



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

**CERTIFICATE OF EMPANELMENT**

*This is to certify that **M/s. Ganesh Technical Consultancy Services (GTCS)** (C.C. No. 38/324, First Floor, Pulikkal Building, Karashaka Road, Near South Over Bridge Ernakulam – 682 016) 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-3197B-1**


<b>Scope/Area</b>	<b>Building</b>	<b>Industry -Electrical</b>	<b>Industry Thermal</b>
	Yes	No	No

*This empanelment is valid up to 01/02/2024*

*Issuing Date: 02/02/2021*

*Place: Thiruvananthapuram*

Director,  
Energy Management Centre Kerala


<b>Information of firm</b>		
1.	Name & address of the firm	M/s Ganesh Technical Consultancy Services 38/324, First Floor, Pulikkal Building, Near South Over bridge, Karshaka Road, Kochi – 682 016
	Office (with STD)	0484 2323505
	Mobile	98461 59505
	Fax number	Nil
2.	Website (if any)	www.gtcs.in
3.	Email address	mail@gtcs.in
4.	Name, Designation and address of Contact person	Shreeganesh.V.Nair Founder and Chief Consultant
5.	Office (with STD)	0484 2323505
	Residence (with STD)	Nil
	Mobile	98460 59505
6.	Email address	waterandenvironme ntgtcs@gmail.com
7.	Year of establishment	1997
8.	Year of commencement of energy audit by the firm.	2014
9.	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Nil

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

1.	Number of resource persons available	8
2.	Number of full-time energy auditors in position, with work experience of all energy auditors associated with the firm	6
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	<ul style="list-style-type: none"> <li>• Hospital – 2</li> <li>• Shopping Mall – 1</li> <li>• Hotels and Resorts – 5</li> <li>• Residence – 2</li> <li>• Apartments – 2</li> </ul> <p>Total – 12</p>
5.	Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil.	NIL
6.	Energy audit of thermal utility system (list sectors)	<ul style="list-style-type: none"> <li>• Boilers</li> <li>• Heat pumps</li> <li>• Steam system</li> <li>• Waste heat recovery system</li> </ul>
7.	Energy audit of electrical utility system (list sectors)	<ul style="list-style-type: none"> <li>• Electric Motors</li> <li>• Compressed air system</li> <li>• HVAC &amp; Refrigeration system</li> <li>• Fans and Blowers</li> <li>• Pumps and Pumping system</li> <li>• Coiling Towers</li> <li>• Lighting system</li> <li>• DG Sets</li> <li>• Transformers</li> </ul>

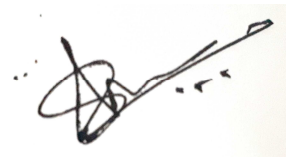
8.	Instruments available	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> <li>• Power Quality Analyzer (KRYKARD ALM 33)</li> <li>• Lux Meter (HTC-LX-101 A)</li> <li>• Multimeter (FLUKE 106, 600V CAT III)</li> <li>• Energy meter (POWERGUARD- PG09)</li> <li>• Clamp Multimeter (UNI-T (UT 204) TRUR RMS)</li> </ul>
(b) Thermal (list the name of the instruments)		<ul style="list-style-type: none"> <li>• Infrared Thermal Imaging Camera – High resolution (FLIR E63900, T 198547)</li> <li>• Ultrasonic Flowmeter (ADEPT FLUIDYNE CLAMP ON TYPE –UFM 6720)</li> <li>• Flue Gas Analyser (Festo)</li> <li>• CO2 Analyzer (Extech 80)</li> <li>• TDS Meter (NOCTRONIQUE CB18845)</li> <li>• PH Meter (SEMISPHERE PH-02- PENTYPE)</li> <li>• Thermometer (Contact / Non-contact) (FLUKE - 59 Max)</li> <li>• Hygrometer (Ambient, Acurite)</li> <li>• Anemometer (Ambient, Extech)</li> <li>• Manometer /Pitot Tube (Swastik, Zoom)</li> </ul>	

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

1	Name of Energy auditor	Sreejith.P.Menon	
2.	Qualifications.	B-Tech Electrical Engineering, P G Diploma in Electrical Energy Management and Energy Auditing, BEE Certified Energy Auditor	
3.	Experience. (use additional sheet if required)	More than 11 years of experience in Consultancy and Project Management in Infrastructures and Building Industry in which 5 years into Energy Audits	
4.	Residence (with STD)	98463 75889	
5.	Mobile	94002 98995	
6	Email address	spmenon.ee@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	20.01.2012 (Energy Auditor)	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	2011	
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.)	1. EA – 11547 2. EA – 11647	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	1. 8786 2. 6238	
11	Are you a BEE accredited Energy Auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)--Nil</b>			


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

Place: Kochi  
Date: 24.05.17

A handwritten signature in black ink, appearing to be 'Sreejith P Menon', written on a light-colored background.

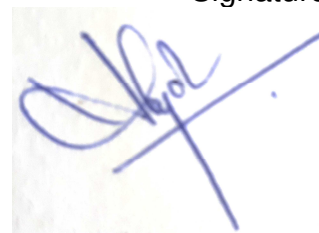
Signature:  
Name: Sreejith P Menon  
Designation: Energy Auditor

**\*Bio data of Consultants**

1	Name of Energy auditor	Shreeganesh V Nair	
2.	Qualifications.	B Tech Civil Engg, ECBC Master Trainer, BEE Certified Energy Manager, GRIHA Evaluator& Trainer, EDGE Auditor, IGBC Accredited Professional	
3.	Experience. (use additional sheet if required)	A complete building Physics Expert with 24 years of experience in design of buildings, services, Infrastructures, factories and industries. Experience in project Management, transaction advisory and Building code formulation. Presently 4 years of experience in Energy Audits. Green Building and Energy Modelling Consultant	
4.	Residence (with STD)	Nil	
5.	Mobile	98460 59505	
6	Email address	waterandenvironmentgtcs@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	01.06.2016 (Energy Manager)	
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.)	1. EA 22755	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	1. 3517	
11	Are you a BEE accredited Energy auditor. If so:	No	

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

Signature:


A handwritten signature in blue ink, appearing to be 'Shreeganesh V Nair', written over a horizontal line.

Date: 24.05.17  
Place: Kochi

Name: Shreeganesh V Nair  
Designation: Founder & Chief  
Consultant



**\*Bio data of Consultants**

1	Name of Energy auditor	Babu T V		
2.	Qualifications.	3 year Diploma in Electrical Engg, Supervisory License Grade – B No.7956/2001/200KVA		
3.	Experience. (use additional sheet if required)	Over 33 years of experience in Erection and Management of electrical installations, substations and building systems in India and abroad. 2 years into Energy Audits		
4.	Residence (with STD)	0480 2734640		
5.	Mobile	99473 29803		
6	Email address	babutv2004@gmail.com@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	Nil		
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>Remarks( if any)--Nil</b>				

\*please attach bio data of all consultants of your firm.


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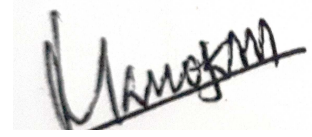
A handwritten signature in blue ink, appearing to be 'Babu T V', written over a light yellow rectangular background.

Signature:  
Name: Babu T V  
Designation: MEP Technical  
Lead

**\*Bio data of Consultants**

1	Name of Energy auditor	Manoj Kumar M	
2.	Qualifications.	B Tech Electrical Engg,	
3.	Experience. (use additional sheet if required)	4 years of experience in Energy Audits	
4.	Residence (with STD)	94951 84497	
5.	Mobile	94477 03796	
6	Email address	kumarmanoj784@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	Nil	
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>Remarks( if any)--Nil</b>			

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


A handwritten signature in black ink, appearing to read 'Manoj Kumar M', written in a cursive style.

Place: Kochi

Signature:

Date : 24.05.17

Name: Manoj Kumar M  
Designation: Consultant


<b>*Bio data of Consultants</b>				
1	Name of Energy auditor	Nikhila V S		
2.	Qualifications.	B Tech Electrical Engg,		
3.	Experience. (use additional sheet if required)	1 year of experience in Energy Audits.		
4.	Residence (with STD)	97448 30993		
5.	Mobile	81118 02046		
6	Email address	nikhilavs319@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	Nil		
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	NA		
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11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	NA		
<b>Remarks( if any)--Nil</b>				

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Place: Kochi  
Date: 24.05.17

Signature:  
Name: Nikhila V S  
Designation: Consultant

Information of firm		
1.	Name & address of the firm	M/s Ganesh Technical Consultancy Services 38/324, First Floor, Pulikkal Building, Near South Over bridge, Karshaka Road, Kochi – 682 016
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	Mobile	98461 59505
	Fax number	Nil
2.	Website (if any)	www.gtcs.in
3.	Email address	mail@gtcs.in
4.	Name, Designation and address of Contact person	Shreeganesh.V.Nair Founder and Chief Consultant
5.	Office (with STD)	0484 2323505
	Residence (with STD)	Nil
	Mobile	98460 59505
6.	Email address	waterandenvironme ntgtcs@gmail.com
7.	Year of establishment	1997
8.	Year of commencement of energy audit by the firm.	2014
9.	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Nil


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4.	Sectors in which the energy audit firm has conducted energy audits since inception and number of audits in each sector	<ul style="list-style-type: none"> <li>• Hospital – 2</li> <li>• Shopping Mall – 1</li> <li>• Hotels and Resorts – 5</li> <li>• Residence – 2</li> <li>• Apartments – 2</li> </ul> <p>Total – 12</p>
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8.	Instruments available	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> <li>• Power Quality Analyzer (KRYKARD ALM 33)</li> <li>• Lux Meter (HTC-LX-101 A)</li> <li>• Multimeter (FLUKE 106, 600V CAT III)</li> <li>• Energy meter (POWERGUARD- PG09)</li> <li>• Clamp Multimeter (UNI-T (UT 204) TRUR RMS)</li> </ul>
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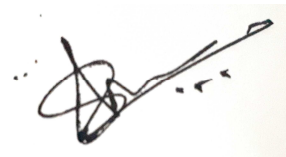


**\*Bio data of Certified Energy Auditor**

1	Name of Energy auditor	Sreejith.P.Menon	
2.	Qualifications.	B-Tech Electrical Engineering, P G Diploma in Electrical Energy Management and Energy Auditing, BEE Certified Energy Auditor	
3.	Experience. (use additional sheet if required)	More than 11 years of experience in Consultancy and Project Management in Infrastructures and Building Industry in which 5 years into Energy Audits	
4.	Residence (with STD)	98463 75889	
5.	Mobile	94002 98995	
6	Email address	spmenon.ee@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	20.01.2012 (Energy Auditor)	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	2011	
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.)	1. EA – 11547 2. EA – 11647	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	1. 8786 2. 6238	
11	Are you a BEE accredited Energy Auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)--Nil</b>			


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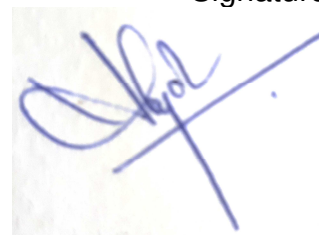
Signature:  
Name: Sreejith P Menon  
Designation: Energy Auditor

**\*Bio data of Consultants**

1	Name of Energy auditor	Shreeganesh V Nair	
2.	Qualifications.	B Tech Civil Engg, ECBC Master Trainer, BEE Certified Energy Manager, GRIHA Evaluator& Trainer, EDGE Auditor, IGBC Accredited Professional	
3.	Experience. (use additional sheet if required)	A complete building Physics Expert with 24 years of experience in design of buildings, services, Infrastructures, factories and industries. Experience in project Management, transaction advisory and Building code formulation. Presently 4 years of experience in Energy Audits. Green Building and Energy Modelling Consultant	
4.	Residence (with STD)	Nil	
5.	Mobile	98460 59505	
6	Email address	waterandenvironmentgtcs@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	01.06.2016 (Energy Manager)	
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10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	1. 3517	
11	Are you a BEE accredited Energy auditor. If so:	No	

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Signature:

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Date: 24.05.17  
Place: Kochi

Name: Shreeganesh V Nair  
Designation: Founder & Chief  
Consultant

**\*Bio data of Consultants**

1	Name of Energy auditor	Babu T V		
2.	Qualifications.	3 year Diploma in Electrical Engg, Supervisory License Grade – B No.7956/2001/200KVA		
3.	Experience. (use additional sheet if required)	Over 33 years of experience in Erection and Management of electrical installations, substations and building systems in India and abroad. 2 years into Energy Audits		
4.	Residence (with STD)	0480 2734640		
5.	Mobile	99473 29803		
6	Email address	babutv2004@gmail.com@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	Nil		
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	NA		
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11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	NA		
<b>Remarks( if any)--Nil</b>				

\*please attach bio data of all consultants of your firm.


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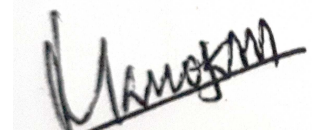
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Signature:  
Name: Babu T V  
Designation: MEP Technical  
Lead

**\*Bio data of Consultants**

1	Name of Energy auditor	Manoj Kumar M	
2.	Qualifications.	B Tech Electrical Engg,	
3.	Experience. (use additional sheet if required)	4 years of experience in Energy Audits	
4.	Residence (with STD)	94951 84497	
5.	Mobile	94477 03796	
6	Email address	kumarmanoj784@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	Nil	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	NA	
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11	Are you a BEE accredited Energy Auditor. If so: Date of accreditation Accreditation No.	NA	
<b>Remarks( if any)--Nil</b>			

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A handwritten signature in black ink, appearing to read 'Manoj Kumar M', written in a cursive style.


Place: Kochi

Signature:

Date : 24.05.17

Name: Manoj Kumar M  
Designation: Consultant



<b>*Bio data of Consultants</b>				
1	Name of Energy auditor	Nikhila V S		
2.	Qualifications.	B Tech Electrical Engg,		
3.	Experience. (use additional sheet if required)	1 year of experience in Energy Audits.		
4.	Residence (with STD)	97448 30993		
5.	Mobile	81118 02046		
6	Email address	nikhilavs319@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	Nil		
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		
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<b>Remarks( if any)--Nil</b>				

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Signature:  
Name: Nikhila V S  
Designation: Consultant