



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

CERTIFICATE OF EMPANELMENT

*This is to certify that **M/s. Power Grid Corporation of India Ltd** (Saudamini', Plot No.-2, Sector-29, Gurgaon-122001) 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- 4419F

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

This empanelment is valid up to 12th February 2022

Issuing Date: 13/02/2019

Place: Thiruvananthapuram

Director,
Energy Management Centre Kerala

Information of firm		
1.	Name & address of firm	Power Grid Corporation of India Ltd, Plot-2 Saudamini, Sector 29, Gurgaon 122001
	Office (with STD)	0124-3802670
	Mobile	9717697106
	Fax Number	
2.	Website (if any)	www.powergridindia.com
3.	Email Address	samirk@powergridindia.com
4.	Name, Designation and address of contact person	Sh. Samir Kumar General Manager Energy Management Department Power Grid Corporation of India Ltd. 'Saudamini', Plot No.-2, Sector-29, Gurgaon-122001
5.	Office (with STD)	0124-3802670
	Resident (with STD)	
	Mobile	9717697106
6.	Email address	samirk@powergridindia.com
7.	Year establishment	1992
8.	Year of commencement of energy audit firm	2012 - commencement of Energy Audit business
9.	No. of Branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Attached as Annexure-I POWERGRID corporate office is located in Gurgaon with Registered office in Delhi. In addition to this POWERGRID has 11 Regional offices, more than 200 substations and around 300 other establishments in India as well as abroad.

Details of Associated Energy Experts and Audits conducted by firm		
1.	Number of resource persons available	9465 (as on 31.03.2018)
2.	Number of full-time energy auditors in position with work experience of all energy auditors associated with the firm	63 Energy Auditors (Work experience of 3 Energy Auditors are attached for reference)
3.	No. of part-time energy auditors in position during the current year/previous during the current year/previous year associated with firm	09 External Energy Auditors are associated
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"> • Iron & Steel • Buildings • Port Trust • Sports Complex • Institutions • Telecommunications & Infrastructure • Wire Drawing • Cable and Conductor Plant • Steel Re-rolling Mill • Ceramic Industry • Airports • Commercial Buildings • Petrochemical • Power Plants • Automobile Industries • Water Treatment Plants (WTP) • Foundry • Municipal Pumping • Lift Canal
5.	Energy audit process system (list sectors)-if no energy audit has been carried out of the system and parameters, please list nil	Integrated Steel Plant
6.	Energy audit of thermal utility system (List Sectors)	Power Plant Steel and Iron Structural Industry Steel Re-rolling Mill Foundry
7.	Energy audit of electrical utility system (List Sectors)	Iron & Steel Port Trust

			Sports Complex Institutions Telecommunications & Infrastructure Wire Drawing Cable and Conductor Plant Steel Re-rolling Mill Ceramic Industry Airport Commercial Buildings Petrochemical Power Plant Automobile Water Treatment Plant (WTP) Foundry Municipal Pumping Lift Canal
8	Instruments Available	(a) Electrical (list the name of the instruments)	1) Power Analyser – 07 Nos. 2) Clamp on Power Meter – 06 Nos. 3) Digital Stroboscope – 02 Nos. 4) Fluke Air Meter – 1 No. 5) Hot Wire Anemometer – 3 Nos. 6) Ultrasonic Liquid Flow Meter – 5 Nos. 7) 1000A T _{rms} AC/DC Clamp – 2 Nos. 8) Digital Lux Meter – 5 Nos. 9) Pressure Gauge – 6 Nos.
		(b)Thermal (list the name of the instruments)	1) Portable Flue Gas Analyser – 02 Nos. 2) Temperature / Humidity Meter – 2 Nos. 3) Portable IR Thermometer – 2 Nos. 4) Thermal Imager Camera – 1 No.

Bio data of certified Energy auditors		
1.	Name of Energy auditor	Dr Vinay Senve
2.	Qualifications.	PhD
3.	Experience (Use additional sheet if required)	<p>Name of the Assignment or Project: Energy audit of Integrated Steel Plants</p> <p>Year: Feb 2014</p> <p>Client: Uttam Galva Metallica Limited (UGML), Wardha</p> <p>Main Project Features:</p> <p>Detailed Energy Audit of</p> <ul style="list-style-type: none"> - Blast furnace, Sinter Plant - Raw Material Handling Plant - Captive Power Plant of 15 MW - Auxiliary Supply Transformers, - Blowers, compressors, Motors, Cooling Towers and pumps - Lighting System <p>Position Held: Thermal Engineer</p> <p>Activities Performed:</p> <p>Responsibilities included Comprehensive Energy Audit, on-site measurements, identification of energy conservation measures, preparation of detailed energy audit report and providing technical inputs for the implementation of feasible energy conservation measures.</p>
4.	Residence (with STD)	
5.	Mobile	8527990204
6.	Email address	vinsenve@powergridindia.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	Feb-2016	
8.	Date of passing the examination in “Energy Performance Assessment for equipment and Utility Systems”	Sept-2015	
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)	CEA-23911 CEA-23911	
10.	Examination Registration Number of (i) Energy Manager (ii) “ Energy Performance Assessment for equipment and utility systems”	EA-23911 EA-23911	
11.	Are you a BEE accredited Energy auditor. If so: Date of accreditation No.	No	

Bio data of certified Energy auditors		
1.	Name of Energy auditor	Dr Arun Prakash Upadhyay
2.	Qualifications.	PhD
3.	Experience (Use additional sheet if required)	<p>Name of the Assignment or Project: Energy audit of Integrated Steel Plants</p> <p>Client:</p> <p>1) Bhushan Steel Limited, Meramandali, Orissa (2017)</p> <p>2) Vandana Global Ltd, Raipur, Chattisgarh (2016-17)</p> <p>Position Held: Engineer</p> <p>Activities Performed:</p> <p>Responsibilities included Comprehensive Energy Audit, on-site measurements, identification of energy conservation measures, preparation of detailed energy audit report and providing technical inputs for the implementation of feasible energy conservation measures.</p> <p>Name of the Assignment or Project:</p> <p>Energy Audit of Institutions and Buildings</p> <p>Clients</p> <p>1) Indian Institute of Technology, Roorkee</p> <p>2) POWERGRID Township Building, Gurgaon</p> <p>Position Held: Energy Auditor</p> <p>Activities Performed:</p> <p>Power Quality Study; Performance analysis of transformers, chillers, compressors, cooling towers, pumps, lighting system; Feasibility study for solar based lighting, solar water heating system and other renewable energy sources; Identification and development of energy conservation opportunities with cost benefit analysis; Preparation of energy audit report</p>



		<p>Name of the Assignment or Project: Energy Audit of Water Pumping Stations</p> <p>No. of Projects - 1 1) JLN Narnaul Boosting stations (2017-18)</p> <p>Position Held: Engineer</p> <p>Activities Performed: Power Quality Study; Study of operational pattern; Performance analysis of pumps; Preparation of energy audit report</p>	
4.	Residence (with STD)		
5.	Mobile	9971705307	
6.	Email address	arunppch@powergridindia.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)	20/03/2018 Energy Auditor	
8.	Date of passing the examination in "Energy Performance Assessment for equipment and Utility Systems"	Sept 2017	
9.	Examination Registration Number of (iii) Energy Manager (iv) "Energy Performance Assessment for equipment and utility systems" (In case of Certified Energy Auditor, please write CEA Registration No)	CEA-28666 CEA-28666	
10.	Examination Registration Number of (iii) Energy Manager (iv) " Energy Performance Assessment for equipment and utility systems"	EA-28666 EA-28666	
11.	Are you a BEE accredited Energy auditor. If so: Date of accreditation No.	No	

Bio data of certified Energy auditors		
1.	Name of Energy auditor	Abhishek Rathi
2.	Qualifications.	B. Tech. (Electrical Engineering)
3.	Experience (Use additional sheet if required)	<p>Name of the Assignment or Project: Energy audit of Integrated Steel Plants</p> <p>Client:</p> <p>3) Bokaro Steel Plant, SAIL (2014-15)</p> <p>4) Bhilai Steel Plant (BSL), SAIL (2014-15)</p> <p>5) Monnet Ispat & Energy Limited (MIEL), Raigarh (July, 2014)</p> <p>6) Uttam Galva Metallics Limited (UGML), Wardha (Feb, 2014)</p> <p>7) Bhushan Steel Limited, Meramandali, Orissa (2016-17)</p> <p>8) Vandana Global Ltd, Raipur, Chattisgarh (2016-17)</p> <p>9) Essar Steel, Hazira, Gujarat (2015-16)</p> <p>Name of the Assignment or Project: Energy Audit of Institutions and Buildings</p> <p>Clients</p> <p>3) Indian Institute of Technology, Roorkee</p> <p>4) National Institute of Financial Management (NIFM), Faridabad;</p> <p>5) Indian Institute of Foreign Trade (IIFT), New Delhi;</p> <p>6) National Institute of Technology, Warangal (NITW), (2013-14)</p> <p>7) North Eastern Regional Institute of Science and Technology (NERIST), Itanagar,</p> <p>8) State bank Academy, Gurgaon (May, 2014)</p> <p>9) ITM University, Gurgaon</p> <p>10) New Delhi Municipal Council</p>
4.	Residence (with STD)	
5.	Mobile	8826094860
6.	Email address	abhishek.rathi@powergridindia.com
7.	Date of certification as	20/03/2018



	Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) (if not appeared list as nil	Energy Auditor	
8.	Date of passing the examination in “Energy Performance Assessment for equipment and Utility Systems”	Sept 2017	
9.	Examination Registration Number of (v) Energy Manager (vi) “Energy Performance Assessment for equipment and utility systems” (In case of Certified Energy Auditor, please write CEA Registration No)	EA-28659	
10.	Are you a BEE accredited Energy auditor. If so: Date of accreditation No.	No	

Annexure-I

POWERGRID Regional Offices

NORTHEN REGION TRANSMISSION SYSTEM-

REGIONAL HEAD QUARTER

B-9, QUTAB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI- 110016

STD: 011, EPBAX - 26560112, 26560115

NORTHEN REGION TRANSMISSION SYSTEM-II

REGIONAL HEAD QUARTER

GRID BHAWAN, NEAR BAHU PLAZA, RAIL HEAD COMPLEX, JAMMU- 180012

STD CODE: 0191, EPBAX – 2471192

NORTHEN REGION TRANSMISSION SYSTEM-III

REGIONAL HEAD QUARTER

12 RANA PRATAP MARG, LUCKNOW - 226001

STD CODE: 0522-2205103

EASTERN REGION-I TRANSMISSION SYSTEM

REGIONAL HEAD QUARTER

HQ: BOARD COLONY, NEAR TRANSFORMER REPAIR WORKS, SHASTRI NAGAR, PATNA – 800023(BIHAR)

STD CODE: 0612, EPBAX – 2283002

EASTERN REGION-II TRANSMISSION SYSTEM

REGIONAL HEAD QUARTER

CF-17, ACTION AREA- 1C, NEW TOWN, KOLKATA- 700156

STD CODE: 033, EPBAX: 033-23242840/50/20

ODISHA PROJECTS

HEAD QUARTER

PLOT NO. 4, UNIT- 41, NILADRI VIHAR, CHANDRASEKHARPUR

BHUBANESWAR- 751021, (ODISHA)

STD CODE: 0674

NORTHEN- EASTERN REGION TRANSMISSION SYSTEM

REGIONAL HEAD QUARTER

DONGTIEH, LOWER NONGARH, LAPALANG

SHILLONG- 793006, MEGHALAYA

STD CODE: 0364, EPBAX: 0364-2537458, 2536056

SOUTHERN REGION TRANSMISSION SYSTEM-I

REGIONAL HEAD QUARTER

NO. 6-6-8/32 & 395/E, KAVADIGUDA MAIN ROAD, SECUNDERABAD- 5000080(TELANGANA)

STD: 040, EPBAX: 27546636, 27546658& 27546657

SOUTHERN REGION TRANSMISSION SYSTEM-II

REGIONAL HEAD QUARTER

NEAR R.T.O. DRIVING TEST TRACK, SINGNAYAKANAHALLI YELAHANKA-DADABALLAPUR

ROAD, YELAHANKA HOBLI, BENGALURU-560064

STD CODE: 080, EPBAX: 23093700

WESTERN REGION TRANSMISSION SYSTEM-I

REGIONAL HEAD QUARTER

SAMPRIITI NAGAR, NARI RING ROADE, PO: UPPALWADI, NAGPUR-440026(MAHARASHTRA)

STD CODE: 0712, EPBAX: 2641478-79, FAX: 0712-2641365

WESTERN REGION TRANSMISSION SYSTEM-II

REGIONAL HEAD QUARTER

PLOT NO. 54, OPPOSITE AMBE VIDHYALAYA,SAMA-SAVLI ROAD, VADODRA- 390008