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

<table>
<thead>
<tr>
<th>Serial Number (AEA-0228)</th>
<th>As on 26/6/2015</th>
</tr>
</thead>
</table>

**A.**

<table>
<thead>
<tr>
<th></th>
<th>Name of accredited energy auditor</th>
<th>Shri Durgaji Bonam</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Father’s name</td>
<td>BONAM KRISHNA</td>
</tr>
<tr>
<td>2</td>
<td>Date of certification as Energy Manager</td>
<td>1st Feb’13</td>
</tr>
<tr>
<td>3</td>
<td>Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”</td>
<td>17th Jan’13</td>
</tr>
<tr>
<td>4</td>
<td>Examination Registration Number of (i) Energy Manager</td>
<td>EA-17058</td>
</tr>
<tr>
<td>5</td>
<td>Certificate Registration Number of (i) Energy Manager</td>
<td>7191</td>
</tr>
<tr>
<td>6</td>
<td>Date of issue of accreditation certificate</td>
<td>(to be filled by BEE)</td>
</tr>
</tbody>
</table>

**B.**

**Information in respect of trade name or firms’ name**

<table>
<thead>
<tr>
<th></th>
<th>Trade name / firms name under which energy audit is proposed to be conducted</th>
<th>National Productivity Council 10-E, Gaganvihar, M.J.Road, Hyderabad – 500 001</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Date of accreditation as accredited energy auditor</td>
<td>(to be filled by BEE)</td>
</tr>
</tbody>
</table>

<p>|   | Date of accreditation as accredited energy auditor | (to be filled by BEE) |</p>
<table>
<thead>
<tr>
<th></th>
<th>Type of firm/ private/ Government / NGO etc.</th>
<th>GOVERNMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address (All details compulsory)</td>
<td>Shri Harbajan Singh, IAS Director General, National Productivity Council Utpadakta Bhavan, 5-6 Institutional Area, Lodhi Road New Delhi – 110 003 Phone: 011-24690331; Fax: 011-24615002 Email: <a href="mailto:dgnpc@npcindia.gov.in">dgnpc@npcindia.gov.in</a></td>
</tr>
<tr>
<td>12</td>
<td>Professional postal address with Pin Code of the accredited energy auditor</td>
<td>National Productivity Council, 10-E, Gaganvihar, M.J.Road Hyderabad – 500 001</td>
</tr>
<tr>
<td>13</td>
<td>E-mail address</td>
<td><a href="mailto:durgaji.bonam@npcindia.gov.in">durgaji.bonam@npcindia.gov.in</a>; <a href="mailto:durgajibonam@outlook.com">durgajibonam@outlook.com</a>;</td>
</tr>
<tr>
<td>14</td>
<td>Telephone numbers with STD Code (R) (O) Mobile no:</td>
<td>(O): 040-24733473 (M): +91 9493811719</td>
</tr>
<tr>
<td>15</td>
<td>Year of establishment of the trade name / firms’ name for undertaking the energy audit</td>
<td>1958 as National Productivity Council, under Societies Act, under Ministry of Commerce &amp; Industry, Govt. of India</td>
</tr>
<tr>
<td>16</td>
<td>Year of commencement of energy audit of the firm</td>
<td>1976</td>
</tr>
<tr>
<td>17</td>
<td>Whether any certificate to support the excellence in the system has been obtained (ISO etc.)</td>
<td>YES (ISO 9001:2008); NPCs Hyderabad Regional Professional Management Group</td>
</tr>
<tr>
<td>18</td>
<td>No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)</td>
<td>1 Head Quarters and 12 Regional Offices:</td>
</tr>
</tbody>
</table>
|   |   | - **Head Quarters : New Delhi**  
|   |   | Shri Harbhajan Singh, IAS  
|   |   | Director General  
|   |   | National Productivity Council  
|   |   | Utpadakta Bhavan, 5-6 Institutional Area, Lodhi Road, New Delhi – 110003  
|   |   | Phone: 011-24690331  
|   |   | Email:npcinfo@npcindia.gov.in |
Fax: 011- 24615002

**Regional Office: BENGALURU**
Sh. P. Dharmalingam  
Director & Group Head  
National Productivity Council  
2nd Floor, Abhaya Complex  
KSDB Building, 55, Risaldr Street  
Seshadripuram, Bangalore 560 020  
Tel: 080-23467294 / 95  
Fax: 23467296  
Email: bngnpc@gmail.com  
bangalore@npcindia.gov.in

- **Regional Office : BHUBANESWAR**  
  Sh. B. Girish  
  Sr. Deputy Director & Group Head  
  National Productivity Council  
  A/7, Surya Nagar, Bhubaneswar – 751003, Odisha  
  Tel : 0674 2397381/26,  
  Fax : 0674 2397380  
  Email npcbbs@bsnl.in

- **Regional Office : CHANDIGARH**  
  Sh. G. Saravanan  
  Director & Group Head  
  National Productivity Council  
  SCO 40 (1st Floor), Sector-7 C  
  Madhy Marg, Chandigarh – 160019  
  Tel : (O) 2794108, 2794110  
  Fax : (0172) 2794109  
  Email npc-chd@chd.nic.in

- **Regional Office & Training Center: CHENNAI**  
  Sh. K.V.R. Raju  
  Director (AIP) & Group Head  
  National Productivity Council  
  No. 6, SIDCO Indl. Estate Amabattur  
  Chennai, Tamil Nadu – 600098  
  Tel : (O) 26255216, 26251808,  
  26254904 (R) 24844521  
  Fax : (044) 26254904/26255012
<table>
<thead>
<tr>
<th>Regional Office</th>
<th>Address Details</th>
</tr>
</thead>
</table>
| GANDHINAGAR     | Sh. Shirish Paliwal  
Director & Group Head  
National Productivity Council  
E – 5, GIDC, Electronic Estate, Sector 26, Gandhinagar, Gujarat – 382028  
Tel : (O) 079-23287344, 23287345  
Fax : 079-23287443  
Email gandhinagar@npcindia.gov.in |
| GUWAHATI        | Sh. S. Malik  
Director & Group Head  
National Productivity Council  
Rajgarh Road, P.B. No. 32, Ulubari  
P.O. Guwahati, Assam – 781 007  
Tel : (O) 2453396, 2451896  
Fax : (0361) 2450160  
Emailnpcghy@gmail.com |
| HYDERABAD       | Sh. D. Sreenivasulu  
Deputy Director & In-Charge  
National Productivity Council  
10th Floor, Eastern Wing  
Gagan Vihar Complex,  
M.J. Road, Nampally  
Hyderabad, Andhra Pradesh -500001  
Tel : (O) 040-24733473  
Fax: 040-24606981  
Emailnpc.ap@nic.in |
| JAIPUR          | Sh. C. Narendra  
Director & Group Head  
National Productivity Council  
SB-96, Jawahar Lal Nehru Marg, Bapu Nagar, Jaipur – 302 004  
Tel : (O) 2702935/9871323220  
Fax : (0141) 2703573  
Email npcjaipur@rediffmail.com |
| KANPUR          |                      |
Sh. R. Dubey  
Director & Group Head  
National Productivity Council  
4th Floor, Kabir Bhavan  
(U.P.H.C. Ltd.’s building, Directorate of Industries (U.P.) Campus)  
G.T. Road Kanpur – 208 002  
Phone: 0512-2224176  
Tele-Fax: 0512-2224177, 3025735  
Email: npckanpur@bsnl.in

- **Regional Office: KOLKATA**  
  Shri A.K. Sinha  
  Director- Business Generation & Group Head  
  National Productivity Council  
  9, Syed Amir Ali Avenue, Park Circus, Kolkata, West Bengal – 700017  
  Tel: (O) (033)-22876069, 22873116  
  Fax: (033) 22873919  
  Email – ak.sinha@npcindia.gov.in, npckol@dataone.in

- **Regional Office: MUMBAI**  
  Sh. T. Shankarnarayanan  
  Director & Group Head  
  National Productivity Council  
  Novelty Chambers, 7th Floor, Grant Road, Mumbai, Maharashtra – 400007  
  Tel: (O)23002924, 23071322 (R) 0251-2400561 Fax: (022) 23073323  
  Email : npcmum@vsnl.net; npcmumbai@mtnl.net.in

- **Regional Office: PATNA**  
  Sh. P.R. Upadhyay  
  Director & Group Head  
  National Productivity Council  
  2nd Floor, Sudama Bhawan  
  Boring Road Crossing, Patna, Bihar – 800001  
  Tel: (O) 6122572311  
  Fax: (0612) 2572577  
  Email: npcpat@sify.com
<table>
<thead>
<tr>
<th>C</th>
<th>Details of Associated Energy Experts</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Number of resource persons available</td>
</tr>
<tr>
<td>20</td>
<td>I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm</td>
</tr>
</tbody>
</table>
| | | 1. **R.Virendra**  
Dy. Director General  
33 years experience with the firm  
Key Qualification:  
- B.Tech. (Chemical Engineering),  
- Post Graduate Diploma in Energy Management.  
- BEE Accredited Energy Auditor  
Experience:  
33 years experience as Consultant and Trainer in Energy Management & conservation. Few of the major assignments undertaken as team leader are:  
- Held the position of ‘Controller of Examinations’ and Head of Dr.Ambedkar Institute of Productivity, NPC, Chennai, which conducts the Energy Managers/Energy Auditors National Certification Examinations on behalf of Bureau of Energy Efficiency, New Delhi  
- Accelerated Power Development and Reforms Project of MoP, GoI in states of Himachal Pradesh, Assam and West Bengal  
- BEE National Level assignment on assessment of energy Conservation Potential in Four sectors (Agricultural Pump sets, Municipalities, Buildings, SME) for the 28 states and 7 union territories  
- BEE’s PAT (Perform Achieve and Trade) Baseline Energy Audits for Cement Sector as well as Power sector for the groups allotted to NPC.  
- Cleaner Production – Energy Efficiency Studies for UNEP, Paris  
- Post Graduate certificate course on Energy Management for 11th Batch Energy Management Trainees of National Productivity Council  
- Regular faculty at NPC’s Post Graduate programme on Energy Management  
- Designated as a National Expert in Energy Efficiency by Energy Management Centre, Delhi, India  
| | 2. **A.K.Sinha** |
Director (Energy Management)  
29 years experience with the firm  

**Key Qualification:**  
- Graduate Degree of Engineering, National Institute of Technology, Durgapur, 1972-1977  
- Accredited Energy Auditor  

**Experience:**  
- Transmission & Distribution Studies – APDRP – at Assam, WB  
- Carried out shop floor productivity improvement assignment, Energy efficiency & conservation, Resource conservation, heat rate and auxiliary power consumption reduction for various industrial sector as well as power sector such as -  
  - Thermal Power Stations (DVC, NTPC)  
  - Engineering Units  
  - Paper Units  
  - CP Plants (IOCL)  
  - Pharmaceuticals Industries  
  - Chemicals Industries (MCC PTA)  
  - Paints Units  
  - Steel Foundry  
  - Rolling Mills  
  - Jute Industries  
  - Tea  
  - 12 Edible Oil & Vanaspati Units  
- BEE sponsored study for assessment of Energy consumption and Energy conservation in 4 sectors (involved in Municipal Sector)  
- Techno-economic viability study at Dunlop India Limited Kolkata  
- Design of Cathodic protection at Gujarat Heavy Chemicals, Veraval  
- Thermal Insulation Survey under Comprehensive energy audit at  
  - NTPC-SAIL Power Company Ltd. Durgapur  
  - NTPC-SAIL Power Company Ltd. Bhilai  
  - Damodar Valley Corporation Durgapur  
  - Damodar Valley Corporation Bokaro

3. **Anupom Chakraborty**  
Sr.Deputy Director (EM)  
25 years experience with the firm  

**Key Qualification:**  
- Bachelor Degree in Mechanical Engg.- Assam Engineering College  
- TIPIE (now AIP), Chennai - Two- Yr. PG Certificate in Energy Mgmnt.)
Japan Productivity Center, Tokyo – One month Trg. Certificate on’ Environment Protection & Resource Conservation’

Experience:
• Bongaigaon T. P. S. under ASEB - July’81 to Nov’83, Assistant Engineer (O & M)

• Performed duties as adviser cum consultant as team leader for the entire APDRP project in the circle of 24 PGs (South), West Bengal State Electricity Board (WBSEB) during end of 2001.

• Responsibility: Under the project, the AcC activities included DPR preparations, BID document preparations, assisting the state utilities, awarding the contracts, monitoring the construction/implementation activities of various schemes as per the provision of DPR.

4. P.Dharmalingam
   Director
   21 years experience with the firm

Key Qualification:
• BEE Accredited Energy Auditor
• B.Tech (Hons)Mech, Spl-Automobile Engg Madras Institute of Technology
• PGDEM (Post Graduate Professional Course in Energy Management) TIPIE,Chennai
• M.S (Software Systems-Spl Energy Mgmt) BITS, Pilani
• ADM - (Business Administration) AIMA
• DIM (Industrial Management) Symbiosis Institute,Pune

Experience:
• Consulting assignments in Energy Audit & Energy Efficiency for Industries (Direct users):
• Executed more than 200 assignments covering Process, Engineering & Service industry. The sectors covered are Refineries, chemical, textiles, dairy, paper, sugar, tyre, steel, cement, fertilizers, pumping, oil & gas processing, automobiles, railways, power plant, large hotel and commercial buildings
• 25 years experience as Consultant and Trainer in Energy Management & conservation
• Cleaner Production Energy Efficiency manual for Greenhouse gas Emission Reduction in Industry in Asia Pacific (GERIAP),UNEP,2000 A Manual was prepared for training of trainers to the needs of nine countries in Asia pacific region under UNEP Project.
• Performance assessment of Biomass power generationCogeneration project in India,
Supported by MNRE, GOI, New Delhi

- Performance assessment and efficiency improvement in Heat & Power consuming equipments namely, Steam Generators, Waste Heat Boilers, Process/Fired Heaters
- Energy audit and Performance assessment in Refrigeration, Compressed Air, Cooling Water System, water pumping, fan system and Lighting system.
- Energy optimisation in process, process integration
- Thermal Power Station and Transmission & Distribution
- Thermal Insulation & Steam Trap Survey
- Captive Power & Co-Generation – Steam & Gas Turbine plant: Evaluation & Improvements
- Fuel/steam and power optimisation applicable to large continuous process plants
- Electrical Demand side Management
- Water audit and conservation
  Application of metering & monitoring system and Energy Efficient equipments

5. H. Raghavendra Prabhu
   Director
   23 years experience with the firm
   **Key Qualification:**
   - B.Tech. (Mechanical Engineering),
   - Post Graduate Diploma in Energy Management.
   - Post Graduate Programme in Management (M.B.A. Equivalent) in Production & Operations Management, All India Management Association, New Delhi
   - Accredited Energy Auditor (AEA) by Bureau of Energy Efficiency (BEE), Govt. of India.
   **Experience:**
   - 22 years of experience in training and consultancy in different energy intensive sectors.
   - A unique combination of service in Energy Management & Audit, Production and Operations Management, and also in Training & Development with rich experience of Consulting and Training.
   - Carried out more than 250 Energy Audit and Conservation studies in large and medium industries in different sectors such as Dairy, Mining, Pharmaceutical, Building, Automobile, Pulp & Paper, Chemical, Textile, re-rolling, Forging etc. Also done projects in Industrial Engineering discipline.
   - Imparted training to more than 4000 senior and middle level executive of various public and
private organizations such as GAIL, ONGC, NTPC State Electricity Board, Hero Honda, Karnataka Power Corporation & Indian Railways through national level inter-company training programme and in-company training programme.

6. B.P. Bhandary
   Director (EM)
   23 years experience with the firm

Key Qualification:
   • Bachelor of Engineering (Mechanical), Osmania University, Hyderabad (1986).
   • Master in Financial Management, JBIMS, Mumbai University (1997)
   • Certified Energy Auditor

Experience:
   • Performance assessment of 4 X 250 MW Hydro-electric Power Plant of Theri Hydro Development Corporation
   • Consulting assignments in Energy Audit, Energy Efficiency & Technical Audit
   • 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.
   • Implementation and Monitoring of the projects under APDRP in select circles of ASEB.
   • Assessing the performance of several biomass based Power Plants for availing Capital Subsidy from Ministry for New & Renewable Energy (MNRE).
   • Thermal Insulation & Condensate recovery system.
   • Energy optimisation in process.
   • Captive Power & Co-Generation – Steam & Gas Turbine plants.
   • Fuel/steam and power optimisation in large continuous process plants.
   • Electrical Demand Management
• Application of metering & monitoring system and Energy Efficient equipments
• Capacity Building and Training Programmes

7. T.S.Narayan
   Director
   26 years experience with the firm
   Key Qualification:
   • B.Tech. (Electrical & Electronics Engineering),
   • Post Graduate Diploma in Energy Management.
   • BEE Accredated Energy Auditor
   Experience:
   • Executed more than 120 assignments covering Process, Engineering & Service industry. The sectors covered are textiles, dairy, paper, fertilizers, petroleum product pumping, oil & gas processing, automobiles, railways, power, large luxury hotel and commercial buildings.
   • Technical audit of Repair & Maintenance of MSEB Thermal Power Station and Transmission & Distribution Circles
   • Thermal Insulation & Steam Trap Survey
   • Energy optimisation in process
   • Captive Power & Co-Generation – Steam & Gas Turbine plants
   • Fuel/steam and power optimisation applicable to large continuous process plants
   • Electrical Demand Management
   • Application of metering & monitoring system and Energy Efficient equipments

8. R.Suryanarayan
   Director
   22 years experience with the firm
   Key Qualification:
   • BEE Accredated Energy Auditor
   • B.Tech. (Mechanical Engg.) Anna University
   • Post Graduate Diploma in Energy Management-National Productivity Council, Chennai
   • National Productivity Council, Chennai- M.S (Software Systems)
   Experience:
   • 21 years experience as Consultant and Trainer in Energy Management.
   • Energy Conservation & energy Efficiency in Industry
sector
- Technology Application & Diagnostic Studies
- Technology Assessment / Needs
- Thermal Power Plant Auxiliary Energy use optimization studies
- Functioned as a Chief Consultant and a specialist in Energy Efficiency improvement studies and energy audit in a wide spectrum of industries including recent ones:
  - Environments Audits & monitoring at NTPC, RSTPS.
  - Faculty in Drum Training Program (Andhra Pradesh State Electricity Board)
- Sectoral Energy Audits for Deptt. of Power.
- Assessment of Cogeneration potential in India.

9. P. Chitra
Asst. Director
6 years experience with the firm
Key Qualification:
- M.E. (BioEnergy)
- PGDCA - PG Diploma in Computer Application
- B.E. (Agricultural Engineering)
- Accredited Energy Auditor (BEE)

Experience:
- 1 year as Asstt. Director (Energy Mgt.) in AIP, NPC, Chennai in.
- 1 year 11 months and 16 days as Sr. Research Fallow in Department of Bio-Energy, AEC&RI, Tamil Nadu Agricultural University (TNAU), Coimbatore.
- 5 months and 13 days as Sr. Research Fallow in Forest College & Research Institute, Mettupalayam, TNAU.
- 2 years, 1 month and 4 days as JRF in Department of Agricultural Food Process Engineering, TNAU, Coimbatore.

10. Prashant Srivastava
Asst. Director
6 years experience with the firm
Key Qualification:
- B.Tech (Chemical Engineering),
- BEE Certified Energy Auditor

Experience:
Detailed Energy Audit study of various types of companies includes the following
   (i) M/s Oberoi Hotels – all over India
   (ii) M/S PVR Cinemas – all over India
   (iii) M/s Continental Carbon India Ltd,
Ghaziabad

(iv) M/s Tata Teleservices Ltd, New Delhi
(v) M/S Radico Khaitan Limited, Rampur (U.P.)

Under the project **Process Integration and Optimization in Pulp and Paper Industry – X five Year Plan Project**, a “Detailed Energy Audit, Performance Evaluation and Optimization studies” was conducted in the following four Pulp & Paper mills:

(i) M/s Mysore Paper Mill, Bhadravati, Karnataka
(ii) M/s Cachar Paper Mill, Panchgram, Assam
(iii) M/s Nagaon Paper Mil, Jagi Road, Assam
(iv) M/s Bilt, Unit: Shri Gopal, Yamunanagar

**Other Energy Audits of Interest:**

**Brief Overview:** Under the provision of Energy conservation act 2001, energy audit for buildings above 500 kW of connected load were made mandatory. On this regard, being in NPC I was privileged to carry out energy audit of prestigious government buildings viz:
- Mini Secretariat, Chandigarh,
- Vidhansabha, Dehradun
- Secretariat, Dehradun
- Aayakar Bhawan, Dehradun
- Tel Bhawan, Dehradun
- Lal Bahadur Shastri Academy, Mussorie

11. D. Rajnikant
   Dy. Director
   8 years experience with the firm

   **Key Qualification:**
   - B.Tech (Chemical Engineering),
   - Post Graduate Diploma in Energy Management
   - BEE Accredited Energy Auditor

   **Experience:**
   **MAJOR PROJECTS EXECUTED – Few key projects at a glance**

1. Key team member in work executed by NPC in APDRP Project
2. Energy audit at Ferozabad Glass Industries
3. Capability Assessment of SDA for implementation of EC Act 2001
4. Energy Audit At Delhi International Airport
5. Development Of PDD for Large Scale Biomass Based Grid Connected Power Plant From India
6. GERIAP (Greenhouse Emission Reduction from Industry in Asia & Pacific) Project
12. Durgaji Bonam
Asst. Director
5 years experience with the firm
Key Qualification:
- B.Tech. (Chemical),
- M.E. (Chemical Engg.),
- Post Graduate Certificate Program in Energy Management.
- BEE Certified Energy Auditor
Experience:
Key team member in the various National level assignments such as BEE’s study to assess the Energy Consumption and Conservation Potential in sectors like Commercial, Agricultural, Municipal and SME sector through out Country.
BEE/EESL PAT (Perform Achieve and Trade) Baseline Energy Audits for the Cement Plants.
Conducted Energy Audits at various Thermal Power Plants, Cements Plants etc., such as NTPC Ramagundam, NTPC Simhadri, NSPCL Bhilai, Cement Corporation of India, Ordnance Factories, Security Printing Press.
Faculty for USAID sponsored DRUM programs for Electrical Utilities, Boiler Directorates, BEE, NEDCAP, NMDC training programs
Training Programs : Energy conservation and efficiency, Demand side Management, APDRP, Energy audit in Power plant audits, process industries PAT scheme

II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.

21 Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception
Subject wise expertise

- **Aluminum** - RV, AC, BN, AKS
- **Buildings** (Hospitals, Hotels, Malls, Schools, Tourist Offices) - RV, AKS, TSN, PB, BD, PKR, VV, PC, PS, AM, SK, BR
- **Chemicals Inorganic** - RV, TSN, PB, GG, AKS, HRP
- **Chemicals Organic** - RV, TSN, PB, GG, AR, AKS, HRP
- **Cement** - RV, TSN, PB, GG, DRK, BD, PKR, HRP
- **Chloralkali** - RV, TSN, PR, AKS, HRP
- **Dyes** - RV, TSN, PB, RS, GG, AR, HRP, AKS
- **Engineering** - RV, AKS, TSN, GG, PB, HRP, DB, PKR
- **Frabraction** - RV, AKS, TSN, GG, PB, HRP, DB, PKR
- **Glass, Ceramic & Tiles** - RV, AKS, TSN, GG, PB, HRP, DB
- **Iron & Steel** - RV, AKS, HRP, PD, DB, VV
- **Fertilizers** - RV, TSN, PD, AKS
- **Jute** - RV, AKS, PB, TSN, PD, AKS
- **Lamination** - RV, AKS, PB, TSN, PKR, DB
- **Mineral Ores** - RV, AKS, TSN
- **Mining** - RV, AKS, TSN
- **Naval Vessels** - RV, AKS, TSN
- **Pulp & Paper** - RV, AKS, TSN, HRP, PD, DB
- **Pharmaceuticals** - RV, AKS, TSN, HRP, PD, DB
- **POWERPLANTS - RV, AKS, TSN**
  - HRP, HRP, AC, AR, DB, GG, BD, PKR, PD, PS, BR, AM, SK
- **Railways** - RV, AKS, TSN, PB, PC
- **Roadways** - RV, AKS, TSN, PB, PC
- **Tea Estates** - RV, AKS, AC, AR, HRP, PB, TSN
- **Transmission & Distribution** - RV, AKS, AC, AR, HRP, PB, TSN

RV - R. VIRENDRA, Director
AKS - A.K. SINHA, Director
AM - ALOK MITTAL, Dy. Director
TSN - T. SANKAR NARAYANAN, Director
SK - SUNIL KUMAR, Dy. Director
PB - P. BHANDARI, Dy. Director
AC - ANUPAM CHAKRAVORTHY, Dy. Director
PD - P. DHARMALINGAM, Director
BD - B. DURGAJAJI, Asst. Director
HRP - H.R. PRABHU, Director
PKR - PAVAN KUMAR RYALI, Asst. Director
VR - VIPIN ROPHILLA, Asst. Director
PC - P. CHITRA, Asst. Director
VV - V. VELAYUTHAM, Asst. Director
RS - R. SURYANARAYANAN, Dy. Director
CK - CHANDRA KUMAR, Asst. Director
GG - G. GOPINATHAN, Asst. Director
AN - AVJIT NAYAK, Asst. Director
AR - AMITAVA RAY, Dy. Director
KM - K. MALLICK, Asst. Director
DRK - D. RAJANIKANT, Dy. Director
DM - D. MISHRA, Asst. Director
PS - PRASANTH SRIVATSAV, Asst. Director
AV - ANAND VARMA, Asst. Director
JK - Jitin KAPOOR, AssT. Director  
NY - NAKUL YADAV, Assst. Director

| (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 | • Aluminum Production Process  
• Cement Production Process  
• Textiles Production Process  
• Iron & Steel Production Process  
• Fertilizers Production Process  
• Pulp & Paper Production Process  
• Sugar Production Process  
• Pharmaceuticals Production Process  
• Dyes & Chemicals Production Process |

| (b) Energy audit thermal utility system (list sectors) | • Aluminum  
• Buildings (Hospitals, Hotels, Malls, Schools, Tourist Offices)  
• Chemicals Inorganic  
• Chemicals Organic  
• Cement  
• Chloralkali  
• Dyes  
• Engineering  
• Fabrication  
• Glass, Ceramic & Tiles  
• Iron & Steel  
• Fertilizers  
• Jute & Jute products  
• Lamination Industries  
• Mineral Ores  
• MiningIndustries  
• Naval Vessels  
• Pulp & Paper  
• Power Plants  
• Pharmaceuticals  
• Railways  
• Roadways  
• Tea Estates  
• Transmission & Distribution |

| (c) Energy audit electrical utility system (list sectors) | • Aluminium  
• Chemicals Inorganic  
• Chemicals Organic  
• Cement  
• Chloralkali  
• Dyes  
• Engineering  
• Fabrication  
• Glass, Ceramic & Tiles  
• Iron & Steel  
• Fertilizers  
• Jute  
• Lamination  
• Mining |
| 23 | Instruments available | - Power Analyser  
- Lux Meter  
- Strobo Scobe  
- I R Thermo Gun  
- Flue Gas Analyser with Probe  
- Manometer and Pitot Tube  
- Anemo Meter  
- Hygro Scope  
- Ultra Sonic Water Flow Meter with Transducers  
- K-Type Thermometer and Thermo couple |
|---|---|---|
|   | (a) Electrical (list the name of the instruments) | - Power Analyser  
- Lux Meter  
- Strobo Scobe |
|   | (b) Thermal (list the name of the instruments) | - I R Thermo Gun  
- Flue Gas Analyser with Probe  
- Pitot Tube and Digital Manometer  
- Anemometer  
- Hygro scope  
- Ultra Sonic Water Flow Meter with Transducers  
- K-Type Thermometer and Thermo couple |
| 24 | Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit | Regional Workshops on “Efficient Operation and Maintenance of Boilers” in Hyderabad, Tirupathi, Visakhapatnam, Vijayawada, Rajahmundry.  
Preparatory Training Course for Candidates appearing in 12th BEE National Certification Examination for Energy Auditors and Energy Managers.  
Preparatory Training Course for Candidates appearing in 13th BEE National Certification Examination for Energy Auditors and Energy Managers. |
Preparatory Training Course for Candidates appearing in 14th BEE National Certification Examination for Energy Auditors and Energy Managers.


NREDCAP sponsored Workshop on Energy Conservation for various stake holders like Building Maintenance Managers, People working in Process Industries, College students etc.

Training program on Energy Conservation and Auditing for the Singareni Coal Collieries Ltd. Kothagudem

Training Program on Energy Conservation for Indian Maritime University, Visakhapatnam

Workshop on Best Practices in GHG Emission Assessment and Reduction in Cement Industries.

(ii)

(iii)

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