


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

| Serial Number (AEA- 0154) | | As on 25/06/2014 | |
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| A. | | | |
| 1 | Name of accredited energy auditor | AMITABH SRIVASTAVA |  <p style="text-align: center;">Photograph of the energy auditor</p> |
| 2 | Father's name | ASHOK KUMAR SRIVASTAVA | |
| 3 | Date of certification as Energy Manager | 26-02-2009 | |
| 4 | Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems" | 13-09-2006 | |
| 5 | Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | EA-5483 | |
| 6 | Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | EA-5483 | |
| 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 | TUV India Pvt. Ltd. | |
| 9 | Date of accreditation as accredited | (to be filled by BEE) | |

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| | energy auditor | |
| 10 | Type of firm/ private/ Government / NGO etc. | Private Limited |
| 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. Manoj Kumar Borekar Product Head –Energy & Carbon Services Sustainability Division TUV India Pvt. Ltd. Member of TUV NORD Group TÜV INDIA House Survey No. 42, 3/1 & 3/2, Sus , Tal: Mulshi, Dist Pune PIN Code: 411 021 Tel : +91 (20) 67900058 Mobile: +91 9960316444 Email : mborekar@tuv-nord.com |
| 12 | Professional postal address with Pin Code of the accredited energy auditor | TUV India Pvt Ltd. Ground Floor,B-3, Sector 7, Noida, District Gautam Buddha Nagar, Uttar Pradesh -201301 |
| 13 | E-mail address | amitabh.energy.tuvnord@gmail.com lovely.srivastava.krishna@gmail.com amsrivastava@tuv-nord.com |
| 14 | Telephone numbers . with STD Code (R) (O) Mobile no: | +91 9662946024 +91 9662710416 |
| 15 | Year of establishment of the trade name / firms' name for undertaking the energy audit | TUV INDIA PVT LTD -1989 (subsidiary of TUV NORD CERT GMBH – 1869) |
| 16 | Year of commencement of energy audit of the firm | 2005 |
| 17 | Whether any certificate to support the excellence in the system has been obtained (ISO etc.) | Certificates related to Organization <ul style="list-style-type: none"> ✓ ISO 9001-2008 Certified by GL Systems Certification ✓ Registered with MEDA, GEDA, PCRA, KEMC ✓ TUV India is authorised License provider for AA1000 AS (Assurance standard for |

CSR/Sustainable development projects
http://www.accountability.org/standards/aa1000as/aa1_000as-licensed-providers.html

- ✓ TUV has achieved accreditation as DOE for validation and verification of UNFCCC (United Nations Framework Convention on Climate Change Sectoral Scopes 1 – 15. (please refer to <http://cdm.unfccc.int/DOE/list>
- ✓ Accreditation Certificate from QCI/NABCB for Quality Management System Certification.
- ✓ Accreditation Certificate from QCI/NABCB for Environmental Management System Certification.
- ✓ Accreditation Certificate from QCI/NABCB for Food Safety Management System Certification.
- ✓ Accreditation Certificate from APEDA, Ministry of Commerce and Industry, Govt. Of India for recognition of HACCP Certification.
- ✓ DAkkS accredited for Carbon Footprint Verification according to ISO 14064
- ✓ DAkkS accredited for Energy Management System Certification according to ISO 50001
- ✓ Type A Inspection Body As per ISO/IEC 17020:1998 by QCI-NABCB
- ✓ Authorized by Indian Boiler Regulations for inspection Within India and all over the world.
- ✓ Recognized Inspector under SMPV(U) rules,1981 by The Chief Control of Explosive, Department of Explosive ,Nagpur (CCOE)
- ✓ Recognized as Competent persons under Petroleum Rules, 2002 by Department of Explosives – Govt. of India.(PESO)
- ✓ Empanelled at M/s. Oil and Natural Gas Corporation Limited (ONGC) as Third Party Inspection Agency
- ✓ Empanelled at M/s. Indian Oil Corporation Limited(IOCL) as Third Party Inspection Agency
- ✓ TUV Nord-Notified Body for European Union-Product Certification (CE Mark) & Pressure Equip. Directives(PED)
- ✓ Authorized inspectors for ASME By National Board For Boilers & Pressure vessels Inspectors, Columbus, Ohio, US
- ✓ Authorized Inspection agency as per Malaysia Department of Occupational Safety and Health(DOSH)
- ✓ Authorization to conduct fabrication survey of

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| | | pressure system for use in Singapore by Ministry Of Manpower(MOM)-Singapore) |
| 18 | No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses) | 18 (attached list) |
| C | Details of Associated Energy Experts | |
| 19 | Number of resource persons available | 14 |
| 20 | I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm | <p>12 nos Energy Auditors Full Time. Details as below.</p> <p>Mr. Manojkumar Borekar M.Tech. (Mechanical Engineering) BEE Accredited Energy Auditor Product Head –Sustainability –TUV India Pvt Ltd PAT M & V Audit, water/carbon audit, energy assessment (Thermal & Electrical), ISO 50001/ISO 14064 audit, training, technical Review, EMS, EnMS Audit, solar power plant inspection, environmental audit, legal audit etc.Working for CDM, VCS, CDP, GS, GHG Audits.</p> <p>Experience: 20 years</p> <p>Mr. Amitabh Srivastava Incharge – Energy & Water Services – Pan India B.Sc.(Physics & Maths) B.Tech Chemical Engineering), M.Tech (Energy Management), BEE Certified Energy Auditor. National Scholarship from Ministry of New & Renewable Energy, Govt. of India Since 2006 , working with ERDA, TERI, Devki Energy, AMTL, DESL, Johnson Controls, MITCON & presently working as In charge- Energy & Water Services with M/s TUV India Pvt. Ltd., Conducted more than 300 energy audits in India. The following plants are Tata Chemicals Ltd, Mithapur, Adani Thermal Power Plant, Mundra, United Phosphorus Ltd., HAL, ONGC, GAIL, NTPC, Reliance Rosa Thermal Power Plant, Raj West Thermal Power Plant-JSW group, Manglore Refinery & Petrochemicals Ltd (ONGC Refinery)with PCRA, Gujarat State Fertilizers Corp., Gujarat Narmada Fertilizers Corp,</p> |

Gujarat Alkalies & Chemical Ltd, Sunpharma, Nirma, Izzatnagar Raliway Workshop, Tarapur Atomic Power Station & Madras Atomic Power Station - NPCIL), Koyna Hydro Power Station, Gujarat Heavy Chemicals Ltd, SRF Ltd, World Bank - GEF Ankleshwar Chemical Cluster, MEEP (Municipal Energy Efficiency Program), ESCORTS Building audit, Torrent Power, GSEG Combined Cycle Power Plant, Jindal Steel & Power Ltd, Delhi Electricity Regulatory Commission (DERC)-Discom sector, Birla Textiles Ltd, PAT Advisory for Vardhman Textiles, PAT M&V audit at Reliance Sasan , water Audit of Aditya Birla plants (Century Rayon , Hindalco, Renusagar) etc.

Mandatory Energy Audits and Water Audits as per Central Ground Water Authority

Experience: 17 years

Sectors: Thermal Power Plants, Cement, Iron & Steel. Fertilizer, Petrochemicals, Chemicals, Engineering, Buildings, Textiles, Discom, Pharmaceuticals, Chlor Alkali, Pulp & paper etc

Mr. Vivek Nigam

B.Tech (Electrical & Electronics Engineering)

BEE Certified Energy Auditor

Energy Audit in Textile, Power Plant, Petrochemical, Refinery, Iron & Steel, Fertilizer, Railway & DISCOM Resource Analysis, Feasibility Study and DPR for the establishment of the Independent / Captive / Co-generation Biomass Power Plant

Experience: 11 years

Mr. Krishna Selvaraj

B.Tech (Engineering)

BEE Certified Energy Auditor

Working as a Sr. Assessor (Energy and Water services) with TUV, worked as an electrical engineer in Saint Gobain Glass India Pvt Ltd, JK Tyres, CII.

Experience: 10 years

Mr. Akash Gore

Senior Assessor – Energy, Water, Sustainability Services

B.Tech (Electrical Engineering)

Experience: 6 years in Energy Audit & ESCO projects

Mr. Satish Sahu

Senior Assessor – Energy, Water, Sustainability Services
B.Tech (Electrical Engineering)
BEE Certified Energy Manager
Experience: 4 years in Energy Audit & ESCO projects

Mr. Abhijit Mohan Joshi
Senior Assessor – Energy, Water, Sustainability Services
B.Tech (Electrical Engineering)
BEE Certified Energy Manager
Experience: 6 years in Energy Audit

Mr. Sanket Gadge
Senior Assessor – Energy, Water, Sustainability Services
B.Tech (Mechanical Engineering)
BEE Certified Energy Manager
Experience: 5 years in Energy Audit & ESCO projects

Mr. Noorandevarmath Puttaraj
Senior Assessor – Energy, Water, Sustainability Services
B.Tech (Mechanical Engineering)
Experience: 6 years in Energy Audit & Steam System audit

Mr. Syed Ahamed Mohinddin
Assessor –Energy, Water, Sustainability Services
B.Tech (Mechanical Engineering) & PG in Energy Management.
BEE Certified Energy Manager
Experience: 3 years in Energy Audit & ESCO projects

Mr. Kabilan
Senior Assessor – Energy, Water, Sustainability Services
B.E & M.E. (Electrical and Electronics Engineering.)
Experience: 9 years in Energy Audit & Power Quality Audit
Executed power quality audits in manufacturing industries, Solar generation plants and Textile, cement, Pulp and paper industries

Mr. Abid Mohammad Nazim
Senior Assessor – Energy, Water, Sustainability Services

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| | | B.E (Electrical & Electronics Engineering) Experience: 4 years in Energy Audit. |
| | 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>One Part time energy auditor. Details as below.</p> <p>1. Mr. Swapnil Thanekar BEE Certified Energy Auditor B.E. (Mechanical Engineering). He has been instrumental in Mandatory Energy Audits for Power plants, textile plants, chemical industries, cement plants around India. • Involved in Energy Audit Cement sector like WACEM, TOGO, DIAMOND, ASTRO Cement Mill etc Detailed reporting of emission reduction due to renewable energy projects and its impact on climate change Experience -21 years</p> <p>2. Mr. R.Ilango Certified Energy Auditor B.E(Mechanical Engineering), Experience more than 15 years in Energy Audits</p> |
| | Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception | All Sectors Thermal Power Plant Cement Iron & Steel Chlor-Alkali Textiles Pulp & Paper Aluminium Fertilizer Refinery Petrochemicals Steel re-rolling Chemical Industry Pharmaceuticals Engineering, Hospitals, Hotels, Commercial Buildings, Manufacturing Plants, Residential Units |
| 22 | Subject wise expertise | Operation & Analysis of following equipments/systems 1. Electrical systems- Motors, transformers, distribution system, harmonics |

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| | | <ol style="list-style-type: none"> 2. Pumps 3. Fans/Blowers 4. Compressed Air 5. HVAC, Refrigeration –Air conditioning 6. Cooling Towers 7. Electrolysis 8. Electrical heating-Resistance, Induction & Arc 9. Fuel fired equipments- Boilers, Hot oil generators, Furnaces 10. Steam distribution analysis and traps 11. End use analysis of heating & cooling Waste Heat recovery- from utility equipments & chemical processes 12. Buildings 13. Analysis of cogeneration potential 14. Water Audit & Specific water consumption |
| (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 | Coal fired Power Plant, Combined Cycle Power Plant, Iron & Steel, Chlor-Alkali, Soda ash, Dye manufacturing process, Cement & Clinker manufacturing process, Ammonia, Urea & Fertilizers Manufacturing Process, Textile Manufacturing Process, Blast Furnace , Induction Furnace, Electric Arc Furnace, Sponge Iron Manufacturing Process, |
| (b) | Energy audit thermal utility system (list sectors) | Power Plant, Cement, Pulp & Paper, Textiles, Chlor-Alkali, Fertilizer, Iron & Steel, Buildings, Chemical, Pharmaceuticals Sectors, etc. |
| (c) | Energy audit electrical utility system (list sectors) | Power Plant, Cement, Pulp & Paper, Textiles, Chlor-Alkali, Fertilizer, Iron & Steel, Buildings, Chemical, Pharmaceuticals, Engineering, Buildings, Textiles, Discom Sectors etc. |
| 23 | Instruments available | |
| | (a) Electrical (list the name of the instruments) | <ol style="list-style-type: none"> 1. Portable Load Manager-Krykard 2. Power Clamp Rishab 3. Nano VIP2 Power Analyzer 4. Digital Earth Resistance Tester KM-1520 5. Digital Insulating Resistance Tester KM-379 6. Ultrasonic Flow Meter – TR600H 7. Pressure Meter Testo-510 8. Pitot tube 9. Lux meter Testo 540 10. Vane Anemometer Testo 410 |

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| | (b) Thermal (list the name of the instruments) | <ol style="list-style-type: none"> 1. Temperature Thermometer Testo 925 2. Thermal Imager - Testo-872 3. Flue Gas Analyser - KANE 905 4. Infrared Thermometer Testo 835 5. Infrared Temperature Gun Testo 830 6. Thermo-Hygrometer Testo 605i 7. NV Sampling Probe for KANE 905 |
| 24 | Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit | Attended Advanced Thermography workshop organized by TESTO India Pvt. Ltd. at Ahmedabad. |
| (i) | | |
| (ii) | | Attended Seminar on “ Energy Conservation opportunities in MSME ” organized by PCRA & GEDA at Ahmedabad |
| (iii) | | Delivered guest lecture on “ Energy Efficiency for Industrial Boiler ” at workshop for CEM/CEA organized by NPC & GEDA at Vadodara |
| (iv) | | Attended “stakeholders Consultative Workshop on Financing Energy Efficiency Projects in MSMEs” at New Delhi organized by EESL, BEE, World Bank & UNDP |
| (v) | | Attended International conference – CONCRETECH-2018 – Sustain to gain for Indian Cement Industries organized by CMA (Cement Manufacturers Association) at New Delhi |
| (vi) | | 17th Meeting of SAMEEKSHA conducted by TERI with presence BEE, SIDBI and Shakti Foundation, UNIDO. |
| | | Attended International conference – Enhancing Energy Efficiency Through Industry Partnership (A conclave to share achievements, best practices and way forward) at New Delhi conducted by BEE (Govt. of India) & GIZ India - Deutsche Gesellschaft für Internationale Zusammenarbeit (German) |

| D | Remarks(if any) |
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| 1 | Awarded the National Renewable Energy Fellowship of worth Rs 8000/- per month from Ministry of New & Renewable Energy, Govt. of India during M.Tech. (Energy Management). |

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

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Amitabh Srivastava