



Energy Management Centre - Kerala
(Department of Power, Govt of Kerala)

CERTIFICATE OF EMPANELMENT

*This is to certify that **M/S. PETROLEUM CONSERVATION & RESEARCH ASSOCIATION (PCRA)**, (PCRA, 1st FLOOR, TMB MANSION, 739, ANNA SALAI, CHENNAI- 600 002) is empanelled as Energy Audit firm in Energy Management Centre Kerala to conduct mandatory energy audit as per Government of Kerala G.O (Rt) No.2/2011/PD dated 01.01.2011.*

Empanelment No:

EMCEEA- 3215 F

| Scope/Area | Building | Industry -Electrical | Industry Thermal |
|------------|----------|----------------------|------------------|
| | Yes | Yes | Yes |

This empanelment is valid up to 5th January 2018

Issuing Date: 06/01/2015


Place: Thiruvananthapuram

Director,
Energy Management Centre Kerala


| Information of firm | |
|---------------------|---|
| 1. | Name & address of the firm PETROLEUM CONSERVATION & RESEARCH ASSOCIATION |
| É | Office(with STD) 044-28418018 |
| | Mobile 9940463137 (Chief Regl Coordinator, Chennai) 9446010450 (SRO-Kochi) |
| | Fax number 044-28521662 |
| 2. | Website (if any) www.pcra.org |
| 3. | Email address a j a n a k i r a m @ p c r a . o r g |
| 4. | Name ,Designation and address of Contact person A JANAKIRAM, Chief Regional Coordinator, PCRA, 1 st FLOOR, TMB MANSION, 739, ANNA SALAI, CHENNAI-600 002 |
| 5. | Office(with STD) 044-28418018 |
| | Residence(with STD) |
| | Mobile 9940463137 |
| 6. | Email address a j a n a k i r a m @ p c r a . o r g |
| 7. | Year of establishment 1976 |
| 8. | Year of commencement of energy audit by the firm. 1984 |
| 9. | No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses) |
| | <ol style="list-style-type: none"> 1. <u>HEAD OFFICE</u> Sanrakshan Bhavan, 10, Bhikaji Cama Place, New Delhi- 110 066 (011-26198856) 2. <u>REGIONAL OFFICE- SOUTH</u> PCRA, 1st FLOOR, TMB MANSION, 739, ANNA SALAI, CHENNAI-600 002 (044-28418018) 3. <u>SUB REGIONAL OFFICES-SOUTH</u> <ol style="list-style-type: none"> a) SRO Kochi 25 E, Jade 1, MIR Realtors, OLIMUGAL, KAKKANAD, KOCHI-682030 (0484-2973922/ 9446010450) b) SRO's at Coimbatore, Bangalore, Belgaum, Hyderabad & Vizakh) |

Details of Associated Energy Experts and Audits Conducted by firm

| | | | |
|----|---|---|---|
| 1. | Number of resource persons available | | 14 |
| 2. | Number of full-time energy auditors in position, with work experience of all energy auditors associated with the firm | | 14 |
| 3. | No. of part-time energy auditors in position during the current year / previous year associated with the firm. | | Nil |
| 4. | Sectors in which the energy audit firm has conducted energy audits since inception and number of audits in each sector | | Across Industry. PCRA-Southern Region alone has done more than 2000 Energy Audits till date. |
| 5. | Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil. | | Refinery/ Power/ Steel/ Milk/ Tyre/ Ceramic etc |
| 6. | Energy audit of thermal utility system (list sectors) | | Refinery/ Power/ Steel/ Milk/ Tyre/ Ceramic etc |
| 7. | Energy audit of electrical utility system (list sectors) | | Industries/ Oil Terminals & Storage Facilities/ Office & Commercial spaces |
| 8. | Instruments available | (a) Electrical (list the name of the instruments) | <ul style="list-style-type: none"> 1) Power analyzers 2) Harmonic Analyzers 3) Thermographs 4) Lux Meter 5) Non contact Tacheo meter |
| | | (b) Thermal (list the name of the instruments) | <ul style="list-style-type: none"> 1) Flue gas analyzers 2) Infrared thermometer 3) Thermal insulation scanner 4) Conductivity meter 5) Thermo hygro meter |


| *Bio data of Certified Energy Auditor | | | |
|---------------------------------------|---|--------------------------------|---|
| 1 | Name of energy auditor | AJITH KUMAR K R |  |
| 2. | Qualifications. | B-TECH (MECH) | |
| 3. | Experience. (use additional sheet if required) | 23 YRS | |
| 4. | Residence(with STD) | -- | |
| 5. | Mobile | 9445434484 | |
| 6 | Email address | ajithkr@pcra.org | |
| 7 | Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) (if not appeared list as nil | 06.01.2014 (Energy Auditor) | |
| 8 | Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems" | 05.12.2013 | |
| 9 | Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" (In case of Certified Energy Auditor, please write CEA Registration No.) | EA-16223 | |
| 10 | Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | 7503 (Provisional) | |
| 11 | Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No. | No. Applied. | |
| Remarks(if any)--Nil | | | |

*please attach bio data of all auditors/managers of your firm.

| *Bio data of Certified Energy Auditor | | | |
|---------------------------------------|---|---|---|
| 1 | Name of energy auditor | RAJESH MOHAN |  |
| 2. | Qualifications. | B.Tech (Chemical) | |
| 3. | Experience. (use additional sheet if required) | 5.5 years in petroleum refinery projects and energy auditing | |
| 4. | Residence(with STD) | 044-28418018 | |
| 5. | Mobile | 9840573279 | |
| 6 | Email address | Rajesh270987@gmail.com , mohanr@pcra.org | |
| 7 | Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) (if not appeared list as nil | 01 st February 2013 | |
| 8 | Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems” | 17 th January 2013 | |
| 9 | Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” (In case of Certified Energy Auditor, please write CEA Registration No.) | EA-15919 | |
| 10 | Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” | 10157(issued by BEE) 7093 (Provisional Certificate by NPC) | |
| 11 | Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No. | Applied for accreditation, Attended interview, Results awaited | |
| Remarks(if any)--Nil | | | |
| | | | |


*please attach bio data of all auditors/managers of your firm.

***Bio data of Certified Energy Auditor**


| | | | |
|-----------------------|---|---|---|
| 1 | Name of energy auditor | SURESH KUMAR M |  |
| 2. | Qualifications. | BE | |
| 3. | Experience. (use additional sheet if required) | 22 years in Oil Industry. Last 1 year in Energy Auditing at PCRA. | |
| 4. | Residence(with STD) | 0484-2973922 | |
| 5. | Mobile | 9446010450 | |
| 6 | Email address | srokochi@pcra.org | |
| 7 | Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) (if not appeared list as nil | 2014 | |
| 8 | Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems" | Not appeared | |
| 9 | Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" (In case of Certified Energy Auditor, please write CEA Registration No.) | EM-6105 | |
| 10 | Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | 6132 | |
| 11 | Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No. | No | |
| Remarks(if any)--Nil | | | |

*please attach bio data of all auditors/managers of your firm.


***Bio data of Certified Energy Auditor**

| | | | |
|-----------------------|---|--------------------------------------|---|
| 1 | Name of energy auditor | MADHAVIAIAH KOTA |  |
| 2. | Qualifications. | M.E. | |
| 3. | Experience. (use additional sheet if required) | 20 yrs with BPCL and 4 yrs with PCRA | |
| 4. | Residence(with STD) | 040-27700066 | |
| 5. | Mobile | +91 96660 74576 | |
| 6 | Email address | kotam@pcra.org | |
| 7 | Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) (if not appeared list as nil | August 2013 | |
| 8 | Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems” | August 2013 | |
| 9 | Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” (In case of Certified Energy Auditor, please write CEA Registration No.) | EA-17270 | |
| 10 | Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” | 11183 | |
| 11 | Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No. | NO | |
| Remarks(if any)--Nil | | | |

*Bio data of Certified Energy Auditor

| | | | |
|-----------------------|---|--|---|
| 1 | Name of energy auditor | Dr. CHANDRACHOODAN |  |
| 2. | Qualifications. | BE,MBA,PhD. | |
| 3. | Experience. (use additional sheet if required) | 23 years | |
| 4. | Residence(with STD) | | |
| 5. | Mobile | 9940187449 | |
| 6 | Email address | chandrachoodanrs@pcra.org | |
| 7 | Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) (if not appeared list as nil | 05.12.2013 (Energy Manager) | |
| 8 | Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems" | 05.12.2013 | |
| 9 | Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" (In case of Certified Energy Auditor, please write CEA Registration No.) | EA- 16941 | |
| 10 | Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | 9841 | |
| 11 | Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No. | - | |
| Remarks(if any)--Nil | | | |

*Bio data of Certified Energy Auditor

| | | | |
|-----------------------|---|--|---|
| 1 | Name of energy auditor | VANA SRINIVAS |  |
| 2. | Qualifications. | BE (Mechanical) | |
| 3. | Experience. (use additional sheet if required) | 18 years | |
| 4. | Residence(with STD) | 0891-2708567 | |
| 5. | Mobile | 7680996777 | |
| 6 | Email address | srovizag@pcra.org | |
| 7 | Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) (if not appeared list as nil | 9 th Dec 2014 (Energy Auditor) | |
| 8 | Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems" | - | |
| 9 | Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" (In case of Certified Energy Auditor, please write CEA Registration No.) | EA -20497 | |
| 10 | Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | EA- 20497 | |
| 11 | Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No. | NO | |
| Remarks(if any)--Nil | | | |

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

Place: Chennai
Date: 27/02/15

Signature:
Name:
Designation: