

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

Serial Number: AEA-261		As on Date: 02 nd November, 2017	
A.			
1	Name of accredited energy auditor	SACHIN DESHPANDE	 <p>Photograph of the energy auditor</p>
2	Father's name	SIDDHESHWAR	
3	Date of certification as Energy Manager	MAY 2005	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	MAY 2005	
5	Examination Registration Number of		
	(i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA 2310 (For EM) EA2310 (For EA)	
6	Certificate Registration Number of		
	(i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	1238 (for EM) EA 2310 (Provisional)	
7	Date of issue of accreditation certificate	(to be filled by BEE)	

B.	Information in respect of trade name or firms' name	
8	Trade name / firms name under which energy audit is proposed to be conducted	A.R.S. Energy Auditors
9	Date of accreditation as accredited energy auditor	(to be filled by BEE)
10	Type of firm/ private/ Government / NGO etc.	PRIVATE
11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address (All details compulsory)	Sachin S. Deshpande, Chief Consultant, A 1/ 101, Pramodini Palace CHS, near Air India Colony, Virar (E)- pin 401305 - Maharashtra Mo. 7507184478/7350584478 sachin.ameya@gmail.com sachin@arsenergyauditors.com
12	Professional postal address with Pin Code of the accredited energy auditor	A 1/ 101, Pramodini Palace CHS, near Air India Colony, Virar (E)- 401305, Maharashtra
13	E-mail address	sachin.ameya@gmail.com ; sachin@arsenergyauditors.com ;
14	Telephone numbers. with STD Code (R) (O) Mobile no:	R- 8080077660 O- 7505184478
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	2008
16	Year of commencement of energy audit of the firm	2008
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)	Contact Person: Mr. Jitendra Vyas, A/23 Shashwat Apartment, Behind Civil Hospital, Opp. Anand Milan Tower, Off Maghani Road, Shahibaug, Ahmedabad, PIN 380004.
C	Details of Associated Energy Experts	
19	Number of resource persons available	16 Engineers, with 4 Energy Auditors and 1 no Energy manager (8 are associates engineers and 8 are working with ARS)
20 (I)	I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm	Mr. Sachin S Deshpande (EA 2310) Mr. Pramod Daspute (EA 6453) Mr. Sunil Apte (EA 7559) Mrs. Smita Ranade (EA 11224) Mr. J N. Vyas (EM) Mr. Suraj Handore. Mr. Surendra Bankar (AEA 118)
20.1	<p>Sachin Deshpande (Mobile: 7507184478) Education :- B.E. (Mechanical Engg.), Solar PV Syst. Tech (IIT- CHENNAI), M.Tech. (Energy), ISO 50001 Lead Auditor (BSI), Member- Institute of Valuers, Chartered Engineer. Empanelment :- MEDA, GEDA, REC- PDCL (Sr. Consultant), Faculty- PCRA, External faculty- M.Tech. (VJTI), Consultant – Jpal (MIT , USA), Consultant : Asian Development bank. Carried out more than 260 Energy audits so far, 3 water Audits, 2 Electrical safety audits, 3 Boiler PG and PE Testing, tariff determination of Co gen plant-4 plants, Solar MW scale DPR for NPC, Solar Performance evaluation of 6 MW SPV plant, 14 power plants (DC), 56 Textile Industries, 19 Steel Industries, (Including DC), Solar Air-conditioning plant third party performance evaluation, More than 180 Full day/ half day seminars, 1 patent in solar thermal, 1 Audit in paper mill related industry, Guest Lectures to various educational institutes for M.Tech (Energy), Consultant to JPAL (MIT, USA), Vast experience in Solar PV and thermal Project Design And Installation, Carried out 7 big energy audit assignments in China and Bangkok. (Under contract of 94 industries in world over span of 5 years). Involved in M and V review of a steel industry (DC)</p>	
20.2	<p>Pramod Daspute.(Mobile: 09869839448) Education :- B.E. (Mechanical Engg.), Certified Energy Auditor (B.E.E.), LEAN AND Six Sigma Green Belt Certificate And EHS Internal Auditor To Build Environment Friendly Culture. Experience :- 17-Years In API, 9-Years In Energy Audits, Continuous Process Industry In Utilities/Facilities & Machine Maintenance, 4-Years In Automotive Production, 2 Years In FMCG Continuous Process Industry.</p>	

	<ul style="list-style-type: none"> ▪ Conducted detailed energy audits in 5 sugar factories having their own cogeneration facility connected to MSEDCL Grid and 1 automotive rubber company at Vasai and 9 textile units at Ahmedabad. ▪ One of the sugar factory- Someshwar Sugar mills at Nira Dist-Pune was able to export 18MW power for whole crushing season and in addition to that, they had 5MW Power generation for captive consumption and power plant auxiliaries. We helped them by suggesting improvements in accessories performance improvement like economiser. ▪ Energy Audit of 12 Textile units in Gujrat promoted by JPAL and GEDA. ▪ Various Energy Audit of Buildings and Hotels, etc. ▪ Vast Experience in training – conducting energy conservation workshops with Mr. Deshpande For P.C.R.A in various industries and institutions (More than 50 so far) ▪ Sectors : Power Plant, Textile, Steel, Paper
20.3	<p>Sunil Apte (Mobile : 98232278732/9225148726) Education :- B. Tech. (CIVIL), I.I.T. Bombay- 1979/ L.L.B. General- 1986/ Energy Auditor, BEE- August 2009. (CEA 7559). Experience :-</p> <ul style="list-style-type: none"> ▪ Property valuer with various organization (as given below) from 1984 to 2012. Worked as an empanelled valuer for more than 34 banks. (1984 to 2012) ▪ 2012 to till date – Energy Auditor with A.R.S. Energy Auditor. Conducted 3 no. of Sugar industries, 2 Cogeneration Power plant, 2 power plants, 9 Textile units, 2 Buildings, 1 steel.
20.4	<p>Smita Ranade (Mobile : 9823033320) Education :- Education : B.E. Electrical (1981- Bombay University), Energy Auditor BEE (EA 11224)- 2010. Experience :-</p> <ul style="list-style-type: none"> ▪ Humphreys & Glassgow, Bombay- 81 to 83. Projects : Design of HICO, Khopoli, Reliance Patalganga, Glaxo- Nasik,etc ▪ Kirloskar Consultants Pvt Ltd., Pune (84-90) Design and execution of Foursee Engg, Design of Steelage, Halol, Design of Century Enka, Sipta Coated Steel ▪ Archana Electromec (90- 2012)- Project Manager , Bharati complex- H.T./ L.T. installation, M.S.E.B.- Lonavala- HT/LT installation. LT control Panel installation at Bajaj Auto, Kinetic. ▪ ARS ENERGY Auditors : 2013 – till date. 6 Textile units in Gujrat, 1 Power plant, 6 Steel Industries, 4 Pharma Industries, 1 Paper industry.
20.5	<p>Mr. Jitendra N. Vyas. (Mobile: 8149731473) Education :- Diploma in Electrical, 1973 (second in Maharashtra), AMIE electrical-1982. Chartered Engineer AMIE First class Institution Of Engineers Calcutta, Year 1982. Qualified as trainer for 7 QC tools, 5S, SPC, TPM, kaizen, ISO lead assessor BVQI, Year 1995.</p>

	<p>Experience :-</p> <ul style="list-style-type: none"> ▪ Presently, (2011 to As on date) Working As Sr. Consultant in A.R.S. Energy Auditors (EM15467) Carried out 6 textile, 1 Power plant, 6 Pharma, 4 steel industries energy audit with team. ▪ Feb 2003 To Nov 2011 (8 1/2 years) General Manager & CEO at Custom capsules P Ltd. A multinational, joint venture of Torpc Inc.USA & Associated Capsules Group. (ACG world wide) (World leader in Veterinary Capsules & Bench top Capsule Filling machine manufacturing. 100% export unit.) ▪ Dec 1983 To Feb 2003 (20 years), General Manager (Operations) at Universal Capsules, a division of Associated Capsules Group. (ACG world wide) ▪ Feb 1976 To Dec 1982 (6 years), Jr. Officer at Grind Well Norton Ltd, a leader in Grinding wheel manufacturing looking after projects, maintenance & special product development.
20.6	<p>Mr. Suraj Handore. (Mobile : 7743882572/9028288189) (Not an Energy Auditor Yet) Education :- B.E. (Electrical Engg.), M.Tech (Energy). Experience :-</p> <ul style="list-style-type: none"> ▪ 2014 to till date – Energy Engineer (Solar & Electrical Specialist) with A.R.S. Energy Auditor. Conducted Energy Audit in - 3 Steel Plants, 1 Thermal Power Plant, 1 Textile Units, 2 Food Industries, 2 Pharma Industries.
20.7	<p>Mr. Surendra P. Bankar. (9561036177)(AEA 118) B.E. Mech, MBA (Energy management,), Accredited Energy Auditor, BEE.</p> <ul style="list-style-type: none"> ▪ April 2014 to till Date : ARS Energy Auditors, Virar. ▪ August 2008 to March 2014: Assistant Director, NPC, Mumbai. ▪ Feb 2005 to August 2008 : Ordnance factory, Chanda, Dist: Chandrapur, (Charge Man, Grade –I) <p>Experience :</p> <p>Sakthi Sugars Ltd. Jyothinagar , Erode (Tamilnadu) – Thermal Audit</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sakthi Sugars Ltd. Sivagangai ,Madurai (Tamilnadu) – Thermal Audit <input type="checkbox"/> Ratnagiri Gas Power Private Ltd. (RGPPPL) Ratnagiri (Maharashtra) - water flow measurement study <input type="checkbox"/> Bureau of Energy Efficiency (BEE), Delhi. - Energy consumption & saving potential in four sectors in India – Agriculture Pumping, Commercial Building and Municipalities. <input type="checkbox"/> Gujarat State Energy Generation Limited, Hazira (Gujarat) – Detailed Energy Audit of Plant <input type="checkbox"/> Energy Audit of Indian Sailor’s Home Society, Mumbai (ISHS)- Electrical Energy Audit of the Building <input type="checkbox"/> Heat Rate Assessment of 8 Bio Mass Power Plants in Maharashtra. <input type="checkbox"/> Mazagon Dock Ltd. Mumbai :- Detailed Energy Audit <input type="checkbox"/> Solar Photovoltaic Panel Feasibility Study at Mazagon Dock Ltd. Mumbai <input type="checkbox"/> PAT (Perform, Achieve & Trade) assignment for BEE for Textile Sector in

	<p>Punjab.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Has done the Performance Assessment of approximately 20 bio – mass based power plant for claiming the capital subsidy from MNRE (Ministry of New and Renewable Energy), Govt. of India. <input type="checkbox"/> Ratnagiri Gas Power Private Ltd. (RGPPPL) Ratnagiri (Maharashtra). – Lighting Audit <input type="checkbox"/> Low Grade Waste Heat Recovery Potential in Energy Intensive Sectors in India for IIP India <input type="checkbox"/> Energy Audit of Galvanizing Tank Furnace for Richardson & Crudas, Nagpur <input type="checkbox"/> Has also successfully done the following Industrial Engineering assignments as a Process Management / Industrial Engineering Consultant. <input type="checkbox"/> Jawaharlal Nehru Port Trust, Mumbai <input type="checkbox"/> Welspun Maxsteel Ltd. Dist – Raigarh –Maharashtra 	
20 (II)	II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.	NIL
21	Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception	Pharmaceuticals, Commercial Buildings, Steel, Sugar Industry, Co gen Power Plant, Textile, Chemical/ Fertilizer, Power Plant , Paper, Packaging (5 Industries in China/ Thailand)
22	Subject wise expertise	<ol style="list-style-type: none"> 1. Thermal- All (Boiler, Turbines, Furnace, Oven, Thermic Fluid Heaters, etc) 2. Electrical – All (Motors, DGs, Transformers, HVAC, Compressors, Fans, Lighting, Etc)
22 (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	NIL (Except Pharma)

22 (b)	Energy audit thermal utility system (list sectors)	<ol style="list-style-type: none"> 1. Pharmaceuticals 2. Commercial Buildings 3. Steel 4. Sugar Industry 5. Co gen Power Plant 6. Textile 7. Chemical/ Fertilizer 8. Power Plant 9. Paper 10. Packaging (5 Industries in China/ Thailand)
22 (c)	Energy audit electrical utility system (list sectors)	<ol style="list-style-type: none"> 1. Pharmaceuticals 2. Commercial Buildings 3. Steel 4. Sugar Industry 5. Co gen Power Plant 6. Textile 7. Chemical/ Fertilizer 8. Power Plant 9. Paper 10. Packaging (5 Industries in China/ Thailand)
23	Instruments available	<ol style="list-style-type: none"> 1. Power Analyzer – 4 Nos. 2. Flue Gas Analyzer :- 2 Nos. 3. Thermal Image Camera :- 2 Nos. 4. Lux meters – 2 Nos. 5. IR temperature Meter- 3 Nos. 6. Tachometer – 1 No. 7. Anemometer - 2 No. 8. Distance Meter – 1 no. 9. Humidity Meter – 2 nos.
23 (a)	(a) Electrical (list the name of the instruments)	<ol style="list-style-type: none"> 1. Power analyzer – 4 Nos <ol style="list-style-type: none"> a) Crycard ALM, 3 Phase (100 mA to 10000 Amps) and For HT measurements b) Goblain (3 Phase)- Up to 1000 Amp and for HT measurements c) ALM 10- Single Phase d) Rishabh- Single Phase
23 (b) 23 (b)	(b) Thermal (list the name of the instruments)	<ol style="list-style-type: none"> 2. Flue gas analyser :- 2 nos. <ol style="list-style-type: none"> a) ACE 7000 b) ACE 9000 3. Thermal Image Camera :- 2 Nos <ol style="list-style-type: none"> a) FLIR E 60

		b) TESTO- 869 4. Lux meters – 2 nos., MECO 5. IR temperature Meter a) Ray tech - -30 to 999 Deg C b) Max rech DT-8811 – 50 to 999 deg C – 2 nos. 6. Tachometer – 1 No. Mec0 7. Anemometer a) Meco- 1no b) Lutran- 1 No 8. Distance Meter – Meco. 1 no. 9. Humidity Meter – Meco – 2 nos.	
24 (i)	Details of training program/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	Full day industrial Association Workshops in Gujrat GEDA	4 Nos.
24 (ii)	Full Day Workshop on Energy Conservation Workshop for Engg. Colleges for GEDA	Full day Workshop	23 Nos.
24 (iii)	Half Day/ Full Day Institutional Programs For PCRA as faculty in All India for Industries, Power Plants, M Tech Students, Etc	Half day / Full day	156 Nos. (In 5 years)
24 (iv)	Full day work shop for MSME director (For NPC)	Full day	4 nos
D	Remarks(if any)		
	<ul style="list-style-type: none"> ▪ Energy Audit at Bangkok – Packaging industries – 2 nos. ▪ Energy Audit at china – Packaging industries – 4 nos. ▪ Detailed water Audit – 2 nos.(Godrej And Jindal Poly. Ltd.) ▪ Solar PV 6 MW performance evaluation carried out. (56 MW in progress) ▪ Boiler PG test – GACL- dahej, Gujrat (35 TPH x 2 nos.) ▪ Boiler PG test- GACL- baroda, Gujrat (35 TPH x 1 Nos) ▪ Boiler PG test for 150 MW plant in Philippines – 1 No. (In progress) ▪ Worked For N.P.C. for UNDP assignment for Steel Industries – 16 Industries ▪ 120MW x 3 no, 250MW x 3 Thermal Power Plant Energy Audit completed 		

	<ul style="list-style-type: none"> ▪ Completed ISO 50001 Certification From BSI – Now Lead Auditor- ISO 5001 ▪ Completed Complete DPR for MW scale Solar PV for NPC and MITCON ▪ Guest Lecturer for M Tech for 3 colleges for energy conservation ▪ Guide- Final Project for M.E. In Government Engineering college, Valsad- 2 Nos. ▪ Guide- Final Project for M.Tech. In Pune University, 1 Nos. ▪ Completed M. Tech (Energy) form Pune University (financed by MNRE) ▪ Patent in Solar Concentrator – Approved by R.T.C. (MNRE) ▪ Sr. Consultant to REC- PDCL (under Ministry of Power, from past 3 years) (REF.: WEBSITE) ▪ Faculty PCRA – From past 5 years ▪ Carried out more than 180 Energy Audits/ Endline Survey for GEDA/ MIT (USA) for Textile, chemical, foundry Sectors ▪ SELECTED BY EESL AS SR. ENERGY CONSULTANT (REF: WEBSITE) (However did not joined as area given was Jharkhand, instead of Gujrat) ▪ Cluster study for UNIDO- @ 18 Industries from 150 industries cluster
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(Note: Responsibility of the authenticity of the above information rests with the concerned energy auditor/energy auditing agency.)