


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

Serial Number (AEA-0331)		As on(29/08/2023)	
A.			
1	Name of accredited energy auditor	Himanshu Sekhar Mishra	 Photograph of the energy auditor
2	Father's name	Basudeb Mishra	
3	Date of certification as Energy Manager	May'2004	
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"	Certified Energy Auditor : Exam Reg. No. : EA-0595,	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Certificate Reg. No. : 477	
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	Ecoen Private Limited	
9	Date of accreditation as accredited energy auditor	(to be filled by BEE)	

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)	Mrs. Prajna Mishra, Director (DIN- 09441958) M/s ECOEN PRIVATE LIMITED Regd. Office Address: Plot No-LIG-114, Phase K-4, Kalinga Vihar, Bhubaneswar, Odisha, PIN- 751019 India. M- +91 9740706584 Email : prajna.mishra@ecoen.in
12	Professional postal address with Pin Code of the accredited energy auditor	Flat No. 603, Tower -11, TATA ARIANA, Kalinga Vihar, Mahalaxmi Vihar Sub Post Office, Bhubaneswar, Odisha, PIN- 751029
13	E-mail address	hsm@ecoen.in himanshumishra644@gmail.com
14	Telephone numbers . with STD Code (R) (O) Mobile no:	Mob- +91-7019683674
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	Dec 2021
16	Year of commencement of energy audit of the firm	Jan 2022
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	Not available
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Not Availble
C	Details of Associated Energy Experts	
19	Number of resource persons available	Full time – 04 and Part Time - 07

<p>20</p>	<p>I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm</p>	<p>Four Nos.</p> <p>1- Sh. Sarobindu Mohanta, – Accredited Energy Auditor, BEE, Reg. No AEA-0209, B.Tech (Chemical)</p> <p>Professional Work Experience: -</p> <ul style="list-style-type: none"> • 33+ years serving Indian Oil Corporation Ltd at various level. • Ex Addl. Director, PCRA (Under Ministry of Petroleum & Natural Gas) • Certified ISO 50001 Lead Auditor for Energy Management Systems, (EnMS /14/IN/209 by BVQI, India) <p>Sectors covered in energy audit studies undertaken: Pharmaceuticals, Tea Industry, Beverage Industry, Textile, Port trust, Petroleum, Buildings (Office, Residential, Municipality), Dairy, Chemical, Data Centre, Distillery, Iron & Steel, Leather, Mechanical Workshop & factories (Auto & Railway), Power Generation & Distribution, Industrial Battery, Steel Forging & rolling, Refinery & Petrochemicals, Thermal Power Plants, Food Processing, Minerals & Metals, Engineering, Industrial gases, Automobile, Engineering OEMs, Mines Minerals,</p> <p>2- Sh. Himanshu Sekhar Mishra</p> <ul style="list-style-type: none"> ▪ Certified Energy Auditor - Regn No. – EA0595, May'2004 ▪ Energy Conservation Techniques Professional certification course by JICA at Japan in Y'2011 ▪ B.E. – Mech., M.Tech : Energy Management. ▪ Certified Facilitator on GreenCo Rating System – (Certificate No: CII/GCRF/005/2022; Issued date: July'22. <p>Professional Work Experience: -</p> <ul style="list-style-type: none"> ▪ 20+ years of Energy Management & Energy auditing experience responsible for implementation of Energy Management
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systems including identification, planning & monitoring execution of Energy Efficiency & Renewable projects.(from Jan'02 toY'22).

- Worked with ACC Limited, as Chief Manager with Energy & Environment dept. (Designated Energy Manager under EC Act 2001 & PAT Act for ACC- Chaibasa cement works, ACC – Gagal Cement Works and ACC-Wadi Cement Works) for last 10 years i.e., from Feb'2207 to Dec'2017
- Worked with Exide Industries limited, at corporate Head Office, Kolkata as DGM – Energy Management (Head – Energy Efficiency dept) from Y'2017-21 with responsibility for organization's Power & Fuel Cost reduction drive across Exide groups Eight Manufacturing units.
- Executed as a member of the Energy Auditing team for more than 50 nos. of Energy Audit at various industrial sectors and Commercial Buildings from 2002-2007.

Sectors covered in energy audit studies undertaken:

- Have conducted Energy Audit in different sectors like Cement, Iron & Steel, Fertilizers, Pharmaceutical, Textile, Lead-Acid Battery, Glass, Refractory Industry, Hotels and Hospital, Power plant, Petrochem, SME – Rice Cluster & Secondary steel etc
- Name of few comprehensive Energy Audit at industries like, Gas Authority of India Ltd (GAIL), Pata, UP, TATA Chemicals Ltd., Babral, Chaibasa Cement works with 21 MW CPP, Gagal Cement works, Wadi Cement Works, Ranbaxy Laboratories Ltd.,Ropar & Mohali, Usha Martin, Usha alloys & Steel div, Fortis Heart Center Hospital, Mohali, PGIMER Hospital, Chandigarh, Maharishi Balmki Hospital,

Delhi, Sterling Add life India P. Ltd. Hospital at 4-locations of Gujarat, HSIL Limited- AGI Glaspac, Bhongir & Hyderabad, AGI Clozure, Isnapur, Kymore cement works, IFGL etc.

3. Sh. Hara Prasad Sahu

- Certified Energy Auditor (Regn. No. EA - 1335)
- BE (Electrical), M. Tech (Energy Mgt.), MBA (Project Management)

Professional Work Experience: -

- 16+ years of diverse cross-functional experience in Business Development, Planning & Execution of project in Power, Water Utilities, Energy Conservation & Energy Audit segment.

Sectors covered in energy audit studies undertaken:

- Have conducted Energy Audit in different sectors like Cement, Iron & Steel, Chemical & Fertilizers, Pharmaceutical & Hotels and Hospital.
- Name of few comprehensive Energy Audit at;
 - OCL, Jharsuguda, Odisha, Indo Rama Synthetics Limited, Nagpur, Tata Chemicals Babrala, U.P Mahela Migma Limited, Dewas, M.P, Gajra Gears Limited, Dewas, M.P, Sriram Honda Power Products, Halduwani, Uttarkhand, Wild Flower Hall, Shimla, Hotel Oberoi, New Delhi, Ganga Ram Hospital, New Delhi.
- Involved in Measurement & Verification Audit under PAT Scheme at
 - Iron & Steel : - SAIL- Bhilai & Bokaro, Cement – OCL, Jharsuguda, Jaypee-Rewa & Bela, Power Plant- IB Thermal, OPGCL- Jharsuguda, Dhuaran Gas Based Power Plant, GSECL- Gujarat.

		<p>4. Sudip Kumar Dey</p> <ul style="list-style-type: none"> ▪ Certified Energy Auditor (Regn. No. EA – 32620/21) ▪ BE (Electrical), <p>Professional Work Experience: -</p> <ul style="list-style-type: none"> ▪ +23 years of Sales & Marketing of Switchgear (High Voltage & Low Voltage), Transformer, Motors, Panels etc. and Energy Auditing experience in Industrial & Commercial Building. <p>Sectors covered in energy audit studies undertaken:</p> <ul style="list-style-type: none"> ▪ Name of few comprehensive Energy Audit at; <ul style="list-style-type: none"> - Sterling Add life India P. Ltd. Hospital at 4-locations of Gujarat, HSIL Limited-AGI Glaspac, Bhongir & Hyderabad, AGI Clozure,-Isnapur, ACC-Kymore cement works.
	<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>Seven ,</p> <p>1. Mr. Prabir Chatteraj, Sector Expert:- Petroleum Refinery</p> <p>– Accredited Energy Auditor, Reg. No AEA-0090.</p> <p>Professional Work Experience: -</p> <ul style="list-style-type: none"> ▪ 19 years working experience in Petroleum Refinery Sector with Indian Oil Corp. Ltd-IOCL, Design Review of new plants, Checking of PIDs, PFDs, Pre-commissioning Commissioning, Operational & Technical Services of Refinery Petroleum units from Y'1975 to Y'1993 and Y'2005 to Y'2008. ▪ 12 years at PCRA, MOP & NG, GOI in the field of Energy Conservation & Energy Audit from Y'1993 to Y'2001 and Y'2008 to Y'2011.

Sectors covered in energy audit studies undertaken:

Audited Units – Crude Distillation, Edeleanues Plant, Delayed Coking, Vacuum Distillation, Vis-Breaker, Bitumen, Catalytic Cracking, Merox and pilot Distillation / Fractionation facilities.

2. Mr. Amitava Chakraborti

Accredited Energy Auditor (AEA 0059)

Professional Work Experience: -

- 23 years working experience in Petroleum Refinery Sector with Indian Oil Corp. Ltd-IOCL,
- Experience in Production units, Technical Services, Quality Control of Refinery units from 1983-1998, 2004-2008 & 2014-2019
- Responsible for Technical audit & Energy monitoring in Refinery, Petrochemical units.
- 12 years at PCRA, MOP & NG, GOI in the field of Energy Conservation & Energy Audit from 1998-2004 and 2008-2013.

Sectors covered in energy audit studies undertaken:

- Petroleum Refinery Sector

3. Mr. Soumitra Ray Choudhuri

Accredited Energy Auditor (AEA 0072)

Professional Work Experience: -

- 30 years working experience in Petroleum Refinery Sector with Indian Oil Corp. Ltd-IOCL, PCRA, MOP & NG, GOI.

Sectors covered in energy audit studies undertaken:

- Petroleum Refinery Sector, Steel,

Power plant, Dairy, Pharma & Railway.

4. Mr. Yogendra Prasad, - Sector Expert - DISCOM

Professional Work Experience: -

15 Years working experience with Tata Steel Utilities and Infrastructure Services Limited, Jamshedpur./ Transmission & Distribution of Power. (DISCOM Sector).

Sectors covered in energy audit studies undertaken:

Tata Steel Utilities and Infrastructure Services Limited, Jamshedpur./ Transmission & Distribution of Power.

5. Mr. Brij Goutam - Sector Expert – Cement, BTECH (Chemical Eng)

Professional Work Experience: -

More than 30 years of working experience in the field of O&M, Process Optimization, Project Planning, execution and commissioning of cement plant.

- As a Production, Process and Quality professional; have broad-based exposure in terms of operation of Kiln (capacity of 1000 TPD & 5000TPD plant), allied CVRM, RM & Cement mill (BALL+VRM).
- Monitoring & Operation of Kiln & Cement mill, Optimization Kiln & Cement mill,
- Heat & Mass Balance Raw Mill, Coal Mill, RABH, Kiln / Cooler and Cement Mill,

Sectors covered in energy audit studies undertaken:

Cement

Achievements:

		<p>Reduce power consumption in Kiln, Mill Section area by effective modification.</p> <p>Preheater cyclone & Kiln inlet up-gradation work.</p> <p>Increased Raw mill and coal mill productivity.</p> <p>Coal mill residue reduction.</p> <p>Heat recuperation efficiency increased by cooler bed height increased, & pre-calcinator height increased.</p> <p>Optimization of cement mill equipment reliability reduction in breakdowns, modifications suggested design of cyclone) fan and conveying equipment</p> <p>6. Mr. Madhusudan Mohini - Sector Expert - Steel</p> <ul style="list-style-type: none"> (A.M.I.E. in Electrical Engg from The Institution of Engineers (India), Kolkata and Post Diploma in Industrial Safety) <p>Professional Work Experience: -</p> <ul style="list-style-type: none"> Retired as Assistant General Manager in SAIL, Rourkela Steel Plant after 34 years continuous service in Steel Authority of India Limited, Rourkela Steel Plant, Rourkela. <p>Sectors covered in energy audit studies undertaken:</p> <p>Experience in Electrical Maintenance in the area of Steel Melting Shop, Oxygen Plant, Town Engineering and Crane Maintenance.</p> <p>7. Mr. Bijay Kumar Panda -</p> <p>(B.Tech. Electrical Engineer from REC (NIT), Kurukshetra, DIS from RLI, Kolkata, MBA.)</p> <p>Professional Work Experience: -</p> <p>35 Years worked experience as Electrical maintenance Engineer in various capacity in reputed Industries like NALCO, Essar Power, and Sembcorp Energy India.</p>
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21	Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception	<ul style="list-style-type: none"> ▪ Have conducted Energy Audit in different sectors like Cement, Iron & Steel, Fertilizers, Pharmaceutical, Textile, Glass, Refractory Industry, Hotels and Hospital, Power plant, Petrochem, SME – Rice Cluster & Secondary steel, Automobile & Auto Ancillary, Lead-Acid Battery.
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	Cement
(b)	Energy audit thermal utility system (list sectors)	Cement, Iron & Steel, Fertilizers, Pharmaceutical, Textile, Glass, Refractory Industry, Hotels and Hospital, Power plant, Petrochem, SME – Rice Cluster & Secondary steel, Automobile & Auto Ancillary, Lead-Acid Battery.
(c)	Energy audit electrical utility system (list sectors)	Cement, Iron & Steel, Fertilizers, Pharmaceutical, Textile, Glass, Refractory Industry, Hotels and Hospital, Power plant, Petrochem, SME – Rice Cluster & Secondary steel, Automobile & Auto Ancillary, Lead-Acid Battery.
23	Instruments available	
	(a) Electrical (list the name of the instruments)	1- 3ph 4 wire Power cum Harmonic Analyzer 2- Stroboscope
	(b) Thermal (list the name of the instruments)	1- Portable Flue Gas Analyser includes O ₂ , CO, SO ₂ , NO sensor modules,

		<p>Pressure sensor & Thermocouple for Flue Temp. upto 1000 °C.</p> <p>2- Thermal Imager with MSX and Coaxial Laser Temperature range -13 to 1202°F (-25 to 650°C),</p> <p>3- Ultrasonic Water Flow Meter for water, with detectors for pipe size 13mm to 1200 mm.</p> <p>4- Flow meter for compressed air and gases</p> <p>5- Compressed Air Pressure Meter with data logger</p> <p>6- Contact type surface temperature Indicator - Make/Model – Testo, Surface Probe Type “K”.</p> <p>7- Differential Pr. Meter Pocket Digital Pressure Meter, with “S” type pitot tube</p> <p>8- Vane type Anemometer with 16mm Vane kit, Make/ Model: -TESTO 440.</p> <p>9- Lux Meter and</p> <p>10- Hygrometer</p>
24 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	<p>Energy Conservation Seminars at AGI Glaspac , Bhongir, Telegana.</p> <p>Energy Conservation Seminars at Sterling Hospital, Rajkot & Gandhidham.</p> <p>Energy Conservation Seminars at Exide Industries limited.</p> <p>Energy conservation Training program on compressed air system at KY Cement works.</p>
(ii)		
(iii)		

D	Remarks(if any)

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