

## Annexure-II

**(Note: To be submitted by the applicant at the time of submission of application. This is a modified version of Form IV. The original version of Form IV may please be seen in the Notified Regulation)**

### BUREAU OF ENERGY EFFICIENCY

Serial Number	(AEA-0330)	As on .....(29/08/2023)
<b>A.</b>		
1	Name of energy auditor	Kirtesh Bagarecha
2	Father's name	Shri Ajay Kumar Bagarecha
3	Date of certification as Energy Manager ( or Energy Auditor, pl specify)	Energy Manager- 4 <sup>th</sup> March, 2014 (BEE Certificate)
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	August-2013 and Certificate Date is 6 <sup>th</sup> January, 2014
5	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.)	(i) EA-16384 (ii) EA-16384
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Energy Manager- 11114 Energy Auditor- 7522
7	Date of issue of accreditation certificate	( to be filled by BEE)
<b>B. Information in respect of trade name or firms' name</b>		
8	Trade name / firms name under which energy audit is proposed to be conducted	RECON ENERGY CONSULTANCY (RECON Group, Udaipur)
9	Date of accreditation as accredited energy auditor	( to be filled by BEE)
10	Type of firm/ private/ Government / NGO etc.	Partnership
11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address ( All details compulsory)	Rini Bapna, Head-Admin, RECON Group (RECON Energy Consultancy, Rajasthan Energy & Consultancy Services & R K Online Solution) 103, Roop Nagar, Sector-3, Udaipur, Rajasthan-313002, Mobile no- 9899715142, Email- <a href="mailto:Rajasthanenergy@outlook.com">Rajasthanenergy@outlook.com</a> , <a href="mailto:kirteshece@gmail.com">kirteshece@gmail.com</a>



12	Professional postal address with Pin Code of the accredited energy auditor	Kirtesh Bagarecha RECON Group (RECON Energy Consultancy, Rajasthan Energy & Consultancy Services, & R K Online Solution) 103, Roop Nagar, Sector-3, Udaipur, Rajasthan-313002, Mobile no- 9024395079, Email- <a href="mailto:kirteshece@gmail.com">kirteshece@gmail.com</a>
13	E-mail address	<a href="mailto:kirteshece@gmail.com">kirteshece@gmail.com</a> , rajasthanenergy@outlook.com
14	Telephone numbers with STD Code (R) (O) Mobile no:	(O) 9024395079 Mobile no.9013904991
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	2016
16	Year of commencement of energy audit of the firm	2016
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	ISO 50001(EnMs) Lead Auditor and Receive appreciation for Energy Efficiency work in Rajasthan from Rajasthan Govt. (RECA Award) in 2019.
18	No. of branch offices  (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	2 No  Rini Bapna, 103, Roop Nagar, Sec-3, Udaipur, Mobile- 9899715142 Sec-3, Udaipur, email- <a href="mailto:info@rajasthanenergy.in">info@rajasthanenergy.in</a>  Kirtesh Bagarecha B-208, Shanti Tower, Near Sajjan Vilas Colony, Shakti Nagar, Bhilwara, email- <a href="mailto:info@rajasthanenergy.in">info@rajasthanenergy.in</a> Mobile- 9013904991
<b>C</b>	<b>Details of Associated Energy Experts</b>	
19	Number of resource persons available	8 NO
(I)	Number of full-time energy auditors in position with work experience of all energy auditors associated with the firm	<p><b>Kirtesh Bagarecha</b></p> <ul style="list-style-type: none"> <li>• BE in ECE for Mohan Lal Sukhadiya University, Udaipur in 2009</li> <li>• MBA in Energy Management for JNU, Jaipur</li> <li>• PHD Scholar from Sangam University, Bhilwara</li> <li>• BEE Certified Energy Auditor.</li> <li>• Overall Professional Work Experience of more than 14 years.</li> <li>• Experience as Team Leader of conducting Preliminary and Detailed/ Mandatory Energy Audits and Conservation projects in various industries segments &amp; processes which are as follows: <ul style="list-style-type: none"> <li>I. Textile</li> <li>II. Cement</li> <li>III. Building</li> <li>IV. Foundry</li> <li>V. Power Plant</li> <li>VI. Water and Sewage Pumping Stations</li> </ul> </li> </ul>

20 (II)	No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.	<b>3 Nos</b>	
21	Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception	<b>Textile/ Cement/ Power Plant/Fertilizer/ Hotels &amp; Commercial Establishments/ Water Pumping stations</b>	
21	Subject wise expertise	Electrical and Thermal Audit of following sectors - <b>Textile/ Cement/ Power Plant/Fertilizer/ Hotels &amp; Commercial Establishments/ Water Pumping stations</b>	
(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	Textile & Cement	
(b)	Energy audit thermal utility system (list sectors)	<b>Textile/ Cement/ Power Plant/Fertilizer/ Hotels &amp; Commercial Establishments</b>	
(c)	Energy audit electrical utility system (list sectors)	<b>Textile/ Cement/ Power Plant/Fertilizer/ Hotels &amp; Commercial Establishments/ Water Pumping stations</b>	
22	Instruments available		
	(a) Electrical (list the name of the instruments)	(i) 3 phase Power Analyzer (ii) Single Phase Power Analyzer (iii) Lux Meter	
	(b) Thermal (list the name of the instruments)	Flue Gas Analyzer Thermometer(Contact type) Anemometer Hygrometer Digital Manometer Ultrasonic Flow Meter IR Thermometer Gun Thermal Imager	
23 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	ISO 50001 Lead Auditor	<ul style="list-style-type: none"> <li>• Energy Management Training at SKF India Ltd., Haridwar Plant during Energy Audit</li> <li>• Energy Management Training at Udaipur Cement Works Ltd, During MEA</li> <li>• Paper Published in ICAIR-2022 on 'Assessment of Energy Conservation through Energy Audit Measures in Process Industry'</li> </ul>

(ii)			
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<b>D</b>	<b>Remarks( if any)</b>

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

Place: Udaipur

Date: 25.01.2023

Signature:

Name: Kirtesh Bagarecha  
Designation: Certified Energy Auditor  
For and on behalf of RECON

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

## Key Resource Person Details

### **Kirtesh Bagarecha (Energy Auditor)**

- BE in ECE for Mohan Lal Sukhadiya University, Udaipur in 2009
- MBA in Energy Management for JNU, Jaipur
- PHD Scholar from Sangam University, Bhilwara
- BEE Certified Energy Auditor.
- Overall Professional Work Experience of more than 14 years.
- Experience as Team Leader of conducting Preliminary and Detailed/ Mandatory Energy Audits and Conservation projects in various industries segments & processes which are as follows:
  - 1) Textile (Spinning, Denim & Composite Units)
  - 2) Textile (Process, Weaving & Folk Units)
  - 3) Cement
  - 4) Power Plant
  - 5) Zinc Refinery
  - 6) Lead Refinery
  - 7) Auto Auxiliary
  - 8) Hotels, Commercial Buildings
  - 9) Cables
  - 10) Municipal Sewage Pumping Stations
- Experience include advisory service to Bharti Airtel for impact assessment and performance evaluation of energy efficiency technologies and cost optimization strategy (ongoing) – Project is comprised of development of baseline energy consumption and impact assessment of EE technologies to arrive at minimum operational floor cost with seasonal variation analysis( Remote monitoring and Diagnosis)
- Responsible for handling of DSM project on energy conservation to find out saving areas and estimation of saving potential. The whole project involves assessment of existing energy distribution system with total data collection and analysis to figure out conservation of energy with thoroughly going each and every energy consuming system.  
Handling of 4 numbers of DISCOM during load research.
- Involved in M & V Audit in Textile Sector.
- List of Energy Audit done during carrier has been attached separately.
- Working with major textile plants of Bhilwara Region past 3 PAT cycles.
- Working with Cement plants of various areas from past 2 PAT cycles.

### **Dr. Anil Kumar Goel (Accredited Energy Auditor)**

- Degree in Mechanical Engineering From Indian Institute of Technology Delhi (IIT D), India
- MBA ( specialization in Finance Management)
- PhD in Energy Efficiency ( Energy Efficiency in Industrial cluster)
- BEE Certified & Accredited Energy Auditor.
- Worked 1977-2003 at IOCL.
- Worked 2003-2013 as Director PCRA
- Worked 2013-2014 as ED IOCL
- Accredited Energy Auditor & Advisor (2015 till date) with RECON Group, Udaipur, Rajasthan.
- 13 years experience in country wide energy efficiency policy conceiving, drafting, approvals and implementation in BEE and PCRA, the two Government bodies of Central Government of India.

- 10 years experience in leading our Energy Efficiency and Energy Audit project teams, several teams simultaneously as head of Energy Efficiency organization.
- During the years 2004-2013, participated in governing body of Bureau of Energy Efficiency, the highest governmental body in India catering to country wide Energy Efficiency.
- Prepared ECBC (Energy Conservation Building Code) rules, regulations and guidelines for Government of Orissa state in India (Population of state... 90 Million) in 2010-11
- 35 years of senior level experience in the field of Mechanical engineering and Project Management.
- Involved in Energy Audit of Oil Refineries, Textile, Cement, Fertilizer, Power, Ceramic and Foundry Industry.

#### **Shri Ajay Maurya (Energy Auditor)**

- Qualification – Certified Energy Auditor from Bureau of Energy Efficiency (Government of India).
- BE in ECE.
- 10 years of Experience in Energy Efficiency related Work.
- Benchmarking & Feasibility Studies
- Detailed Energy Audits in sectors-
- DSM (Demand Side Management)
- PAT (Perform Achieve & Trade)
- Mandatory Energy Audit under PAT
- LRA (Load Research Analysis)
- Building Audit

#### **Shri R. K. Manawat (Cement Sector Expert)**

- Bachelor in Science 1975 from Vikram University, Ujjain (M.P.)
- Diploma & Training in Cement Technology from CCI in 1979.
- 46 years of Experience in Cement sector.
- Energy Audit & energy conservation experience in Cement Sector.
- Providing Plant Optimization & Consultancy Services in Dalmia Bharat Group & JK Cement Group, Heidelberg Cement India Limited, JSW Cement Limited, Mangalam Cement Limited (March, 2019 to Present).
- Also, Associated with BEE, for PAT, Energy Audit related projects.
- Ex-Technical Advisor in DALMIA CEMENT BHARAT LIMITED (2016 to 2019).
- Ex. V.P. (Operations) SHREE CEMENT LIMITED (1992 to 2016)- Responsibilities as Operation head Unit I & II, Followed by Operation head at RAS from Unit III to VIII & grinding units.
- Shree Digvijay Cement, Jamnagar, Gujarat (1991-1992).
- Vasavdatta Cement, Sedam, Karnataka (1985-1991).
- Cement Corporation of India, Nayagaon (1975-1985)

#### **Shri B. P. Singh (Textile Sector Expert / Energy Auditor)**

- Qualification – Certified Energy Auditor from Bureau of Energy Efficiency (Government of India).
- B.tech in Electrical Engineering from Karnataka state of university
- 30 years of Experience in Textile sector (Process, Weaving & Spinning).
- Worked at 3-4 large textile units with various roles and responsibility.
- Having Electrical Supervisor License approved by Chief Electrical Inspector of Himachal Pradesh.

- Received Rajasthan Energy Conservation Award 2012 -13. By doing modification in machines, steam, air, water lines distribution and replacing compressor, conventional motor with pump, rewinding motor.
- Energy Audit, conservation and optimization in Textile Plants and process Machines.

#### **Shri Utkal Maheshwari (Energy Manager)**

- Qualification – Certified Energy Manager from Bureau of Energy Efficiency (Government of India).
- BE in Electronics & Communication from University of Rajasthan, Jaipur.
- 11 years 11 months of Experience in Textile sector.
- Energy Audit, conservation and optimization in Thermal Power Plant of Textile Unit.
- Associated as Energy Manager with industries.

#### **Shri Bhawani Singh (Field Engineer)**

- Qualification – B.Tech (Electrical) from Rajasthan Technical University
- 4 Years of Experience in working at RECON Energy Consultancy.
- Textile, Cement, Cable, Chemical & Power Plant energy audit field measurements & data collection.
- Commercial Building, Malls, Hotel & University energy/green audit field measurements & data collection.
- Pump efficiency testing at various Municipal Sewage Pumping Stations and fire fitting pumps.
- Energy conservation and optimization via data reporting.

#### **Shri Ankur Jain (Field Engineer)**

- Qualification – B.Tech (Mechanical) from Rajasthan Technical University
- 9 months of Experience in working at RECON Energy Consultancy.
- Textile, Cement, Cable & Building's energy audit field measurements & data collection.
- Pump efficiency testing at various Municipal Sewage Pumping Stations and fire fitting pumps.
- Energy conservation and optimization via data reporting.