


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

Serial Number: (AEA- 283)		As on: (09/05/2018)	
A.			
1	Name of accredited energy auditor	Laxmidhar Sutar	
2	Father's name	Late Dhaneswar Sutar	
3	Date of certification as Energy Manager	11.02.2010 as Energy Auditor	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	Not applicable	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA-1853	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	4993	
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 /	Private	

	NGO etc.	
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. Sridhar Shenoy. General Manager-ESS Schneider Electric India Pvt. Ltd. Energy Bureau 9th floor, Innovare BGRT, Whitefield Ashram Road Bangalore India Phone: +91 80 45540843 Mobile:9845482966 Email: Sridhar.shenoy@schneider-electric.com
12	Professional postal address with Pin Code of the accredited energy auditor	Schneider Electric India Pvt. Ltd. Technopolis Building, BP-4, 3 rd Floor Salt Lake City, Sector V, Kolkata – 700 091. Tel No.033-33646000. Fax No. 033-39488686.
13	E-mail address	laxmidhar.sutar@schneider-electric.com
14	Telephone numbers. with STD Code (R) (O) Mobile no:	(R) = 033-64511481. (O) = Tel No. 033-33646000, Mobile No: 9831556693.
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-50001: 2011 Certificate no: IND17.4757, valid from 15-02-2017 to 18-02-2020 2. OHSAS 18001:2007 Certificate no: OH-HK 10077-UK valid from 31-07-2017 to 30-07-2020 3.ISO 9001: 2015 Certificate no: 195538-UK, valid from 31—07-2017 to 30-07-2020 4.ISO 14001:2015

		Certificate no: 195539 -UK, valid from 31-07-2017 to 30-07-2020.
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	38: Corporate Office: Delhi Schneider Electric India Pvt. Ltd. 9 floor, DLF Building, 10, Tower C, DLF Cyber city, Phase II, Gurgaon, Haryana 122 002 U.P Singh, AGM Energy Management Services Phone: ++91-124-3940-400 ext. 439 Fax: ++91-124-4222-036 Mobile: + +91-98180-75006 Email: upendrapratap.singh@schneider-electric.com Site: www.schneider-electric.com
	Branch Office: Bangalore Schneider Electric India Pvt. Ltd. Energy Bureau 9th floor, Innovare BGRT, Whitefield Ashram Road Bangalore India Sridhar Shenoy. General Manager-ESS Phone: +91 80 45540843 Mobile:9845482966 Email : Sridhar.shenoy@schneider-electric.com Site: www.schneider-electric.com Branch Office: Bangalore Schneider Electric India Pvt. Ltd. Energy Management Services Mezzanine Floor, JP Tech Park, 3/1 Millers Bund Road Bangalore-560052 India	Branch Office: Kolkata Schneider Electric India Pvt. Ltd. Techno polis Building, BP-4 , 3 rd Floor Salt Lake City, Kolkata-700 091 Laxmidhar Sutar AGM -ESS Phone: +9133 33646000 ext. 6008 Fax: +9133 33640102 Mobile: +919831556693 Email: laxmidhar.sutar@schneider-electric.com Site: www.schneider-electric.com Branch Office: Mumbai Schneider Electric India Pvt. Ltd. Energy Management Services Marwah House Krishanlal Marwah Marg 2nd Floor Andheri (East), Mumbai, India. Mangesh Mayekar Deputy Manager

	<p>Abraham Varughese General Manager, Energy Management Services Phone: 080 71481487 Fax: 080 43333222 Mobile: +91 98454 71135 Email: abraham.varughese@schneider- electric.com Site: www.schneider-electric.com</p>	<p>Phone: +91 22 62280000 Toll Free: +18004250555 Fax: +91 22 62280001 Mobile: +9892068611 Email: mangesh.mayekar@schneider- electric.com</p>
C	Details of Associated Energy Experts	
19	Number of resource persons available	11
20	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm	<p style="text-align: center;">11</p> <p>1. Mr. Abraham Varughese General Manager, EM Services Qualification: B.Tech in Electrical Engineering, MBA, DIS, AMIE, MIIPE Experience: 26 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), (AEA-006)</i></p> <p>2. Mr. Upendra Pratap Singh, AGM, EM Services Qualification: B E in Mechanical engineering and M Tech in Energy Studies Experience: 18 years experience in Energy audit and clean development mechanism in various industries. Carried out at about 200 comprehensive assignments in across various industries in different countries in India and abroad. 10 years experience in Textiles 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 <i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 0232),(AEA-005)</i> <i>Certified CMV Professional by EVO & AEEE</i></p> <p>3. Mr. Laxmidhar Sutar AGM- ESS, Demand Operation Qualification: A M I E(I) in Electrical Engineering Experience: 17 Years experience in Detailed Energy</p>

		<p>audits, energy management, ECM Implementation and conducted about 190 comprehensive assignments in Industrial and Commercial complexes in India and Abroad. 46 Power Plant audits .7 years' experience in energy audit studies and ECM implementation in textile mills.</p> <p>Sectors: Thermal Power Plants, Textile, Chemicals, Refractory, Cement, Iron & Steel, Mining, Sponge Iron, Buildings, Food Processing, IT, Railways, Cables, Automobile, Carbon, FMCG, Engineering, Pulp and Paper, Tyre & Semiconductor.</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1853)</i></p> <p>4.Mr. Baskaran G Manager, EM Services Qualification: B. Tech in Mechanical Engineering; M Tech in Energy Technology Experience: 10 Years experience in Energy audits and conducted about 120 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).(AEA-079)</i> <i>Certified CMV Professional by EVO & AEEE</i></p> <p>5. Mr. Raghavendra Rao. L Sr. Manager, EM Services Qualification: Diploma In Electrical Engineering Experience: 11 Years experience in condition monitoring, harmonic analysis, Power quality & Power audits etc. Specializing in harmonic analysis, design, installation and commissioning of harmonic filters Conducted about 250 power quality studies, 25 datacenter Power audits & 30 thermal imaging studies and in India and abroad.</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</p> <p>6. Mr.Mangesh Mayekar Dy. Manager, EM Services Qualification: B.E in Electrical Engineering Experience: 9 Year experience in Energy audits carried out 70 energy audits & 25 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</p>
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Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1526), (AEA-004)

7.Mr. Mrinmoy Kayal , Manager, EM Services

Qualification: PG Diploma in Energy Management

Experience: 8 Year experience in Energy audits, conducted 55 energy audits out of which 33 are in power plants

Sectors: Automobile, Tea, Buildings, IT, Thermal Power Plants, Ordinance, Aluminium, Textile, Buildings

Certified Energy Manager by Bureau of Energy Efficiency (BEE) India (EM 2238)

8.Mr.G. Baranitharan Sr. Engineer – EM Services

Qualification: B.E. in Electrical Engineering

Experience: 9 Years experience in energy audit and compressed air audits. Conducted 20 detailed energy audits and 120 compressed air audits

Sectors: Automobile, MUDSM, Foundry & refractory, Buildings, Pharmaceuticals, IT, Hospital, FMCG, electronics, Engineering

Certified Energy Manager by Bureau of Energy Efficiency (BEE) India (EA 11847)

9.Mr. Gulshan Bhalla , Dy.Manager – EM Services

Qualification: B.E. in Electrical Engineering

Experience: 5 Years experience in energy audit and compressed air audits. Conducted 20 detailed energy audits and 25 compressed air audits

Sectors: Automobile, MUDSM, Foundry & refractory, Buildings, Pharmaceuticals, IT , Hospital, FMCG, electronics, Engineering

Certified Energy Manager by Bureau of Energy Efficiency (BEE) India (EA 11844)

10.Mr. Gaurav Soni , Dy.Manager – EM Services

Qualification: B.E. in Electrical Engineering

Experience: 6 Years experience in energy audit and compressed air audits. Conducted 20 detailed energy audits and 32 compressed air audits

Sectors: Automobile, MUDSM, Foundry & refractory, Buildings, Pharmaceuticals, IT, Hospital, FMCG, electronics, Engineering

Certified Energy Manager by Bureau of Energy Efficiency (BEE) India (EA 21396)

11. Mrs. Bindu V Thomas Manager, EM Services

Qualification: B Tech in **Electrical** Engineering

Experience: 10 Years experience in report writing and report quality check, developing templates for data collection & report writing, condition Monitoring

Sectors: Cement, Building, Tyre, Refinery, Water &Waste water, Pharmaceuticals, Power plant, Engineering, Chlor Alkali, Data centre

	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	<table border="0"> <tr><td>1. Auto Motive</td><td style="text-align: right;">43</td></tr> <tr><td>2 Machine Builders, (compressors. Turbines. DG)</td><td style="text-align: right;">33</td></tr> <tr><td>3 Green Buildings (Office, Residential, Municipality)</td><td style="text-align: right;">85</td></tr> <tr><td>4 Chemicals/ Chlor alkali</td><td style="text-align: right;">21</td></tr> <tr><td>5 Datacentre / IT</td><td style="text-align: right;">16</td></tr> <tr><td>6 EE/ EU/ Power Plant</td><td style="text-align: right;">62</td></tr> <tr><td>7 Food & Beverages & healthcare</td><td style="text-align: right;">95</td></tr> <tr><td>8 Hospital</td><td style="text-align: right;">2</td></tr> <tr><td>9 Hotel</td><td style="text-align: right;">25</td></tr> <tr><td>10 Marine (Port trust, Ship builders)</td><td></td></tr> <tr><td>11 Minerals & Metals</td><td style="text-align: right;">10</td></tr> <tr><td>12 Cement</td><td style="text-align: right;">25</td></tr> <tr><td>13 Iron & steel(Pig iron, Steel)</td><td style="text-align: right;">35</td></tr> <tr><td>14 Mines</td><td style="text-align: right;">10</td></tr> <tr><td>15 Pulp & paper (Gypsum Board, Paper)</td><td style="text-align: right;">6</td></tr> <tr><td>16 Oil & Gas</td><td style="text-align: right;">10</td></tr> <tr><td>17 Life sciences (Pharmaceuticals)</td><td></td></tr> <tr><td>18 Retail</td><td style="text-align: right;">5</td></tr> <tr><td>19 Water & Waste water</td><td style="text-align: right;">15</td></tr> <tr><td>20 Engineering</td><td style="text-align: right;">16</td></tr> <tr><td>21 Industrial gases</td><td style="text-align: right;">4</td></tr> <tr><td>22 Jute mill</td><td style="text-align: right;">4</td></tr> <tr><td>23 Optic Fibre</td><td style="text-align: right;">3</td></tr> <tr><td>24 Paint</td><td style="text-align: right;">2</td></tr> <tr><td>25 Plastics</td><td style="text-align: right;">2</td></tr> <tr><td>26 Rubber</td><td style="text-align: right;">2</td></tr> <tr><td>27 Safety Glass</td><td style="text-align: right;">4</td></tr> <tr><td>28 Sugar</td><td style="text-align: right;">1</td></tr> <tr><td>29 Textiles</td><td style="text-align: right;">36</td></tr> <tr><td>30 Thermal Power plant</td><td style="text-align: right;">28</td></tr> <tr><td>31 Diamonds</td><td style="text-align: right;">1</td></tr> <tr><td>32 Highways</td><td style="text-align: right;">1</td></tr> <tr><td>33 Foundry & refractory</td><td style="text-align: right;">5</td></tr> <tr><td>34 Lamps</td><td style="text-align: right;">1</td></tr> <tr><td>35 cables</td><td style="text-align: right;">3</td></tr> <tr><td>Total</td><td style="text-align: right;">623</td></tr> </table>	1. Auto Motive	43	2 Machine Builders, (compressors. Turbines. DG)	33	3 Green Buildings (Office, Residential, Municipality)	85	4 Chemicals/ Chlor alkali	21	5 Datacentre / IT	16	6 EE/ EU/ Power Plant	62	7 Food & Beverages & healthcare	95	8 Hospital	2	9 Hotel	25	10 Marine (Port trust, Ship builders)		11 Minerals & Metals	10	12 Cement	25	13 Iron & steel(Pig iron, Steel)	35	14 Mines	10	15 Pulp & paper (Gypsum Board, Paper)	6	16 Oil & Gas	10	17 Life sciences (Pharmaceuticals)		18 Retail	5	19 Water & Waste water	15	20 Engineering	16	21 Industrial gases	4	22 Jute mill	4	23 Optic Fibre	3	24 Paint	2	25 Plastics	2	26 Rubber	2	27 Safety Glass	4	28 Sugar	1	29 Textiles	36	30 Thermal Power plant	28	31 Diamonds	1	32 Highways	1	33 Foundry & refractory	5	34 Lamps	1	35 cables	3	Total	623
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22	Subject wise expertise	<ul style="list-style-type: none"> • Demand Management • Power Factor Correction and Harmonics • Pumping Systems • Lighting • Technical & Financial feasibility reports preparation (bankable projects) • Compressors • HVAC • Fans and Blowers • Boilers, Furnaces • Turbines • Renewable Energy • Process Optimization
(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	Iron & Steel, Thermal Power plant, Cement, Jute Mills, Textile, Chemicals, Refractory, Food Processing, Carbon, Pulp and Paper, Mining, Engineering, Tyre.
(b)	Energy audit thermal utility system (list sectors)	Thermal Power Plants, Iron & Steel, Textile, Chemicals, Refractory, Cement, Sponge Iron, Buildings, Food Processing, IT, Railways, Cables, Automobile, Carbon, FMCG, Jute Mills, Engineering, Pulp and Paper, Tyre.
(c)	Energy audit electrical utility system (list sectors)	Thermal Power Plants, Iron & Steel, Textile, Chemicals, Refractory, Cement, Sponge Iron, Buildings, Food Processing, IT, Railways, Cables, Automobile, Carbon, FMCG, Jute Mills, Engineering, Pulp and Paper , Tyre .
23	Instruments available	
	(a) Electrical (list the name of the instruments)	<ol style="list-style-type: none"> 1 Fluke -435 II Power Network Analyzers 2 Krykard Power Load Manger, ALM -35 3 Meco TRMS 3510PHW 4 Kusum Meco 2745 5 QNA Power Analyzer 6 Krykard Power Load Manger, ALM -32 7 HIOKI PW 3198

	(b) Thermal (list the name of the instruments)	<ol style="list-style-type: none"> 1. Ultrasonic flow meter , GE, Thermo electron 2. Anemometer (Testo, Prova, Lutron) 3. Infrared Thermometer (Metravi, test, Extev, Raytek, Fluke) 4. Temperature data loggers(4 / 8 Channel) Testo, Centre, Madgetech 5. Psling Psychrometers 6. RH logger (Testo, Equinox) 7. Flue Gas AnalyzerTesto, Kanemay) 8. Pressure meter (Testo, Comark 9. Pressure Gauges(analog/ digital) 10. Tachometer (Lutron, Testo) 11. Lux Meter (Metravi, TES, Lutron, Testo)) 12. Infrared Thermal Imaging Camera PH & TDS CD, Hanna, TDS) 13. IAQ Logger 14. Multiple parameter loggers HOBO , Extech 	
24	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	Renewable (Solar Energy training)	ISO 50001 training
(i)			
(ii)		Energy audit in Good Year, Japan, SeAH Steel Corporation, South Korea	Japan, South Korea
(iii)	Energy Audit in Ramnik Power & Alloys, Ballaghat	Ballaghat, M. P	2017

D	Remarks(if any)

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