### Annexure -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- 0245)</th>
<th>As on:- 19/10/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.</strong></td>
<td></td>
</tr>
<tr>
<td>1 Name of accredited Energy Auditor</td>
<td>Sanjay Tyagi</td>
</tr>
<tr>
<td>2 Father’s name</td>
<td>Shri R.L. Tyagi</td>
</tr>
<tr>
<td>3 Date of Certification as Energy Manager</td>
<td>7&lt;sup&gt;th&lt;/sup&gt; Feb 2013</td>
</tr>
<tr>
<td>4 Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”</td>
<td>April 2006</td>
</tr>
<tr>
<td>5 Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”</td>
<td>EA 1346</td>
</tr>
<tr>
<td>7 Date of Issue of accreditation certificate</td>
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<tr>
<th><strong>B.</strong> Information in respect of trade name or firms’ name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Trade Name / Firms name under which energy audit is proposed to be conducted</td>
</tr>
<tr>
<td>9 Date of accreditation as accredited energy auditor</td>
</tr>
<tr>
<td>10 Type of firm / Private / Government / NGO etc.</td>
</tr>
<tr>
<td>11 Name of contact person along with</td>
</tr>
</tbody>
</table>
| Designation, address, telephone, mobile and fax number along with STD codes and email address (All details compulsory) | Director, (Officiating)  
Central Pulp and Paper Research Institute, Saharanpur  
0132-2714050, 0132-2714052 (Fax)  
Email: director.cppri@gmail.com |
|---|---|
| **12** | **Professional postal address with PIN Code of the accredited energy auditor**  
Central Pulp and Paper Research Institute  
Paper Mill Road, Saharanpur - 247001 |
| **13** | **E-mail address**  
styagi.cppri@gmail.com |
| **14** | **Telephone numbers with STD Codes**  
0132-2714059 (Ext-231)  
9412479054 |
| **15** | **Year of establishment of the trade name / firms name of undertaking the energy audit**  
1982 |
| **16** | **Year of commencement of energy audit of the firm**  
1992 |
| **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)  
Central Pulp and Paper Research Institute  
Post Box 174, Paper Mill Road, Himmat Nagar, Saharanpur 247001 (UP), India  
**Base Office**: F-12, 1st Floor, Jangpura Extension, New Delhi – 110014 |

**C**  
**Details of Associated Energy Experts**

| **19** | **Number of Resource Persons**  
23 (Scientists of CPPRI as process expert) |
|---|---|
| **I. Number of Full time energy auditors in position with work experience of all energy auditors associated with the firm.** | **3**  
**Dr. B.P. Thapliyal, Energy Auditor**  
Address: Central Pulp and Paper Research Institute, Paper Mill Road, Himmat Nagar, Saharanpur 247001 (UP), India  
- Over a period of 25 years, worked on various R&D projects, consultancy assignments and provided expert services to Govt. agencies and pulp and paper industries. One patent filed two under process.  
- Have been instrumental as a sector expert for development of policies concerned with energy and environmental technology development strategies.  
- Successful completed various projects sponsored by UNDP, GIZ, BEE- Ministry of Power and Paper Industry.  
- Published 35 research articles in International and National Journals, presented 38 research findings in |
various International and National conferences and prepared more than 50 technical reports/ energy audit reports and training manuals.

- As an energy expert conducted about 50 energy audits and consultancy assignments in pulp and paper industry for resource conservation and product development.

- Carried out various prefeasibility and techno-economic studies for paper industries.

**Shri Alok Kumar Goel, Energy Manager**

Address :- Central Pulp and Paper Research Institute, Paper Mill Road, Himmat Nagar, Saharanpur 247001 (UP), India

- Conducted energy audit/base line energy audit of more than 40 pulp & paper mills
- Assists to BEE in implementation of PAT scheme in Pulp & Paper sector
- Dissemination of energy conservation technique to paper industry personnel’s through training programmes
- Attended three days workshop at Tokyo, Japan on India – Japan workshop for promotion of energy efficiency and conservation capacity building under PAT organized by ECCJ, Japan from 21 – 23 January 2013

- As a sector expert attended the workshop for designated consumers satisfying under PAT scheme in Ahmedabad organized by PCRA and GEDA, March 2013.
- Attended 2 days training programme on energy conservation for India organized by ECCJ and PCRA, Yokohama, Japan 9 – 19 Sept. 2009

**Shri N.K. Naik, Technical Officer B**

Address :- Central Pulp and Paper Research Institute Paper Mill Road, Himmat Nagar, Saharanpur 247001 (UP), India

- Conducted energy audit/base line energy audit of more than 50 pulp & paper mills
- Assists to BEE in implementation of PAT scheme in Pulp & Paper sector
- Dissemination of energy conservation technique to paper industry personnel’s through training programmes
### II. No. of part time energy auditors in position during the current year/ previous year associated with the energy auditor / energy auditors firms

- Conducted Energy audit jointly with PCRA/NCCBM/ FICCI in various mills
- Part time energy auditor employed for audits
  - PCRA – 3
  - FICCI - 2
  - NCCBM - 3

#### 21
- Sectors in which the energy auditor has conducted energy audits since inception
  - Pulp and Paper
  - Cement
  - Sugar Industry

#### 22
- Subject wise expertise
  - Pulp and Paper
  - Cement
  - Sugar Industry

#### (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 it energy audit expertise in the process systems
  - Pulp and Paper

#### (b)
- Energy audit thermal utility system (list sectors)
  - Pulp and paper
  - Sugar Industry

#### (c)
- Energy Audit electrical utility system (list sectors)
  - Pulp and paper
  - Cement

#### 23 Instruments Available

##### (a) Electrical (list the name of the instruments)
- Power analyzer Cry Card ALM - 30
- Fluke Thermal Imager IR Flex Cam
- Lux Meter
- Motor top (Vogelsang & Benning)
- Digital Power line MECO

##### (b) Thermal (List the name of the instruments)
- Hydra Sx 30 DFD Flow meter
- Porta Flow 300 (Micromar Ltd)
- Pressure meter
- Flue Gas Analyser- Quintox
- Non Contact Thermometer
|   | Details of training program/ seminars workshops conducted during the last three years in the field of Energy efficiency / energy audit | - Thickness Guage  
- Thermo polysonic  
- Organized and presented paper in workshop on “Solar Initiatives in pulp and paper industry” organized by GIZ, New Delhi, January 2012.  
- Organized the Cess workshop at New Delhi in the month of August, 2011-12  
- Organized the Cess Training Program on “Energy Management- Issues and Challenges” at TNPL, Kagithapuram (Tamil Nadu)  
- Organized the Cess workshop at Chandigarh, 2013  
- Organized training programme for supervisors/Sr. operators in the area of energy conservation under UNIDO- FICCI joint business partnership programme, Oct 2005 at Kashipur, Uttranchal.  
- Organized training of trainers (TOT) in the area of energy conservation under UNIDO- FICCI joint business partnership programme, Sept 2005 at CPPRI, Saharanpur. |
|   | Advance training in area of Energy Conservation in Foreign Research Institute | One month country focused training course in energy Conservation Techniques for India at Kitakyushy International Techno- cooperative association organized by Japan International Cooperation agency (JICA) under the International Cooperation Programme of Govt. of Japan (Aug. 24, 2009 to Sept, 18, 2009). |
|   | Faculty Member | - Teaching B.Tech Students of (Pulp & Paper Tech.) at Dept. of Paper Technology, IIT Roorkee, (Saharanpur Campus)  
- Teaching M.Sc. Students of (Cellulose paper Technology), |
<table>
<thead>
<tr>
<th>D</th>
<th>Remarks (if any)</th>
</tr>
</thead>
</table>

I hereby state that information furnished above is true and correct to the best of my knowledge.

Place: Saharanpur

Dated: 29th June 2015.

Signature

Name: Dr. Sanjay Tyagi

Designation: Scientist C

For and on behalf of ..................

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