


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

Serial Number (AEA- 0042)		As on :- 26 February, 2013	
A.			
1	Name of accredited energy auditor	N THANGARAJAN	
2	Father's name	K NAGARAJAN	
3	Date of certification as Energy Manager	2006	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"		
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA3119	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"		
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	POWER SECTOR	
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)	Boben Anto, Executive Director - Plant Services, A-29, SECTOR 16, NOIDA – 201301, UTTAR PRADESH Mob: 09717298313, Fax: 0120-4625100 Email: b.anto@steag.in
12	Professional postal address with Pin Code of the accredited energy auditor	STEAG ENERGY SERVICES (I) PVT LIMITED, Unit B, 1st floor, Brigade plaza, Anand rao circle, Bangalore – 560009
13	E-mail address	n.thangarajan@steag.in
14	Telephone numbers . with STD Code (R) (O) Mobile no:	Mobile : 9243327797
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	2006-07
16	Year of commencement of energy audit of the firm	2007
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	5 Nos.
C	Details of Associated Energy Experts	
19	Number of resource persons available	15 nos
20	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm	6 nos 1. Mr. A.K.S. Raghava – Incharge training Master of Technology (Mechanical) from Regional Engineering College, Durgapur. Graduate in Mechanical Engg. from Institution of Engineers (India), Kolkata. Having experience in the field of Energy & Power sector more than 40 years. Have done the optimization of the energy parameters,

		<p>conducting energy audit, conducting the simulator training for experienced as well as fresh graduate. Involved in comprehensive energy audit of 210 MW Bandel Thermal power station, Unit V, 210 MW Kolaghat thermal power station, 210 MW Bokaro B thermal power station, 210 MW Nasik thermal power station.</p> <p>Conducted the performance guarantee test at 110 MW thermal power station at Bhatinda as per ANSI code.</p> <p>2. Mr. Santanu Choudhary – GM, Renovation & Modernization</p> <p>Chartered Engineer (Graduation in Mechanical Engg.) from Institution of Engineers (India). Diploma in Mechanical Engg. from Birla Institute of Technology, Govt. of West Bengal. Having experience in the field of Power sector more than 20 years. Started carrier with West Bengal State Electricity Board, has initiated Energy audit for thermal power plants. Has undergone 7 weeks training in Energy Efficiency and Energy Conservation organized by Japan Japan International Cooperation Agency (JICA) under the Ministry of Economy, Trade and Industry and the Energy Conservation Centre, Japan (ECCJ). Involved in comprehensive energy audit of 210 MW Bokaro B thermal power station, 210 MW Nasik thermal power station and Kolaghat Thermal power station, etc.,</p> <p>3. Mr. M.K. Gupta – GM Operation & Maintenance</p> <p>B.E. (Electrical & Electronics) from REC, Tiruchirapalli. Having experience in the field of operation & maintenance more than 20 years. Have done the optimization of the energy parameters, conducting energy audit in the combined cycle power plant. Responsible for operation, Trouble-shooting and Maintenance of combined Cycle Power Plant which includes</p>
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- 20.2 MW Frame-V Gas Turbine, model: PG-5371 with modern microprocessor based MARK IV+ speedtronic control system, make: General Electric.
- Heat Recovery Steam Generator, capacity: 50 TPH at 40 Kg/cm² & 405 deg. C, make: Thermax-Babcock and Wilcox Ltd.
- 11.1 MW Steam Turbine, 11 stage straight condensing type with hydraulic governing system, make: SKODA.

4. Mr. Rakesh Mishra – GM, Business Development

Mechanical engineering with post graduation in business management, over 15 years of experience and associated with the Project development of several thermal power projects in India. Rich experience in project management and coordination. Involved in investment issues for new as well as old power stations. Also involved in assessment of the remnant life of old power plants and cost benefit analysis for enhancing life of the power plants.

5. Mr. N Thangarajan –DGM, Electrical

Masters in Energy Engineering from Institute for Energy Studies, Anna University, Chennai. BE in Electrical & Electronics from Bharathiyar University, Coimbatore. Having more than 8 years experience in Energy auditing and Electrical system Engineering. Have involved Energy Audit implementation through ESCO mode in Batra Hospital, ITC PSPD, ITC Sonar Bangla, etc., Have done comprehensive energy audit for more than 150 industries including Power plant, Engineering, Process industries, Building, Hotels, etc.,

6. Mr. Rakesh Kumar Mishra – Assistant Operation Manager, Hazira plant

Bachelor of Science & Engineering (Electrical)

		from BCE Bhagalpur, Bhagalpur University. Post Graduate Diploma in Thermal Power Plant Engineering from N.P.T.I Badarpur, New Delhi. Having more than 10 years experience in operation & maintenance in India and abroad.
	II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.	5 nos
21	Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception	Power sector
22	Subject wise expertise	
(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	Power sector
(b)	Energy audit thermal utility system (list sectors)	<ol style="list-style-type: none"> 1. Power sector (Boiler, Fans, Heaters, Pumps), 2. Zinc industry (Waste heat recovery Boiler, fans, Furnace, Heat exchangers, Cooling tower) 3. Paper mills (Cogen plant (Boiler, Fans, Pumping system, Heaters), Heat exchangers. 4. Engg industry (thermic fluid system, furnace). 5. Hotels / Buildings (Gas fired boilers, oil fired boilers, heat exchangers, heat recovery wheel / heat pipe) 6. Dairy units (Boilers, heat exchangers)
(c)	Energy audit electrical utility system (list sectors)	<ol style="list-style-type: none"> 1. Power sector (Motors, Transformers, Capacitors, Illumination system, Cabling)

		<p>system, Acs)</p> <p>2. Zinc industry (Transformers, Motors, Capacitors, Illumination system, Cabling system, Electrolytic process)</p> <p>3. Paper mills (Motors, Transformers, Capacitors, Illumination system, Cabling system, TG)</p> <p>4. Engg industry (Motors, Transformers, Capacitors, Illumination system, Cabling system).</p> <p>5. Hotels (Illumination system, HVAC)</p> <p>6. Dairy units Motors, Transformers, Capacitors, Illumination system, Cabling system).</p>
23	Instruments available	
	(a) Electrical (list the name of the instruments)	<p>1. Clamp type Power analyzer</p> <p>2. Power precision type analyzer</p> <p>3. Lux meter</p> <p>4. Tachometer</p> <p>5. Multimeter</p> <p>6. Ultrasonic flow meter</p>
	(b) Thermal (list the name of the instruments)	<p>1. Flue gas analyzer</p> <p>2. Anemometer</p> <p>3. Thermometer</p> <p>4. RTD</p>
24	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	<p>1. Seminar on coal blending</p> <p>2. Seminar on Green building</p>
(i)		
(ii)		
(iii)		

D	Remarks(if any)

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