


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

<b>Serial Number (AEA- 0013)</b>		<b>As on :- 26 February, 2013</b>	
<b>A.</b>			
1	Name of accredited energy auditor	GIRISH M N	
2	Father's name	M A NARAYANAN	
3	Date of certification as Energy Manager	30 <sup>th</sup> July 2009	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	23-24 May 2009	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA 5499	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA 5499	
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	FICCI (Federation of Indian Chambers of Commerce and Industry)	
9	Date of accreditation as accredited energy auditor	( to be filled by BEE)	
10	Type of firm/ private/ Government / NGO etc.	NGO	

11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address ( All details compulsory)	Name: MA Patil (Director) MN Girish (Joint Director) Address: FICCI, Federation house, Tansen Marg,. New Delhi-110001 Tel: 011-23359736, 23487382, Mob: 09810082612 Fax: 011-23721504 Email: <a href="mailto:ma.patil@ficci.com">ma.patil@ficci.com</a> , <a href="mailto:mngirish@ficci.com">mngirish@ficci.com</a>
12	Professional postal address with Pin Code of the accredited energy auditor	Federation of Indian Chambers of Commerce and Industry (FICCI), Federation house, Tansen Marg,. New Delhi-110001
13	E-mail address	<a href="mailto:ma.patil@ficci.com">ma.patil@ficci.com</a> , <a href="mailto:mn.girish@ficci.com">mn.girish@ficci.com</a>
14	Telephone numbers . with STD Code (R) (O) Mobile no:	Tel: 011-23359736, 23487382, Mob: 09810082612 Fax: 011-23721504
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	1927
16	Year of commencement of energy audit of the firm	1998
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	No
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	a. Akhilesh Mahurkar (Director) FICCI Andhra Pradesh State Council 8-2-699/1, 3rd Floor, K R Towers, Road No. 12 Banjara Hills, Hyderabad 500 034 Phone: 040- 23395275-76 , Fax: 040-23395275-76 Email: <a href="mailto:akhilesh.mahurkar@ficci.com">akhilesh.mahurkar@ficci.com</a> b. Mr. Abhishek Sharma (Coordinator) FICCI Chhattisgarh State Council JSPL Campus, Mandir Hasaud, Chhattisgarh

Raipur - 492 001  
Phone: 0771-2471400 (D), 2471205-07  
Fax: 0771-2471214/2471404  
Email: [a.sharma@ficci.com](mailto:a.sharma@ficci.com)

- c. Mr Param J Shah, (Deputy Director)  
FICCI Gujarat State Council  
A-311, Safal Pegasus, 100 ft Road,  
Pralhadnagar, Ahmedabad - 380 015  
Telefax: 079-26937581, 26937582,  
26937583  
Email: [gujarat@ficci.com](mailto:gujarat@ficci.com),  
[param@ficci.com](mailto:param@ficci.com)
- d. Ms. Priya Bhattacharjee (Senior Assistant  
Director)  
FICCI Karnataka State Council  
VITC Building, 1st Floor, Kasturba  
Road  
Bangalore - 560 001  
Phone: 080 22861949 , Email:  
[priya@ficci.com](mailto:priya@ficci.com)
- e. Dr. Vaijayanti Pandit (Director )  
FICCI Western Regional Council  
Krishnamai Cooperative Housing  
Society Ltd  
Ground Floor, Plot No. 33-B,  
Pochkhanwala Road,  
Worli , Mumbai - 400 025  
Phone: 022-24966633-39 (O), 24968000  
(PABX)  
Fax: 022-24966631-32  
Email: [drvpanidit@ficci.com](mailto:drvpanidit@ficci.com),  
[wrc@ficci.com](mailto:wrc@ficci.com)
- f. Mr Gyan Prakash, (Director)  
FICCI Rajasthan State Council  
202 Rajputana Tower, A-27-B, Shanti  
Path,  
Tilak Nagar, Jaipur - 302 004  
Phone: 0141 5116464, Fax: 0141 5116464  
Email: [gyan@ficci.com](mailto:gyan@ficci.com)  
Mr P Murari  
Advisor - President, FICCI

		<p>g. Mr S. Saravanan , (Deputy Director) FICCI Tamil Nadu State Council 2A, Bajaj Manor, 14A, College Road Chennai 600006 Phone: 044- 42326329 (D) 42326331, 42327333, 42326330 (Off) , Fax: 044- 42326263 Email: <a href="mailto:saravanan.s@ficci.com">saravanan.s@ficci.com</a></p> <p>h. Ms Mousumi Ghose, (Director) FICCI Eastern Regional Council, 4, Camac Street, 2nd Floor, Wing 'B', Kolkata 700 016 Phone: 91-033-32940580, 40035347 Fax: 91-033 40035348 Email: <a href="mailto:ficci@ficcierc.com">ficci@ficcierc.com</a>, <a href="mailto:mousumi.ghose@ficci.com">mousumi.ghose@ficci.com</a></p> <p>i. Mr. Rahul Kumar Consultant - Haryana &amp; Punjab House No. -751, 1<sup>st</sup> Floor, Sector 43-A Chandigarh - 160022 Mobile: 09815545239 Email: <a href="mailto:rahul.kumar@ficci.com">rahul.kumar@ficci.com</a></p> <p>j. Mr C V Mahadev Rao Head FICCI-Orissa State Council C/O Industrial Promotion and Investment Corporation of Odisha Ltd (IPICOL) IPICOL House, Janpath Bhubaneswar - 751022 Mobile: 9437024976 Email: <a href="mailto:mahadev.rao@ficci.com">mahadev.rao@ficci.com</a></p>
<b>C</b>	<b>Details of Associated Energy Experts</b>	
19	Number of resource persons available	Eleven (11)
20	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm	<ol style="list-style-type: none"> <li>1. MA Patil (22 Years) (EA10204)</li> <li>2. MN Girish (14 Years) (EA5499)</li> <li>3. Pushendra Nayak (4 Years)(EA6581)</li> <li>4. Kamlesh Shah 3 years</li> <li>5. Ashish Trivedi 2 years</li> <li>6. Kajol 2 years</li> </ol>

<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>	<ol style="list-style-type: none"> <li>1. Paraman ( 25 years</li> <li>2. AV Dinesh 16 years</li> <li>3. YC Gupta ( 19 years) (EA 3409)</li> <li>4. Shashidhar Dhareshwar (3.5 Years) (EA2393)</li> <li>5. Govind Patel (10 Years) (EA 2438)</li> </ol>
<p style="text-align: center;"><b>BREIF C.V OF RESOURCE PERSONS OF FICCI</b></p> <p><b>FULLTIME MEMBERS</b></p> <p><b>M A PATIL</b></p> <ul style="list-style-type: none"> <li>• Director &amp; Head, Resource Conservation &amp; Management division, Federation of Indian Chambers of Commerce and Industry (FICCI), New Delhi</li> <li>▪ B.E. (Mechanical Engineering, first class) from Shivaji University, Maharashtra in 1984.</li> <li>▪ Post Graduation in Energy Management (full time 2 year course during 1986-88, Ist Division) from the training institute of the National Productivity Council at Chennai</li> <li>▪ BEE Certified Energy Auditor (2009)</li> <li>▪ Professional Work Experience : 21 years</li> <li>• Carried out several energy audits and demonstration projects targeted at improving productivity in industry sectors like ceramic kilns, foundry, boilers, stone crushers, soy oil extraction and refining, etc The projects involved integrated approach of improving energy and environment efficiency simultaneously</li> <li>• Baseline Energy Audit of 27 industries in Aluminium, Cement, Fertiliser &amp; Textiles</li> <li>• Waste Minimisation Demonstration in a Dye &amp; Dye Intermediate Industry (APO Factory Farm Project, 1996-97) with an objective of energy conservation and environmental improvement simultaneously.</li> <li>• Combustion Optimisation demonstration &amp; evolving National emission standards for small industrial boilers (CPCB Project, 1998-99)</li> <li>▪ Demonstrating smokeless stack for a 8 TPH coal fired boiler involving design of a modified external combustion chamber with pre-heated secondary air supply along with turbulence and design of a heat exchanger.</li> </ul> <p><b>M N GIRISH</b></p> <ul style="list-style-type: none"> <li>• Jt Director, Resource Conservation &amp; Management, Federation of Indian Chambers of Commerce and Industry (FICCI), New Delhi</li> <li>• Conducted more than 15 major Energy Audit assignments including BEE Projects like energy audit of industries in Aluminium Sector, Fertilizer, Pulp &amp; Paper, Sugar sector, Chemical industries, Bicycle Manufacturing , Mining, Pharmaceuticals, Commercial Building, Hospitals, Hotels, Lighting system study etc</li> <li>• Baseline Energy Audit of 27 industries in Aluminium, Cement, Fertiliser &amp; Textiles</li> <li>• Organized &amp; Designed more than 80 technical conference/seminar/workshop for Energy Conservation</li> <li>• Actively took part in implementation of three International Projects <ol style="list-style-type: none"> <li>a. UNIDO project (Ministry of Commerce and Industry)</li> <li>b. CIDA Project for Capacity Building for Energy Manager (Ministry of Power)</li> <li>c. Canadian project for Indian Industrial program for Energy Conservation (Ministry of Power)</li> </ol> </li> </ul>	

**PUSHPENDRA NAYAK**

- Working as Asst. Director with FICCI, New Delhi
- M.Tech. (Energy Management) from School of Energy & Environmental studies, DAVV, Indore
- B.E. (Mechanical) from Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
- Certified Energy Auditor (Bureau of Energy Efficiency, Govt. of India)- EA 6581
- Conducted more than 40 Energy Audit, water Audit in industries, commercial buildings.
- Team member for organizing around 4 technical conference/ seminar/ workshop for Energy Conservation
- Adept at performing Energy Efficiency studies & conducting preliminary study and submitting proposal.
- Skilled in submitting the reports with savings potential and techno-economic calculations,
- Worked on air conditioning system designing, solar system designing, green building designing.

**PART TIME AUDITORS****R. PARAMAN (E : devkienergy@gmail.com)**

- Director, Devki Energy Consultancy Pvt. Ltd., 405, Ivory Terrace, R C Dutta Road, Baroda.
- *B.E. (Electrical)* from M.S. University, Baroda.
- *Professional Development Course in Advanced Energy Auditing* from University of Wisconsin, Madison, USA.
- Certified Energy Auditor (Bureau of Energy Efficiency, Govt. of India).
- In the field of energy conservation since 1986 in India, Middle East Asia (Gulf), South East Asia, Europe and Africa.
- Experience of over 600 Energy Audits, covering Industries, Power Stations and Commercial Buildings.
- Has conducted over 100 training programmes on energy conservation for executives from industries in India and abroad.
- Resource person for BEE-IREDA project for development of Codes and Best Practice Manuals, PCRA's project for development of Best Practice Manuals and IGIDR's project for developing a DSM Plan for Maharashtra.
- Co-authored text book in Energy Auditing for MIT pune for M.Tech course in Energy management in 2006.
- Was faculty for Joint Indo-European "Training of Trainers for Energy Management" programme in India.
- Visiting Faculty at Administrative Staff College, Hyderabad, India and School of Energy & Environmental Studies, Indore, India.
- Empanelled consultant, IFC (World Bank) for Africa projects.

**A.V. DINESH E : devkienergy@gmail.com)**

- Director, Devki Energy Consultancy Pvt. Ltd. 405, Ivory Terrace, R C Dutta Road, Baroda,
- *B.Tech. (Electrical & Electronics)* from Calicut University, India.
- *M.Tech (Energy Management)* from School of Energy & Environmental Studies, Indore, India.

- Certified Energy Auditor (Bureau of Energy Efficiency, Govt. of India).
- In the field of energy conservation since 1986 in India, Middle East (Gulf Region), South East Asia, Europe and Africa.
- Experience of over 300 Energy Audits, covering Industries, Power Stations and Commercial Buildings.
- Has conducted over 50 training programmes on energy conservation for executives from industries.
- Resource person for BEE-IREDA project for development of Codes and Best Practice Manuals and PCRA's project for development of Best Practice Manuals
- Co-authored text book in Energy Auditing for MIT pune for M.Tech course in Energy management in 2006
- Was faculty for Joint Indo-Canadian Energy Management programmes, conducted under the auspices of the Federation of Indian Chambers of Commerce & Industry (FICCI), New Delhi, India.
- Visiting Faculty to FICCI, India and School of Energy & Environmental Studies, Indore, India.
- Empanelled consultant, IFC (World Bank) for Africa projects.

SASHIDHAR D

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Off Pune-Satara Road, Pune - 411 009

9766318785, 9422089863

020-24219085

- **M. Tech (Energy Studies), B.E. (Mechanical), BEE Certified Energy Auditor.**
- National Certification Examination for Energy Auditors conducted by BEE - 2006, EA-2393
- Indian Green Building Council - Accredited Professional (**IGBC-AP**)
- **Experience: Energy Audit, CDM and Renewable energy Consultancy: 3-1/2 years**

Y C GUPTA

gupta.yc@gmail.com

- **ENERGY CONSERVATION / ENVIRONMENT** - Executed more than 50 Energy Audits in different sectors like **Steel mills, Paper mills, Power plant, Packaging Industry, Chemical plant, Switchgear Plant, Buildings etc.**
- Diagnostic study for Process technology gap assessment & energy audit performed in 10 paper mills on behalf of **UNIDO** (United Nation Industrial Development Organization).
- Nationwide (1200 Steel Re-Rolling mills) Energy Efficiency Improvement under **UNDP/GEF assisted project of Ministry of Steel, Govt. of India** along with implementation / Training for **ECO TECH** options & **GHG emission reduction.**
- Training to **officers from Punjab & Gujarat State electricity boards** about energy conservation opportunities in **power generation, transmission & Distribution.**
- Designated faculty at Indian school of Petroleum & Energy and University of petroleum, Dehradun.  
Energy Audit done in **Parliament Library Building**  
Currenty AVP Energy Audit- Eon Electric Ltd. (Formerly INDOASIAN Fusegears Ltd.)  
C-124, Hosiery Complex, Ph. 2 Extn., NOIDA - 201305

**Education:**

- **MBA** - Operation & Production Management (Final Result Awaited) Madurai Kamraj Univ.
  - **PGDM** - Operation & Production Management (1996), IMT, Ghaziabad, India
  - **B.TECH.**- Electrical Engineering (1991), IIT-BHU, Varanasi, India
- Certified Energy Auditor - EA 3409**

**GOVIND PATEL**

Mr. Govind Patel

**Mobile +91-98980 29032**

**Address :8, Ambica Chambers, Near Moti Talkis, Besides State Bank of India, Begampura, Surat - 395003**

- Life Cycle Assessment - for Coal based power plant , NTPC, TTPS, Talcher, Orissa
- Life Cycle study for heavy metals and fluoride and its impact assessment on human health and ecological health
- Electrical Energy Audit as per "Gujarat Use of Electrical Energy (Regulation) order, 1999.
- Electrical Energy Audit as per criteria and scope of work given in "Order No. GHU / 99 / 31 / GUE / 1196 / 9018 / K1: whereas and in exercise of the powers conferred by clause (a) of sub section (1) read with sub section (2) of section 6 A of the Bombay Electricity (Special Power) Act, 1946"
- Water Balance for entire cement plant as well as sub systems, pump efficiency evaluation, water systems operation optimization, preparation of water audit report highlighting the water saving measures with cost benefits analysis.
- Thermal Energy Audit and Process Audit.
- Thermal Energy Audit for fossil fuel systems. Process audit for manufacturing of electrical insulators.
- Lighting Audit and Software Simulation for various manufacturing units of televisions, washing machines, moulding units, refrigerators, canteens, etc.
- Performance evaluation of two Nos of vapour absorption machines and power quality check for different types of welding machines with fluke
- Overall Electrical Energy Audit and Water Audit for Source, distribution and pumping efficiency

**Education:**

- B E Chemical.
- **Certified Energy Auditor. EA-2438**  
PDIS, LEED AP (USGBC, USA).

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Sectors in which the energy auditor has conducted energy audits since inception

- a) Aluminium Sector
- b) Fertilizer
- c) Pulp & Paper
- d) Sugar sector
- e) Cement
- f) Textile



		<ul style="list-style-type: none"> <li>g) Chemical industries</li> <li>h) Bicycle Manufacturing</li> <li>i) Mining</li> <li>j) Pharmaceuticals</li> <li>k) Commercial Building, Hospitals, Hotels. etc.</li> <li>l) Lighting study</li> </ul>
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	<ul style="list-style-type: none"> <li>1. Aluminium</li> <li>2. Fertilizer</li> <li>3. Textile</li> <li>4. Cement</li> <li>5. Sugar</li> <li>6. Pulp &amp; Paper</li> <li>7. Insecticide</li> <li>8. Mining</li> <li>9. Pharmaceuticals</li> </ul>
(b)	Energy audit thermal utility system (list sectors)	<ul style="list-style-type: none"> <li>1. Boilers &amp; Steam distribution system</li> <li>2. Furnaces</li> <li>3. Ovens</li> <li>4. Waste heat recovery systems</li> <li>5. Thermic Fluid heaters</li> <li>6. Hot air generators etc.</li> </ul>
(c)	Energy audit electrical utility system (list sectors)	<ul style="list-style-type: none"> <li>1. Transformers</li> <li>2. Motors, Pumps</li> <li>3. DG sets</li> <li>4. Electrical furnaces</li> <li>5. HVAC System</li> <li>6. Lighting system</li> <li>7. Fans, blowers, air compressors</li> <li>8. Electrical Distribution systems</li> </ul>
23	Instruments available	
	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> <li>1. Instantaneous Power Analyser</li> <li>2. 3 Phase Continuous &amp; instantaneous Power Analyser</li> <li>3. 1 Phase Continuous &amp; instantaneous Power Analyser</li> </ul>

	(b) Thermal (list the name of the instruments)	<ol style="list-style-type: none"> <li>1. Water Flowmeter</li> <li>2. Combustion Analyser</li> <li>4. Psychrometer</li> <li>5. Lux Meter</li> <li>6. Anemometer</li> <li>7. Temperature Indicator</li> <li>8. Pitot tube with digital manometer</li> </ol>
24 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	<ol style="list-style-type: none"> <li>1. Industrial Heating</li> <li>2. Advance Air Handling System</li> <li>3. Reliability Improvement in Electrical System</li> <li>4. Total Power Quality</li> <li>5. Total Corrosion Management</li> <li>6. Lubrication Management</li> <li>7. Building Management</li> <li>8. Recent Advancement in Industrial Combustion Tech.</li> </ol>

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

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