

**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- 168)</b>		<b>As on- (26/11/2013)</b>	
<b>A.</b>			
1	Name of accredited energy auditor	Venugopala Rao Ravipati	Photograph of the energy auditor
2	Father's name	Chenchaiah	
3	Date of certification as Energy Manager	30.10.2008	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	30.10.2008	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA - 7648	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	3954	
7	Date of issue of accreditation certificate	( to be filled by BEE)	
<b>B.</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	Petroleum Conservation Research Association ( PCRA)	
9	Date of accreditation as accredited energy auditor	( to be filled by BEE)	

10	Type of firm/ private/ Government / NGO etc.	Government , Ministry of Petroleum & Natural Gas ( MOP & NG)
11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address ( All details compulsory)	R. Venugopala Rao Designation : Deputy Director Address : M/s. Petroleum Conservation Research Association (PCRA) C – 5 , Keshava Building , Bandra Kurla Complex , Bandra (E) , Mumbai – 400 051  Tel No: 022 -2659 0051 Mob: 0 9869026344 Fax No: 022 26590034  E Mail : <a href="mailto:raorv@pcra.org">raorv@pcra.org</a> , <a href="mailto:venugopalarao@bharatpetroleum.in">venugopalarao@bharatpetroleum.in</a>
12	Professional postal address with Pin Code of the accredited energy auditor	R. Venugopala Rao Designation : Deputy Director Address : M/s. Petroleum Conservation Research Association (PCRA) C – 5 , Keshava Building , Bandra Kurla Complex , Bandra (E) , Mumbai – 400 051
13	E-mail address	<a href="mailto:raorv@pcra.org">raorv@pcra.org</a> , <a href="mailto:venugopalarao@bharatpetroleum.in">venugopalarao@bharatpetroleum.in</a>
14	Telephone numbers . with STD Code (R) (O) Mobile no:	022 25996344 26590051 9869026344
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	1978
16	Year of commencement of energy audit of the firm	1978
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	N.A

18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Mumbai  Address : M/s. Petroleum Conservation Research Association (PCRA) C – 5 , Keshava Building , Ground Floor, Bandra Kurla Complex , Bandra (E) , Mumbai – 400 051
<b>C</b>	<b>Details of Associated Energy Experts</b>	
19	Number of resource persons available	Approx.30
20	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm	Approx.30
	II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.	<ol style="list-style-type: none"> <li>1.RVG Rao, Dy Director , PCRA , Mumbai</li> <li>2.Rajesh Baghelkar, Jt Dir ,PCRA,Mumbai</li> <li>3. P.K. Sinha , Addl. Dir , PCRA, Mumbai</li> <li>4.A.D. Vyawahare , Addl Dir ,PCRA , Mumbai</li> <li>5. R.B. Mane , Addl Dir , PCRA , Mumbai</li> <li>6. R. Balani , Addl. Dir , PCRA , Mumbai</li> <li>7. Shashank Herlekar , Addl. Dir , Mumbai</li> <li>8. S. Padhye , Jt. Dir , PCRA, Mumbai</li> <li>9. R.L. Tailor , SRO , Pune</li> <li>10. Capt V.K. Bariwal , SRO , Ahamedabad</li> <li>11. Ashok Manwatkar , SRO , Nagpur</li> </ol>
21	Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception	Iron & Steel / Chloro- Alkali / Power Plants / Petroleum & Petro Chemicals / Natural Gas Processing / Pharma Industries / Dairy / Hotel / Office & Buildings , Forging etc.,

22	Subject wise expertise	Thermal , Electrical , Pneumatic , Process
(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	
(b)	Energy audit thermal utility system (list sectors)	Iron & Steel / Chloro- Alkali / Power Plants / Petroleum & Petro Chemicals / Natural Gas Processing / Pharma Industries / Dairy / Hotel / Office & Buildings , Forging etc.,
(c)	Energy audit electrical utility system (list sectors)	Iron & Steel / Chloro- Alkali / Power Plants / Petroleum & Petro Chemicals / Natural Gas Processing / Pharma Industries / Dairy / Hotel / Office & Buildings , Forging etc.,
23	Instruments available	
	(a) Electrical (list the name of the instruments)	<ol style="list-style-type: none"> <li>1. 3 Phase Power Analyzer</li> <li>2. Single Phase Load Manager</li> <li>3. Ultrasonic – Liquid Flowmeter</li> <li>4. Digital Lux Meter</li> <li>5. Ultrasonic Leak Detector</li> <li>6. Digital Tachometer</li> <li>7. Stop Watch</li> <li>8. Digital Thermo Hygrometer</li> <li>9. Thermo Anemometer</li> </ol>
	(b) Thermal (list the name of the instruments)	<ol style="list-style-type: none"> <li>1.Flue Gas Analyzer</li> <li>2.Non- Contact Type Temperature Indicator</li> <li>3.Contact Type Temperature Indicator</li> <li>4.Steam Trap Monitor</li> <li>5.Pyrometer</li> </ol>
24 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	International Hands-On Training on Energy Audit for Energy Professionals in Developing Countries – 4 – 10 May'2011 , JNPT , New Mumbai , India (Copy of Certificate is Atta)

(ii)	Seminar on “Energy Conservation & Energy Efficiency” at Pidilite Industries , Mumbai on 19.11.2012 ( Copy of Certificate is Attached).
(iii)	Training on Energy Conservation Techniques for Executives of M/s. Cipla , Kurkumbh , Pune on 11.10.2012 (Copy of Certificate is Attached).
(iv)	Faculty to Workshop (W/S) on Energy Managers at M/s. Aditya Birla Group at Gyanodaya , Navi Mumbai on 10 <sup>th</sup> July’2012 (Copy of Certificate is Attached).
(v)	Seminar on “Energy Conservation & Energy Efficiency “ for Patalaganga Industries Association at Reliance Auditorium , Patalaganaga on 08.02.2011
(vi)	Training Program on “Energy Conservation Techniques for ONGC Officers & Staff “ in Jan’2011
(vii)	Seminar on “Energy Conservation & Energy Efficiency “ for Engineers / Managers of DTSP , Dhanu on 15.02.2011 ( Copy of Certificate is Attached).
(viii)	Seminar on “Energy Conservation & Energy Efficiency” for Sociey of Power Engineers , Vadodara on 14.12.2011 ( Copy of Certificate is Attached).
(ix)	Delivered a Lecture on World Energy Conservation Day at NPCIL , Tarapur Atomic Energy Power Station , Tarapur on 14.12.2010 ( Copy of Certificate is Attached).
(x)	Seminar on “Energy Conservation & Energy Efficiency “ organized for mEngineering Students of J T Mahajan College of Engineering , J T MCOE Auditorium , Bhusawal on 27.09.10 ( Copy of Certificate is attached).

D	Remarks( if any)
	<p>1. Publishing a Hand Book Titled on " Energy Conservation &amp; Energy Efficiency in Pharma Sector" ( Draft Book is ready with Petroleum Conservation Research Association (PCRA) , New Delhi &amp; Expected to be released in Jan'2014).</p> <p>2. Major Energy Audits Completed since 2010 is 19 No s</p> <p>Savings Identified : 16342.62 KLOE</p> <p>Savings Realized thru Follow-up EA s : 9447.86 KLOE</p> <p>3. Implementation of EnMS :ISO :50001 :2011</p> <p>Providing Consultancy Services for the Implementation EnMS: ISO 50001:2011 for M/s. Bharat Petroleum Corporation Ltd., Mumbai Refinery at Mumbai &amp; BPCL LPG Terminal at Uran , Navi Mumbai (both projects first of its kind in our Country in Petroleum Refinery Sector).</p> <p>4. Publishing Articles :</p> <p>Successful case studies in "Energy Conservation &amp; Efficiency in Office &amp; Commercial Buildings " to be published in Active Conservation Techniques (ACT) PCRA Quarterly Journal ( submitted on 24<sup>th</sup> Sep'2013).</p> <p>5. Overseas Training ( Energy Conservation Center , Japan )</p> <p>Attended "The Training Program in Japan on Energy Conservation For India ( ECIN 5 ) from 09<sup>th</sup> Sep – 19 Sep'2008 at Japan( certificate copy attached).</p> <p>6. Chief Mentor for "International Hands –On Training on Energy Audit for Energy Professionals in Developing Countries" from 4 – 14 May'2011 , JNPT , New Mumbai , India ( certificate copy attached).</p>

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