



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

**CERTIFICATE OF EMPANELMENT**

*This is to certify that **M/s. Prudent Energy** (Choolakkal Buildings, Door No. 14/1644K, 2<sup>nd</sup> Floor, Convent Junction, Ernakulam – 682 011) 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- 4017 B**

<b>Scope/Area</b>	<b>Building</b>	<b>Industry -Electrical</b>	<b>Industry Thermal</b>
	Yes	MSME & Sea food processing units	MSME & Sea food processing units

*This empanelment is valid up to 10<sup>th</sup> May 2020*

*Issuing Date: 11/05/2017*

*Place: Thiruvananthapuram*

Director,  
Energy Management Centre - Kerala


**Information of firm**

1.	Name & address of the firm	<b>Prudent Energy</b> "Choolakkal Buildings" , Door No. 44/1688K, (Second Floor) , Convent Junction, Ernakulam – Pin 682011 , Kerala State.
	Office(with STD)	09496343102
	Mobile	09496343102
	Fax number	NIL
2.	Website (if any)	<a href="http://www.prunergy.com">www.prunergy.com</a>
3.	Email address	i n f o @ p r u n e r g y . c o m
4.	Name ,Designation and address of Contact person	<b>GEORGE VARGHESE</b> <b>(Empanelled Energy Auditor &amp; Founder)</b> Present Residential Address:- "Kalarikkal Apartments" ,House No:-O6, Near Sub Station, Mathirapally , Kothamangalam – 68 Kerala State  Permanent Residential Address:-" Koippuram House" Kadappakada, Kollam-691008 , Kerala State
5.	Office(with STD)	Mob:- 09496343102
	Residence(with STD)	09446776673
	Mobile	09496343102
6.	Email address	i n f o @ p r u n e r g y . c o m
7.	Year of establishment	2011
8.	Year of commencement of energy audit by the firm.	2011
9.	No. of branch offices	2
	(List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	<b>Head Office:-</b> Choolakkal Buildings, No.44/1688K, Convent Junction Ernakulam-682011 Mob:- 09496343102  <b>Branch Office:-</b> Vaidyanathan, 2/1, Shanta Priya Enclave, 135, Pillayar Koil Street, Thoraipakkam , Chennai 600097 Mob:-09841829019

**Details of Associated Energy Experts and Audits Conducted by firm**

1.	Number of resource persons available		6
2.	Number of full-time energy auditors in position, with work experience of all energy auditors associated with the firm		4
3.	No. of part-time energy auditors in position during the current year / previous year associated with the firm.		2
4.	Sectors in which the energy audit firm has conducted energy audits since inception and number of audits in each sector	Food Processing & Feed Manufacturing	10
		Commercial Buildings	6
		Total	17
5.	Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil.		Food Processing, Feed Manufacturing & Hospital
6.	Energy audit of thermal utility system (list sectors)		<ul style="list-style-type: none"> <li>➤ Food Processing (Including Spices Industry)</li> <li>➤ Commercial Buildings (Hotels &amp; Hospitals)</li> </ul>
7.	Energy audit of electrical utility system (list sectors)		<ul style="list-style-type: none"> <li>➤ Food Processing</li> <li>➤ Commercial Buildings (Hospitals, Hotel, Data Centers, IT etc. )</li> </ul>
8.	Instruments available	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> <li>• 3 Phase Power Quality Analyzer – 435 Series-11 (Fluke), USA</li> <li>• Single CT Power Quality Analyzer- 345(Fluke), USA</li> <li>• Multi meter -115True RMS (Fluke) , USA</li> </ul>
		(b) Thermal (list the name of the instruments)	<ul style="list-style-type: none"> <li>• Flue Gas Analyzer (330- 2LL(Testo))</li> <li>• Thermal Imager (Ti-32 ( Fluke )</li> <li>• Infrared Thermometer ( 59Max+(Fluke)</li> <li>• Digital Thermometer (CH403(Selec)</li> </ul>
		c) Others	<ul style="list-style-type: none"> <li>• Anemometer -</li> <li>• Ultrasonic Flow Meter – TDM100H HS+H(M&amp; A Inst.Inc)</li> <li>• Light /Lux Meter- LM100 (Amprobe)</li> </ul>

**\*Bio data of Certified Energy Auditor**

1	Name of energy auditor	GEORGE VARGHESE		
2.	Qualifications.	B.Tech (Mech), Dip. Refrigeration & Air-conditioning , Certificate CNC Machines Programming & Maintenance		
3.	Experience. (use additional sheet if required)	More than 22 Years' of Industrial Experience & Energy Audit (7 Years)		
4.	Residence(with STD)	9446776673		
5.	Mobile	9496343102		
6	Email address	<a href="mailto:varghesekoippuram@gmail.com">varghesekoippuram@gmail.com</a> <a href="mailto:info@prunergy.com">info@prunergy.com</a>		
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil.	CEM - 07.10. 2010	CEA - 06.01.2014	
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	6.01.2014		
9	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" ( In case of Certified Energy Auditor, please write CEA Registration No.)	EA-10883		
10	Certificate Registration Number of (i) Energy Manager	7617		
	(ii) "Energy Performance Assessment for Equipment and Utility Systems"	7233		
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	NA		

## GEORGE VARGHESE

### Post Qualification Experience

#### **Present Status**

**Company :- M/s Prudent Energy , Ernakulam**

**Area of Activities :-**

- ❖ Energy Auditor
- ❖ Food Processing Consultant
- ❖ Chartered Engineer & Govt. Approved Machinery Valuer

**Total work Experience more than 22 years**

**Key Sectors**

- ✓ Food Processing
- ✓ Feed manufacturing
- ✓ Plastic Blow & Injection
- ✓ Energy Auditing

#### **Details of few Projects Completed Recently as a “Project Consultant”**

**(I)Firm:- M/s Hyson Logistics & Marine Foods , Nellore, Andra ( Year - 2012-13)**

**Activities :-Food Processing of Shrimps & Fish**

**Capacity/Day :- 40 T/Day**

**Consultancy include**

- Design of Plant based on EU, BRC & ISO Standards
- Selection of Machineries
- Erection , Commissioning & Testing of Refrigeration System
- Errection of IQF, Plate and Tunnel Freezers
- Errection of Cold stores,Chill rooms , Anteroom

**(II)Firm:- M/s Bustan –Al- Wathaniya , Pallipuram , Cherthala, Alleppey,Kerala (2014-2015)**

**Activities :-Food Processing of Veg and Non Veg Items**

**Capacity :- 10 T/Day( at present)**

**Consultancy Include**

- Plant Design
- Selection of Machineries
- Erection, Commissioning & Testing of Refrigeration System & Equipment Including Plate and Tunnel Freezers
- Supervision of Electrification work

**(III)Firm:- M/s Saffe Panel, Pallipuram , Cherthala, Alleppey, Kerala**

**Activities :- Manufacturing of Ply wood**

**Consultancy Include**

- Plant Design
- Machinery selection
- Errection of Press, Boilers, Dryers Peeling Machines etc

## **Previous Work Experience**

A) Year – 2003 - 2011

IFL ( Innovative Foods Ltd.-An Amalgam Group of Companies )

Post Held:- Manger(Technical &Project )

Area of Activities :-

Operation of

- Freezers Individual Quick Freezers , Tunnel Freezers , Spiral Freezers Plate Freezers for freezing
- Non veg. Items:- Squid , Shrimp, Octopus, Fish & Meat product.
- Vegetable Items :-Tapioca, Cut Vegetables etc.
  
- Automatic Breaded Product Line
  - Vegetable Products:- Channa Patty, Nuggets, Cutlets, Baby Corn etc
  - Non Veg. Products :- Nuggets , Cutlets, Breaded shrimps , Fish Fingers and Fillets etc.
  - Maintenance of All Equipments Like Compressors , Condensers, Automatic Moulding lines, Freezers etc.

❖ Project Handled

- Erection and Commissioning of
  - Sea Food Processing Plants
  - Ready to eat & Cook Automatic Breaded Lines

**Note:- I have also worked with**

**a)“TATA Foods” (A Subsidiary of TATA Group) from 2005 & later with a Multinational Group (b)“ India Equity Partners” in the year 2009.**

B) Year – 2001 - 2003

M/s Higashimaru Pvt. Ltd ( A Shrimp Feed Manufacturing Firm- An Amalgam Group)

Post Held:- Deputy Manger Technical

Area of Activities :-

- Operation of Shrimp Feed Plant
- Inventory Monitoring etc
- Maintenance support

C) Year – 1999- 2001

ICF ( International Creative Foods Ltd.

Post Held:- Deputy Manger (Project )

Area of Activities :-

EU Project :- Project Implementation and handing over the Plant to Hindustan Lever Ltd. after upgrading to European Union Standards.

The activities includes construction of

- New Pre-Processing area, Individual Quick Freezer Modification,
- Additional Electrification work, Complete
- Safety Implementation for the entire plant.

D) Year 1996- 1999

M/s Gesmy Plastic Industries , Chathannoor , Kolam

Own Plastic Manufacturing unit

(Specialization: Manufacturing of Injection and Blow Moulding Items )


E) Year 1992-1996

Worked as Design Engineer at M/S MRF subsidiary(Devon Machines) , Ambattur ,Chennai(Tyre Manufacturing Machineries)

**\*Bio data of Consultants**


1	Name of energy auditor		K .V. ABRAHAM
2.	Qualifications.		B.E (Electrical)- 1971
3.	Experience (use additional sheet if required)		(a)Engineering College Tvm. – Lecturer (1972-75) (b) M/s KEKE BACON, Edayar , Koothattukulam -Tech.Officer (6 months) (c)QETCOS– Umayanalloor , Kollam –Maintenance Engineer & Government Nominated Director Board Member -1975-1981 (d)Kerala Minerals & Metals (KMML), Chavara, Kollam – Retd. as DGM (IN CHARGE)1981- 2003 Member Kerala Electrical Licensing Authority
4.	Residence(with STD)		“Koippuram House” , Njavaroor , Chathanoor – Pin 691572 Ph.No : 0474-2059159
5.	Mobile		9447131099
6	Email address	No Email id	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil		NA
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”		NA
9	Examination Registration Number of (i) Energy Manager  (ii) “Energy Performance Assessment for Equipment and Utility Systems” ( In case of Certified Energy Auditor, please write CEA Registration No.)		NA
10	Certificate Registration Number of (i) Energy Manager  (ii) “Energy Performance Assessment for Equipment and Utility Systems”		NA
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.		NA




<b>*Bio data of Consultants</b>			
1.	Name of energy auditor	V. I .CHERIAN	
2.	Qualifications.	B.Sc. M.E(Electrical)- 1970	
	Experience (use additional sheet if required)	(a)Worked as Engineer KSEB - 1971-2003- 32 Years ( Retd. as Chief Engineer & Technical Member KSEB) .  (b) Worked as Chairman , United Electrical , Kollam	
4.	Residence(with STD)	Ph.No : 0469- 2732470	
5.	Mobile	9947803923	
6.	Email address	No Email id	
7.	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	NA	
8.	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	NA	
9.	Examination Registration Number of (i) Energy Manager  (ii) “Energy Performance Assessment for Equipment and Utility Systems” ( In case of Certified Energy Auditor, please write CEA Registration No.)	NA	
10.	Certificate Registration Number of (i) Energy Manager  (ii) “Energy Performance Assessment for Equipment and Utility Systems”	NA	
11.	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	NA	



**\*Bio data of Consultants**

1	Name of energy auditor	Viswanathan M.K	
2.	Qualifications.	Dip. Mechanical	
3.	Experience (use additional sheet if required)	32 Years of Experience (a) M/s Hindustan New Sprint.Vellor Kottayam. (b) Mandya National Papper, Belagula RS Karnataka	
4.	Residence(with STD)	Mullasseril House,lane No.36/5,Janatha Road,Vytila,Cochin-682019	
5.	Mobile	9037885880	
6	Email address	kunjikrishnanviswanathan@gmail.com	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	NA	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	NA	
9	Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” ( In case of Certified Energy Auditor, please write CEA Registration No.)	NA	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	NA	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	NA	

**\*Bio data of Consultants**

1	Name of energy auditor	Manumon G.Nair	
2.	Qualifications.	B.Tech (EEE)	
3.	Experience (use additional sheet if required)	1 Year in Energy Audit	
4.	Residence(with STD)	Peedikaparambil House,Anniyartholu P.O,Idukki Dist.,685515	
5.	Mobile	09656323944	
6	Email address	manupeedika@gmail.com	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	NA	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	NA	
9	Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” ( In case of Certified Energy Auditor, please write CEA Registration No.)	NA	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	NA	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	NA	

**\*Bio data of Consultants**

1	Name of energy auditor	K A Varghese	
2.	Qualifications.	B.E (Mech.)-1965 Dip. Business Management	
3.	Experience (use additional sheet if required)	(a)Cochin Shipyard (1968-2001) (b)Director Goa Shipyard Ltd - ( 2003-2007)	
4.	Residence(with STD)	G-11 , Panampilly Nagar , Cochin –Pin 682036 0484- 2316597	
5.	Mobile	09447032247	
6	Email address	kavarghese024@gmail.com	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	NA	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	NA	
9	Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” ( In case of Certified Energy Auditor, please write CEA Registration No.)	NA	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	NA	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	NA	



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

Place: Ernakulam

Signature

Date: 03.06.2017

Name: **GEORGE VARGHESE**  
Designation: **Certified Energy Auditor**