

# AEEE CONSULTANCY SERVICES

- Venture of BEE Accredited Energy auditor, awarded five times by “Award for Excellence in Energy Conservation” under “Energy Auditor” category by government of Maharashtra
- ISO:9001 Certified Multidisciplinary Consultancy Services Over 600 Industrial & 120 Commercial Building Energy Audits carried
- International Exposure for Energy Conservation/Audit in Japan, China & Swedish Industries
- Our Sister Firm is BEE Empanelled EmAEA (PAT M&V)
- Our Energy Audit Experience from Wide Sectors
  - ü Textile Sector
  - ü Pulp & Paper
  - ü Iron & Steel
  - ü Cement
  - ü Engineering
  - ü Th. Power Plant
  - ü Chlor-Alkali
  - ü Commercial Bldg
  - ü Luxury Hotels
  - ü Chemical Industry
  - ü Pharmaceutical
  - ü Paint & Petrochemical
- Latest upto date Energy Auditing Equipment such as HT/LT Data loggers with Harmonics Capabilities, Ultrasonic Flow Meters, Thermal Imaging Cameras with Video Capabilities etc. Trained & Dedicated Team of Energy Auditor, Engineer & Technicians
- Wide Experience across all energy consuming sectors for Energy Audit, Energy Management & Project Implementation



# Certificate of Registration

This is to Certify that  
Quality Management System of

## AEE CONSULTANCY SERVICES

'KAPIL' BLDG, OPP. DR. NAIK'S X-RAY CLINIC, NEW BHAGWAT PLOTS, AEOLA  
(MAHARASHTRA) - 44003, INDIA

has been assessed and found to conform to the requirements of

### ISO 9001:2015

for the following scope :

CONSULTING ENGINEER, PROFESSIONAL ENGINEER, CONSULTANCY OF ACCREDITED ENERGY AUDITOR, ENERGY CONSERVATION CONSULTANT, CHARTERED ENGINEER, COMPETENT PERSONS, NDT CONSULTANT, PREDICTIVE MAINTENANCE SERVICES, ASNT LII (ULTRASONIC & THERMOGRAPHY) & VARIOUS ENGINEERING SERVICES

Certificate No	21EQHM20	Issuance Date	07/07/2023
Initial Registration Date	07/07/2022		
Date of Expiry	06/07/2025		
1st Surve Due	07/06/2023	2nd Surve Due	07/06/2024



*[Signature]*  
Director

**Magnitude Management Services Pvt. Ltd.**

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ISO 9001:2015 Certified

Company Registration No. K16017663000 (GATEWAY TO INDIA) Registered Office: Magnitude Management Services Pvt. Ltd. Andhra Pradesh

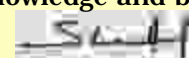
Company Registration No. 16017663000 (GATEWAY TO INDIA) Registered Office: Magnitude Management Services Pvt. Ltd. Andhra Pradesh

## Shashibhushan Subhash Agrawal

<p><b>Engineering Qualification</b></p>	<ul style="list-style-type: none"> <li>● B.E. [Mechanical] in Yr 1988 from Government College of Engineering, Amravati; Diploma ("Energy Efficiency Use &amp; Planning"), Professional Engineer (I), FIE.; Chartered Engineer, BEE Certified Energy Manager &amp; Auditor (Reg.No. EA-1090), ASNT Level II Certified for Thermography, ASNT Level II Certified for LPT, MPT, UT, RT Government Registered Valuer for Plant &amp; Machinery BEE Accredited Energy Auditor (AEA-054)</li> </ul>
<p><b>Awards &amp; Recognitions for Energy Conservation</b></p>	<ul style="list-style-type: none"> <li>● Winner for "<b>State Level Award For Excellence in Energy Conservation &amp; Management</b>" Under "Energy Auditor" Section by Govt Of Maharashtra SDA MEDA for Year 207-2008 (IInd Prize Winner)</li> <li>● Winner for "<b>State Level Award For Excellence in Energy Conservation &amp; Management</b>" Under "Energy Auditor" Section by Govt Of Maharashtra SDA MEDA for Year 2008-2009 (Ist Prize Winner)</li> <li>● Winner for "<b>State Level Award For Excellence in Energy Conservation &amp; Management</b>" Under "Energy Auditor" Section by Govt Of Maharashtra SDA MEDA for Year 2009-2010 (Ist Prize Winner)</li> <li>● Winner for "<b>State Level Award For Excellence in Energy Conservation &amp; Management</b>" Under "Energy Auditor" Section by Govt Of Maharashtra SDA MEDA for Year 2011-2012 (Ist Prize Winner)</li> <li>● Winner for "<b>State Level Award For Excellence in Energy Conservation &amp; Management</b>" Under "Energy Auditor" Section by Govt Of Maharashtra SDA MEDA for Year 2014-2015 (Ist Prize Winner)</li> <li>● In Year 2010, Selected through BEE by <b>JICA Japan</b> for practical training in "Energy Conservation Technique for India" in Japan.</li> <li>● Completed in Yr.2013-14 energy efficiency "Change Project" with Swedish &amp; Chinese Agency. Received training &amp; formulated project in China &amp; will continue in Sweden.</li> </ul>
<p><b>Special Training Received for Energy Audits / Energy Conservation.</b></p>	<ul style="list-style-type: none"> <li>● Received one month practical training in Japan for "Techniques in Energy conservation for India". The training involved in depth study of various advance techniques in energy conservation along with study in various Japanese industries like Nissan Motors, Nippon Steel corporation, Nippon coke, TOTO industries, Japan Corrocoat, Yaskava electronics etc. Received special training in MCDT (Machine conditioning &amp; diagnostic techniques)</li> <li>● Received exposure for Energy Efficiency Commercial Buildings in China &amp; will work for energy efficiency related "Change Project" in Sweden for about one month.</li> </ul>
<p><b>Nature of Professional Experience</b></p>	<ul style="list-style-type: none"> <li>● 30 Yrs of Experience in Engineering Field &amp; 22 Yrs in Energy Conservation / Energy Audit.</li> <li>● Worked with M/S Bajaj Auto Ltd in Manufacturing as Asst. Engineer for two yrs.</li> <li>● Providing Services as 'Competent Person' Under Factories Act and Mah. Fact. Rule. ,Under Petroleum Rule, SMPV(U) Rules, GIC Surveyor &amp; Loss Assessor, 'Govt. Registered Plant &amp; Machinery Valuer'. Provided Services to more than 500 Industries across India.</li> <li>● Provided many assignments for CAD Based 2D drawing drafting &amp; 3D modeling. Fluency in Computer Languages, Autocad, Mechanical Desktop.</li> <li>● Working in the field of Energy Conservation since 1995. Carried Energy Audits for more than 400 Industries &amp; 100 Commercial Buildings. Carried Energy Audits across all sectors.</li> </ul>
<p><b>Energy Audit &amp; Conservation Related Recognitions &amp; Association with Various Institutes engaged in Energy Conservation</b></p>	<ul style="list-style-type: none"> <li>● Accredited as "<b>BEE Accredited Energy Auditor</b>" by the Bureau of Energy Efficiency India .</li> <li>● BEE Certified Energy Manager &amp; Energy Auditor (Registration Number EA-1090)</li> <li>● Proprietor of own Firm which is "<b>A-Class Panel Energy Auditor</b>" for MEDA, "<b>Panel Consultant for Waste Heat Recovery</b>" of MEDA a State Designated Agency engaged in Energy Conservation.</li> <li>● "<b>Panel Energy Auditor</b>" for GEDA(Gujarat Energy Development Agency) a Govt. of Gujarat State Designated agency.</li> </ul>

	<ul style="list-style-type: none"> <li>● <b>"Panel Energy Auditor"</b> for MPUVN (Madhya Pradesh Urja Vikas Nigam Ltd) a Govt. of Madhya Pradesh State Designated agency.</li> <li>● <b>"Panel Energy Auditor"</b> for PCRA (Petroleum Conservation &amp; Research Association) a Govt. of India Agency.</li> <li>● Provided services to energy conservation propagation bodies like PCRA &amp; ICPCI as a faculty and or as a energy auditor.</li> <li>● <b>"Panel Technical Consultant"</b> (Related to Energy Conservation) for PFC Consulting Ltd, Indian Register of Shipping, State Bank of India (MSME Engineering Cluster energy efficiency, workshop &amp; Seminar).</li> </ul>
<b>Energy Audit Equipments Own by Me</b>	<ul style="list-style-type: none"> <li>● Fluke 435 Power Analyzer, Chauvin Arnaux Make power Analyser with HT/LT Logging CT's, FLIR Make E-50 Thermal Imaging Camera, Thermo make Ultrasonic Flow meter, Ultrasonic Leak Detector, Flue Gas Analyzer, Vibration Analyzer etc all the energy audit equipments Own by me.</li> </ul>
<b>Energy Conservation Related Training &amp; Awareness Program</b>	<ul style="list-style-type: none"> <li>● Regularly engaged in Energy conservation related various training programs for Industries, Engineering colleges, Commercial building association etc. Along with MEDA, PCRA, ICPCI carried many workshop across entire spectrum of end users of energy.</li> </ul>

I here by declare that information furnished above is true to best of my knowledge and belief.



*Shashibhushan S Agrawal*

B.E.[Mechl]; A.M.I.E..Chartered Engineer  
BEE Certified Energy Manager & Auditor (R.No. EA-1090)

List of Few Major Details Energy Audit Carried For Industry :-

SN	Name of Client	Sector
1)	Raymond Luxury Cottons Ltd (Designated Consumer)	Textile Industry
2)	Raymond Ltd (Designated Consumer)	Textile Industry
3)	Shree Rama Newsprint Ltd (Designated Consumer)	Pulp & Paper Mill.
4)	Sirpur Paper Mills Ltd., Sirpur- Kagaz Nagar (Designated Consumer)	Pulp & Paper Mill.
5)	Sripathi Paper & Board Industries Pvt Ltd (Designated Consumer)	Pulp & Paper Mill.
6)	Seshasayee Paper and Boards Limited (Designated Consumer)	Pulp & Paper Mill.
7)	Shree Cements Ltd, RAS (Designated Consumer)	Cement Industry
8)	Shree Cements Ltd, Beawar (Designated Consumer)	Cement Industry
9)	Mangalam Cement Ltd (Designated Consumer)	Cement Industry
10)	Lloyd Steel Industry (Designated Consumer)	Steel Industry
11)	Uttam Galva Metallics Ltd (Designated Consumer)	Steel Industry
12)	Uttam Value Steels Limited (Designated Consumer)	Steel Industry
13)	Maharashtra Elektros melt Ltd. Chandrapur	Steel Industry (Ferro Manganese)
14)	Reliance Dahanu Thermal Power Station (Designated Consumer)	Thermal Power Plant
15)	Shree Mega Power (Designated Consumer)	Thermal Power Plant
16)	Hindustan Unilever Ltd. Khamgaon Plant	Chemical Industry (FMCG Industry)
17)	Hindustan Unilever Ltd, Haldia	Chemical Industry (FMCG Industry)
18)	Asian Paints Ltd.	Chemical Industry
19)	Sandoz (I) Pvt Ltd.	Pharmaceutical Industry
20)	Ajanta Pharma	Pharmaceutical Industry
21)	Leben Laboratories Pvt Ltd	Pharmaceutical Industry

SN	Name of Client	Sector
22)	Croda Chemicals (India) Ltd	Chlor Alkali / Chemical
23)	Nivea India Pvt Ltd	Personal Care Products Industry
24)	Bharat Electronics Ltd., Pune	Engineering Industry
25)	Bharat Electronics Ltd., Talaja	Engineering Industry
26)	Havells Ltd., Nimrana Plant	Engineering & Glass Work Industry
27)	Welspun Corp Ltd	Engineering Industry
28)	Mangalam Cement Ltd	Cement Industry
29)	Uttam Galva Ltd	Steel Industry
30)	Uttam Value Steel Ltd	Steel Industry
31)	BEE Potential Assessment Study Project for 11 Nos Large Textile Industries across India	Textile Industry
32)	BEE Potential Assessment Study Project for 08 Nos Large Cement Industries across India	Cement Industry
33)	BEE Potential Assessment Study Project for 08 Nos Large Pulp & Paper Industries across India	Pulp & Paper
34)	RK Exports Ltd (Glass Industry)	Glass Industry
35)	Lexi Pen India Pvt Ltd., Daman	Plastic Industry
36)	Sabar Dairy, Gujarat	Dairy Industry
37)	Uttam Dairy, Gujarat	Dairy Industry
38)	Madhur Dairy, Gandhinagar, Gujarat	Dairy Industry
39)	Shri Viththal SSK Ltd. Sugar Mill Division. Pandharpur	Sugar Industry
40)	Ajara Shetkari SSK Ltd (Sugar Division)	Sugar Industry
41)	Ponni Sugar Ltd.	Sugar Industry
42)	Shri Viththal SSK Ltd. <b>Distillery Division.</b>	Distillery Industry

SN	Name of Client	Sector
43)	Shri Viththal SSK Ltd. <b>Co-generation Division.</b>	Power Plant
44)	Ajara Shetkari SSK Ltd (Power Division)	Co-gen. Power Plant
45)	Street Lighting Energy Audit, SCADA exploration, Khamgaon Municipal Council, Khamgaon	Street Lighting Project
46)	Street Lighting Energy Audit, Akola Municipal Corporation	Street Lighting Project
47)	Dr. Punjabrao Deshmukh Krishi Vidyapeeth	University, Education Institute
48)	3F Industries Ltd, Oil & Fats	Edible Oil & Allied Product Industry
49)	3F Industries Ltd, Edible Oil Processing	Edible Oil & Allied Product Industry
50)	Water Supply Schemes Complete Including HW, WTP & Booster Pump House etc Amravati WSS, Buldhana WSS, Jalgaon Jamod WSS, Yavatmal WSS, Malpathar Pusad WSS, Khamgaon WSS, Mehkar WSS, Chikhali WSS <b>Various 20 Nos of Schemes</b>	Water Supply & Treatment
51)	Raymond UCO Denim Pvt Ltd ( <i>Designated Consumer</i> )	Textile Industry
52)	Pee-Vee Tetiles Pvt Ltd, Hinganghat ( <i>Designated Consumer</i> )	Textile Industry
53)	Raymond Ltd. (Jalgaon)	Textile Industry
54)	ETCO Denim Pvt Ltd ( <i>Designated Consumer</i> )	Textile Industry
55)	Zendu Pharamceuticals (Units at Daman)	Pharmaceutical Industry
56)	Zendu Pharamceuticals (Units at Masat)	Pharmaceutical Industry
57)	Zendu Pharamceuticals (Units at Wapi)	Pharmaceutical Industry
58)	ETCO Industries Pvt Ltd	Textile Industry
59)	ACC Cement (Kyamore)	Cement Industry
60)	Birla Cotsyn [India] Ltd.	Textile Industry
61)	Rana Denim Pvt Ltd	Textile Industry
62)	Technocraft Industries Ltd., Murbad, Kalyan	Textile Industry



SN	Name of Client	Sector
63)	Vrijesh Natural Fibre & Fabrics (India) Pvt Ltd.	Textile Industry
64)	Uniworth Textile Industries Ltd., Raipur	Textile Industry
65)	Banswara Syntext Ltd	Textile Industry
66)	Gajanan Paper Mills Pvt Ltd	Paper Mill
67)	Indian Seamless Steel Metal & Tube Ltd., Jejuri	Steel Industry
68)	Rallis India Ltd	Insecticides Industry
69)	IVRCL Infrastructure & Projects Ltd. ( <i>Engineering &amp; Dip Galvanizing Plant</i> )	Engineering Industry
70)	CRI Ltd, Kolkata	Engineering Industry
71)	CRI Ltd., Boral Plant	Engineering Industry
72)	CRI Ltd, Ahmedabad	Engineering Industry
73)	Vimal Dairy, Gujarat	Dairy Industry
74)	Avkar Dairy, Gujarat	Dairy Industry
75)	Kheralu Milk Chilling Center, Gujarat	Dairy Industry
76)	Kadi Milk Chilling Center, Gujarat	Dairy Industry
77)	Soktas Ltd	Textile Industry
78)	Golden Fiber Ltd	Textile Industry
79)	Suryalakshmi Cotton Mills Ltd	Textile Industry
80)	Birla Cotsyn (I) Ltd., Ginning & Pressing Unit at Ghatanji	Cotton Processing Industry
81)	Birla Cotsyn [I] Ltd, Ginning & Pressing Unit at Khamgaon	Cotton Processing Industry
82)	Gujarat Dairy Cluster for BEE	Technological Upgradation & EE Improvement Cluster
83)	Project Uptake for State Bank of India Nagpur Engineering Cluster	Technological Upgradation & EE Improvement Cluster



List of Major Details Energy Audit Carried For Buildings :-

<b>SN</b>	<b>Name of Client</b>	<b>Sector</b>
1)	Doordarshan Kendra, Worli, Mumbai (Prasarbharati TV Station Mumbai)	Commercial Building / TV Studio
2)	Reserve Bank of India, Mumbai	Commercial Building
3)	HPCL Bhavan, Ballard Estate, Mumbai	Government Building
4)	Jahaz Bhavan, Director General of Shipping office Building, Mumbai	Government Building
5)	Sky Gourmet Catering Pvt Ltd. ( <i>catering Services, Multi star Hotel &amp; Leisure club</i> )	Luxury Hotel Industry
6)	Sayaji Hotels Ltd	Luxury Hotel & Banquet Halls
7)	IBIS Hotel (IBIS Airport Hotel), Mumbai	Hotel Industry
8)	Dr. Punjabrao Deshmukh Krishi Vidyapeeth	University, Education Institute (University Buildings, Hostels, Offices etc)
9)	Sanjivani Hospital & Research Institute	Hospital & Nursing Care
10)	Street Lighting Energy Audit, SCADA exploration, Khamgaon Municipal Council, Khamgaon	Street Lighting Project
11)	Street Lighting Energy Audit, Akola Municipal Corporation	Street Lighting Project
12)	Vijaya Bank, Regional Office, Pune	Commercial Building
13)	Vijaya Bank <b>Various 28 Nos Branches in Pune-Goa Region</b>	Commercial Building
14)	Bank of Maharashtra, Regional Office, Jaipur (Rajasthan)	Commercial Building
15)	Bank of Maharashtra, <b>Various 29 Branches in Rajasthan</b>	Commercial Building
16)	Office Building Khamgaon Municipal Council, Khamgaon	Government Building
17)	Icon Hospital	Hospital & Nursing Care
18)	Office Buildings of Maharashtra Jeevan Pradhikaran (MJP), Water supply department office buildings (5 Nos)	Government Building

**List of Walk Through Energy Audits Carried**

SN	Name of Client	Brief Detail of Assignment	Sector
1)	Bayad Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
2)	Dehgam Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
3)	Dhanduka Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
4)	Dhansura Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
5)	Idar Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
6)	Kapadwanj Milk Chilling Center Gujarat	Walk Through Energy Audit	Dairy Industry
7)	Katosan Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
8)	Khedbrahma Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
9)	Navapura Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
10)	New Suraj Dairy, Gujarat	Walk Through Energy Audit	Dairy Industry
11)	Prantij Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
12)	Ratan Dairy, Gujarat	Walk Through Energy Audit	Dairy Industry
13)	Sardar Dairy, Gujarat	Walk Through Energy Audit	Dairy Industry
14)	Shamlaji Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
15)	Viramgam Milk Chilling Center, Gujarat	Walk Through Energy Audit	Dairy Industry
16)	India Steel Industries Ltd, Khopoli	Walk Through Energy Audit	Steel Industry
17)	CEBBCO (Commercial Engineers & Body Builders) Pvt Ltd, Jabalpur	Walk Through Energy Audit	Engineering Industry
18)	Sanvijay Rolling & Engineering Ltd., Nagpur	Walk Through Energy Audit	Steel Industry

# Our Recent Esteem Clients From Different Sectors

## Textile Sector

- 1)Raymond Uco Denim Ltd
  - 2)Raymond Ltd (*Chindwara*)
  - 3)Raymond Ltd (*Jalgaon*)
  - 4)Raymond Ltd (*Wapi*)
  - 5)Raymond Luxury Cotton Ltd (*Kolhapur*)
  - 6)Pee Vee Textiles Ltd
  - 7)Suryalakshmi Cottom Mills Ltd
  - 8)Technocraft Industries Ltd
  - 9)Birla Cotsyn India Ltd
  - 10)Banswara Syntex Ltd
  - 11)Uniworth Textiles Ltd
  - 12)ETCO Denim Pvt Ltd
  - 13)ETCO Industries Pvt Ltd
  - 14)Rana Denim Pvt Ltd
  - 15)Soktas India Pvt Ltd
- ## Dairy Sector
- 1)Gujarat Dairy Cluster
  - 2)Sabar Dairy
  - 3)Uttam Dairy
  - 4)Vimal Dairy
  - 5)Madhur Dairy
  - 6)Various Milk Chilling Center

## Pharmaceutical Industries

- 1)Sandoz (I) Pvt Ltd
- 2)Ajanta Pharma Ltd
- 3)Leben Laboratory Pvt Ltd
- 4)Zendu Pharmaceutical Ltd

## FMCG Industries

- 1)Hindustan Unilever Ltd
- 2)Nivea India Pvt Ltd
- 3) Lexi Pen Pvt Ltd (Plastic Pen)

## Sugar Industries

- 1)Shree Viththal SSK Ltd
- 2)Ajara SSK Ltd

## Cement Sector

- 1)Shree Cement Ltd (RAS)
- 2)Shree Cement Ltd (Beawar)

## Steel Industries

- 1)Lloyd Steel Ltd (Uttam Value)
- 2)Maharashtra Elektrosmet Ltd (SAIL)
- 3)Indian Seamless Steel Metal & Tube Ltd

## Oil Processing Industries

- 1)3F Industries, Tadepallegudem
- 2)3F Industries, Krinapattanam

## Chemical Industries

- 1)Asian Paints Ltd
- 2)Croda Chemical Ltd
- 3)Amol Dicalite Limited
- 4)Chaitanya Chemicals Pvt Ltd
- 5)Chaitanya Agro Biotech Pvt Ltd
- 6)Rallis India Ltd

## Pulp & Paper Sector

- 1)Shree Rama News Print Ltd
- 2)Sripathi Paper & Board Pvt Ltd
- 3)Shree Gajanan Paper Mills Pvt Ltd
- 4)Sirpur Paper Mills Ltd

## Water Supply Schemes

- 1)Amravati Water SS (With HW & WTP)
- 2)Yavatmal Water SS (With HW & WTP)
- 3)Pusad Water SS (With HW & WTP)
- 4)Akola Water SS (With HW & WTP)
- 5)Buldhana Water SS (With HW & WTP)
- 6)Jalgaon Jamod (With HW & WTP)

## Other Miscellaneous Sectors

- 1)R K Exports Ltd (Glass Industry)
- 2)Street Light EE Project (Akola, Khamgaon)
- 3)MSME EE Cluster Project
- 4)Various MSME Energy Audits

## Thermal & CP Power Plant

- 1)Reliance Dahanu Thermal Power Plant
- 2)Shree Mega Power Plant (Beawar)
- 3)CPP of Banwara Syntex Ltd,
- 4)CPP Suryalakshmi Cotton Mills Ltd
- 5) Power Plant of Shree Viththal SSK Ltd
- 6)Power Plant of Ajara SSK Ltd
- 7)Power Plant of Raymond Ltd

## Solar Power Plant

- 1)Waaree Energies Limited

## Engineering, Electronics & Infrastructure Industries

- 1)L&T Limited
- 2)IVRCL Infrastructure Ltd
- 3)CRI Ltd, Kolkata
- 4)CRI Ltd, Ahmedabad
- 5)Havells Ltd
- 6)Bharat Electronics Ltd, Pune
- 7)Bharat Electronics Ltd, Talaja
- 8)Shree Shubham Logistics Pvt Ltd (Cold Storage & Warehouse Chain)
- 9)Engineering Industry Project Uptake for State Bank of India

## Commercial Buildings

- 1)Doordarshan Kendra, Worli Mumbai
- 2)Sky Gourmet Catering Pvt Ltd.
- 3)Reserve Bank of India, Mumbai
- 4)HPCL Bhavan, Mumbai
- 5)Jahaz Bhavan, Mumbai
- 6)IBIS Hotels, Mumba
- 7)Sayaji Hotels Ltd, Indore
- 8)Dr Punjabrao Deshmukh KV University
- 9)Vijay Bank, Pune
- 10)Vijaya Bank (28 Branches Pune-Goa)
- 11)Bank of Maharashtra (Jaipur)
- 12)Bank of Maharashtra (28 Branch Rajasthan)

## Our Services For Energy Efficiency

### Energy Efficiency (EE) Consultancy Services

**EE Consultancy Services for New Project**

- 1) Specification Study, Analysis & Reporting.
- 2) Support for Value addition to existing specifications for higher EE

**Yearly EE Onsite & Offsite Consultancy for Existing Industry**

- 1) Energy consumption study, analysis
- 2) Routine performance study of energy consuming utilities both on site & off site
- 3) Support with our energy audit equipment

**Energy Audit, monitoring Equipment support on man-day basis**

- 1) We provide energy audit, monitoring equipment (NPL Traceable calibrated) support with competent manpower on man day basis.
- 2) Equipment associate software support is also provided.

### M & V Under PAT

- 1) M&V Services under PAT

### Energy Audit Services

**Walk Through Energy Audit**

- 1) At Glance study of energy consuming utility in one day.
- 2) Identification of broader areas of energy savings

**Express Energy Audit**

- 1) Utility study with limited focused study of energy consuming utility.
- 2) Identification of main no cost, low cost, medium cost measures
- 3) Submission of report with cost benefit analysis

**Standard Detailed Energy Audit**

- 1) Energy consumption analysis
- 2) Utility detailed study as per BEE Guide lines.
- 3) Identification of main no cost, low cost, medium cost & long term measures
- 4) Submission of report with cost benefit analysis

**Six Step Detail Mandatory Energy Audit**

- 1) Six step mandatory energy audit for Designated consumer as per BEE (Manner and Intervals of Time for Conduct of Energy Audit) Regulations, 2010.
- 2) Detailed scope per relevant rules

Energy Audit Equipments Own by Us

SN	Particulars of Equipment	SN	Particulars of Equipment
1)	Fluke Make 435 Power Quality Analyzer Sr. No. DM 9311031 With Flex CT 3000 Amp X4 Nos. With all standard mountings and accessories for Transformer data logging, Harmonics Study	9)	Chauvin Arnaux Power Analyzer CA 8332 Sr. No. 200694EKH Firmware Serial Number :-300177 With Flex CT – 3000 Amps X 03 Nos & Clamp CT MN93AX03 Nos With all standard mountings and accessories for Transformer data logging, Harmonics Study
2)	Ultrasonic Clamp on type Flow Meter Thermo Electron Corporation Make Polysonics DCT7088 Model Serial Number :- B07DC002 From Ø1” to Ø200” With Transducer, Standard Mountings such as caliper scale etc.	10)	Ultrasonic Leak Detector ;Lutron Make, Leak Detector, Model :- GS-5800 , Sr. No.B33322, Internal No. SAULD-01 Ultrasonic Transmitter, Model No. GS-400, Sr. No. B-39583
3)	Thermal Imaging Camera, FLIR Make, E-50 Model, Serial No. 49026023;FCC ID ZLV-FLIR49001; Range :- Range I : -20°C to +120°C & Range II : 0°C to +650°C with mountings & Accessories	11)	Lux Meter Lutron Make, LX-101A Sr. No.L961122 Range I – 0-1999 Lux Range II – 2000-1990 Lux Range III –2000-50000 Lux
4)	High Temperature Infrared Thermometer, Serial No. 04413135 Range :- -50°C to 1000°C Metravi Make, MT-10	12)	Annemometer Sr. No. L802098 Lutron Make AM-4201 Model
5)	3 Phase Power Analyzer (Balance Type) Mecho Make 4500 Model; S.No. 06160802 With Single Flex CT and two leads with clamp and two leads with pin probe. Range upto 1000 Kw.	13)	Non Contact Tachometer Metravi Make Model :- DT-2234C Sr. No.N216588
6)	Borescope (Videoscope) for Internal inspection of Heat exchangers, Boilers, Turbines	14)	Flue Gas Analyzer with probe, Battery charger, Showing O2 & Co2 'Vintech' Make, Model : EFM-6000
7)	Multimeter Orpat Make, Model ODM-100 With Leads Internal No. :- SAMM01	15)	HTC Make, "Easy Log" Model, Sr. No :- 12056534, Digital Temperature & Humidity Logger with computer interface, 48 Hour data logging capacity,
8)	Tongue Tester, Mextech Make, Model M266, Serial No. 11343457 With insulation tester upto 2000 Ω, Voltage and current measurement of standard range.	16)	Flue Gas Analyzer for Boiler 'Vintech' Make, Model EFM6000, Serial No. 904, Detection of Co2, O2 in ppm and percentage.

Energy Audit Equipments Own by Us

SN	Particulars of Equipment	SN	Particulars of Equipment
9)	Dipel & Samson Make Ultrasonic Thickness Gauge – 02 nos Useful in flow measurement	17)	Thermometers of following range a) 0-50°C b) 0-100°C c) 0-150°C
10)	Tachometer Contact type 'Systems' Make, HTM-590 Model Sr. No.09-2329	18)	Noise Level Meter Yu-Fung Make, Internal No. :- SANLM-01 Range :-0-80 db & 80-120 db
11)	Pressure Gauges a) Scientific Make Ø4"- Range 0-10 Kg/cm <sup>2</sup> b) Uday Make Ø4" – Range 0-70 kg/cm <sup>2</sup> c) Uday Make Ø4" – Range 0-140 kg/cm <sup>2</sup> d) Guru Make Ø4" – Range 0-28 kg/cm <sup>2</sup> . e) Make NA Ø4" – Range 0-10 kg/cm <sup>2</sup> f) Make NA Ø6" – Range 0-25 kg/cm <sup>2</sup> g) Make NA Ø6" – Range 0-28 kg/cm <sup>2</sup> h) Make NA Ø6" – Range 0-70 kg/cm <sup>2</sup>	19)	Whirling Psychrometer consist of DBT & WBT thermometers (Manual with rotating lever.) Both Thermometer of 0-50°C
12)	Tensometer (Dynamometer) 'Birdman Cheming' Make Range 0-12.5 Tons LC-100 kg Internal No. SAADG-01 Sr. No. W31924	20)	Annemometer :- Lutron Make Sr. No. L802098, Internal No. SAAAM-01 Range 0-40 m/ sec
13)	Hygrometer Dimple Make Range 0°C to 50°C LC-1°C	21)	Thickness Gauge (Ultrasonic Type) Samsonic Make, Model UTG222 Range:-0.75 to 300 mm LC :- 0.01 mm Sr. No. MTO0110102516
14)	Vibration Meter MCM Instrument Make Model VIB-30+ Sr. No.- 0173 Internal No.-SAVM-01 <b>Measuring Velocity Only.</b>	22)	Vibration Meter IRD Mechasis Make Digital Model <b>Measuring Velocity, Displacement, Acceleration &amp; Spike Energy .</b>

*(All Equipments Calibrated to NPL Traceable Standard)*



# Certificate

**MAHARASHTRA ENERGY DEVELOPMENT AGENCY**  
(A Government of Maharashtra Institution)



**STATE LEVEL AWARD FOR EXCELLENCE  
IN ENERGY CONSERVATION AND MANAGEMENT**

*NAME: Sankhleshwar S. Agrawal, Director, MEE Consultancy Services*

*In appreciation of the achievements in Energy Conservation &*

*Management in the Energy Sector for the year 2017-18*

  
Nitesh Gore, IAS  
Director, Central  
MEA

  
Chandrashekhar Sawankule  
Member (Energy, Power & Renewable Energy)  
& Chairman, MEA

# Certificate

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Nitesh Gore, IAS  
Director, Central  
MEA

  
Chandrashekhar Sawankule  
Member (Energy, Power & Renewable Energy)  
& Chairman, MEA



# Diploma

Mr. Shashibhushan Subhash Agrawal

has successfully completed the 6-month (July-2019-12-2019) Training Programme  
on "Energy Saving/Management/Engineering (EMEA)" organized by IIT Bombay on  
16/07/2019 to 20/12/2019 at IIT Bombay, Mumbai-400 075.



PROF. J. S. CHOPRA  
Vice-Chancellor  
IIT Bombay

Joint Centre Program on Energy  
IIT Bombay



BUREAU OF ENERGY EFFICIENCY

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

## Certificate of Accreditation

1. The Bureau of Energy Efficiency (BEE) hereby certifies that the **[Name]** has been successfully accredited to carry out the **[Activity]** on behalf of the Bureau of Energy Efficiency (BEE).

2. The accreditation is valid for a period of **[Duration]** from the date of issuance of this certificate.

3. The accreditation is subject to the conditions of the Bureau of Energy Efficiency (BEE) and the Bureau of Energy Efficiency (BEE) shall be responsible for the conduct of the accreditation.

4. On completion of the accreditation, the Bureau of Energy Efficiency (BEE) shall issue a certificate of accreditation to the **[Name]**.

5. The Bureau of Energy Efficiency (BEE) shall be responsible for the conduct of the accreditation and the Bureau of Energy Efficiency (BEE) shall be responsible for the conduct of the accreditation.

6. The Bureau of Energy Efficiency (BEE) shall be responsible for the conduct of the accreditation and the Bureau of Energy Efficiency (BEE) shall be responsible for the conduct of the accreditation.



ऊर्जा दक्षता ब्यूरो

## प्रत्यायन का प्रमाणपत्र

1. ऊर्जा दक्षता ब्यूरो (BEE) यहाँ प्रमाणित करता है कि **[नाम]** ने ऊर्जा दक्षता ब्यूरो (BEE) के लिए **[कार्य]** का प्रमाणित प्रमाणपत्र प्राप्त किया है।

2. इस प्रमाणपत्र का अवधि **[अवधि]** के लिए वैध रहेगी।

3. इस प्रमाणपत्र को जारी करने पर ऊर्जा दक्षता ब्यूरो (BEE) की शर्तों का पालन किया जाएगा।

4. प्रमाणपत्र प्राप्त करने के बाद ऊर्जा दक्षता ब्यूरो (BEE) को प्रमाणपत्र जारी करने के लिए सूचना दी जाएगी।

5. ऊर्जा दक्षता ब्यूरो (BEE) प्रमाणपत्र जारी करने के लिए उत्तरदायी रहेगा।

6. ऊर्जा दक्षता ब्यूरो (BEE) प्रमाणपत्र जारी करने के लिए उत्तरदायी रहेगा।

[Signature and Stamp]

The Institution of Engineers (India)

PE7001628



*By virtue of expertise in the profession of engineering*

**Shashibhushan S Agrawal**

*is hereby authorised to use the style and title of*

**Professional Engineer (India)**

*This certificate is valid upto*

**31<sup>st</sup> August 2023**

*IN WITNESS WHEREOF the said Institution has  
caused its Common Seal to be affixed this  
31<sup>st</sup> Day of August 2018*



8 Gokhale Road  
Kolkata - 700 020, India

  
Secretary & Director General

  
President

201111011101



### Bureau of Energy Efficiency

Ministry of Power, Govt of India,  
4th Floor, Connaught Place,  
R K Puram / New Delhi - 110 088



Name: Shashibhushan S. Agrawal  
Fidelity: Shashibhushan S. Agrawal  
Regd No: 54100  
Year: 2014  
Type:

Date of Issue: 01-01-2014

Valid upto: 31-12-2015

Phone: 011 26178000 Fax: 011 26178362

For verification of card holder log on to website:

[www.bee-india.nic.in](http://www.bee-india.nic.in)  
[www.energymanagemnttraining.com](http://www.energymanagemnttraining.com)  
Instructions:

1. Loss of the Card should be reported immediately to the Issuing Authority & to the local police.
2. This Card should be surrendered on the expiry of the validity.
3. If found, this may be sent to the Issuing Authority.

*[Signature]*  
Issuing Authority  
Secretary (BEE)

*[Signature]*  
Signature of the Holder

# THE ASSOCIATION OF ENERGY ENGINEERS



Certification Authority

## Shashibhushan Agrawal

In Recognition of

### Life Member

As the Association of Energy Engineers, an organization founded in 1977 to promote and diffuse the knowledge of energy engineering and promote its practical applications.

2014



*[Signature]*  
Secretary

*[Signature]*  
President



# CERTIFICATE

Name: Mr. Rajini Kumar Subramanian

*Atchayutha International Professionals Association hereby certifies that the above person successfully completed the group training course on "ENERGY CONSERVATION TECHNIQUES FOR INDIA" organized by Atchayutha International Cooperation Agency and implemented with the cooperation of*

- Wipac Steel Corporation*
- Techin Corporation Thermal Power Commission, Inc.*
- TVP International, INC.*
- Viswes Mahal Co., Ltd.*
- Pravara Power Institute of Technology, A/C.*
- Yashwantrao Chavan Corporation*
- Carwood Indus. Limited*
- Nippon Coke & Engineering Co., LTD.*
- Kyushu Institute of Technology*
- Hitachi India Electric, Shim-Saba Karaman Company*

*and the dates from July 7 to August 6, 2000.*

*P. K. Srinivas*  
The Secretary, Professionals Association

ATCHAYUTHA INTERNATIONAL PROFESSIONALS ASSOCIATION  
INCORPORATED IN INDIA  
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500

# Certificate

That I hereby do hereby certify that the following subject named by successful member of the Council Technical Training Course in Excel Computer Technology, Mr. Ramesh Chandra Appannan, is a Graduate of the Council Technical Training Course from July 10, 2000 to August 05, 2000 organized by the Technical Training International Cooperation Agency under the Approved Computer Program of the Government of India.

*Ramesh Chandra Appannan*

Date: August 10, 2000



Page: 1 of 1



**ANANDAMITHA SHREE SIDDHANT AGENCY (MEDIA)**

(A Division of Anandamitha)

Registered Office: ...

... ..

...

...

...

...

**Subject:** Appointment as a Consulting member of the Committee of Members of Board of Directors of the ... ..

**Date:**

**Respected Sir,** ... ..

... ..

... ..

... ..

... ..

*(Signature)*

... ..

...

...



**भारतीय स्टेट बैंक**  
**भारतीय स्टेट बैंक**  
**State Bank of India**

Branch Name	Branch Address	Branch Code

... ..

...

...

**FINANCE, INVESTMENT AND LIAISON OFFICER (FINANCE)**

... ..

... ..

...	...
-----	-----

...

*(Signature)*

...



Michigan State University Energy Efficiency Audit Report

Report Title: [Redacted] Report Number: [Redacted]

Prepared by: [Redacted]  
Michigan State University  
Energy Efficiency Audit  
100 S. Tenth Avenue  
East Lansing, Michigan 48824

State: Michigan State Local Address: [Redacted] Commission: [Redacted]

Date: [Redacted]

This report was prepared in accordance with the Michigan State Energy Audit Act of 1996, which requires that all Michigan State University buildings with a gross floor area of 100,000 square feet or more be audited for energy efficiency. The audit was conducted by the Michigan State University Energy Efficiency Audit Program, which is a part of the Michigan State University Energy Efficiency Program. The audit was conducted by the Michigan State University Energy Efficiency Audit Program, which is a part of the Michigan State University Energy Efficiency Program.

Year	Summary Title	Amount
2006-2008	Energy Audit	17500

The total amount of energy efficiency improvements recommended in this report is \$17,500. The total amount of energy efficiency improvements implemented is \$17,500. The total amount of energy efficiency improvements remaining is \$0.

06/11/2008

Vladimir Vukobratovic  
Vladimir Vukobratovic  
Michigan State University  
Energy Efficiency Audit



Michigan State University Energy Efficiency Audit Report

Report Title: [Redacted] Report Number: [Redacted]

Prepared by: [Redacted]  
Michigan State University  
Energy Efficiency Audit  
100 S. Tenth Avenue  
East Lansing, Michigan 48824

State: Michigan State Local Address: [Redacted] Commission: [Redacted]

Date: [Redacted]

This report was prepared in accordance with the Michigan State Energy Audit Act of 1996, which requires that all Michigan State University buildings with a gross floor area of 100,000 square feet or more be audited for energy efficiency. The audit was conducted by the Michigan State University Energy Efficiency Audit Program, which is a part of the Michigan State University Energy Efficiency Program. The audit was conducted by the Michigan State University Energy Efficiency Audit Program, which is a part of the Michigan State University Energy Efficiency Program.

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06/11/2008

Vladimir Vukobratovic  
Vladimir Vukobratovic  
Michigan State University  
Energy Efficiency Audit

# Feedback From Few Clients



# SHREE CEMENT LTD.

Plant: Chhatrapati Shivaji Maharaj  
Bilaspur, Jharkhand



1800 410 008  
1800 410 008  
1800 410 008  
1800 410 008

## Certificate

This is to certify that Mr. Shashibhushan S Agrawal, along with his technician and energy audit equipment have carried energy audit for our plant at Village Dhanivali, Murbad Road, Taluka-Murbad, Dist: Thane Maharashtra (India)

As per energy audit report submitted by them, they have recommended us energy conservation proposal for Rs. 1,28,00,000/- (Rupees One Crore Twenty Eight Lakh Sixteen Thousand).

We found his recommendations very realistic and practical one. Also we found is services extremely useful for saving energy. His manpower is trained one and energy audit equipment latest one.

We have implemented many of their recommendations till date and achieved considerable energy saving (measures related to compressed air system, load demand side management, thermal and electrical system related). We are in process of implementing the remaining energy conservation proposal in due course and hope full of achieving further energy saving.

Date :- 31<sup>st</sup> May. 10



A N UPADHYE  
(GENERAL MANAGER)

HEAD OFFICE: 1800 410 008  
NEW DELHI OFFICE: 1800 410 008  
1800 410 008



# Technocraft Industries (India) Ltd.

(YARN DIVISION)

FACTORY :  
Village Dhanivali,  
Taluka - Murbad,  
Dist. Thane (M.S.) - 421 401  
Tel. : 02524- 645121 - 129  
Fax : 02524- 222324  
E-mail : yarn@technocraftgroup.com  
Website : www.technocraftgroup.com



H. O. :  
A-25, M.I.D.C. Road No. 3,  
Marol Ind. Area, Andheri (E),  
Mumbai - 400 093, INDIA  
Tel. : 91-22-4098 2222 / 4098 2202  
Fax : 91-22-2833 6559 / 2836 7037  
E-mail : yarn@technocraftgroup.com  
Website : www.technocraftgroup.com

Date : 31/05/2010.

## Certificate

This is to certify that Mr. Shashibhushan S Agrawal, along with his technician and energy audit equipment have carried energy audit for our plant at Village Dhanivali, Murbad Road, Taluka-Murbad, Dist: Thane Maharashtra (India)

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We have implemented many of their recommendations till date and achieved considerable energy saving (measures related to compressed air system, load demand side management, thermal and electrical system related). We are in process of implementing the remaining energy conservation proposal in due course and hope full of achieving further energy saving.

We are satisfied with services provided by him and wish him all the best for future endeavor.

Date :- 31<sup>st</sup> May. 10

For Technocraft Industries (India) Ltd

A N UPADHYE  
(GENERAL MANAGER)





University of Windsor

Faculty of Education  
100 University Ave  
Windsor, ON N9A 6V1  
Canada

Certificate

This is to certify that Dr. Anand Kumar has successfully completed the requirements for the award of the degree of Ph.D. in the field of Education at the University of Windsor, Ontario, Canada, in the month of June, 2014.

In witness whereof, the Vice-Chancellor

has hereunto set his hand and seal

this 10th day of June, 2014

Dr. Anand Kumar



Dr. Anand Kumar  
100 University Ave  
Windsor, ON N9A 6V1  
Canada



Certificate

This is to certify that Dr. Anand Kumar has successfully completed the requirements for the award of the degree of Ph.D. in the field of Education at the University of Windsor, Ontario, Canada, in the month of June, 2014.

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Dr. Anand Kumar



Dr. Anand Kumar  
100 University Ave  
Windsor, ON N9A 6V1  
Canada



DR. PANJABRAO HESHIMUKHI KURSHI VIDYAPEETH,  
KURSHI NAGAR, ANKUR-448104  
DR. AKOLA (MAHARASHTRA)

UNIVERSITY  
PHONE NO. 10224228881  
FAX NO. 10224228855

University Engraving

10/10/2024

CERTIFICATE

Certificate

This is to certify that, Mr. Siddhantkumar Siddhant, graduated along with his energy audit equipment, various heat management energy audit of his University services building including University campus University building located in various other buildings.

His recommendation for energy efficiency improvement is acknowledged by Graduate & School University, is accepted by the in-charge staff.

My best wishes for success. We are depending on your success subject to availability of funds.

We found your service credit amount to be good. We will thank all the staff for their contribution.

DR. P. D. K. N. K. K.

DR. P. D. K. N. K. K.  
University Engraving

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ಕರ್ನಾಟಕ ಸರ್ಕಾರ  
**ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ**  
 ಗೌ. ಸಂಸ್ಥೆ, ಜಿ. ಸರ್ಕಾರ (ಸಂಸ್ಥೆ) ಬಿ.ಎಂ.ಎಸ್.ಎಸ್.  
 ಸಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ, ಜಿ.ಎಸ್.ಎಸ್.ಎಸ್. ಸಂಸ್ಥೆ, ಜಿ.ಎಸ್.ಎಸ್.ಎಸ್. ಸಂಸ್ಥೆ  
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ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ

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 ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ



**SREE SIDDAGANGA MEDICAL COLLEGE**  
 1950  
 A TRUST FOR THE BENEFIT OF THE  
 STUDENTS OF THE COLLEGE  
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 STUDENTS OF THE COLLEGE

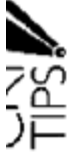
1950

ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ

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ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ  
 ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ  
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 ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ  
 ಜಿ.ಎಂ.ಎಸ್. ಸಂಸ್ಥೆ



THE YASH BIRLA GROUP  
**BIRLA COTSYN (INDIA) LIMITED**  
 4/82, M.I.D.C. Industrial Area, KHAMGAON-444303, Dist. Buldhana (Maharashtra) Tel. +91 7263 277116, 277122 Fax : 277123  
 e-mail : varchansyntex@rediffmail.com/vsynlex@yahoo.com

Ref:-CRJ/GI/2011

Date :- 10/10/2011

Dt.05.06.2007

**CERTIFICATE**

This is to certify that Mr Shashibhushan Subhash Agrawal along with Energy Audit Team members of M/s. Shailesh Agrawal Associates, have carried Energy Audit of our entire Plant. (All the energy consuming utilities such as Boiler, Compressed Air, Lighting, Electric Motor, Electric Transformer etc along with Water Audit and Waste Management).

The Energy Audit Report Submitted by them recommending saving of Rs.1,48,40,000/- (Rupees One crore fourty eight lakh fourty thousand only) per Annum have been accepted by us and we found the same very much useful.

They have all the necessary equipments for carrying energy audit and have trained energy Auditors to carry the energy audit. We appreciate their sincerity and commitment for energy conservation and energy Audit.

We wish them all the very success for future Endeavour.

For BIRLA COTSYN (INDIA) LTD.

*V.K. Sethi*  
 (V.K. Sethi)  
 Joint President

**Feedback For Energy Audit**

We have implemented most of the measures recommended by you in your energy audit report and the savings achieved by us is in accordance with your recommendations.

We intend to implement the remaining measures as well in next few months. We appreciate the efforts taken by you for achieving energy savings and your active support during implementation of energy audit report.

Our best wishes are with you for all year future endeavours.

Date :- 10/10/2011

*A.P. Patel*  
 (A.P. Patel)  
 President, Technical  
 Kolkatta Plant

**Client's name**

Kolkata Iceberg Amul Milk  
 Premises No. 53  
 Midhaneswala  
 Ganga Khabra Road  
 Kolkata - 700 084, India  
 Tel. +91 33 66773000  
 Fax +91 33 44396004  
 E-mail: info@iceberg.com  
 www.iceberg.com

American Factory  
 75/2, Vellur Street  
 Park Street Road  
 Geyser Street, Geyser,  
 India  
 Tel. +91 02254 251342  
 Fax +91 02254 251282  
 E mail: shree@iceberg.com

Regd. Off. : Dalamal House, 1st Floor, J. B. Marg, Mumbai-400 021. Tel. : 022-2282 1173/74 Fax. : 022-222047835



## Certificate

THIS IS TO CERTIFY THAT DR. SHIMSUDDHITA H. AL-HADADI, B.Sc., Accredited Energy Auditor for Variable Speed Drives & Inverters has earned "Excellent Energy Audit" of four stars.

Our goal of building global skills through high-tech education sets apart from the energy saving measures recommended by their respective local. Such efforts include "Study of the energy consumption patterns" recommended by their already implemented by us as a result of projects that include: We are proud to announce that:

We appreciate the special efforts to improve the educational environment in Iraq by the Ministry of Education, Baghdad, Iraq, and the Ministry of Higher Education, Basra, Iraq. We are proud to announce that our students have achieved excellent results in the competition organized by the Ministry of Education, Baghdad, Iraq.

We thank you for your efforts and support in achieving this goal.

WE WILL STRIVE TO PROVIDE MORE EDUCATIONAL OPPORTUNITIES.

**Dr. H. AL-HADADI**  
Physics - Basrah



**DR. H. AL-HADADI**  
PHYSICS - BASRAH



FACULTY OF SCIENCE  
BASRAH UNIVERSITY



**Sri Vitala Sahasrabal Sahakar Karbhari Ltd.**  
Vetnangar  
Maha Sahasrabal Sahakar Karbhari Ltd. Vetnangar

DR. H. AL-HADADI

**Sri Vitala Sahasrabal Sahakar Karbhari Ltd.**

DR. H. AL-HADADI  
PHYSICS - BASRAH  
FACULTY OF SCIENCE  
BASRAH UNIVERSITY

DR. H. AL-HADADI  
PHYSICS - BASRAH  
FACULTY OF SCIENCE  
BASRAH UNIVERSITY

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**RELIANCE**



RELIANCE INDUSTRIES LIMITED  
MUMBAI



**REL IAN**  
RELIANCE INDUSTRIES LIMITED  
MUMBAI

**Reliance Industries Limited**

This is to certify that the undersigned is a member of the Board of Directors of Reliance Industries Limited, Mumbai, India, and is authorized to sign on behalf of the company in all matters relating to the business of the company.

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This is to certify that the undersigned is a member of the Board of Directors of Reliance Industries Limited, Mumbai, India, and is authorized to sign on behalf of the company in all matters relating to the business of the company.

Reliance Industries Limited

Mumbai



Reliance Industries Limited  
Mumbai

**Certificate**

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Reliance Industries Limited

Mumbai

Reliance Industries Limited

Mumbai

S. K. Gupta  
A. V. P.  
Reliance Industries Limited

Reliance Industries Limited



Guarantee

This warranty is for Raymond Luxury Cottons (RLC) items. It does not cover items that are damaged due to misuse, accidents, or other factors beyond our control. The warranty is void if the item is altered, repaired, or used in a way that is not intended by the manufacturer.

This warranty is only valid if the item is used in accordance with the manufacturer's instructions. It does not cover items that are damaged due to misuse, accidents, or other factors beyond our control.

This warranty is only valid if the item is used in accordance with the manufacturer's instructions. It does not cover items that are damaged due to misuse, accidents, or other factors beyond our control.

Our warranty is limited to the original purchaser.

Raymond  
Luxury Cottons

Raymond  
Luxury Cottons  
Limited

**Uttam Value Steels Limited**

Uttam Value Steels Limited  
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



Certificate by British Mineral and Engineering Consultants Ltd

Uttam Value Steels Limited is a company registered in Hong Kong.

The primary business of Uttam Value Steels Limited is the production of hot-rolled coils of mild steel. The company has a long history of producing high quality steel products for a wide range of applications. The company's products are used in a variety of industries, including construction, manufacturing, and transportation.

The company's products are produced in accordance with the requirements of the British Standard BS 4449. The company's products are used in a variety of applications, including construction, manufacturing, and transportation.

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Uttam Value Steels Limited





**RESERVE BANK OF INDIA**

www.rbi.org.in

FC.GH.No. 741.15.05/2011-12

January 20, 2012

**To Whomsoever it may Concern**

This is to certify that Mr. Shashibhushan S Agrawal BEEB Certified Energy Auditors along with his associates, various energy audit equipments, trained manpower has carried energy audit for Garment House Building.

We have implemented following recommendations from their energy audit report & achieved savings.

- 1) Replacement of central AC plant
- 2) SITC of APFC meter for maintaining power factor.
- 3) Replacement of lift controller with V3F drive.
- 4) Used CFL/PL(Energy Efficient Lights)

We are saving approximately 10,000 units per month.

We are satisfied with energy saving recommendations, services provided by him and found him competent for carrying energy audits for Energy Consumer like us.

We wish him all the best for future endeavors.

Date :- 20/1/12  
 Place :- Mumbai.

*Ranjana Kulkarni*  
 Asst. Manager (Genl.)  
 RANJANA KULKARNI, A.C. (Genl.)  
 P.F.A. No. M 0200

