



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

CERTIFICATE OF EMPANELMENT

*This is to certify that **M/s. Ottotractions**, (SRL-A21, Sasthamangalam. P.O, Thiruvananthapuram – 695010) is empanelled as Energy Audit firm in Energy Management Centre Kerala to conduct mandatory energy audit as per Government of Kerala G.O (Rt) No.2/2011/PD dated 01.01.2011.*

Empanelment No:

EMCEEA- 0211F-2

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

This empanelment is valid up to 20th December 2020

Issuing Date: 01/01/2018

Place: Thiruvananthapuram

Director,
Energy Management Centre Kerala

FORMAT - STATUS UPDATION

Name and address of the EMC registered Energy Audit firm (EMCREA)	OTTOTRACTIONS
Empanelment No.	EMCEEA- 0211F-1
Total Number of energy audits completed from date of registration with EMC. (No's) (in compliance with vide G.O (Rt) No.2/2011/PD dated 01.01.2011)	298
Number of energy audit reports presented before the review committee conceived by submitted to EMC (No's) (in compliance with vide G.O (Rt) No.2/2011/PD dated 01.01.2011)	25
Number of energy audit reports evaluated by review committee	25
Number of energy audits in progress (No's)	50

Details of Audit Firm

Details of Resource persons <i>(use additional sheets if required)</i>	SL No	Name, Address, Tel No and email	Qualification	Designation
	1.	SURESH BABU B V OTTOTRACTIONS otenergy@gmail.com	B TECH ACCREDITIED ENERGY AUDITOR	ACCREDITED ENERGY AUDITOR
	2.	BENCY ZACHARIAH OTTOTRACTIONS otenergy@gmail.com	DEPLOMA	DIRECTOR
	3.	THOMAS ZACHARIAH OTTOTRACTIONS otenergy@gmail.com	DEPLOMA	DIRECTOR
	4.	ARJUN V OTTOTRACTIONS otenergy@gmail.com	MBA	DATA ANALYSIT

	SL No	Name, Address, Tel No and email	EA/EM registration No	Qualification
Details of Certified Energy auditors/Energy Managers <i>(use additional sheets if required)</i>	1.	SURESH BABU B V OTTOTRACTIONS otenergy@gmail.com	AEA 33	ACCREDITED ENERGY AUDITOR
	2.	MOHAMMAD TASLIM K A OTTOTRACTIONS otenergy@gmail.com	EA-22995	CERTIFIED ENERGY AUDITOR
	3.	JAMSHED P UMAR OTTOTRACTIONS otenergy@gmail.com	EA-27859	CERTIFIED ENERGY AUDITOR
Details of energy audit equipment's <i>[Additional sheets attached]</i>		1. POWER QUALITY ANALYSER 2. FLUE GAS ANALYSER 3. LUX METER 4. ANEMOMETER 5. THERMAL IMAGER 6. INFRARED THERMOMETER 7. FLOW METER		

1. Details Of Energy Audit Completed

(Year 2014-15, 2015-16, 2016-17)

Sl No	NAME OF THE HT / EHT CONSUMER	PRESENT STATUS	
		Date of submission of Report.	Whether report have evaluated by EMC (Yes/No)
1	Attached	Attached	Attached
2	Attached	Attached	Attached
3	Attached	Attached	Attached
4	Attached	Attached	Attached

2. Details of Energy Audit in Progress

Sl. No	NAME OF THE HT / EHT CONSUMER
1	Attached
2	Attached
3	Attached
4	Attached
5	Attached

Enclosures

1. Client List
2. Equipment List

LIST OF INSTRUMENTS OWNED BY OTTOTRACTIONS (As on April 2018)

SI No	Details Of Equipment	Make	Model
Electrical			
1	Power Quality Analyzer	Hikoi	3197
2	Power Quality Analyzer	Hikoi	PW 3360-21
3	Power Quality Analyzer	Elcontrol	Micro VIP 3+
4	Power Quality Analyzer	Hikoi	3286
5	Harmonic Analyser	Elcontrol	Nano Mem +
6	Digital Earth Resistance Tester	CIE	DET-2000
7	True RMS 6000 Count Handheld Digital Multimeter	Agilent	U1232a
Thermal			
8	Flue Gas Analyzer	Kane	Kane-450
9	Thermal Imager	Testo	875-1i
10	Infrared Thermometer	Hioki	3419-20
11	Infrared Thermometer	Fluke	62 Mini
12	Mercury Thermometers.	Zeal	
13	Digital Thermometer (Thermocouples)	Select	CH 403
Other			
14	Non Contact Tacho Meter.	Lutron	DT-2234c
15	Lux Meter	Extech	HD450
16	Lux Meter	Lutron	Lx-101
17	Strobo Scope	Testo	477
18	Anemo Meter	Metravi	AVM-02
19	Alti Meter/ Hygrometer	HTC	AL-7010
20	GPS	Gramin	MAP62
21	Ultrasonic Flow Meter	Greyline	FM4+E9:H3130

B V SURESH BABU



Email and website:

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otenergy@gmail.com
www.ottotractions.com

Address for Communication: -

Residence:

“UPANADAM”
170- DEVI NAGAR
VALIYAVILA, THIRUMALA P O
TRIVANDRUM- 06

Office:

OTTOTRACTIONS, SRL-A21,
SASTHAMANGALAM P O
TRIVANDRUM-695010

Phone:-

Mobile : +91 9447068747
Res : +91 471 2368747

Professional Associations:

1. **Fellow SEEM** (Society for energy engineers and managers)
2. Head, Energy Division, CISSA, Centre for Innovation in Science and Social Action.
3. Coordinator, FAEA, Forum of Accredited Energy Auditors, India
4. Founder Secretary of *the IDEAS* (The institute of social engineers in Developmental Activities)

Professional Qualification

- Accredited Energy Auditor, Bureau of Energy Efficiency Government of India, AEA-0033.
- Empaneled Accredited Energy Auditor, Bureau of Energy Efficiency Government of India, EmAEA-035
- Empaneled Energy Auditor , EMC, Government of Kerala
- Authorized Energy Auditor, GEDA, Government of Gujarat
- Empaneled Energy Auditor, ISTSL, SIDBI
- Advanced Studies in Bioenergy Systems, Indian Institute of Science, Bangalore.
- B-Tech in Mechanical- Production Engineering, Kerala University.

Awards

Won “**Kerala State Energy Conservation Award**” in appreciation of the commendable achievements towards energy conservation and management in the category of best performance as an Energy Auditor in the state of Kerala.

First Energy Auditor from Kerala State to get National Accreditation from Bureau of Energy Efficiency , Government of India

Technical Expertise

Energy Management: Mandatory Energy Audits (Thermal and Electrical), Focused area audit like Compressed air, Pumping, Process, Electrical and Thermal systems, Power Quality Analysis, Carbon Mitigation Projects, Low carbon projects.

Renewable Energy: Consultancy and implementation support for Small and Micro Hydel Projects, Biomass Projects (Thermal and Electrical), Solar systems (Electrical and Thermal), Biogas, and other RE based devices.

Area of Interest

- Energy Studies, Supply and Demand side Studies
- Energy auditing and implementing energy efficiency projects.
 - Studies in Low Carbon Technologies.
 - Associating with institutions and individuals working in the related area.
 - Conducting classes/training in Energy and Engineering systems, Renewable energy etc.
 - Science writing and associating with people science movements.

PROFESSIONAL EXPERIENCE

Have an experience of 18 years as an Engineer.

1. Professional experience record (projects):

Date: from (month/year) to (month/year)	April 2005 to till date
Location	Trivandrum , Kerala, India
Company	OTTOTRACTIONS
Position	Co-founder and Accredited Energy Auditor
<p><i>Responsibilities</i></p> <ul style="list-style-type: none"> ➤ Lead the energy audit team in the Capacity of Accredited Energy Auditor of Bureau of Energy Efficiency, Government of India and Senior Consultant ➤ Energy efficiency project preparation and implementation and Vendor development. ➤ Project implementation of Solar Power Plants, Micro/Pico Hydel Projects, and Biomass based energy systems. ➤ Conducting training program and awareness programs. <p><i>Major Projects Associated</i></p> <ol style="list-style-type: none"> 1. Conducted/associated over 380 detailed energy audits and PAT M&V audit in diversified industries (including Designated Consumers) in India through OTTOTRACTIONS. 2. Completed the project “Screening of 37 PSUs in Kerala for Carbon Emission Reduction and CDM benefits” funded by Directorate of Environment and Climate Change (DoECC), Government of Kerala. 3. Principal Investigator of the Project “Low Carbon Schools” funded by Kerala State Science Technology and Environment (KSSTE) through CISSA. 4. Co-Investigator of the project “Low Carbon Schools in Munnar, Kerala funded by DoECC through CISSA. 5. Actively associating with renewable energy projects like Solar, Gasifier, Small and Pico Hydel projects, , Biogas etc. 6. Conducted Energy Audits of public spaces in four panchayats of Kerala as part of Model Energy Efficient Grama Panchayat Project of EMC- Government of Kerala. 7. Assessment of Energy Conservation Potential of 4 identified clusters in Kerala, A project of Bureau of Energy Efficiency, Govt of India, and responsibility to conduct the study in the state of Kerala in association with National Productivity Council. 8. Reconnaissance Study of Potential Small Hydro Projects at Malappuram and Thrissur Districts of Kerala, India, for Total Energy Security Mission, ANERT, Kerala. During the study, identified 130 potential small or pico hydel project sites. 9. Implementation of Pico Hydel Projects with cost effective technologies (10kVA, 15kVA already installed with PAT technology). 10. Implementation of Cost Effective Solar Power Plants (2kVA grid interactive already installed). 11. Developed a wood gas stove (biomass gasifier based) for domestic application. The stove has been demonstrated at various “<i>National workshops on cooking stoves</i>”. The stove is tested and has an efficiency of 55% (existing open fire stove has an efficiency of 15% only). The stove is now running on field testing with the help of a reputed NGOs. 12. Project coordinator for PROMISS (<i>PROMOTION OF MICRO ENTERPRISES</i>) 	

FOR SUSTAINABLE DEVELOPMENT THROUGH INNOVATIVE SELF HELP GROUPS(The project prepared for Ranni Block Panchayath for poverty alleviation through sustainable development and woman empowerment).This Project has been sanctioned by the Government of Kerala and is under the consideration of Government of India, in its Special SGSY scheme. The total project out lay is Rs. 15 Cores.

Date:	2003 June to 2005 March.
Location	Palakkad, Kerala
Company	INTEGRATED RURAL TECHNOLOGY CENTRE (IRTC), PALAKKAD, KERALA.
Position	Scientist
<p><i>Responsibilities</i></p> <ul style="list-style-type: none"> ➤ Coordinating and managing the projects undertaken by the energy division ➤ Provide engineering support to various projects and division in the institution. <p><i>Projects Associated</i></p> <ol style="list-style-type: none"> 1. Active team member of the project “<i>Field testing of down draft biomass gasifier using coconut wastes as fuel</i>” done at IRTC in association with Indian Institute of Science (IISc), Bangalore and Centre for Development Studies (CDS) Trivandrum. 2. Team member for the project for developing “<i>Producer gas based cooking burner for domestic applications</i>”. 3. Team Member of the project “<i>An investigation into the effects of high harmonics and low power factor of low cost energy efficient lighting devices in typical rural distribution system</i>”, this project is done by IRTC in collaboration with KSEB, Trivandrum in 2004. 4. Coordinator of the project “<i>Energy audit in selected rice mills of Palakkad district</i>” in association with Energy Management Centre (EMC), Trivandrum and NSS engineering college, Palakkad. 5. Co-investigator of the project “<i>Investigation on the wastages of engineering colleges in Kerala</i>”, (www.cds.edu) the study has been conducted with the support from Centre for Development Studies (CDS) in its KRPLLD project. The study reveals the reasons behind the failures and wastages in the engineering colleges of Kerala state. 6. Team leader for the development and fabrication of ball mills, stirrers and transfer mechanisms for the project “<i>Development of natural rubber latex based coating compound for the modification of polystyrene Hot Box to improve durability and aesthetics</i>” a project funded by Department of Science and Technology, Government of India. 7. Designed a 90 tonne per day capacity solid waste treatment plant screening facility of Palakkad Municipality. Developed innovative screening mechanisms and designed an optimum process line for the system. 8. Team member of the project “<i>Development of a plastic bag screener and self-cleaning rotary screener</i>” for the solid waste treatment plants for medium and big cities. 9. Designed and developed a de-fluoridation equipment to be used for the community based water tanks in Palakkad district. 10. Study on the energy conservation opportunity identification in domestic sector is another area of activity. 	

Date:	May 2000 to May 2003
Location	New Delhi
Company	TECHLAB, NEW DELHI
Position	Engineer R&D
<p><i>Responsibilities</i></p> <ol style="list-style-type: none"> 1. Team member of the project for the development of vaporizers, solenoids, multivalve: essential parts for the gaseous fueling in automobiles. I was responsible to complete the homologation process at Automotive Research Association India (ARAI), Pune and Department of Explosives, Nagpur according to UNECE-67-R1 regulation and Government of India rules. Completed this work successfully and all these products are now in the market and performing well. 2. Responsibility to be the management representative (MR) for the ISO certification process: for the quality assurance program of the organization. Attended training programs on QMS by BIS and other organisations in this regard. 3. Active team member for the development of auto gas fueling system for three wheelers by Scooters India Ltd. (SIL) Luknow. This project was successfully completed and in the process developed an optimized vaporizers, mixer and other safety valves and the vehicle was launched on 6th Auto Expo at New Delhi. 4. Team member for the development of a fueling system for a dual fuel mode 1500W 4 Stroke generator, which resulting in a considerable reduction in emission and increased fuel, and thermal efficiency and this system is launched in the market. 	

PUBLISHED PAPERS & ARTICLES

1. Published an article on Teleportation “*Vichitra Kalpanakalku Jeevan Vakkumpol*” in “*Vijnanakairali*” official scientific magazine of Kerala Government.
2. Published an article in *Energy Efficiency Manager, a quarterly magazine of society of Energy Engineers and Managers, India* on Domestic Energy Conservation Technologies (April-June/2017/Vol::10/No::02, ISSN0974-0996 Page 11 to 20)
3. Presented a paper in Kerala Environment Congress 2017 on Energy Management and Climate Change Mitigation along with Mr AM Narayanan and Mr. Sandeep K
4. Co-authored with Prof: C J Sivasankaran and Prof: P K Ravindran and published the findings of the project “*Investigation on the wastages of engineering colleges in Kerala*”. (<http://www.cds.ac.in>)
5. “*Rural energy initiatives in Kerala*” has been published in the annual report of Karl Kuber Institute, Coimbatore.
6. Presented “*Gasifier based wood gas cooking stove for domestic use*” at the national workshop on cooking stoves organized by ANERT, Government of Kerala. The presentations and demonstration of the stove were appreciated well in the programme. The same were covered by various print and visual media.
7. Presented a paper on “*Biomass gasification performance of a 5KWe gasifier by using locally available biomass like coconut fronds*”. The paper has been presented in the National workshop on ‘*The studies on renewable energy and non-conventional energy systems*’ conducted by EMC in June 2004.

8. Presented a paper on Energy Efficiency and Energy management in Health care systems at Trivandrum in February 2010.

TRAINING DETAILS

1. “*International training programme on Bio-energy* “ held on June 2007 at Combustion, Gasification and Propulsion Laboratory (CGPL) Department of Aerospace Engineering, Indian Institute of Science (IISc), Bangalore. During this training I have acquired knowledge on the fundamentals of biomass utilization and applications involving advanced technologies for power generation.
2. Took number of classes for in energy efficiency in association with PCRA, WWF, EMC, BEE, FICCI etc.
3. Trainer at Various energy efficiency capacity building programs for industries and other stake holders.
4. Participated in various workshops and seminars on Bio energy and energy efficiency.

B V Suresh Babu

Client List (Completed / Ongoing)



Sl No	Code	Project	LOCATION	Year	Month
1	EA 299	KIMS- North	Trivandrum	2018	April
2	EA 298	KIMS - Mains	Trivandrum	2018	April
3	EA 297	Vetinary Dispensary	Panniannoor	2018	April
4	EA 296	Sisumandiram	Panniannoor	2018	April
5	EA 295	UPS Chambad West	Panniannoor	2018	April
6	EA 294	LPS Puzhikkal	Panniannoor	2018	April
7	EA 293	LPSA ---anitha	Panniannoor	2018	April
8	EA 292	Panchayath Samskarika Nilayam	Panniannoor	2018	April
9	EA 291	LPS Chambad 2	Panniannoor	2018	April
10	EA 290	HSS Chothavoor	Panniannoor	2018	April
11	EA 289	HS Chothavoor	Panniannoor	2018	April
12	EA 288	Krishibhavan	Panniannoor	2018	April
13	EA 287	Vetinary Subcentre	Panniannoor	2018	April
14	EA 286	UPS Kunnummal	Panniannoor	2018	April
15	EA 285	LPS Chambad	Panniannoor	2018	April
16	EA 284	LPS Marankandi	Panniannoor	2018	April
17	EA 283	UPS Arayakkool	Panniannoor	2018	April
18	EA 282	LPS Pannyannor	Panniannoor	2018	April
19	EA 281	Homeo Hospital	Panniannoor	2018	April
20	EA 280	LPS Periyandi	Panniannoor	2018	April
21	EA 279	PHC Pannyannor	Panniannoor	2018	April
22	EA 278	Village Office	Panniannoor	2018	April
23	EA 277	LPS Bavanteparamba	Panniannoor	2018	April
24	EA 276	Ayurveda Dispensary	Panniannoor	2018	April
25	EA 275	Panoor Block Panchayat Office	Panniannoor	2018	April
26	EA 274	Panchayat Office	Panniannoor	2018	April
27	EA 273	LPS Kuttipram	Panniannoor	2018	April
28	EA 272	AG's Office Building	Trivandrum	2018	April
29	EA 271	Drinking Water Project	Vadyarukonam	2018	April
30	EA 270	Drinking Water Project	Valupara	2018	April
31	EA 269	Drinking Water Project	Koovaparamb	2018	April
32	EA 268	Village Office	Pullampara	2018	April
33	EA 267	Homeo Hospital	Chullalam	2018	April
34	EA 266	Ayurveda Dispensary	Vellumannady	2018	April
35	EA 265	Maveli Store	Maruthummood	2018	April
36	EA 264	Anganavadi Buildings 2 (13 no)	Pullampara	2018	April
37	EA 263	Anganavadi Buildings 1 (12 no)	Pullampara	2018	April
38	EA 262	Veterinary Dispensary	Thembamood	2018	April
39	EA 261	Krishi Bhavan	Pullampara	2018	April
40	EA 260	Gramapanchayath Office Thembamood	Pullampara	2018	April
41	EA 259	Model School LPS Thembamood	Pullampara	2018	April
42	EA 258	Navajyothi LPS Perumala	Pullampara	2018	April
43	EA 257	RM UPS Vayyakkav	Pullampara	2018	April
44	EA 256	KV UPS Vellumannadi	Pullampara	2018	April
45	EA 255	Janatha HSS Thempamood	Pullampara	2018	April
46	EA 254	Panayam Govt LPS	Pullampara	2018	April
47	EA 253	Nedumkaitha Govt LPS	Pullampara	2018	April
48	EA 252	Vellumannadi Govt LPS	Pullampara	2018	April
49	EA 251	Mukkudil Govt LPS	Pullampara	2018	April
50	EA 250	Perumala Govt LPS	Pullampara	2018	March
51	EA 249	Jersey Farm	Chettachal	2018	March
52	EA 248	Malithara Foundry	Kidangara	2018	March

53	EA 247	Homeo Hospital	Kunnam	2018	March
54	EA 246	Medical Sub centres	Vechoochira	2018	March
55	EA 245	Anganavadi Buildings	Vechoochira	2018	March
56	EA 244	Government HSS	Colony	2018	March
57	EA 243	Pump House	Perumthenaruvi	2018	March
58	EA 242	Community Hall	Koothattukulam	2018	March
59	EA 241	Community Hall	Kollammula	2018	March
60	EA 240	Police Station	Vechoochira	2018	March
61	EA 239	Village Office	Kollammula	2018	March
62	EA 238	Government LPS	Chathanthara	2018	March
63	EA 237	Government LPS	Paruva	2018	March
64	EA 236	Government LPS	Vattukunnu	2018	March
65	EA 235	Government LPS	Kunnam	2018	March
66	EA 234	Community Health Centre	Vechoochira	2018	April
67	EA 233	Veterinary Dispensary	Chathanthara	2018	May
68	EA 232	Veterinary Dispensary	Vechoochira	2018	June
69	EA 231	Ayurveda Dispensary	Vechoochira	2018	July
70	EA 230	Agricultural Office	Vechoochira	2018	August
71	EA 229	Panchayat Office	Vechoochira	2018	Sep
72	EA 228	MC Cherian Hospital, Ranni	RANNI	2018	March
73	EA 227	KSEB- MEA	KER	2018	Jan
74	EA 226	KWA, Thiruvalla	KTM	2018	Jan
75	EA 225	SMART IOPS	TV	2018	Jan
76	EA 224	Techno Park	TVM	2017	Nov
77	EA 223	Kudumbasree HQ	TVM	2017	Nov
78	EA 222	GPT Kannur Block 4		2017	
79	EA 221	GPT Kannur Block 3		2017	
80	EA 220	GPT Kannur Block 2		2017	
81	EA 219	GPT Kannur Block 1		2017	
82	EA 218	Cochin Shipyards Ltd	ERN	2017	Nov
83	EA 217	Mathrubhumi Kannur	KNR	2017	Nov
84	EA 216	Mathrubhumi Kinfra	TVM	2017	Nov
85	EA 215	Lafarge Novoco	Jamshedpur	2017	DEC
86	EA 214	Bharatiya Vidya Niketan	Parassala		
87	EA 213	Solar Testing at AG Home TC	Thrissir	2017	oct
88	EA 212	ANERT	Trivandrum	2017	OCT
89	EA 211	KILA	Thrissur	2017	OCT
90	EA 210	Mini Civil Sation Building 4	Pathanmthitta	2017	Oct
91	EA 209	Mini Civil Sation Building 3	Pathanmthitta	2017	Oct
92	EA 208	Mini Civil Sation Building 2	Pathanmthitta	2017	Oct
93	EA 207	Mini Civil Sation Building 1	Pathanmthitta	2017	Aug
94	EA 206	IT @ School	Trivandrum	2017	Oct
95	EA 205	Meenangadi GP	Wayanad	2017	Aug
96	EA 204	Civil Sation Building	Pathanmthitta	2017	Aug
97	EA 203	Solar Testing at Assisi for TC	Thrissur	2017	Aug
98	EA 202	Kerala Water Authority PS	Attingal	2017	Aug
99	EA 201	Oushadhi	Thrissur	2017	Aug
100	EA 200	TCL- IIT Chennai	Chennai	2017	May
101	EA 199	ISTL 2- CROWN	Chennai	2017	May
102	EA 198	ISTL 1- ATPL	Banglore	2017	May
103	EA 197	Baratheeya Vidya Bhavan- Pooj	Poojapura	2017	May
104	EA 196	Baratheeya Vidya Bhavan-Man	Manvila	2017	May
105	EA 195	Baratheeya Vidya Bhavan HSS	Kodunganoor	2017	May
106	EA 194	Baratheeya Vidya Bhavan HS	Kodunganoor	2017	May
107	EA 193	KTDC - Motel Araam	Alleppey	2017	April
108	EA 192	KTDC - Motel Araam	Kayamkulam	2017	April
109	EA 191	KTDC - Motel Araam	Mangattuparambu	2017	April

110	EA 190	KTDC - Motel Araam	Kottarakara	2017	April
111	EA 189	KTDC-Tamarind Easy Hotel	Peerumedu	2017	April
112	EA 188	KTDC-Tamarind Easy Hotel	Thirunelli	2017	April
113	EA 187	KTDC-Tamarind Easy Hotel	Mannarkadu	2017	April
114	EA 186	KTDC-Tamarind Easy Hotel	Nilambur	2017	April
115	EA 185	KTDC-Tamarind Easy Hotel	Parassinikadavu	2017	April
116	EA 184	Rain Drops,	Chennai	2017	April
117	EA 183	KTDC-Garden House	PKD	2017	April
118	EA 182	Hindustan Latex Limited(HII)	TVM	2017	April
119	EA 181	SIB HO Building	TSR	2017	April
120	EA 180	SIB RO Building	TSR	2017	April
121	EA 179	SIB Market Road Building	ERN	2017	April
122	EA 178	SIB Ayyanthole Building	TSR	2017	April
123	EA 177	Muthoot Skychef, Trivandrum	TVM	2017	
124	EA 176	Hindustan Latex Limited(HII) KFC	ERN	2017	April
125	EA 175	ILDLM Building	TVM	2017	April
126	EA 174	ILDLM Academic	TVM	2017	April
127	EA 173	Asian School of Business	TVM	2017	April
128	EA 172	Energy Management Centre	TVM	2016	
129	EA 171	DM Wayanad Medical College	WND	2016	
130	EA 170	Government Secretariate	TVM	2016	
131	EA 169	Thanal Disply Centre	TVM	2016	
132	EA 168	Thanal Organic Bazar	TVM	2016	
133	EA 167	Thanal Head Quarter	TVM	2016	
134	EA 166	Union Bank of India	TVM	2016	
135	EA 165	Thrissur Corperation ED Buildings	TSR	2016	
136	EA 164	Thrissur Corperation Buildings	TSR	2016	
137	EA 163	Desabhimani News Papers	MLP	2016	
138	EA 162	Medical College Trivandrum	TVM	2016	
139	EA 161	Sainik School Boiler Study	TVM	2016	
140	EA 160	AVT Rubbers	PUN	2016	
141	EA 159	Kerala Kumudi Kollam	KOL	2016	
142	EA 158	Thellissery Cooperative Hospital	TSY	2016	
143	EA 157	TRIDA	TVM	2016	
144	EA 156	All India Radio	TVM	2016	
145	EA 155	SCTIMST BMT Wing	TVM	2016	
146	EA 154	A K G Centre	TVM	2016	
147	SA 1	Sudharsan Sree Padmanabha	TVM	2016	
148	SA 2	Sreelakshmi Sree Padmanabha	TVM	2016	
149	ES-29	Servvel L & C (Appolo)	TSR	2016	
150	WA 1	Wonder La Water Audit	EKM	2016	
151	EA 153	Wonder La Energy Audit	EKM	2016	
152	EA 152	Kerala Kaumudi	TVM	2016	
153	EA 151	Quality Plumber Line Products	TSR	2016	
154	EA 150	Aone Plastics	TSR	2016	
155	EA 149	Vaikundam Auditorium	TVM	2016	
156	EA 148	Instrument Workshop	TVM	2016	
157	EA 147	Wood Workshop	TVM	2016	
158	EA 146	Pressure Die Casting Unit	TVM	2016	
159	EA 145	SIDCO Tools	KLM	2016	
160	EA 144	Straw Board Factory	MNR	2016	
161	EA 143	Wood Workshop	MKR	2016	
162	EA 142	Service Workshop	TSR	2016	
163	EA 141	Wood Workshop	KKD	2016	
164	EA 140	Tool Room	KKD	2016	
165	CE-39	Earth Day Network 2016	KER	2016	
166	EA 139	Pepper Grove	WND	2016	

167	EA 138	Garden House Malampuzha	PKD	2016	
168	EA 137	SCTIMST Hospital	TVM	2016	
169	EA 136	KTDC Tamrind Kollam		2016	
170	EA 135	Periyar House	PTN	2016	
171	EA 134	Legislative Assembly, Trivandrum	TVM	2015	
172	EA 133	Gramakala, IRTC	PKD	2015	
173	EA 132	Tamrind Easy Hotel , Neyyar	TVM	2015	
174	EA 131	Golden Peak , Ponmudi	TVM	2015	
175	EA 130	KTDC Corporate Office	TVM	2015	
176	EA 129	Water scapes	KTM	2015	
177	EA 128	Aranya Nivas	PTN	2015	
178	EA 127	Hotel Chaithram	TVM	2015	
179	EA 126	VGTPS	RMP	2015	
180	EA 125	Reserve Bank of India	ERN	2015	
181	EA 124	Seil Chemicals Ltd	PUN	2015	
182	EA 123	Brahmapuram Diesel Power Plant	ERN	2015	
183	EA 122	Kerala Ayurvedic Studies and Research Society, Kottakkal	MLP	2015	
184	EA 121	Tata Communications	ERN	2015	
185	EA 120	AVT Rubbers	PUN	2015	
186	EA 119	Tata Consultancy Services CLC	TVM	2015	
187	EA 118	Tata Consultancy Services Pepul P2	TVM	2015	
188	EA 117	State Bank of Travencore	TVM	2015	
189	EA 116	MACFAST	TVL	2015	
190	EA 115	Catholic Syrian Bank	ERN	2015	
191	EA 114	Orion Mall	BNG	2015	
192	EA 113	Aspinwall Rubber Factory	MLP	2015	
193	EA 112	Rajadhani Institute of Tech	TVM	2015	
194	EA 111	Pankaja Kasturi College of Engg 1	TVM	2015	
195	EA 110	Assisi College of Engineering 2	TVM	2015	
196	EA 109	Upasana Hospital	QLN	2014	
197	EA 108	Mathrubhoomi News	ERN	2014	
198	EA 107	Mathrubhoomi	TVM	2014	
199	EA 106	Mathrubhoomi News	TVM	2014	
200	EA 105	Autokast	ALP	2014	
201	EA 104	KIMS Hospital North	TVM	2014	
202	EA 103	TTK Health Care Ltd	TVM	2014	
203	EA 102	IRTC	PKD	2014	
204	EA 101	KIMS Hospital Main	TVM	2014	
205	EA-100	Priya Accumulators SME	KTM	2014	
206	EA-99	Leela Electric SME	ERN	2014	
207	EA-98	Intermix Factory	KOT	2014	
208	EA-97	Crump Rubber Factory,	KOT	2014	
209	EA-96	Rubek Baloon Factory,	ERN	2014	
210	EA-95	Cochin Shipyard Ltd	EKM	2014	
211	EA-94	Lourde Hospital	KNR	2014	
212	EA-93	SN Dental Hospital	TVM	2014	
213	EA-92	Assisi College of Engineering 1	TVM	2014	
214	EA-91	SMA Rameswaram	ERN	2014	
215	EA-90	Kerala State Planning Board	TVM	2014	
216	EA-89	Centre for Environment Developemnt	TVM	2014	
217	EA-88	Ramco Cements, Salem	SAL	2014	
218	EA-87	Centre for Developement Studies	TVM	2013	
219	EA-86	Amala Institute of Medical Science	TSR	2013	
220	EA-85	AVT Rubbers	PUN	2013	
221	EA-84	Mohan Das College of Engineering	TVM	2013	
222	EA-83	Lulu Hyper Market	ERN	2013	
223	EA-82	Manmohan Banglaw	TVM	2013	

224	EA-81	Tata Communications	ERN	2013	
225	EA-80	Aditech	TVM	2013	
226	EA-79	Sagara Sea Food	GUD	2013	
227	EA-78	Key Key Sea food	ERN	2012	
228	EA-77	Oushadhi	TSR	2012	
229	EA-76	Desabhimani Daily	MLP	2012	
230	EA-75	Desabhimani Daily	KNN	2012	
231	EA-74	Desabhimani Daily	KOZ	2012	
232	EA-73	Desabhimani Daily	TSR	2012	
233	EA-72	Desabhimani Daily	ERN	2012	
234	EA-71	Desabhimani Daily	KOT	2012	
235	EA-70	Corporation Office	TVM	2012	
236	EA-69	KAIRALI STEELS&ALLOYS	ERN	2012	
237	EA-68	DC Mill	ALP	2012	
238	EA-67	KOTTACKAL AGRO FOODS	ERN	2012	
239	EA-66	POOJA MODERN RICE MILL	ERN	2012	
240	EA-65	Desabhimani Daily	TVM	2012	
241	EA-64	Ambady Dairy Products	TVM	2012	
242	EA-63	Suntec Buisiner Solutions	TVM	2012	
243	EA-62	Kumarakam Lake Resort	KOT	2012	
244	EA-61	Redegg Tower	NAG	2012	
245	EA-60	Redegg Park	NAG	2012	
246	EA-59	KIMS Hospital	TVM	2011	
247	EA-58	Hotel Leela Kempinski	TVM	2011	
248	EA-57	TATA COMMUNICATIONS	ERN	2011	
249	EA-56	SPICES BOARD	ERN	2011	
250	EA-55	KTDC CHAITRAM	TVM	2011	
251	EA-54	KTDC THEKKADY	TKD	2011	
252	EA-53	KTDC SAMUDRA	TVM	2011	
253	EA-52	KTDC BOLGATTY	ERN	2011	
254	EA-51	KTDC TEA COUNTY	MUN	2011	
255	EA-50	KTDC GURUVAYOOR	TSR	2011	
256	EA-49	KTDC WATER SCAPES	ALP	2011	
257	EA-48	KTDC CORPORATE	TVC	2011	
258	EA-47	POOVAR ISLAND RESORTS.	TVC	2011	
259	EA-46	Prabhuram Mills, KSTC	CHE	2011	
260	EA-45	Kottayam Textiles, Kottayam	KOT	2011	
261	EA-44	Malabar Textiles, Kozhikode	KOZ	2011	
262	EA-43	Edarikkod Textiles, Edarikode	EDA	2011	
263	EA-42	Steel And Industrial Forgings Limited, Athani, (SIFL)	TSR	2011	
264	EA-41	Rehabilitation Plantations Limited,Punalur	KLM	2011	
265	EA-40	Kollam Municipal Water Supply System	KLM	2011	
266	EA-39	Quilon Cooperative Spinning Mill Ltd, Chathannoor	KLM	2010	
267	EA-38	Thrissur Cooperative Spinning Mills Ltd, Vazhani	TSR	2010	
268	EA-37	Travancore Titanium Products Limited, (For IEM	TVM	2009	
269	EA-36	Intermix Factory,Rubmark,Kaduthuruthy,	KOT	2010	
270	EA-35	Crump Rubber Factory, Rubmark ,Chenappady,	KOT	2010	
271	EA-34	Rubek Baloon Factory, Rubmark , Perumbavoor, Kerala	ERN	2010	
272	EA-33	Energy Study at Government Treasuries	TVM	2009	
273	EA-32	Hotel Samudra,	TVM	2010	
274	EA-31	Poovar Island Resorts,	TVM	2010	
275	EA-30	Dental College Trivandrum,	TVM	2010	
276	EA-29	Kerala Feeds Limited, Govt Of Kerala,	TSR	2009	
277	EA-28	Kerala Science And Technology Museum and	TSR	2009	
278	EA-27	Traco Cables Ltd, Govt Of Kerala, Thiruvalla.	PTN	2009	
279	EA-26	Rehabilitation Plantations Limited,Punalur	KLM	2008	
280	EA-25	Sainik School, Kazhakkottam,	TVM	2008	

281	EA-24	Hindustan Latex Limited(HIL), Trivandrum	TVM	2007	
282	EA-23	Cosmopolitan Hospital, Thiruvananthapuram	TVM	2009	
283	EA-22	Sut Super Speciality Hospitals, Thiruvananthapuram.	TVM	2010	
284	EA-21	Alliance (Lessees) Jute Mill, Kolkatta,	KOL	2010	
285	EA-20	Travancore Chemical Manufactures (TCM), Selam,	TN	2010	
286	EA-19	HOTAL ARAM , KTDC	ALP	2007	
287	EA-18	Yatri Nivas, KTDC	ALP	2007	
288	EA-17	Pressure Die Casting Unit,	TVM	2009	
289	EA-16	Government Instrument Workshop.	TVM	2009	
290	EA-15	Government Wood Workshop,	TVM	2009	
291	EA-14	Kerala Sidco Limited, Mavelikkara.	KOT	2009	
292	EA-13	Sidco Tools, Govt Of Kerala ,Umayanellur	KLM	2009	
293	EA-12	Straw Board Factory, Govt Of Kerala ,Sidco, Parumala	KOT	2009	
294	EA-11	Sidco Service Workshop,	TSR	2009	
295	EA-10	Government Wood Workshop,	KOZ	2009	
296	EA-9	Trivandrum Club,	TVM	2010	
297	EA-8	Handicraft Development Corporation Of Kerala, Head	TVM	2008	
298	EA-7	Handicraft Development Corporation Of Kerala, Central	TVM	2008	
299	EA-6	Handicraft Development Corporation Of Kerala, SMSM	TVM	2008	
300	EA-5	Handicraft Development Corporation Of Kerala, Kairali,	TVM	2008	
301	EA-4	Kerala State Bamboo Corporation Limited, Angamali.	ERN	2006	
302	EA-3	A B L Cylinders (Lpg Cylinder Manufacturer)	ERN	2006	
303	EA-2	Desabhimani Daily, (7 Units)	TVM	2005	
304	EA-1	Ashtamudi Resorts	KLM	2005	
305	PAT 1	Malabar Cements Ltd	PKD	2015	
306	ES-28	Muthoot Skychef, Trivandrum	TVM	2015	
307	ES-27	KIMS Hospital, Trivandrum	TVM	2015	
308	ES-26	Domestic Energy Audit Manual Preperation	TVM	2015	
309	ES-25	KTDC Corporate Office PF Study	TVM	2015	
310	ES-24	Domesting Energy Audit, THM	ERN	2015	
311	ES-23	Electrical system efficiency study	VIZ	2014	
312	ES-22	Thermo Graphic Study ar Vizag Ship	VIZ	2014	
313	ES-21	Tariff Change : Tata Communications	ERN	2014	
314	ES-20	EMC Refridgerator Study	TVM	2014	
315	ES-19	Deshabhimani Kottayam	KTM	2014	
316	ES-18	Thermographic Study at Muthoot PTA	PTA	2014	
317	ES-17	Thermographic Study at Muthoot KZC	PTA	2014	
318	ES-16	Amala IMS	TSR	2013	
319	ES-15	Rubek Balloons	ERN	2013	
320	ES-14	Power Quality Analysis : Tata Communications	ERN	2013	
321	ES-13	Bayleaf, Thiruvananthapuram	TVM	2012	
322	ES-12	PQA & Thermography at LEELA	TVM	2012	
323	ES-11	PQA & Thermography at KIMS	TVM	2012	
324	ES-10	PQA & Thermography : Tata Communications	ERN	2011	
325	ES-9	Screening of Industrial PSUs in Kerala for Carbon Emission Reduction and CDM Benefits - Report-1	KER	2010	
326	ES-8	Screening of Industrial PSUs in Kerala for Carbon Emission Reduction and CDM Benefits - Report-2	KER	2011	
327	ES-7	Screening of Industrial PSUs in Kerala for Carbon Emission Reduction and CDM Benefits - Report-3	KER	2011	
328	ES-6	Ayur Green Health Care, (Team Sustain),Edappal	MLP	2011	
329	ES-5	Assessment of Energy Conservation Potential of 4 identified clusters in Kerala - (Rice , Rubber, Steel,	KER	2009	
330	ES-4	Power Quality Study at Residential Building , Granma	TVM		
331	ES-3	Energy Study at Residential Building , TVM-1	TVM		
332	ES-2	Light Efficiency Study of LED Street Lighting, Trivandrum	TVM		
333	ES-1	Sarphin Comercial Building, Kochi	ERN		

334	CE-38	Earth Day Network Green Cities	KER	2015	
335	CE-37	Foam Mattings(India) Ltd, Alappuzha	KER	2011	
336	CE-36	Kerala Automobiles Ltd, Neyyattinkara,	KER	2011	
337	CE-35	Kerala Ceramics Ltd, Kundara, Kollam	KER	2011	
338	CE-34	Kerala Clays & Ceramic Products Ltd, Pappinisseri,	KER	2011	
339	CE-33	Kerala Electrical and Allied Engineering Co. Ltd., Kochi	KER	2011	
340	CE-32	Kerala Feeds Ltd., Kallettumkara, Thrissur	KER	2011	
341	CE-31	Kerala Minerals & Metals Ltd., Chavara, Kollam	KER	2011	
342	CE-30	Kerala State Bamboo Corporation Ltd., Angamaly South	KER	2011	
343	CE-29	Kerala State Cashew Development Corporation Ltd.,	KER	2011	
344	CE-28	Kerala State Drugs and Pharmaceuticals Ltd., Kalavoor,	KER	2011	
345	CE-27	Kerala State Road Transport Corporation Ltd.,	KER	2011	
346	CE-26	Malabar Cements Ltd., Walar, Palakkad	KER	2011	
347	CE-25	Meat Products of India Ltd., Koothattukulam, Ernakulam	KER	2011	
348	CE-24	The Metal Industries Ltd., Shoranur, Palakkad	KER	2011	
349	CE-23	Oil Palm India Ltd., Kottayam	KER	2011	
350	CE-22	The Pharmaceutical Corporation(IM)	KER	2011	
351	CE-21	Plantation Corporation of Kerala Ltd., Kottayam	KER	2011	
352	CE-20	Rehabilitation Plantation Ltd., Punalur	KER	2011	
353	CE-19	Sitaram Textiles Ltd., Poonkunnam, Thrissur	KER	2011	
354	CE-18	State Farming Corporation of Kerala Ltd., Vettithitta,	KER	2011	
355	CE-17	Steel Complex Ltd., Feroke, Kozhikode	KER	2011	
356	CE-16	Steel and Industrial Forgings Ltd., Athani, Thrissur	KER	2011	
357	CE-15	Traco Cable Company Ltd., Kochi	KER	2011	
358	CE-14	Transformers and Electricals Kerala Ltd., Angamaly	KER	2011	
359	CE-13	Travancore Cements Ltd., Nattakom, Kottayam	KER	2011	
360	CE-12	Travancore-Cochin Chemicals Ltd., Udyogamandal,	KER	2011	
361	CE-11	Travancore Titanium Products Ltd., Kochuveli,	KER	2011	
362	CE-10	Aleppey, Co-operative Spinning Mills	KER	2011	
363	CE-9	Cannanore Co-operative Spinning Mills Ltd., Chowva,	KER	2011	
364	CE-8	Kerala Co-operative Milk Marketing Federation	KER	2011	
365	CE-7	Kerala Kerakarshaka Sahakarana Federation	KER	2011	
366	CE-6	Kerala State Cashew Workers'Apex Industrial Co-operative Society Ltd., (CAPEX), Kollam	KER	2011	
367	CE-5	Malabar Co-operative Textiles Ltd., Karthala Chungam, Kuttippuram via., Malappuram	KER	2011	
368	CE-4	Malappuram Co-operative Spinning Mills Ltd., Down Hill	KER	2011	
369	CE-3	Priyadarshini Co-operative Spinning Mills Ltd.,	KER	2011	
370	CE-2	Quilon Co-operative Spinning Mills Ltd.,Karamcode,	KER	2011	
371	CE-1	Trichur Co-operative Spinning Mills Ltd., Vazhani,	KER	2011	
372	RE-9	Installation of 2kVA grid interactive solar power plant	PKD	2012	
373	RE-8	DPR for 2kVA grid interactive solar power plant	PKD	2012	
374	RE-7	Implementation of 10kVA Micro Hydel Project- Gavi	PTN	2012	
375	RE-6	Detailed Feasibility Study "Gavi Small Hydel Project" ,	PTN	2012	
376	RE-5	Implementation of Rodovally Small Hydel Project", Silant	MUN	2011	
377	RE-4	Reconnaissance Study of Potential Small Hydro Projects,	MAL	2010	
378	RE-3	Detailed Feasibility Study "Rodovally Small Hydel Project"	MUN	2010	
379	RE-2	Reconnaissance Study of Potential Small Hydro Projects,	TSR	2010	
380	RE-1	Development of Wood Gas Stove "Prakrithi-2"	OT	2009	
381	SR-1	Promotion of Micro Enterprises for Sustainable Development through Innovative Self Help Groups	PTA		