



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

**CERTIFICATE OF EMPANELMENT**

*This is to certify that M/s Bharat Sanchar Nigam Limited (BSNL), (Electrical Kerala Zone, Admin Bldg., Telephone Exchange Compound, Manacaud, Trivandrum – 675 009) 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- 0411F-1**

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

*This empanelment is valid up to 31st August 2017*

*Issuing Date: 05/11/2014*

*Place: Thiruvananthapuram*

Director,  
Energy Management Centre Kerala

**Information of firm**

1.	Name & address of the firm	<b>Bharat Sanchar Nigam Limited</b> BSNL Electrical Kerala Zone, Admin Bldg., Telephone Exchange Compound, Manacaud, Trivandrum. Pincode: 675009
	Office(with STD)	0471 2459566
	Mobile	9446330333
	Fax number	0471 2455757
2.	Website (if any)	www.bsnl.co.in
3.	Email address	c e e t v m 1 0 @ g m a i l . c o m
4.	Name ,Designation and address of Contact person	M. Sudheendran Chief Engineer (E), BSNL Kerala Electrical Zone, Admin Bldg., Telephone Exchange Compound, Manacaud, Trivandrum- 675009
5.	Office(with STD)	0471 2459566
	Residence(with STD)	0471 2445599
	Mobile	9446330333
6.	Email address	c e e t v m 1 0 @ g m a i l . c o m
7.	Year of establishment	2000, from the parent department of DOT
8.	Year of commencement of energy audit by the firm.	2002 (internal audits in BSNL )
9.	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Zonal office at Trivandrum, Circle offices in Trivandrum & Calicut, Divisional offices in Trivandrum, Ernakulam, Trichur, Calicut and Kannur. There are 27 subdivisions covering entire Kerala. Detailed list attached.

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

1.	Number of resource persons available	Chief Engineer - 1, Superintending Engineers -2, Executive Engineers-5, Sub Divisional Engineers- 35, Junior Telecom Officers- 50
2.	Number of full-time energy auditors in position, with work experience of all energy auditors associated with the firm	Energy Auditors- 10 & Energy Manager- 1, with experience of 7 years and more, in Energy Auditing of BSNL/ External organizations.
3.	No. of part-time energy auditors in position during the current year / previous year associated with the firm.	Nil
4.	Sectors in which the energy audit firm has conducted energy audits since inception and number of audits in each sector	<b>Electro mechanical sector</b>
5.	Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil.	
6.	Energy audit of thermal utility system (list sectors)	
7.	Energy audit of electrical utility system (list sectors)	Kairali/ Sree Theatre, Thiruvananthapuram Kairali/ Sree Theatre Trichur Kairali/ Sree Theatre Calicut. Vyloppilly Samskrithi Bhavan, Thiruvananthapuram. Forest Head Quarters, Thiruvananthapuram Institute of Management in Govt., Thiruvananthapuram High Court of Kerala, Ernakulam. Reserve Bank of India Regional Office, Thiruvananthapuram. Doordarshan Kendra, Thiruvananthapuram. Doordarshan Kendra, Kozhikode Doordarshan Kendra, Kochi TE Boat Jetty, Ernakulam. D Tax Tel Exchange, Ernakulam. O/o CGMT, Trivandrum TE Kaithamukku, Trivandrum.

8.	Instruments available	(a) Electrical (list the name of the instruments)	<ol style="list-style-type: none"> <li>1. Power/ Harmonic Analyser</li> <li>2. 3 Phase clamp on Power meter</li> <li>3. Digital Anemometer</li> <li>4. Digital clamp meter</li> <li>5. Digital Lux meter</li> <li>6. Digital DB meter</li> <li>7. Temperature &amp; Humidity Meter</li> <li>8. Digital insulation tester- 500 V</li> <li>9. Hand driven insulation tester- 5000 V</li> <li>10. Digital Earth Tester</li> <li>11. Digital Multi meter</li> <li>12. Digital Tachometer</li> </ol>
(b) Thermal (list the name of the instruments)		Digital Air flow and temperature meter	

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

Place: Trivandrum

Date:3/12/2014

Signature: -Sd-

Name: M. Sudheendran  
 Chief Engineer (E )  
 BSNL Kerala Electrical Zone,  
 Trivandrum

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	M. SUDHEENDRAN	
2.	Qualifications.	B.Sc. Engineering, M.B.A, P.G.D.A.L	
3.	Experience. (use additional sheet if required)	34 years' experience in Electromechanical construction & maintenance works in Telecom & external projects including green buildings. Conducted a number of energy audits Kerala, Karnataka & Tamilnadu.. Certified GRIHA Trainer.	
4.	Residence(with STD)	0471 2445599	
5.	Mobile	9446330333	
6	Email address	sudheendranm@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	Energy Manager and Auditor 30/7/2009	
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	30/7/2009	
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.)	Certified Energy Auditor CEA-0359	
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	No.4469	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)</b>			

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	SHAJI. C.T.	
2.	Qualifications.	DEE B.Tech(Electrical & Electronics Engg.)	
3.	Experience. (use additional sheet if required)	25 years of experience in planning, design & execution of various electrical infrastructure works for BSNL buildings, 7 years' experience in Energy Auditing.	
4.	Residence(with STD)		
5.	Mobile	9446066002	
6	Email address	ctshaji@bsnl.co.in, ctshaji1112@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	Energy Manager – 10.08.2007 Energy Auditor 18.02.2008	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	Passed in the exam conducted on 18.11.2007	
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.)	Certified Energy Auditor CEA-7421	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	Energy Auditor Reg No. EA 7421, Certificate No.3249	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)</b>			

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	T.G. Babu Kammath
2.	Qualifications.	DEE, BE, MBA, CEA
3.	Experience. (use additional sheet if required)	32 years experience as Electrical Engineer in BSNL. Conducted Energy Audit for various BSNL/ other buildings from 2003.
4.	Residence(with STD)	
5.	Mobile	9446089444
6	Email address	tgbabukamath@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	Energy Auditor 18.02.2008
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	Nov-2007
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.)	Certified Energy Auditor CEA-5774
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	EA - 5774 Certificate No.3123
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No
<b>Remarks( if any)</b>		

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	Leelamma Mathew	
2.	Qualifications.	BSc Engg., Electrical	
3.	Experience. (use additional sheet if required)	28 years of experience in planning, design & execution of various electrical infrastructure works for BSNL buildings. Also conducted energy audits in various BSNL Exchanges.	
4.	Residence(with STD)	0471 2532393	
5.	Mobile	9495501222	
6	Email address	sdetvm.lm@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	24 <sup>th</sup> February, 2009 Energy Manager and Energy Auditor	
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	November 2008	
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.)	Certified Energy Auditor CEA-4470	
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Certificate No.4007	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)</b>			

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	SREEDEVI. A	
2.	Qualifications.	B.Tech Degree in Electrical and Electronics	
3.	Experience. (use additional sheet if required)	20 years of experience in planning, design & execution of various electrical infrastructure works for BSNL buildings, 7 years' experience in Energy Auditing.	
4.	Residence(with STD)	0471 2316590	
5.	Mobile	9446546590	
6	Email address	sreedevi@bsnl.co.in	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	August 2007	
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.)	Certified Energy Auditor CEA-3037	
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	CEA Certificate No.2627	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)</b>			

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	Jessy J. Thattil	
2.	Qualifications.	B.Tech (Electrical)	
3.	Experience. (use additional sheet if required)	20 years of experience in planning, design & execution of various electrical infrastructure works for BSNL buildings, 7 years' experience in Energy Auditing.	
4.	Residence(with STD)	0484 2426039	
5.	Mobile	9446566039	
6	Email address	jessyjthattil@bsnl.co.in	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	Energy Auditor – 2.11.2006	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	2.11.2006	
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.)	Certified Energy Auditor CEA-3903	
10	Certificate Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems”	Certificate No.1614 (Reg. No. EA-3903)	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)</b>			

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	NISHA JOSE	
2.	Qualifications.	B.Tech (Electrical & Electronics), PGDCA	
3.	Experience. (use additional sheet if required)	20 years of experience in planning, design & execution of various electrical infrastructure works for BSNL buildings, 7 years' experience in Energy Auditing.	
4.	Residence(with STD)	0471 2433300	
5.	Mobile	9446776969	
6	Email address	nishajosegrace@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	30/07/2009	
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	30/07/2009	
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.)	Certified Energy Auditor CEA-4256	
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Certificate No.4486 Reg. No.EA-4256	
<b>Remarks( if any)</b>			

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	RAJESH. S
2.	Qualifications.	B.Tech in Electrical & Electronics
3.	Experience. (use additional sheet if required)	(i) Working as JTO(E) in BSNL from 2002 onwards (ii) 7 years experience in Energy Auditing.
4.	Residence(with STD)	0471 2596121
5.	Mobile	9447126614
6	Email address	rajeshsivanandan@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	4 <sup>th</sup> September 2008 as Energy Auditor
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	4 <sup>th</sup> September 2008
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.)	Certified Energy Auditor CEA-4443
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EA-4443 as Energy Auditor Certificate No.3533
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No
<b>Remarks( if any)</b>		

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	SURESH T.V.	
2.	Qualifications.	B.Tech (Mech.Engg) MBA, PGDPE	
3.	Experience. (use additional sheet if required)	Conducted Energy Audit of commercial and Technical buildings (BSNL as well as external buildings)	
4.	Residence(with STD)	04602207800	
5.	Mobile	+919447515800	
6	Email address	<a href="mailto:tvasureshbe@gmail.com">tvasureshbe@gmail.com</a> tvasuresh_be@yahoo.co.in	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	April 2006 Energy Auditor	
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	April 2006	
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.)	Certified Energy Auditor CEA 4243	
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Reg No: CEA4243 Certificate No.2581	
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No	
<b>Remarks( if any)</b>			

**\*Biodata of Certified Energy Auditor.**

1	Name of energy auditor	Sanjay Kumar
2.	Qualifications.	B.E ( Elect .Engg) MBA
3.	Experience. (use additional sheet if required)	20 years of experience in planning, design & execution of various electrical infrastructure works for BSNL buildings. Also conducted energy audits in various buildings.
4.	Residence(with STD)	0471 2114990
5.	Mobile	9446090990
6	Email address	mail2sanjay@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	April 2013 Energy Auditor
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	April 2013
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.)	Certified Energy Auditor CEA- 16267
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Reg No: CEA 16267 Certificate No. 5302
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No
<b>Remarks( if any)</b>		

**\*Biodata of Certified Energy Manager.**

1	Name of energy auditor	T.J.Varghese
2.	Qualifications.	DEMIPE
3.	Experience. (use additional sheet if required)	34 years of experience in DOT/ BSNL
4.	Residence(with STD)	
5.	Mobile	9446411105
6	Email address	ptjverghese@yahoo.co.in
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	Feb 2009 Energy Manager
8	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	Nov 2008
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.)	Energy Manager EM- 0181
10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	Certificate No: 3302
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No
<b>Remarks( if any)</b>		