

**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- 0244)</b>		<b>As on:- 04/11/2014</b>	
<b>A.</b>			
1	Name of accredited energy auditor	Shri Chandra Kumar.U	
2	Father's name	Udaya Kumar.P	
3	Date of certification as Energy Manager	6 <sup>th</sup> January 2014	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	August 2013	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA-15189	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Provisional(NPC): 7391 Final (BEE): 10985	
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	<b>National Productivity Council</b>	
9	Date of accreditation as accredited energy auditor	( to be filled by BEE)	
10	Type of firm/ private/ Government / NGO etc.	Government –(An Autonomous institute, under Ministry of Commerce & Industry)	
11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address	Shri K.V.R.Raju, Director & Head- Ambedkar Institute of Productivity, 6, NPC, Aavin Dairy Road, Ambattur, Chennai- 600098.044-26253144,	

		Fax:4904,+919444500576
12	Professional postal address with Pin Code of the accredited energy auditor	NPC, 6, Aavin Dairy Road, Ambattur, Chennai – 600098.
13	E-mail address	npcaipchn@gmail.com
14	Telephone numbers with STD Code (O) Mobile no:	044-26255216,26251808 +91 9443369720
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	1958
16	Year of commencement of energy audit of the firm	1976
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)	<p>(1+12)</p> <p><b>HEAD OFFICE</b>  <b>National Productivity Council</b>  Utpadakta Bhavan, 5-6 Institutional Area, Lodhi Road, New Delhi – 110003,  011- 24690331 Fax : 91-11-24615002  Email: <a href="mailto:npinfo@npcindia.gov.in">npinfo@npcindia.gov.in</a></p> <p><b>REGIONAL OFFICES</b></p> <p><b>1) BENGALURU</b>  <b>Sh. P. Dharmalingam</b> Director  National Productivity Council  2nd Floor, Abhaya Complex, KSDB Building, 55, Risaldar Street, Seshadripuram, Bangalore 560 020, Tel: 080-23467294/ 95,Fax: 23467296, Email: <a href="mailto:bngnpc@gmail.com">bngnpc@gmail.com</a>,  bangalore@npcindia.gov.in</p> <p><b>2) BHUBANESWAR</b>  <b>Sh. B. Girish</b>  Sr. Deputy Director,National Productivity Council, A/7, Surya Nagar, Bhubaneswar – 751003, Odisha, Tel : 0674 2397381/26,</p>

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npcbbs@bsnl.in

**3) CHANDIGARH**

**Sh. G. Saravanan**

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**4) CHENNAI**

**Sh. K.V.R. Raju**

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**5) GANDHINAGAR**

**Sh. Shirish Paliwal**, Director,

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**Sh. S. Malik**, Director,

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**7) HYDERABAD**

**Sh. D. Sreenivasulu**

Deputy Director & In-Charge

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**8) JAIPUR**

**Sh. C. Narendra**

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**9) KANPUR**

**Sh. R. Dubey**

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**10) KOLKATA**

**Shri A.K. Sinha, Director**

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**11) MUMBAI**

**Sh. T. Shankarnarayanan**

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**12) PATNA**

**Sh. P.R. Upadhyay**

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		Fax : (0612) 2572577 <a href="mailto:npcpat@sify.com">npcpat@sify.com</a>
<b>C</b>	<b>Details of Associated Energy Experts</b>	
19	Number of resource persons available	30 Resource persons
20	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm	18 Accredited & Certified Energy Auditors
	<p><b>R. Virendra (AEA 106)</b>  35 years experience as Consultant and Trainer in Energy Management &amp; conservation</p> <ul style="list-style-type: none"> <li>▪ Energy Conservation &amp; energy Efficiency in Industry sector</li> <li>▪ Technology Application &amp; Diagnostic Studies</li> <li>▪ Energy Efficiency Improvements for Reduction of GHG Emissions</li> <li>▪ Cleaner Production Energy Efficiency (CPEE) &amp; Green Productivity</li> <li>▪ End use Efficiency and Demand Side Management towards GHG Emissions Reduction</li> <li>▪ Thermal Power Plant Auxilliary Energy use optimization studies</li> <li>▪ Waste Minimisation studies in Process Industries</li> </ul>	
	<p><b>T.Sankar Narayanan (AEA 107)</b>  ⇒ Executed more than 120 assignments covering Process, Engineering &amp; Service industry. Energy Audits. Some of them are</p> <ul style="list-style-type: none"> <li>▪ GSEG (156 MW gas CPP), Hazira (2003-04)</li> <li>▪ Heavy Water Plant, Hazira &amp; Manuguru (CPP) (1999 – 2000)</li> <li>▪ NTPC, Vindhyachal</li> </ul> <p>⇒ Performance Assessment of Biomass Power Plants (9 Nos.) in Maharashtra, Chhattisgarh, Tamil Nadu, Rajasthan &amp; UP.</p> <p>⇒ Technical Audit of Transmission &amp; distribution Circles – MSEB ( O &amp; M and Expenditure)</p> <p>⇒ Core faculty for NPC Training Programs. (More than 150 programs)</p> <p>⇒ Technical Audit of Thermal Power Plant – MSEB ( O &amp; M and Expenditure)</p> <p>⇒ Preparation of Strategic Plan for implementing EC Act in Maharashtra for MEDA and Energy management Centre, Kerala.</p> <p>⇒ Advisor Cum Consultant under APDRP – West Bengal</p> <p>⇒ Resource person for training programmes on Distribution Loss Reduction</p> <ul style="list-style-type: none"> <li>▪ Power Department of Jammu &amp; Kashmir, Meghalaya &amp; Pondicherry</li> <li>▪ State Electricity Board, Assam &amp; West Bengal</li> </ul>	
	<p><b>A.K. Sinha (AEA 186)</b>  Performed duties as Adviser-cum-Consultant of MOP, GOI as team leader for the entire APDRP Project in all the 3 Circles of West Bengal State Electricity Board</p>	

	<p>(WBSEB) &amp; Circles of Assam State Electricity Board during 2001 to 2006.</p> <p>Responsibility: Under the project, the AcC activities included DPR preparations, Bill of Materials &amp; Bill of Quantity for the Distribution Project, BID Document preparation, assisting State utilities towards Bid Evaluation &amp; Award of the Contracts, Follow-up during Project Implementation activities of various schemes as per the provision of DPR including Monitoring, Verification, Quality Assurance, timely completion of the project, as also documentation of results.</p> <p>Conducted under DRUM Programme, several Capacity Building Training Programmes for Distribution Engineers of West Bengal, Assam, U.P., Nagaland, Meghalaya Electricity Distribution Personnel in the area of Distribution Loss Reduction, Demand Side Management.</p> <p>Conducted several Consultancy studies &amp; Training Programmes for Heat Rate Reduction, Auxiliary Power Consumption Reduction, PLF Improvement for a large number of Indian Power Generating Stations.</p>
	<p><b>B.P. Bhandary (AEA 182)</b></p> <p>⇒ Executed more than 100 assignments covering Process, Engineering &amp; Service Industries.</p> <p>➤ Performance assessment of 4 X 250 MW Hydro-electric Power Plant of Tehri Hydro Development Corporation</p> <p>⇒ Involved in the preparation of Detailed Project Reports for improving the infrastructure of ASEB for supplying quality power as well as for better revenue realisation under Accelerated Power Development and Reforms Programme (APDRP) of Ministry of Power, Government of India.</p> <p>⇒ Implementation and Monitoring of the projects under APDRP in select circles of ASEB.</p> <p>⇒ Assessing the performance of several bio-mass based Power Plants for availing Capital Subsidy from Ministry for New &amp; Renewable Energy (MNRE).</p>
	<p><b>D.RAJANI KANT (AEA 135)</b></p> <p>MAJOR PROJECTS EXCEUTED</p> <ol style="list-style-type: none"> <li>1.APDRP Project</li> <li>2. Energy audit at Ferozabad Glass Industries, Client: Louis Berger</li> <li>3. Capability Assessment of SDA for implementation of EC Act 2001</li> <li>4. Energy Audit At Delhi International Airport, Client: DIAL-GMR</li> <li>5. Development Of PDD for Large Scale Biomass Based Grid Connected Power Plant From India, Client: 18MW RRREL</li> <li>6. GERIAP (Greenhouse Emission Reduction from Industry in Asia &amp; Pacific) Project - Client: UNEP</li> </ol>

	<b>P. Chitra (AEA 140)</b> <ul style="list-style-type: none"> <li>◆ Developing consultancy services in the field of energy management and renewable energy aspects.</li> <li>◆ Planning, designing and organising training programmes</li> <li>◆ Conducting need based energy auditing for industries</li> <li>◆ Preparation of study reports and course materials</li> <li>◆ Attended APO (Asian Productivity Organisation) Forum on Sustainable Production of Biofuels (26-28, November 2008) at Manila, Philippines.</li> <li>◆ Baseline Audit and Monitoring &amp; Verification Study of Andhra Sugars Ltd</li> <li>◆ Energy Audit of Rayalaseema Alkalies &amp; Allied Chemicals</li> </ul>	
	II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.	1) Mr. K. Pattabi, Technical Expert for Chlor Alkali Plant M&V, June 2015
21	Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception	All Designated Consumers including Aluminium, Cement, Chlor-alkali, Iron & Steel, Fertilizers, Pulp & Paper, Thermal Power Plants, Textiles, Railways, Transmission & Distribution and Buildings (Hospitals, Hotels, Malls, Schools, Tourist Offices, Airports), Hydro Power plants, Refineries etc.
22	<b>Subject wise expertise</b>	
(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	All Designated Consumers including Aluminium, Cement, Chlor-alkali, Iron & Steel, Fertilizers, Pulp & Paper, Thermal Power Plants, Textiles, Railways, Hydro Power plants, Refineries, Transmission & Distribution and Buildings (Hospitals, Hotels, Malls, Schools, Tourist Offices, Airports), etc.
(b)	Energy audit thermal utility system (list sectors)	All Designated Consumers including Aluminium, Cement, Chlor-alkali, Iron & Steel, Fertilizers, Pulp & Paper, Thermal Power Plants, Textiles, Railways, Hydro Power plants, Refineries, Transmission & Distribution and Buildings (Hospitals, Hotels, Malls, Schools, Tourist Offices, Airports), etc.

(c)	Energy audit electrical utility system (list sectors)	All Designated Consumers including Aluminium, Cement, Chlor-alkali, Iron & Steel, Fertilizers, Pulp & Paper, Thermal Power Plants, Textiles, Railways, Hydro Power plants, Refineries, Transmission & Distribution and Buildings (Hospitals, Hotels, Malls, Schools, Tourist Offices, Airports), etc.	
23	<b>Instruments available</b>		
	(a) Electrical (list the name of the instruments)	Online Power Analyser-1 Ph & 3 Ph, Lux Meter, Harmonic Analyser, Stroboscope.	
	(b) Thermal (list the name of the instruments)	Flue gas analyser, Steam Trap checker, Digital Temperature Indicator: Contact, Non-Contact types, Thermal infrared camera, Hygro meter, Pitot tube & Digital Manometer, Ultrasonic water flow meter, Anemometer.	
24 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	(i) Preparatory training program for Energy Managers & Auditors (3 programs per year From 2011 till date)	(ii) Hands-on Practical Training in Electrical Energy Audit and Conservation October 23 - 29, 2013
		(iii) Hands-on Practical Training in Industrial Furnace & Waste Heat Recovery - December 2013	(iv) Electrical Motors, VSD & Harmonics - Dec 9 to 11, 2014
		v) ONGC Training program - Jan 2014	(vi) MSME Training Program - April 2015

<b>D</b>	<b>Remarks</b>
	<ul style="list-style-type: none"> <li>• Successfully completed more than 50 Energy Audit Assignments across Various Industries, including Post Commissioning of the Energy Saving Equipments in 20 units.</li> <li>• Ability to integrate Renewable Energy in to the existing Thermal &amp; Electrical systems of the plant.</li> <li>• Expertise in ISO 50001, Water Conservation &amp; Carbon Positive Studies.</li> </ul>



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