


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

Serial Number (AEA- 0175)		As on- (26/11/2013)	
A.			
1	Name of accredited energy auditor	I.THANUMOORTHY	
2	Father's name	N.Iyyappan Pillai	
3	Date of certification as Energy Manager	6th April 2005	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	May 2004	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA 0035	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	358	
7	Date of issue of accreditation certificate	(16-01-2015)	
			
B. Information in respect of trade name or firms' name			
8	Trade name / firms name under which energy audit is proposed to be conducted	Enzen Global Solutions Pvt.ltd	
9	Date of accreditation as accredited energy auditor	(9-10-2014) ; AEA - 0175	
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)	I. Thanumoorthi, Head - Energy Efficiency & BEE Accredited Energy Auditor Enzen Global Solutions Pvt. Ltd. #90, Madiwala, Hosur Road Bangalore – 560 068. Tel: +91-80-67123002 Mobile: +91-9663380445 thanumoorthi.i@enzen.com
12	Professional postal address with Pin Code of the accredited energy auditor	I. Thanumoorthi, 301, No-15, Arien Edifice, N R Colony, Murugesh palaya, HAL, Bangalore -560 017. Tel: +91-80-25279922 Mobile: +91-9663380445
13	E-mail address	thanumoorthi.i@enzen.com ithanu@yahoo.com
14	Telephone numbers. with STD Code (R) (O) Mobile no:	(R) 91-80-25279922 (O) 91-80-67123002 +91 9663380445
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	2006
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.)	Enzen has the following certification: 1) ISO 9001:2008 2) OHSAS 18001:2007 3) ISO 14001:2004 4) ISO 27001:2005
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Corporate Office – Bangalore No. 90, Hosur Road, Madiwala, Bangalore – 560068 Karnataka Regional Office – Noida 2415, Fourth Floor, Tower-A TheCorrenthum, A-41, Sector-62 Near Fortis Hospital Noida – 201301. Uttar Pradesh

		<p>Regional Office – Bhubaneswar M/s Enzen Global Solutions Pvt Ltd, Plot No-364, 3rd Floor, The Kalamandir Royale Building, In fornt of IDCO Towers, Rupali Square, Bhubaneswar-751 007</p> <p>Regional Office – Chennai M/s. Enzen Technologies Private Limite Module G3, Ground Floor, Elnet Software City, Rajiv Gandhi Salai, Taramani, Chennai-600113</p> <p>Regional Office – Kerala T.C. 14/852.1, Medical College P.O Dalavakunnu, Medical College.</p>
C	Details of Associated Energy Experts	
19	Number of resource persons available	<p>1) Dr. Uma Rajarathnam, Head, Clean Energy & Environment Practice Email: uma.r@enzen.com Phone: +91 98803 45888</p> <p>2) I Thanumoorthi, Practice Manager – Energy Efficiency Email: thanumoorthi.i@enzen.com Phone: +91 9663380445</p>
20	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm	<p>1) <u>I Thanumoorthi</u> Position in Enzen: Practice Manager – Energy efficiency & BEE Accredited Energy auditor Accredited Auditor No: AEA 0175 Energy Audit Certificate No: EA 0035 Educational qualification: BE (Mechanical), M E (Energy) Work Experience: 19 years Sectors covered: Thermal Power Plants, Iron & Steel, Pulp & Paper, Refinery & Petrochemical, Cement, Chemical & Pharmaceuticals, Food processing, Automobile, Heavy engineering, Glass & Ceramic, Fertilizer, Mining, Water utilities and Municipalities Telecommunication and Data Centers, Buildings & Commercial complexes, Airports</p>

2) Hara Prasad Sahu

Position in Enzen: Manager Energy Efficiency

Energy Audit certificate No: EA 1335

Educational qualification: M. Tech (Energy Management)

Work Experience: 15 years overall experience of which 0.5 years in Enzen.

Sectors covered: Retail sector, Hotels, Commercial Buildings, Engineering, Telecom, Thermal Power Plant, Nuclear Power Plant, Chemical & Fertilizer, Co-generation Power Plant, Gas Power Plant, Mining, Municipal Corporation, Textile

3) Sagar Kumar Samal

Position in Enzen: Associate consultant – Energy Efficiency

Energy Auditor

Educational qualification:

BE (Electrical), M.Tech (Energy management)

Work Experience: 8 years

Sectors covered: Municipal pumping, Agricultural pumping, Aluminum, Zinc, Sugar, Automobile, Pharmaceutical, Food processing, Buildings & Commercial complexes.

4) Vimal Kumar Dave

Position in Enzen: Associate consultant – Energy Efficiency

Energy Auditor (EA 17328)

Educational qualification:

BE (Electrical)

Work Experience: 7 years

Sectors covered: Municipal pumping, Agricultural pumping, Aluminum, Zinc, Sugar, Automobile, Buildings & Commercial complexes.

5) V Shrikant

Position in Enzen: Advisor Power sector & Energy Efficiency

Educational qualification:

B.E (Mechanical)

Work Experience: 40 years in Power sector.

Sectors covered: Power Generation, transmission & distribution, Electrical system.

6) Alfred Manohar

Position in Enzen: Head- Power automation

Educational qualification: BE (Electrical & Electronics), M. Tech – Electrical Power Systems

Work Experience: 28 years

Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure

7) Narayanamoorthy Kalyanasundaram

Position in Enzen: Principal Consultant

Educational qualification: B.E (Electrical and Electronics Engineering) M.E (Power Systems Engineering)

Work Experience: 23 years

Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure

8) Chandra Sekhar Das

Position in Enzen: Associate Consultant

Educational qualification: B.E (Electrical)

Work Experience: 11 years

Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure

9) Subhash P

Position in Enzen: Senior Manager

Educational qualification: B.E (Electrical), MBA

Work Experience: 11 years

Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure

10) Pradeep Kumar D V

Position in Enzen: Associate Consultant

Educational qualification: B.E (Mechanical), M.Tech (Renewable energy Engg & management)

Work Experience: 4.5 years

		<p>Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure, Buildings</p> <p>11) <u>Sumit Sarkar</u> Position in Enzen: Electrical Engineer Educational qualification: B.E (Electrical & Electronics) Work Experience: 2 years Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure</p> <p>12) <u>Madhavi Latha R</u> Position in Enzen: Associate Consultant Educational qualification: B.E (Chemical Engg) Work Experience: 7 years Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure, Cement, Railways</p> <p>13) <u>Swetha K</u> Position in Enzen: Electrical Engineer Educational qualification: B.E (Electrical Engg) Work Experience: 2 years Sectors covered: Power Generation, Transmission, Distribution automation & Electrical Infrastructure</p>
	<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>	<p>1) <u>V Ramachandran</u> Position in Conergy Energies Private Limited, Bangalore: Energy Auditor Energy Audit Certificate No: EA 0807 Educational qualification: B.Tech (Chemical), M Tech (Energy) Work Experience: 15 years Sectors covered: Thermal power plants, Cement, Textile, Chemical & Pharmaceuticals, Fertilizer, Buildings & commercial complexes.</p> <p>2) <u>Prof. K Narayanan</u> Position in Kongu Engineering college Perundurai, Tamil nadu, : Energy Auditor Energy Audit Certificate No: EA3428 Educational qualification: B.E (Electrical</p>

		<p>Engg), M Tech (Energetics) Work Experience: 41 years Sectors covered: Textile & Engineering Industries, Manufacturing plants, Iron & steel</p> <p>3) Dr. N Senthil Nathan Position in Kongu Engineering college Perundurai, Tamil nadu: Professor Energy Audit Certificate No: EA3292 Educational qualification: B.E (Electrical Engineering), M.E (Power Electronics & Drives) Work Experience: 12 years Sectors covered: Textile and spinning mills, Engineering Industries, Manufacturing plants</p>
21	Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception	<ul style="list-style-type: none"> • Thermal power plants • Electrical Distribution • Iron & Steel • Pulp & Paper • Refinery & Petrochemicals • Cement • Chemical & Pharmaceuticals • Food processing • Automobile • Heavy engineering • Glass & Ceramics • Fertilizer • Aluminum & Copper • Airports & Railways • Buildings & Commercial complexes • Water utilities and Municipalities
22	Subject wise expertise	All electrical and thermal utilities
(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	<ul style="list-style-type: none"> • Cement kilns and all cement processes • Glass melting furnace and annealing Lehrs and glass plant processes • Power plant boilers & Turbines and power plant processes • Paper Machines and paper plant processes • Blast furnace & Basic oxygen furnace and all steel plant processes • Waste water aeration section • Datacenters ad Telecom exchanges

(b)	Energy audit thermal utility system (list sectors)	<ul style="list-style-type: none"> • Iron & Steel • Pulp & Paper • Water utilities and Municipalities • Power plants • Food processing
(c)	Energy audit electrical utility system (list sectors)	<ul style="list-style-type: none"> • Iron & Steel • Pulp & Paper • Water utilities and Municipalities • Telecommunication and Data Centers • Buildings & Commercial complexes • Airports • Power plant • Cement • Chemical & Pharmaceuticals • Food processing • Automobile • Heavy engineering • Glass & Ceramic • Fertilizer
23	Instruments available	
	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> • Kry Card 3-Phase Power Analyzer • Kry Card 3-Phase Power Logger Cum Harmonic Analyser • Fluke 41 B • Single Phase Power Analysers • Luxmeter
	(b) Thermal (list the name of the instruments)	<ul style="list-style-type: none"> • Pitot Tube And Micro Manometer • Flue Gas Analyzer (O₂, CO₂, CO) • Ultrasonic Flow Meter • Digital Temperature Indicator with Temperature Probes (Low To High Range) • Temperature and Humidity Logger (A/C purpose) • Infrared Thermometer • Anemometer
24 (i)	Details of training programme / seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	<ul style="list-style-type: none"> • Workshop conducted in all industries at the end of energy audit (more than 50 from 2003 to 2011) • Training program and session conducted for BEE exam writing professionals

		covering Book-2, 3 & 4	
(ii)			
(iii)			

D	Remarks(if any)

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