


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

Serial Number (AEA-211)		As on 26/6/2015	
A.			
1	Name of energy auditor	SEM PRAKASH GOEL	 <p style="text-align: center;">Photograph of the energy auditor</p>
2	Father's name	Shri Des Raj Goel	
3	Date of certification as Energy Auditor	06.04.2005	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	06.04.2005	
5	Examination Registration Number of (i) Energy Manager / Auditor (ii) "Energy Performance Assessment for Equipment and Utility Systems" (In case of Certified Energy Auditor, please write CEA Registration No.)	CEA – 2139 CEA - 2139	
6	Certificate Registration Number of (i) Energy Manager/Auditor (ii) "Energy Performance Assessment for Equipment and Utility Systems"	797 797	
7	Date of issue of accreditation certificate		
B. Information in respect of trade name or firms' name			
8	Trade name / firms name under which energy audit is proposed to be conducted	ADVANCE METERING TECHNOLOGY LIMITED (AMTL)	
9	Date of accreditation as accredited energy auditor		
10	Type of firm/ private/ Government / NGO etc.	Public Limited Company	

11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address.	Mr. Yogesh Chandra Gupta AVP- Energy Audit, Advance Metering Technology Limited, B-189, NOIDA PHASE - 2., Noida – 201305 (UP), India. Ph. 91-120-4531400 / 454 Fax: 91-120-4531402 e-mail: yogesh.gupta@pkrgroup.in Web: www.pkrgroup.in
12	Professional postal address with Pin Code of the accredited energy auditor	Flat No. – 192, Pocket – E, Mayur Vihar Phase – 2, Delhi - 110091
13	E-mail address	goelspkg@gmail.com
14	Telephone numbers, (R) With STD code (O) Mobile no.	91-11-22785202 91-0120-4531400 91-09811311464
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	2011
16	Year of commencement of energy audit of the firm	2011
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	Yes: i) ISO – 9001 – 2008* ii) ISO – 14001 – 2004* “Grading” of AMTL as an ESCO by ICRA is 3
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Marketing network throughout India and abroad for various products and services Execution of Energy Audits is from Noida Office
C	Details of Associated Energy Experts	
19	Number of resource persons available	20
20 (i)	Number of full-time energy auditors in position with work experience of all energy auditors associated with	17 (Details as follows) 1. Mr. Yogesh Chandra Gupta, AVP-Energy Audit-AMTL Vice President- AEE, USA (BEE Accredited Energy Auditor) A graduate in Electrical Engineering from IIT-Varanasi followed by PG in Operation and Production Management with additional qualifications, Accredited & Certified Energy Auditor (from BEE, MOP), Lead auditor for ISO50001 (Energy

the firm

Management System) **Lead auditor for ISO14001**(Environment management system) and **Lead auditor ISO 9001**(Quality management system). **Pursuing Ph.D (Power Engineering) from UPES, Dehradun.**

He is having more than 22 years of experience with various corporate, Industrial association (FICCI) and National Projects under **ministry of Steel & Ministry of Commerce & Industry**. Served for 3 years under the **GEF/UNDP funded countrywide project for Energy Efficiency improvement of Steel Re-rolling mills (1250 no.)** spread across the country. During this tenure he was having additional charge of **Head-Capacity Building and Training** and **Head-Information Technology**.

He was executing a **UNIDO funded project of productivity improvement (Through Energy Efficiency improvement and process technology gap assessment) of Pulp & Paper SMEs of UP/ Uttaranchal**. During his tenure in FICCI he was actively instrumental for energy conservation initiatives by involving in various schemes of BEE, Ministry of Power. Govt. Of India, like **E-filing facilitation to Designated Consumers and Baseline Energy Audits under PAT scheme**.

He had delivered various **technical trainings** to working professionals (Managers / Engineers) from Corporate / PSUs / Govt. sector about Energy Conservation opportunities in their industries; Especially Power Plant, Transmission & Distribution, Steel re-Rolling Mills etc.

No. of Energy Audits Handled: More than 100 in the areas of Steel Mills / Paper Mills/ Packaging Industry / Automobile Industry / Commercial Buildings / Chemical Plants, Thermal Power Plants etc

2. Mr. S P Goel, Principal Energy Consultant.

(Former Executive Director, Indian Oil Corporation Ltd. &

Director (I/C), PCRA)

Mr. S P Goel is a Post Graduate in Chemical Engineering. Prior to joining AMTL as Principal Energy Consultant, He was holding the post of **Executive Director, Indian Oil Corporation Ltd.**, a "Fortune 500" company and was working as **Director (Incharge), PCRA (Petroleum Conservation Research Association), Ministry of Petroleum & Natural Gas**, on deputation basis. He has worked in the area of Energy Conservation & Energy Efficiency

Improvement Studies and has guided a team of highly skilled Engineers to carry out the Energy Audits & Energy Performance Studies in various industries. While in PCRA, he has written a knowledge packed book on Energy Conservation Practices supplemented by case studies and practical calculations.

He has got over 30 years of practical working experience in IOCL and has worked in 4 no. of its refineries in Operation and Technical Services Departments at various positions in **Mathura, Gujarat, Guwahati and Panipat Refineries**. He has also worked at Refineries Head Quarters as General Manager (Technical), where one of the key jobs was to set up Energy Conservation targets and continuous monitoring/benchmarking thereof for all the IOCL refineries.

He was also deputed to work as Sr. Deputy Director, Oil Coordination Committee, wherein his key job involved the fixing of Standard Yield Patterns & Energy consumption Norms for all the 12 Refineries in India. He was also seconded on a 2 years term assignment to **work as Head of Technical Training, Petronas, Malaysia**. He has also worked in the Benchmarking Cell. where various Performance Parameters including Energy Efficiency norms were benchmarked against the Pace-setter Refineries of the world. Mr. Goel is also a **Certified Energy Auditor & Energy Manager** under the Energy Conservation Act, 2001 by the Bureau of Energy Efficiency, under Ministry of Power, Govt. of India.

More than 30 years of experience in Energy of Oil & Gas , Technical Audit/ Energy Efficiency of Refineries including Power Plants etc.

3. Mr. Akash Sharma

(BEE Certified Energy Manager)

Designation : Deputy Manager – Energy Audit

Education and Experience:

Degree	University	Field(s)/Specialization	Year
B.E. (Electrical)	College of Technology & Engineering, MPUAT Udaipur	Electrical Engineering	2008

Work Experience: 6 years.- Ind. Energy Efficiency Projects

Institution	Topic of work done	Period
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SESA GOA LIMITED (subsidiary VEDANTA RESOURCES plc.)	Industrial Energy Efficiency Projects Analyses, Implementation, Monitoring & Documentation. Energy Conservation Trainings Imparted to the staff to spread EC awareness across the organization National Energy Award filing Handled & Documented the CDM project for the carbon reduction.	2008 to 2010
SECURE METERS LIMITED	Project Management to Implement RAPDRP Project at MSEDCL for the energy accounting & thus to reduce AT& C Losses in Power distribution system.	2010 - 2011

4. Mr. Vishal Goyal
(BEE Certified Energy Manager)
Designation : Deputy Manager – Energy Audit
Education and Experience:

Degree	University	Field(s)/Specialization	Year
B.Tech	IP University	Electronics and Communication	2005-2009
PGD	Symbiosys	Operation Management	2010-2012

Work Experience: 5.5 years.

Detailed Experience:

SI.N	Positions Held	Organization	Location	Year
1	GET	NPTI	T.N(On job Rotational trainee)	2009-10
2	Assistant Manager	Vedanta Aluminium Ltd.	Odisha	2010-2014
3	Assistant Manager	Alliance for an Energy Efficiency Economy	New Delhi	2014

5. Mr. Rajneesh Kumar
Designation: Senior Executive- Energy Audit

Education and Experience:

Degree	University	Field(s)/Specialisation	Year
M.Tech	U.P.E.S., Dehradun	Energy system	2012
B.Tech	U.P.T.U., Lucknow	Electrical & Electronics	2008

Work Experience: 3 years

Total Relevant Experience for the proposed assignment: 03 Years

Detailed Experience:

Institution	Topic of work done	Period
1. Ericsson India Pvt. Ltd.	Site surveys, quality audits, vendor trainings, installation and commissioning of RBS sites.	Sept. 2009 – May 2010
2. R.D. Infra tel	site surveys, DPR maintenance, site installation and handover to operator	July 2008 – Sept. 2009

Areas of Expertise – More than 40 no. of Energy Audits in Steel Industry, Brass Industry, Commercial Buildings, Thermal Power Plants, Solar, Biomass & Hydro .

6. Mr. Kuljeet Singh Juneja

Designation : Assistant Manager (Energy Audit)

Education and Experience:

Degree	University	Field(s)/Specialization	Year
MBA(Part Time)	Sikkim Manipal University	Operations	2013
B.Tech	Rajasthan Technical University,	Electrical	2010

Work Experience: 4.5 years

Detailed Experience:

SI.N	Positions Held	Organization	Location	Year
1	Project Engineer	Trident Techlabs Pvt. Ltd	New Delhi	July 2010
2	Asistant Manager	Shyam Indus Power Solutions Pvt. Ltd	Gurgaon	Oct 2013
3	Asistant Manager	Advance Metering Technology Limited	Noida	Till Date

Areas of Expertise: Cymdist Analysis, Execution of Commercial &

Distribution Projects, Client Handling.

7. Mr. Manvendera Singh Chandel
(IGBC-AP
Designation: Executive (EA)

Education and Experience:

Degree	University	Field(s)/Specialisation	Year
M.Tech.	University of Petroleum & Energy studies, Dehradun	Energy Systems	2011-2013
B.Tech	ICFAI	Electronics and Communication Engineering	2007-2011

Work Experience- 2 years of Energy Audits in Thermal Power Plants, Commercial Buildings (Airports, Hotels, Schools etc), Spare Parts, Sub Stations,

8. Ms Priyangana Borah
Designation: Executive (EA)
Education and Experience:

Degree	University	Field(s)/Specialization	Year
M.Tech.	University of Petroleum & Energy studies,	Energy Systems	2011-2013
B.Tech	BPUT	Applied Electronics and Instrumentation Engg.	2006-2010

Work Experience- 1.6 Year
.4 Months Internship at **BEE** Under the guidance of Mr., Saurabh Diddi Energy Economist.

- Training at **OIL INDIA LIMITED. Narengi, Guwahati, Assam**

9. Mr. Himanshu Shekhar.
Designation: Engineer (EA)
Education and Experience:

Degree	University	Field(s)/Specialisation	Year
B.Tech.	University of Petroleum & Energy studies, Dehradun	Power system Engineering.	2008-2012

Work Experience- 3 Years Energy Audits in the areas of Commercial Buildings, Sub Stations, Thermal Power Plants etc

10. Mr. Gaurav Soni**(BEE Certified Energy Auditor)**
Designation: Executive (EA)**Education and Experience:**

Degree	University	Field(s)/Specialisation	Year
M.Tech	University of Petroleum and Energy Studies,	Energy Systems	2012-14
B.Tech	Gujarat University	Aeronautical Engg	2004/10

Work Experience: 2.5 years in Energy Audit of Commercial Buildings such as Airports, Office Buildings, Hotels etc
Business Development Manager- National Polymers, Vithhal Udyog Nagar, Anand, Gujarat

11. Mr. Omar Abdul Wali

Designation: Management Trainee (EA)

Education and Experience:

Degree	University	Field(s)/Specialisation	Year
M.Tech	University of Petroleum and	Energy Systems	2012-14
B.Tech	UttarPradesh Technical University,	Electrical Engineering	2007-11

12. Mr. Abhishek Saini

Designation: Executive (EA)

Education and Experience:

Degree	University	Field(s)/Specialisation	Year
Integrated (B.Tech + M.B.A.)	University of Petroleum and Energy Studies, Dehradun	Power System Engineering + Power Management	2009-13

13. Mr. Ankur Diwakar .

Designation: Engineer Trainee (EA)

Education and Experience:

Degree	University	Field(s)/Specialisation	Year
B.Tech.	Uttar Pradesh Technical University.	Electronics And Instrumentation Engineering.	2009-2013

14. Mr. Neeraj Kumar Pandagre

Designation: Executive (EA)

Experience: 1 Month

Degree	University	Field(s)/Specialisation	Year
M.Tech	University of Petroleum and Energy Studies, Dehradun	Energy Systems	2013-15
B.E.	Rajiv gandhi proudyogiki vishwavidyalaya ,Bhopal	Mechanical Engineering	2007-11

15. Mr. Jasim Aboobacker

Designation: Executive (EA)

Experience: 9 months

Degree	University	Field(s)/Specialisation	Year
M.Tech	University of Petroleum and Energy Studies, Dehradun	Energy Systems	2013-15
B.Tech	TKM college of engineering , Kerela	Mechanical Engineering	2008-12

16. Mr. V ANISH KOUSHIK

Designation: Executive (EA)

Experience: 1 Month

	University	Field(s)/Specialisation	Year
M.Tech	University of Petroleum and Energy Studies, Dehradun	Energy Systems	2013-15
B.Tech	SCSVMV UNIVERSITY KANCHIPURAM, TAMIL NADU	Mechanical Engineering	2009-2013

17. Mr. Manu Sharma

Designation: Executive (EA)

Experience: 1 Month

	University	Field(s)/Specialisation	Year
M.Tech	University of Petroleum and Energy Studies, Dehradun	Energy Systems	2013-15
B.Tech	SHARDA UNIVERSITY, GREATER NOIDA	E lectronics Engineering	2009-2013

(ii)

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

ASSOCIATED AUDITORS (Details as follows)

1. Professor (Dr.) Kamal Bansal (CEA – 2318)

Certified Energy Auditor - BEE

- M.Tech in Power System and Doctorate in Renewable Energy with over 20 years' experience in Project Management, Energy Management and Safety and maintenance in the engineering sector.
- Presently working as **Professor & Head of the Department of Electrical Engineering** in University of Petroleum & Energy Studies at Dehradun.
- Adept at **techno economical solutions of city power distribution.**
- Expertise in managing the design, erection, testing and commissioning of a wide range of electrical control systems, machinery, equipments and

substations.

- Proficient in managing project activities involving **project feasibility studies, preparation of engineering drawings** and resource planning and management to ensure completion of projects within the time and budgeted parameters.
- Adept at implementing systems and procedures for Energy Management
- **Distinction of executing several Energy & safety Audits & Energy Management programme with leading consultants in the field viz. CII, DNV, BvQi, M.K.Raju consultants, Devika Enterprises etc.**
- Conducting regular inspection and tests to ensure the performance capacity of various machines and equipments.
- Worked with CII, FICCI, Devika Consultants and M.K.Raju consultants on various energy management projects.
- **Technical consultant for Dehradun Nagar Nigam for their MNRE sponsored Solar City project.**
- **Technical consultant for Govt. of Uttarakhand for adaptation of ECBC code.**
- **Consultant for Shell Global.**
- **Technical consultant for due diligence of a US based solar power project.**
- **Conducted several solar projects for UREDA/ UJVNL.**
- **Conducted several Energy Audits in Industrial, Commercial and Govt. Sector.**
- Developed CDM/DSM projects for UPCL & UREDA and many other CDM projects on renewable energy projects for private and public organizations.

2. Mr. Akash Batra (CEA – 3565)

Certified Energy Auditor :BEE

PROFESSIONAL QUALIFICATION:

- **BE (Mech) Hons. Form Gorakhpur University in 1996**
- **PGDBA (Finance) from IGNOU**
- **Passed International Exam on understanding of ISO 9000 series of standard conducted by ISTO**
- **Lead Auditor Course – for 9001/14001 /HACCP / OHSAS 18001 / Internal Auditor – TS 16949 BY DNV**
- **Implementation Course ON EN 16001 by BSI**
- **Corporate Sustainability Assurance Practioner BY CII**
- **Carbon Foot print calculation and implementation as per ISO 14064 by CII.**

WORK EXPERIENCE:

- Total Experience: **16 years**
- Industrial Experience: **06 years, With Havells India Ltd., Special Cables (P) Ltd, PPL**
- **Feedback Packaging Ltd.(Joint Venture of Feedback ventures and Papers Product Ltd)**
- Consulting/Training/ Auditing Experience: **Since 2003 till date**
- Projects: **Executed more than 300 projects on various subjects:**
- Audits: **Executed more than 1000 audits at our customer site only:**
- Trainings: **Executed more than 100 trainings on various subjects.**

3. Prabir Chatteraj (AEA-0090)

Accredited Energy Auditor by BEE

PROFESSIONAL QUALIFICATION:

- B. Sc Chemical Engineering. BIT Sindri
- Specialization in Petroleum Refinery Engg.
- Post Graduation in Industrial Management.
- MS University Baroda.
- Government of India, Bureau of Energy efficiency Lead Auditor for QMS (ISO 9001-2K) Lead Auditor for Environ Mgmt System.

WORK EXPERIENCE:

Present Position : Superannuated from “Petroleum Conservation Research Association” Under Ministry of Petroleum & Natural Gas as Additional Director, in November 2011. Associated as Energy Advisor with M/S AMTL, Noida

Experience: a) 11 Years in Petroleum Conservation & Research Association” under Ministry of Petroleum & Natural Gas.

Energy Auditing & Management. Feasibility studies.

- ✓ Energy Audit Of Oil Drilling Rigs, Refinery Units, Power Plants, Mining Industry, Chemical Plants,
- ✓ Capacity Developing of service providers in North Eastern States of India for energy conservation. Propagating Climate Change /energy conservation initiatives of Gov of India in Rural & Agricultural Sectors especially in eastern and north eastern states Thru State Rural Development agencies. (SRDs). Training of engineers on Energy Conservation topics.
- ✓ Faculty support in “School of Energy Studies” Jadavpur University. Kolkata.

25 Years in Indian Oil Corp. in Technical Services/ Operation Depts.

21	Sectors in which the energy auditor/energy audit firm has conducted energy audits since inception	Steel, Paper, Refinery, Textile, Cement, Chemical, TPS, Commercial Buildings, Thermal Power Plants
22	Subject wise expertise	<ul style="list-style-type: none"> a) Thermal Audit b) Process Audit c) Commercial Buildings audit d) Electrical Audit
(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	<ul style="list-style-type: none"> a) Refineries b) Petrochemicals c) Gas Processing Plants
(b)	Energy audit thermal utility system (list sectors)	<ul style="list-style-type: none"> a) Steel b) Paper c) Refinery d) Chemical e) Thermal Power Plants f) Cement
(c)	Energy audit electrical utility system (list sectors)	<ul style="list-style-type: none"> a) Steel b) Paper c) Textile d) Chemical e) Thermal Power Plants f) Commercial Buildings
23	Instruments available	

(a)	Electrical (list the name of the instruments)	a) Power Analyser –ALM35. Krykard b) Power Analyser – ALM30, Krykard c) Clamp Meter – Dt3150. Meco d) Lux Meter – LX101, Lutron e) Multimeter – 801 AUTO, Meco f) Laser Distance Meter- LD01, HTC	
(b)	Thermal (list the name of the instruments)	a) Flue Gas Analyser – 330-2, Testo b) Thermal Imager – 881-2, Testo c) Ultra Sonic Flow meter d) Infrared Thermometer, 62 mini, Fluke e) Thermo Hydrometer, 288 ATH, HTC f) Anemometer, AM4201, Lutron g) TDS Meter – CD 610, Milwayukee	
24	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit		
(i)	Seminar on Industrial Fuel Switching	24 – 25 January, 2012	Chennai
(ii)	Seminar on Industrial Fuel Switching	19 – 20 January, 2012	New Delhi
(iii)	2 Day's Training of 20000 Officers of ONGC on Energy Conservation	During years 2009 & 2010	At all ONGC locations
(iv)	Workshop on Energy Management & Efficiency Improvement in Oil & Gas Sector	Nov. 13, 2009	New Delhi
(v)	Training Programme on Energy Conservation for Officers of OSCOM Indian Rare Earths Ltd	10 -12 June, 2009	Chatrapur (Orissa)
(vi)	Technical Meet on Energy Cost Reduction in Pulp & Paper	Nov. 10 – 11, 2008	New Delhi

	Industry		
(vii)	Technical Meet on Energy & Water Optimization in Textile Industry	Nov. 3 –4, 2008	Mumbai

D	Remarks(if any)
	i) While working In the Oil Refineries, Fuel & Loss reduction (ie Energy Auditing) has been one of the major KPA's. ii) Benchmarking study done with Pace –setter refineries of the world to bridge the gaps & reduce energy consumption in refineries ii) I am being nominated for setting up Question Papers for Energy Managers/ Auditors for BEE examination, viva voice exam. for energy auditors (2005 & 2006) and also for evaluation of Answer Sheets since the year 2005..

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

Place: New Delhi

Date : February 16, 2015

Signature:

Name: SEM PRAKASH GOEL

Designation: Principal Energy Consultant

For and on behalf of:

Advance Metering Technology Ltd., Noida

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