <p>60 Port 6</p> <p>61 Railways 11</p> <p>total 693</p>
22	Subject wise expertise	<p>Electrical demand side management.</p> <p>Heating Ventilation & Air Condition Systems (HVAC): Detail performance evaluation of HVAC components, benchmarking, identification of Energy Conservation opportunities, Tech economical evaluation of energy efficiency improvement projects</p> <p>Lighting: Detail performance evaluation of Lighting Systems, benchmarking, identification of Energy Conservation opportunities, Tech economical evaluation of energy efficiency improvement projects in lighting in commercial & industrial establishment</p> <p>Pumping Systems: Detail performance evaluation of fluid pumping systems, benchmarking, identification of Energy Conservation opportunities, Tech economical evaluation of energy efficiency improvement projects in pumping: for commercial & industrial establishment</p> <p>Boilers : Conduct heat Balance to identify Various losses, steam distribution & user Point study</p> <p>Efficiency evaluation of Furnaces, Kilns, Boilers and complete system study to identify energy conservation measures.</p> <p>Efficiency evaluation of Fans and Blowers, Pumps, Air Compressors and complete system study to identify energy conservation measures.</p> <p>Power Quality Analysis in electrical distribution system:</p>

		<p>for commercial & industrial establishment</p> <p>Technical & Financial feasibility reports preparation (bankable projects) to facilitate finance for the implementation of Energy Conservation Measures.</p> <p>Total No of Projects: 16 energy audits, 25 harmonic audits, 16 DPR for Municipal Corporation, 1 DPR for Agricultural Pumps, 1 SME Ceramic Cluster, 5 MSC audits</p>
(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)	1) Thermal Power Plant, 2) Co-gen Power Plant 3) Cement Plant, 6) Textile 9) Pharmaceuticals 10) FMCG & 11) Food Processing.10) Tyre
(c)	Energy audit electrical utility system (list sectors)	1) Thermal Power Plant, 2) Co-gen Power Plant 3) Cement Plant, 4) Textile 5) Pharmaceuticals 6) FMCG 7) Food Processing 8) Buildings (IT, Retail, & Banks) 9) Tyre
23	Instruments available	
	(a) Electrical (list the name of the instruments)	1 Krykard Power Load Manger, ALM -35 5 2 Hioki PW 3198 1 3 Cryonics EP – 1 Dranetz 1 4 Meco TRMS 3510PHW 4 5 Krykard Power Load Manger, ALM -32 1 6 Krykard Power Load Manger, ALM -10 6
	(b) Thermal (list the name of the instruments)	1. Ultrasonic flow meter -4 2. Anemometer (Testo, Prova, Lutron) -14 3. Infrared Thermometer (Metravi, test, Extev, Raytek, Fluke) 8 4. Temperature data loggers(4 / 8 Channel) Testo, Centre, Madgetech 15 5. Psling Psychrometers 6 6. RH logger (Testo, Equinox) 5 7. Flue Gas Analyzer Testo, Kanemay -3 8. Pressure meter (Testo, Comark) 8 9. Pressure Gauges(analog/ digital) 4 10. Tachometer (Lutron, Testo) 4 11. Lux Meter (Metravi, TES, Lutron, Testo)) 15 12. Infrared Thermal Imaging Camera 3 13. PH & TDS CD, Hanna, TDS) 10 14. IAQ Logger 2 15. Multiple parameter loggers HOBO 6

24 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	NA	
(ii)			
(iii)			

D	Remarks(if any)

I hereby state that information furnished above is true and correct to the best of my knowledge.

Place.....

Date:.....

Signature:

Name.....

Designation.....

For and on behalf of.....

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

For any clarification, please send your query at rthomson@beenet.in