


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

Serial Number (AEA - 0074)		As on:- 26 February, 2013	
<b>A.</b>			
1	Name of energy auditor	R. Vijayarengamani	
2	Father's name	L. Ramalingam	
3	Date of certification as Energy Manager ( or Energy Auditor, pl specify)	06.04.2005. 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" (In case of Certified Energy Auditor, please write CEA Registration No.)	EA-1079	
6	Certificate Registration Number of (i) Energy Manager  (ii) "Energy Performance Assessment for Equipment and Utility Systems"	0231	
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	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.	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)	<p>Dr. Satish Kumar Energy Efficiency Ambassador and Vice President - Energy Management Services</p> <p>Address: Schneider Electric India Pvt. Ltd. 9th Floor, DLF Building No.10, Tower C, DLF Cyber City, Phase II, Gurgaon -122002, Haryana</p> <p>Phone: ++91-124-3940-400 ext. 439 Fax: ++91-124-4222-036 Mobile: + +91-98180-75006 Email: satish.kumar@schneider-electric.com</p>
12	Professional postal address with Pin Code of the accredited energy auditor	<p>Schneider Electric India Pvt. Ltd. No.44P. Phase –II, East, Hosur Road, Electronic City. BANGALORE – 560 100 Tel No.080-39102730 / 31 / 32 / 33 / 34, Fax No. 080-39102735.</p>
13	E-mail address	<p><a href="mailto:vijayarengamani.ramalingam@schneider-electric.com">vijayarengamani.ramalingam@schneider-electric.com</a></p>
14	Telephone numbers . with STD Code (R) (O) Mobile no:	<p>(R) = 9566656574. (O) = Tel No.080-39102767 Mobile No : 9566656574</p>
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.)	<p>Yes.</p> <p>1: ISO Certificate: Certificate no: 195153-15-UK, valid from 22—08-08 to 30-07-2014</p> <p>2. OHSAS Certificate no: of-HK 10023-15, valid from 26-07-11 to 30-07-2011</p> <p>3.ISO 9001: 2008 Certificate no: 195152-18-UK, valid from 22—08-08 to 30-07-2014</p>

<p>18</p>	<p>No. of branch offices</p> <p>(List of complete addresses including heads of all branch offices with telephone, fax and email addresses)</p>	<p>38:</p> <p>Corporate Office: Delhi</p> <p>Schneider Electric India Pvt. Ltd. Energy Management Services 9 floor, DLF Building, 10, Tower C, DLF Cyber city, Phase II, Gurgaon, Haryana 122 002 Dr. Satish Kumar Energy Efficiency Ambassador and Vice President - Energy Management Services Phone: ++91-124-3940-400 ext. 439 Fax: ++91-124-4222-036 Mobile: + +91-98180-75006 Email: <a href="mailto:satish.kumar@schneider-electric.com">satish.kumar@schneider-electric.com</a> Site: <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p>
	<p>Branch Office: Bangalore</p> <p>Schneider Electric India Pvt. Ltd. Energy Management Services #44P,Electronic City East Phase, Hosur Road, Bangalore 560 100 Vijayarengamani R Associate General Manager -Energy Efficiency Audits &amp; Consulting Phone: +91 80 39102767 Fax: +91 80 39102735 Mobile: +91 9566656574 Email: <a href="mailto:vijayarengamani.ramalingam@schneider-electric.com">vijayarengamani.ramalingam@schneider-electric.com</a> Site: <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p> <p>Branch Office: Bangalore Schneider Electric India Pvt. Ltd. Energy Management Services 4th Floor, Electra, Wing 'A' Exora Business parks, Marathahalli, Sarjapur Outer Ring Road, Bangalore - 560 103 Abraham Varughese General Manager, Energy Management Services Phone: 080 43333333  Fax: 080 43332323   Mobile: +91 98454 71135 Email: <a href="mailto:abraham.varughese@schneider-electric.com">abraham.varughese@schneider-electric.com</a> Site: <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p>	<p>Branch Office: Kolkatta</p> <p>Schneider Electric India Pvt. Ltd. Energy Management Services Sugam Business Park ,4th &amp; 5th Floors ,Plot-J6, Block-GP,Sector-V, Salt Lake city,Kolkata-700 091 Laxmidhar Sutar Sr.Manager Phone: +913339404000 ext. 632 Fax: +913330248686 Mobile: +919831556693 Email: <a href="mailto:laxmidhar.sutar@schneider-electric.com">laxmidhar.sutar@schneider-electric.com</a> Site: <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p> <p>Branch Office: Mumbai</p> <p>Schneider Electric India Pvt. Ltd. Energy Management 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: <a href="mailto:mangesh.mayekar@schneider-electric.com">mangesh.mayekar@schneider-electric.com</a> Site: <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p>

C	Details of Associated Energy Experts	
19	Number of resource persons available	37
(l)	Number . of full-time energy auditors in position with work experience of all energy auditors associated with the firm	<p>37</p> <p>1. <b>Mr. Abraham Varughese General Manager, EM Services</b></p> <p><b>Qualification:</b> B.Tech in Electrical Engineering, MBA, DIS, AMIE, MIIPE</p> <p><b>Experience:</b> 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</p> <p><b>Sectors:</b> Textile, Sugar, Paper and Pulp, Steel, Pharmaceutical, Buildings, Automobile, Brewery, Food Processing, Thermal Power Plants, Chemical, Hotel, Hospital, Engineering</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 0079)</i></p> <p>2. <b>Mr. M Bhaskar General Manager, EM Services</b></p> <p><b>Qualification:</b> B. E in Mechanical Engineering</p> <p>Experience: 18 years Experience in Boilers and their related Systems, System Design, Application Engineering, Pumping Systems Evaluation, Air-conditioning for both industrial and hospitality industries and Refrigeration, Cogeneration.</p> <p>Carried out about 350 comprehensive assignments in across various industries in India and abroad</p> <p><b>Sectors:</b> Textiles, Cement, Thermal Power Plants, Buildings, Steel, Sponge Iron, Paper and Pulp, Chemical, Data Centers, Hotels, Hospitals, Aluminum, Automobile, Pharmaceutical, Refineries, Food Processing, water &amp; waste Water, Highways, Telecom</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 0086)</i></p> <p><i>Certified CMV Professional by EVO &amp; AEEE</i></p> <p>3. <b>Mr. Vijayarengamani AGM, EM Services</b></p>

**Qualification: B Tech in Production Technology.**

**Experience:** 16 years experience in Energy audit and 4 years experience in Cement industry. Carried out at about 120 comprehensive assignments in across various industries in different countries in India and abroad.

**Sectors :** Cement, Steel, Aluminum, Refinery, Port, Textile, Buildings, Paper and Pulp, Chemical, Rayons, Pharmaceutical, Thermal Power Plants, Tyre, Mines, Automobile, Brewery, Beverages, Engineering, Hotels

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1079)*

4. **Mr. Upendra Pratap Singh Sr. Manager, EM Services**

**Qualification: B E in Mechanical engineering and M Tech in Energy Studies**

**Experience:** 13 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

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 0232)*

*Certified CMV Professional by EVO & AEEE*

5. **Mr. Laxmidhar Sutar Sr. Manager, EM Services**

**Qualification: A M I E in Electrical Engineering**

**Experience:** 12 Years experience in Energy audits and conducted about 150 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

**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

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1853)*

**6. Mr. Baskaran G Manager, EM Services**

**Qualification: B. Tech in Mechanical Engineering; M Tech in Energy Technology**

**Experience:** 5 Years experience in Energy audits and conducted about 60 comprehensive assignments in Industrial and Commercial complexes in India and abroad

**Sectors:** Refinery, Cement, Aluminum, Thermal Power Plants, Buildings, Municipalities, Engineering, Pharmaceuticals, Port, Carbon, IT, Rice Mills, Automobile, Food Processing, Brewery, FMCG, Chlor Alkali, Tea

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 7490)*

*Certified CMV Professional by EVO & AEEE*

**7. Mr. Benet George Manager, EM Services**

**Qualification: AMIE , MTech in Energetics**

**Experience:** 4 years Industrial Experience and has conducted 50 comprehensive energy audits in India and abroad

**Sectors:**Hotel, Refinery, Textile, Buildings, Ports, Steel, Cement, Automobile, Pharmaceutical, Food Processing, IT, Power Plants, Mines, Aluminum, Municipality, Hotel, Chemicals, FMCG , Tea

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 6737)*

*Certified CMV Professional by EVO & AEEE*

**8. Mr. Raghavendra Rao. L Sr. Manager, EM Services**

**Qualification: Diploma In Electrical Engineering**

**Experience:** 6 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.

**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

**9. Srijit Mukherjee Manager – EM Services**

**Qualification:** B.E in Mechanical Engineering. **PG certification** in energy management from IISWBM, Kolkata

**Experience:** 4.9 Years experience in Energy audits and conducted about 100 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

**Sectors:** Hotel, Jute mill, Buildings, IT, Power plants, Food processing, Textiles, Tyre

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India EA8376*

**10. Ankush Sharma Sr. Engineer – EM Services**

**Qualification:** B.Tech in Electrical Engineering MBA in Energy Management.

**Experience:** 2 Years of Industrial experience in Operation & Maintenance in Automobile Industry. 1 Year of experience as a Consultant in Clean Development Mechanism (Under Kyoto Protocol) and REC (Renewable Energy Certificates). Conducted 23 energy audits, 2 Power quality audits and one thermal imaging

**Sectors:** Building, Pharmaceuticals, Power plant, Automobiles, FMCG, IT, Textiles, Engineering,

**11. Mr. Karthik. S.P Dy. Manager, EM Services**

**Qualification:** B E in Mechanical Engineering, ME in Thermal engineering,

**Experience:** 3 Years experience in Energy audits and conducted about 36 comprehensive assignments in Industrial and Commercial complexes in India and Abroad. One year experience in CFD Simulation

**Sectors:** Building, Pharmaceuticals, Power plant, Automobiles, Foundry & refractories, Fertilizers, Steel, Tyre, Cement

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 5407)*

*LEED Green Associate, US Green Building Council*

**12. Mr.Mangesh Mayekar Dy. Manager, EM Services**

**Qualification:** B.E in Electrical Engineering

**Experience:** 4 Year experience in Energy audits carried out 40 energy audits& 25 Power quality audits,6 year experience in industry, operation and maintenance of network, switch gear.

**Sectors:** Chlor Alkali, Refinery, Thermal Power Plants, Pharmaceuticals, Tyres, Port, Hotel, Indian Naval Ship, Beverages, Steel, Engineering, Automobile, Refinery, FMCG, Food Processing, Municipality, Railways

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA 1526)*

**13. Mr. Mrinmoy Kayal Dy. Manager, EM Services**

**Qualification: PG Diploma in Energy Management**

**Experience:** 3 Year experience in Energy audits, conducted 35 energy audits out of which 23 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)*

**14. Mr. Kumarasamy. R Dy. Manager, EM Services**

**Qualification: B E in Electrical Engineering**

**Experience:** 3 Year experience in Energy audits and conducted about 55 comprehensive assignments in Industrial and Commercial complexes in India and abroad

**Sectors:** Thermal Power Plants, Port, Hotel, Beverages, Engineering, Automobile, FMCG, Food Processing, Municipality,

*Certified MV Professional by EVO & AEEE*

*Affiliated Member ASHRAE Bangalore Chapter*

**15. Mr. Chandrashekar .M Dy. Manager, EM Services**

**Qualification: B E in Electronics Engineering**

**Experience:** 3 Years experience in Energy audits and conducted about 44 comprehensive assignments in Industrial and Commercial complexes in India and abroad

**Sectors:** Thermal Power Plants, Pharmaceuticals, Port, Hotel, Engineering, Automobile, Refinery, FMCG, Food Processing, Plastics

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA12156)*

**16. Mr. Jayaraj Dayanidhi Asst. Manager, EM Services**

**Qualification: B E in Mechanical Engineering . M.E in Energy**

**Experience:** 4 Years experience in Energy audits conducted 50 Comprehensive energy audits in Industrial and Commercial complexes in India and abroad

**Sectors:** Thermal Power Plants, Pharmaceuticals, Hotel, Beverages, Iron & Steel, Automobile, Refinery, FMCG, Municipality, Tea, Tyre, Buildings

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA11737)*

*LEED Green Associate, US Green Building Council*

**17. Mr. Biyas. B. Asst. manager – EM Services**

Qualification: **M Tech in Energy management. B. Tech** in Mechanical Engineering

Experience: 4 years experience in Energy Audits, conducted 50 Comprehensive energy audits in Industrial and Commercial complexes in India and abroad

**Sectors:** Buildings, Tyre, IT, Iron & Steel, Pharmaceuticals, Electronics, Textiles, Power plant, FMCG, foundry & Refractories,

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India EA12557*

**18. Ranjeet Kumar Engineer- EM Services**

Qualification: **B.E** in Mechanical Engineering

Experience: 2.8 year experience in Energy audits. conducted 30 comprehensive audits in Industrial and Commercial complexes

**Sectors:** Mine, Engineering, food processing, chemicals, Municipality, AgDSM, Power Plant, Plastics, Buildings, FMCG, tyre, Cement

*Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India EA14123)*

**19. Srinath Narasimman Asst Manager- EM Services**

Qualification: **B.E in Electrical& Electronics Engineering**

Experience 3 Year experience in Electrical distribution and design, 3 Year experience in Energy audits, conducted 27 Energy audits and 38 power quality audits

**Sectors:** Pharmaceuticals, Beverages, Engineering, Municipality, Buildings, Highways, Sugar, Hotel,

Aluminum, MSC Sites,

20. **G. Baranitharan Sr. Engineer – EM Services**

**Qualification:** B.E. in Electrical Engineering

**Experience:** 4 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

21. **Mr. Santanu Mondal Asst. Manager – EM Services**

**Qualification:** B. E in Electrical Engineering, PG Diploma in Transmission & distribution

**Experience:** 3 Year experience in Energy Audits, conducted 40 Energy audits , out of which 22 are power plants & 10 Power quality audits, 1 year experience in Networks

**Sectors:** Thermal Power Plants, Food Processing, Tobacco, Iron \$ steel, Textiles, Municipality, Buildings, Pharmaceuticals, IT, Hospital, FMCG, Ship Builders, Bank, Telecom, Mines,

22. **Sheetal Kamra Sr.Engineer- EM Services**

**Qualification:** B. Tech in Electrical

**Experience:** 3 Year experience in Energy audits , conducted 35 Energy audits and 15 Power quality audits & 4 Thermal Imaging studyin Industrial and Commercial complexes

**Sectors:** Building, Cement, Municipality, Ag DSM Telecom , Thermal Power plant, Automobiles, textiles, Highway, Engineering, FMCG, Chemicals

23. **Pramod Bokade Asst. Manager – EM Services**

**Qualification:** M.Tech (Energy Management), B.E (Mechanical Engineering)

**Experience:** 4.5 years of Industrial experience, with an energy audit experience of about 3 years

conducted 33 energy audits

**Sectors:** Printing Building, food processing, Hotel, FMCG, Telecom, Rayon

**23. Pradeep Kumar Singh Sr. Engineer- EM Services**

**Qualification:** B.E in Mechanical Engineering

**Experience:** 3.5 Year experience in Energy audits, conducted 55 comprehensive audits in Industrial and Commercial complexes in India & abroad

**Sectors:** Building, Cement, Municipality, Ag DSM, Telecom, Thermal Power plant, Automobiles, Textiles, Engineering, FMCG, chemicals

**24. Rahul Mahajan Sr. Engineer- EM Services**

**Qualification:** M. Tech in Energy management, B.E in Mechanical Engineering

**Experience:** 3 year experience in Energy audits. Conducted 47 comprehensive audits in Industrial and Commercial complexes

**Sectors:** Building, Cement, Municipality, Ag DSM, Telecom, Thermal Power plant, Automobiles, Textiles, Engineering, FMCG, chemicals

**25. Afshan Mahmood Basti Engineer – EM Services**

**Qualification:** B.E in Mechanical Engineering

**Experience:** 2.5 year experience in Energy audits, conducted 31 comprehensive energy audits & 4 Power quality audits in Industrial and Commercial complexes

**Sectors:** Municipality, Automobiles, water & waste water, Building, FMCG, Electronics, IT, Pig iron, Hospitality, Cement Thermal Power plant,

**26. Gideon Zadok Solomon, Engineer- EM Services**

**Qualification:** B. Tech in Energy Environmental Engineering

**Experience:** 2 year experience in Energy audits,

conducted 22 comprehensive energy audits & one thermal imaging study & 4 assessment studies in Industrial and Commercial complexes

**Sectors:** Municipality, Plastics, Hospitality, Cement Thermal Power plant, Pharmaceuticals, Foundry & refractory, MSC sites, IT

27. **Sudipta Paul, Engineer- EM Services**

Qualification: **B-Tech (CS), PG Diploma in Energy Management** from IISWBM, Kolkata

Experience: 1.5 year experience in energy audits, conducted 24 comprehensive audits in Industrial and Commercial complexes & Power plants

**Sectors:** Mine, Thermal Power plant, Iron & steel, Textiles, food processing, Textiles, Building, IT

28. **Ashwini Mahato Sr. Engineer -EM Services**

Qualification: **B.Tech** in Mechanical Engineering. **PGDM** in Energy Management

Experience: 1.5 year experience in Energy audits. Conducted 31 comprehensive audits in Industrial and Commercial complexes & Power plants

**Sectors:** Thermal Power plant, Iron & steel, Textiles, food processing, building, IT

29. **Rahul Kolhe Sr. Engineer– EM Services**

Qualification: **B.Tech** in Agriculture Engineering. **M Tech** in Energy Management

Experience: 1.8 years experience in Energy audits. Conducted 34 comprehensive energy audits in Industrial & commercial complexes

**Sectors:** Engineering, Building, Pharmaceuticals, Thermal Power plant,

30. **Sushil Nayak Asst. Manager – EM Services**

Qualification: **B.E** Electrical & Electronics

Experience: 5 years in Power system studies ; Consultant to transmission planning for utilities & Industries.8 Months experience in Power / power quality/ safety audit Conducted around 12 Power

audits, 3 Power quality audits and one safety audit

**Sectors:** Automobile, Building, Engineering, IT, Datacenter, MSC

31. **Priyank Bajpai, Sr. Engineer – EM Services**

**Qualification:** **B.E in Mechanical** Engineering. **PG certification** in energy management from NPC Chennai

**Experience:** 2.5 years in industry & buildings & 6 months in Energy audits. Conducted 8 energy audits in industrial & commercial complexes in India & abroad

**Sectors:** Cement, Fertilizer, Electronics, Building, Steel, Power Plant, Foundry

32 **C.Sambath Kumar Asst. Manager – EM Services**

**Qualification:** **M. Tech** in Energy Technology **B.E in Mechanical** Engineering.

**Experience:** 3 Years experience in Energy audits and conducted about 32 comprehensive assignments in Industrial and Commercial complexes in India .

**Sectors:** Cement, Building, Tyre, Refinery, Ceramic, water & waste water, Pharmaceuticals

33 **Mrs. Bindu V Thomas Dy. Manager, EM Services**

Qualification: **B Tech** in **Electrical** Engineering

Experience: 4 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

34 **. Ande. Anjaneyulu Sr. Engineer – EM Services**

Qualification: **B. Tech** in **Electrical Engineering**

Experience: : 3 Years experience in Energy audits and conducted about 15 comprehensive assignments in

		<p>Industrial and Commercial complexes in India</p> <p><b>Sectors:</b> Mines, Shipyard, Pharmaceuticals, Cement, Steel, tyre, Engineering, Township, Building</p> <p><b>35 Manish Thakare Sr. Engineer – EM Services</b></p> <p>Qualification: <b>B. E in Electrical Engineering</b></p> <p>Experience: : 3 Years experience in Energy audits and conducted about 7 comprehensive energy audits , 8 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> <p>Sectors: Retail, Steel, Chemicals, Buildings, Gas Manufacturing, Chlor Alkali, Ceramics</p> <p><b>36 Jayant Jain GET- EM Services</b></p> <p>Qualification: <b>M. Tech</b> in Energy management, <b>B.E</b> in Chemical Engineering</p> <p>Experience: 8 months experience in Energy audits. Conducted 22 comprehensive energy audits &amp; 2 Power quality audits in Industrial and Commercial complexes</p> <p>Sectors: Hotel, Buildings, Power Plant, Steel,</p> <p><b>37. Himanshu Sharma GET- EM Services</b></p> <p>Qualification: <b>M. Tech</b> in Energy management, <b>B.E</b> in Mechanical Engineering</p> <p>Experience: 6 months experience in Energy audits. Conducted 16 comprehensive audits in Industrial and Commercial complexes</p> <p>Sectors: Power Plants, Cement, Hotel, entertainment, Building, IT, MSC sites</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 <u>energy auditor</u> has conducted energy audits since inception	<ul style="list-style-type: none"> <li>• Cement</li> <li>• Iron and Steel</li> <li>• Pulp and paper</li> <li>• Automobile</li> <li>• Buildings, Hotels</li> <li>• Chemicals</li> <li>• Power Plant</li> <li>• Food &amp; Beverages</li> <li>• Port trust</li> <li>• Mines</li> <li>• Refinery</li> <li>• Pharmaceuticals</li> <li>• Engineering</li> <li>• Glass</li> <li>• Textiles</li> <li>• Refractory</li> <li>• Electronics</li> <li>• Aluminium</li> <li>• Breweries</li> <li>• Rayon</li> <li>• Tyre</li> <li>• Fertilizers</li> </ul>
22	Subject wise expertise	<ul style="list-style-type: none"> <li>• Furnaces, Kilns, Boilers and complete system study to identify energy conservation measures.</li> <li>• Fans and Blowers, Pumps, Air Compressors</li> <li>• Heating Ventilation &amp; Air Condition Systems (HVAC</li> <li>• Lighting</li> <li>• Pumping Systems</li> <li>• Cooling Tower</li> <li>• Study of process / process machineries to identify energy saving opportunities.</li> <li>• Study on electrical system and motors to identify the loading and losses.</li> <li>• Performance evaluation of above equipments and comparing with Bench marking.</li> <li>• Techno commercial evaluation of energy efficiency improvement projects.</li> <li>• Conducting manpower study and taking corrective actions to reduce the labour cost.</li> <li>• Planning for various development projects and major shutdowns of equipments using project management to ensure completion</li> </ul>



		<p>within time.</p> <ul style="list-style-type: none"> <li>• Energy Efficiency Training</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	Cement, Steel, Aluminum, Refinery, Textile, Paper and Pulp, Chemical, Rayon, Pharmaceutical, Tyre, Mines, Brewery, Beverages
(b)	Energy audit thermal utility system (list 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
(c)	Energy audit electrical utility system (list 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
23	Instruments available	
	(a) Electrical (list the name of the instruments)	<ol style="list-style-type: none"> <li>1 AR - 5 Power Network Analyzers</li> <li>2 Krykard Power Load Manger, ALM -35</li> <li>3 Meco TRMS 3510PHW</li> <li>4 Kusum Meco 2745</li> <li>5 QNA Power Analyzer</li> <li>6 Krykard Power Load Manger, ALM -32</li> <li>7 Dranetz _ EP-01</li> <li>8 HIOKI PW 3198</li> </ol>
	(b) Thermal (list the name of the instruments)	<ol style="list-style-type: none"> <li>1. Ultrasonic flow meter , GE, Shenitech, Thermo electron</li> <li>2. Anemometer (Testo, Prova, Lutron)</li> <li>3. Infrared Thermometer (Metravi, test, Extev, Raytek, Fluke)</li> <li>4. Temperature data loggers(4 / 8 Channel) Testo, Centre, Madgetech</li> <li>5. Psling Psychrometers</li> <li>6. RH logger (Testo, Equinox)</li> <li>7. Flue Gas AnalyzerTesto, Kanemay</li> <li>8. Pressure meter (Testo, COmark)</li> <li>9. Pressure Gauges(analog/ digital)</li> <li>10. Tachometer (Lutron, Testo)</li> <li>11. Lux Meter (Metravi, TES, Lutron, Testo))</li> </ol>

		12. Infrared Thermal Imaging Camera 13. PH & TDS CD, Hanna, TDS) 14. IAQ Logger 15. 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		
(i)	Energy Audit in – China (for Industries)	China	Jun - 2010
(ii)	Energy Audit in Airtel - Bangalore	Bangalore	Jun - 2010
(iii)	Energy Audit in Ports, Goa (for BEE)	Goa	May - 2010
(iv)	Energy Audit for Industries, Goa (for BEE)	Goa	May – 2010
(v)	Energy Efficiency Training for EPS Riyadh	Bangalore	Feb 2011
(vi)	Energy Audit in Century Rayon - Mumbai	Mumbai	June 2011
(vii)	Energy Audit in Essar Refinery - Jamnagar	Jamnagar	Oct - 2009
(viii)	Energy Audit in Mundra Port – Mundra (Gujarat)	Gujarat	Sept 2009

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

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