



REPUBLIC OF LIBERIA STATUTORY RULES AND ORDERS

CERTIFICATION AND LICENSING OF ELECTRICAL PROFESSIONALS AND CONTRACTORS REGULATIONS

APRIL 2023

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Published on 12th April 2023

Liberia Electricity Regulatory Commission

IN EXERCISE of the powers conferred by chapters 3.3(A) (4), of the 2015 Electricity Law of Liberia, the Liberia Electricity Regulatory Commission makes the following Regulations this 12th day of April 2023.

**CERTIFICATION AND LICENSING OF ELECTRICAL PROFESSIONALS
AND CONTRACTORS REGULATIONS**

LERC - REG. – 008
2023

PART I - PRELIMINARY PROVISIONS

1. CITATION

- (1) These Regulations may be cited as the Certification and Licensing of Electrical Professionals and Contractors Regulations, 2023.
- (2) These Regulations come into force on the 12th day of April 2023.

2. PURPOSE, APPLICABILITY AND SEVERABILITY

- (1) These Regulations elaborate the qualification criteria for electrical professionals and contractors for undertaking electrical work.
- (2) These Regulations apply to a person engaged in:
electrical work, including the design, installation, commissioning, maintenance, repair, inspection and testing of such works as well as energy efficiency contracting.
- (3) These Regulations do not apply to electrical work that is:
 - (a) unrelated to wiring or equipment that is not connected to a wiring system;
 - (b) undertaken within the boundaries of an establishment by an employee of the establishment, trained to do so;
 - (c) done on original equipment of a manufacturer if done by an employee or agent of the manufacturer who has been trained by the manufacturer to perform maintenance, service and repair, if the work being done does not include extending or altering the equipment, or installing, extending or altering any electrical wiring connected to the equipment; and
 - (d) undertaken by an external electrical contractor under a contract awarded through an international selection process.
- (4) For the avoidance of doubt, electricians or contractors engaged in work on portable electrical appliances which do not require alterations or additions to a wiring installation, such as table lamps, television sets and refrigerators, need not be licensed.

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(5) If any provision in these Regulations shall for any reason be held invalid or unenforceable, the other provisions not affected thereby shall remain in full force and effect.

3. DEFINITIONS

Apprentice	Means a person who is learning the electricity trade from a master electrician for a fixed period
Apprenticeship	Means an arrangement in which a person learns the electricity trade under a master electrician for a fixed period
Artisan	Means a person who has trained and successfully completed an apprenticeship program of not less than 3 years and has undergone an evaluation by a master electrician
Commission	Means the Liberia Electricity Regulatory Commission
Distribution Code	Means the Liberia Electricity Distribution Code which specifies the procedures for the planning and operation of the distribution network during normal and exceptional conditions
Electrical contractor	Means a person duly licensed to undertake electrical works or energy efficiency contracting as a firm through electrical professional(s)
Electrical professional	Means: (a) an electrician certified by LERC to perform electrical wiring works; or (b) an electrical works inspector; (c) a solar PV installer that is certified by an accredited institution and licensed by LERC to install solar PV systems; or (d) an energy auditor duly licensed by LERC to perform energy audits
Electrical work	Means all work and services associated with electrical wiring, solar PV installation (including solar plug and play systems), and energy efficiency
Electrical works	Means specific electrical work and services within an electrical system relating to the installation and maintenance of equipment and facilities for the production and delivery of electricity to end users including, wiring both internal and external OR work in relation to the installation, commissioning, inspection, testing, maintenance, modification or repair of a low voltage or high voltage fixed electrical installation, RE installation, energy efficiency audits, and includes the supervision and certification of the work and the design of the installation. Examples of fixed electrical installations are distribution boards, wiring installations and lighting fittings, etc., that are fixed in premises.
Electrician	Means an artisan, technician or engineer trained to perform electrical wiring and installation works
Energy auditor	Means an engineer certified by an accredited institution to inspect buildings or industrial processes and assess energy use and make recommendations for optimizing efficiency and minimizing costs

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Energy efficiency	Means the process of reducing the amount of energy (electrical or thermal) required to provide products and services with wiring or piping systems
Engineer	Means a person that acquires training in the discipline concerned with the study, design and application of equipment, devices and systems relating to electrical power generation, transmission and distribution of at least High School + 4 years including an electromechanical engineer or equivalent.
ESI	Means Electricity Supply Industry
External contractor	Means a foreign contracting firm when acting solely or in collaboration with a Liberian firm
Grid Code	Means the Liberia Electricity Grid Code which specifies the framework for connection and usage of the national grid, system services, grid expansion and procedures for the planning and operation of the transmission system during normal and exceptional conditions
Inspector	Means an electrician that has been duly certified by LERC to inspect and test electrical wiring and installation works including solar PV systems.
LEC	Means Liberia Electricity Corporation
LERC	Means Liberia Electricity Regulatory Commission
Master electrician	Means an electrician that has attained at least Level 5 on the Liberia TVET National Qualification Framework (LNTQF) and has been actively engaged in electrical wiring works as follows: (a) not less than 15 years in the case of artisan; (b) not less than 10 years in the case of a technician; and (c) not less than 7 years in the case of an engineer.
RREA	Means Rural & Renewable Energy Agency
Solar plug and play system	Means a fully inclusive, commercial, pre-packaged alternating current (AC) module PV system, which is able to be easily installed and may be plugged into a conventional house electric outlet following appropriate safety procedure
Technician	Means a person with an academic or carrier accreditation and practical training below graduate level of at least High School+ 2 years (diploma) who installs, operates, maintains or repairs electric/electronic devices or electrical wiring.
TVET	Means a Technical Vocational Education Training
Wiring Code	Means the Liberia Electrical Wiring Code which specifies the code of practice for the distribution of electrical energy in and around all types of structures including domestic and commercial premises, public buildings, factories, construction sites, farmhouses, booths, temporary installations and playgrounds.

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4. Requirement for Certification or License to Undertake Electrical Work

(1) Unless expressly exempted, no person shall undertake electrical work unless that person is competent to undertake the work and has been certified or licensed under these Regulations.

(2) For purposes of this regulation, a competent person is a person who has received the requisite electrical training and adequate practical skills and is capable of performing specified electrical works adequately and safely in accordance with the requirements of these Regulations and the Electrical Wiring Regulations, the Wiring Code and the Liberia National Standards.

5. Types of Certifications and Licenses

(1) The types of certifications and licenses under these Regulations are as follows:

- (a) the electrician's certification for the design, installation and commissioning of electrical wiring and associated works;
- (b) the inspector's certification for inspecting and testing existing and new electrical and solar PV installations;
- (c) the solar PV installer's license for the design, installation and commissioning of solar PV systems;
- (d) the energy auditor's license for undertaking energy efficiency services in respect of buildings, equipment and facilities; and
- (e) the electrical contractor's license for the performance of electrical wiring, installation of solar PV systems or energy efficiency services as the case may be.

(2) LERC may grant more than one certification or license or a combination of certifications and licenses to an electrical professional to undertake the various electrical work authorized while a licensed contractor may perform multiple activities by employing and utilizing the specific electrical professionals required for each electrical work.

6. Inspector's Function

(1) Electrical wiring works or solar PV system installation works undertaken by an electrician, a solar PV system installer or a contractor are subject to inspection and testing by an Inspector.

(2) Subject to regulation 7(1),

- (a) a certified inspector may undertake electrical wiring or solar PV system installation works provided that the electrical work undertaken by the inspector shall be subject to independent inspection by another Certified Inspector.
- (b) a licensed contractor may use the services of an inspector in its employ for inspection of electrical works executed by the contractor provided that the employee inspector did not participate in the execution of the works.

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7. Grant of Multiple Certifications or Licenses

(1) LERC may grant more than one certification or license or a combination of certifications and licenses to an electrical professional who successfully undergoes the certification process or satisfies criteria for licensing respectively for each type of electrical work.

(2) A holder of multiple authorizations may undertake electrical works covered by each certification or license provided the holder is not in breach of:

- (a) the provisions of regulation 6(2), or
- (b) any ethics or conflict of interest principle.

8. Application for a Certification or a License

(1) An applicant for a certification or license shall first register at the LERC's website and thereafter make an application to the Managing Director of LERC in the manner stipulated in this regulation and shall be accompanied by the fee specified.

(2) The application for the grant of:

- (a) a certification as an electrician or inspector shall be made using the form provided in Schedule 1A;
- (b) a license as a solar PV system installer or and auditor shall be made using the form provided in Schedule 1B;
- (c) a license as an electrical contractor shall be made using the form provided in Schedule 1C.

(3) LERC shall within 10 days of submission of the application

- (a) inform the applicant of the completeness of the application or
- (b) request for additional information.

(4) Subject to sub-regulation 3(b), LERC shall inform the applicant of the completeness of the application within 10 days upon satisfactory submission of the additional information.

(5) LERC may on application upgrade a certification or a license to a higher level.

(6) An application for upgrade of a certification or a license shall follow a similar process as the initial application.

(7) The certification or license shall be issued by LERC within 30 days of the completion of the process under the hand of the Managing Director.

9. Duration of a Certification or a License and Renewal

A certification or license issued under these Regulations shall be valid for a period of two years and shall be renewed upon payment of the related fees.

10. Re-examination of Electrical Professionals

(1) Each electrical professional shall be re-examined or tested every six years to maintain their certification or license.

(2) The procedure for re-examination for the certification or license on its expiry shall be similar to the procedure for the initial certification or license.

11. Fees

(1) An applicant for a certification or license shall pay the following fees:

- (a) a registration fee to initiate the application process;
- (b) the application fee on submission of the relevant application;
- (c) an examination fee where required;
- (d) an issuance fee upon the grant of the certification or license; and
- (e) a renewal fee payable every two years.

(2) The fees for each type and class of certification or license where applicable are specified in Schedule 2.

(3) Non-payment of the renewal fee before the expiry date of the instrument renders the certification or license invalid.

(4) Delayed renewal of certification or license beyond the requisite date of renewal shall attract a 10% penalty (or fine) annually on top of the requisite renewal fees as determined by LERC.

12. Suspension and Revocation of Certification or License

(1) LERC may suspend or revoke a certification or license if the holder is in breach of these Regulations, the conditions of the certification or license where applicable or for some other stated cause.

(2) No certification or license shall be suspended or revoked unless the holder has been granted a hearing.

(3) LERC shall determine the conditions for reinstating a suspended or revoked certification or license.

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PART II – SPECIAL PROVISIONS RELATING TO CERTIFICATIONS

13. Qualification and Classification for Certification of Electricians and Inspectors

- (1) The LERC's classification for certification of electricians is from Class 1 to 5.
- (2) Only an electrician classified as Class 1 and Class 2 shall qualify for certification as an inspector.
- (3) The qualification criteria for each Class of electrician and the technical limits of electrical work to be performed is specified in Schedule 3.
- (4) To qualify for certification as an electrician or inspector, the following shall be required:
 - (a) a formal theoretical and practical skills training in an electricity related field;
 - (b) apprenticeship under a certified master electrician or licensed electrical contractor;
 - (c) a written examination and a practical examination conducted by LERC under the auspices of TVET except that the artisan is exempted from the written exam; and
 - (d) an interview conducted by a panel established by LERC.
- (5) Subject to regulation 14, the written examination shall be based on the Grid Code, the Distribution Code, the Wiring Code as well as the technical standards of the electricity supply industry.
- (6) The practical examination shall be held at an accredited technical institution and shall involve the performance of a practical assignment under the supervision of industry experts.
- (7) The interview shall take the form of a formal appearance before a panel established by LERC in accordance with the provisions of regulation 14 (4), which shall evaluate the competency of a candidate through an oral examination.

14. Examination and Interview of Electricians and Inspectors

- (1) TVET shall in consultation with operators within the ESI and LERC:
 - (a) develop appropriate curricula for the written examination for electricians and inspectors respectively;
 - (b) review the curricula periodically (five-yearly) to ensure it is in tune with current industry technological trends; and
 - (c) coordinate the examinations.
- (2) The written examinations shall be conducted twice yearly and the practical examination and interviews at least three times a year.
- (3) LERC shall in consultation with Ministry of Education (MoE) designate certain technical and vocational institutions for conducting the written and practical examinations.

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(4) LERC shall establish the interview panel consisting of representatives of the following organizations:

- (a) Ministry of Public Works;
- (b) Ministry of Gender;
- (c) Ministry of Mines & Energy;
- (d) Ministry of Education-TVET Division
- (e) Rural & Renewable Energy Agency (RREA)
- (f) Liberia Electricity Corporation (LEC)
- (g) Association of Liberian Construction Contractors;
- (h) Engineering Society of Liberia;
- (i) Liberia Chamber of Architects;
- (j) Liberia Chamber of Commerce;
- (k) National Standards Authority; and
- (l) Civil Society.

(5) Each organization shall nominate a representative for appointment to the panel by LERC.

(6) The LERC shall appoint a chairperson from amongst the members and a representative of the LERC shall be the Secretary to the Panel.

(7) The interview panel, upon its constitution, shall develop guidelines for its operations.

(8) LERC shall collate the examination and interview results and grant the certification to successful applicants.

15. Process for Certification of Electricians and Inspectors

(1) An applicant for certification shall register with the LERC and be assigned a unique identification code.

(2) The applicant shall use the unique code for the application for certification including written and practical examinations as well as the interview.

(3) After registering, the applicant shall take the prescribed written examination within 12 months of the next scheduled written examinations date and if successful, notify LERC of dates for taking the practical examination and the interview in accordance with the schedule published by LERC to that effect.

(4) Within 30 days of an examination or interview, LERC shall inform the applicant of the outcome.

(5) If an applicant is not successful in the written examination within 18 months of the initial application, the application shall lapse, and the applicant shall be required to re-apply.

PART III – SPECIAL PROVISIONS RELATING TO LICENSES

16. Provisions Relating to a Solar System Installer's Certification and License

- (1) The LERC's classification for license for solar PV installer license is Class SL1, Class SL2 and Class SL3 respectively.
- (2) An applicant shall prior to application for a specific level of solar PV Installer's license successfully undergo a corresponding designated solar PV Installation training, both theory and practical, before certification from a TVET accredited institution.
- (3) The curriculum for the training of solar PV system installers shall, include the Wiring Code, the Mini Grid Code, the Distribution Code, the Solar Energy Products Technical Regulations as well as the Liberia National Standards.
- (4) After obtaining the appropriate certification required in sub-regulation (2), the applicant may apply to LERC for the appropriate level of solar PV Installer's license to be issued.
- (5) The qualification criteria for each class of solar PV installer license is specified in Schedule 4A and the technical limits of the works to be performed by a holder of each Class of license is specified in Schedule 4B.

17. Provisions Relating to an Energy Auditor's Certification and License

- (1) An energy auditor shall prior to applying for a license pass the requisite examination that is conducted by a university designated by LERC for that purpose.
- (2) The university shall develop a curriculum in consultation with LERC for the conduct of the examination for purposes of certification of the applicant.
- (3) The minimum qualification and experience for qualification for a candidate applying for examination for certification is specified in Schedule 5.
- (5) The examinations for the certification of energy auditors shall be conducted at least twice each year.
- (6) The accredited university shall in consultation with LERC develop guidelines for the management of the examinations and certification process.
- (7) Upon obtaining the certification in accordance with this regulation, the applicant may proceed to apply to LERC for an energy auditor's license.

18. Provisions Relating to Electrical Contractors' License

- (1) The LERC's classification for contractors' license is Class A, Class B, Class C and Class D respectively.
- (2) The technical limits of the works to be undertaken by each class of contractor are provided in Schedule 6 hereto.
- (3) A contractor may be upgraded to a higher level in accordance with criteria for grading and upgrading contractors as specified in Schedule 7 hereto.
- (4) The qualification criteria for each class of contractor are provided as follows:

- (a) personnel requirements as provided in Schedule 8A; and
 - (b) total value of contracts performed annually as provided in Schedule 8B.
- (5) In assessing the total value of contracts performed by an applicant with no previous work history, LERC may be guided by bank statements and audited accounts in lieu.
- (6) A contractor shall have an office at a physical location and address with sufficient space and size commensurate with the level of its operations as appropriate.

PART IV – TERMS AND CONDITIONS OF A CERTIFICATION OR A LICENSE

19. Code Of Ethics of an Electrical Professional

(1) Certified or licensed electrical professionals shall uphold the highest ethical professional conduct, and shall be accountable for their actions and omissions as well as observe the following at all times:

- (a) take decisions which will ensure the protection of public safety, health and welfare and promptly disclose circumstances which may affect them;
- (b) avoid real or perceived conflict of interest and to disclose them to affected parties when they arise;
- (c) be honest, realistic in stating claims and estimates based on available information;
- (d) reject bribery and corruption in all its forms;
- (e) continually upgrade understanding of technology, its appropriate application and consequences;
- (f) strive to improve technical competence and to perform technological tasks for others only if qualified by training and experience;
- (g) seek, accept and offer honest criticism of technical work, acknowledge and correct errors, and properly credit the contributions of others;
- (h) treat all persons fairly and not engage in acts of discrimination based on race, religion, gender, disability or nationality;
- (i) avoid injuring others, their property, reputation or employment by false testimony; and
- (j) assist colleagues and coworkers in their professional development and support them in following this code of ethics.

(2) A breach of this Code of Ethics may be deemed a breach of a condition of the certification or license and may constitute grounds for the suspension or revocation of the certification or license.

20. Provisions Relating to an Electrical Contractor

- (1) A licensed electrical contractor shall ensure that it:
- (a) employs certified electricians for the execution of its works;
 - (b) maintains an adequate managerial staff; and
 - (c) possesses sufficient level of tools, equipment, vehicles and facilities.
- (2) The licensed electrical contractor shall not:
- (a) change its name or shareholding of the licensed entity without the express approval of LERC; or

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- (b) assign its license to another entity and where the ownership of a licensed entity is being divested, the successor entity shall apply for a new license.
- (3) The licensed electrical contractor shall maintain a Workman Compensation or an Employers Liability insurance policy during the period of the license.

PART V – MISCELLANEOUS PROVISIONS

21. Transitional Provisions

- (1) Part II of these Regulations shall come into effect two years from the date of entry into force of these Regulations.
- (2) Regulations 16 and 17 shall come into effect six months and three years respectively, from the date of entry into force of these Regulations.
- (3) An electrical contractor with a valid certification under the Contractors Classification and Certification System of the Ministry of Public Works shall operate under that certification for a maximum of 12 months from the date of entry into force of these Regulations, the transitional period.
- (4) At the end of the specified transitional periods, the electrical professionals and contractors shall come into compliance with these Regulations.

22. Publication of Schedule for Examinations and Interviews

LERC shall publish the schedule for the examinations and interviews for each calendar year before the end of January of that year.

23. Register of Licenses and Certifications

- (1) LERC shall maintain a register of licenses and certifications it has issued which, shall also be published on its website.
- (2) The holder may apply to LERC for a cancellation of their certification or license.
- (3) Subject to sub-regulation (2), LERC shall:
- (a) cancel the certification or license;
 - (b) inform the holder of the cancellation; and
 - (c) strike off the certification or license from the register.

24. Amendment or Repeal of Regulation

The LERC may amend or repeal the provisions of these Regulations as it deems necessary.

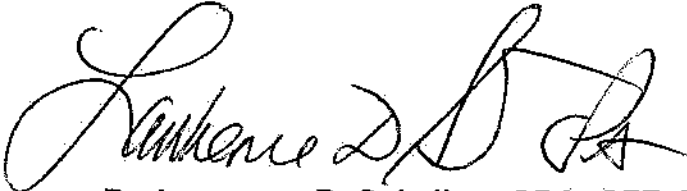
COMMON SEAL OF THE



LIBERIA ELECTRICITY REGULATORY COMMISSION

Was affixed pursuant to the ORDER OF THE COMMISSION

On this 12th of April 2023

A handwritten signature in black ink, appearing to read 'Lawrence D. Sekajipo', written in a cursive style.

**Dr. Lawrence D. Sekajipo, CPA, CFE, DBA, JSM
CHAIRMAN
BOARD OF COMMISSIONERS**

Handwritten initials, possibly 'WS', in black ink.

SCHEDULES

Schedule 1A: Application Form for Certification of Electrical Professionals

**Liberia Electricity Regulatory Commission (LERC)
Application Form - Certification of Electrical Professionals**



Applicant's Photograph

Application No	
Date Received	

*Please fill entire form. Add Receipt of Application Fee **PLUS 2 Photographs***

PART 1 – TYPE OF CERTIFICATION

1. Certification or License applicant is seeking: <please check as applicable >

Electrician's Certification

Indicate Class	<input type="checkbox"/> Class 1	<input type="checkbox"/> Class 2	<input type="checkbox"/> Class 3	<input type="checkbox"/> Class 4	<input type="checkbox"/> Class 5
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Electrical Inspector's Certification

Energy Auditor's License

Solar PV Installer's License

Indicate Class	<input type="checkbox"/> SL-1	<input type="checkbox"/> SL- 2	<input type="checkbox"/> SL- 3
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PART 2

2. Applicant's personal information

1. Name	2. National ID #: Passport #:	3. DOB:
4. Address:		
County:	District:	City:
5. Tel.# :	6. Fax#:	
7. Email:		

PART 3

3. Applicant's educational/apprenticeship record

3A. Applicant's educational record

Type of Training	Dates	School/Institute/Location	Diploma or Degree/

3B. If Artisan, Details of Master Electrician or Engineer (Under-studied)

Name & Address of Master		
Certification no of Master		
Duration of apprenticeship		

PART 4

4. Other professional training/experience

Type of certificate held	Issuing Authority	Certificate No.	Issue date	Expiry date

PART 5

5. Verifiable Work Experience: Indicate capacity and nature of practical electrical work performed

Description of Job	Time in Months	Employer	Contact Person's details

PART 6

6. References: Provide names of at least (2) persons in the Electrical Industry to be used as references

Reference	Home/Office Address	Email	Telephone #
1.			
2.			

PART 7

7. Remarks: Provide additional information on training and work experience which can help the LERC decide on the application.

Signature of Applicant and Title

Date

Schedule 1B: Application Form for Electrical Contractors' LICENSE

**Liberia Electricity Regulatory Commission (LERC)
Application Form - Licensing of Electrical Contractors**

Application No:	Date Received:
------------------------	-----------------------

Please fill entire form and add receipt of Application Fee

1. Type of License				
<input type="checkbox"/> ELECTRICAL CONTRATOR Indicate Class – A, B, C or D	<input type="checkbox"/> Class A	<input type="checkbox"/> Class B	<input type="checkbox"/> Class C	<input type="checkbox"/> Class D
2. Business Name:				
3. Business Registration or Tax Identification Number:				
4. Type of Ownership				
<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Limited Liability Company				
(Please attach certified copy of business registration certificate and articles of incorporation)				
5. Mailing Address: (please use P.O Box)				
6. Physical Address: (location address)				
7. Phone no:			8. Fax #:	
9. Email Address:				
10. Contact Person:				
Name: _____				
Phone no:			Email Address:	
11. Liability Insurance:				
(a) at least ---				
(b) at least ---				
(A certificate of insurance MUST be attached to the application)				
12. Workmen's compensation insurance:				
<input type="checkbox"/> Available <input type="checkbox"/> Not Available				
If available state limit:				
13. Electrical Professional(s) employed by the Contractor:				
I agree to assign my electrical professional license to the contractor and affirm that I shall comply with all the applicable provisions of the ELL, the Electricity Codes, Regulations, the Liberia Standards etc.				
I understand that providing false information on this application or in any report to the LERC may result in civil or criminal penalties or a revocation of my license.				

(A contractor MUST be or employ at least an electrical professional to qualify)

Name: _____ License no. _____

Signature: _____ Date signed: _____

14. Key staff:

Electrical professionals:

Managerial staff:

Other professionals:

(Attach: (a) names (b) profiles (c) *resume* of key staff)

15. STATEMENT OF OWNER

I certify that I shall maintain the required insurance and that I shall comply with all the applicable provisions of the 2015 ELL, Electricity Codes, Regulations, Liberia Standards etc.

I understand that providing false information on this application or in any report to the LERC may result in civil or criminal penalties or a revocation of the license I am requesting.

Name: _____

Signature: _____ Date Signed: _____

Schedule 2: Table of Fees (in US\$ or equivalent in LDs)

Type of Certification/License	Registration Fee	Application Fee	Exam Fee	Issuance Fee	Renewal Fee
Electrical Professional					
Electrician					
Class 1	10	50	200	300	225
Class 2	10	40	150	200	150
Class 3	10	30	100	150	120
Class 4	10	20	75	100	75
Class 5	10	10	50	50	40
Inspector	10	100	200	300	225
Energy Auditor	10	100	n/a	200	150

Electrical Contractor					
Class A	25	100	n/a	400	300
Class B	25	75	n/a	300	225
Class C	25	50	n/a	200	150
Class D	25	25	n/a	100	75
Solar PV Installer					
SL Class 1	10	40	n/a	300	225
SL Class 2	10	30	n/a	200	150
SL Class 3	10	20	n/a	100	75

Schedule 3: Classification and Technical Limits of Works for Certified Electricians

Class	Electrician	Technical Limits	
1	Engineer 15 years' experience	No limit	
2	Engineer 10 years' experience	Up to 2000 amps	66MVA @ 33kV
	Technician 15 years' experience		44MVA @ 22kV
	Artisan 20 years' experience		22MVA @ 11kV
3	Engineer 5 years' experience	Up to 1000 amps	22MVA @ 22kV
	Technician 10 years' experience Artisan 15 years' experience		11MVA @ 11kV
4	Engineer 3 - 5 years' experience Technician 5-9 years' experience Artisan 10 -14 years' experience	Three-phase (or single phase) residential (up to 400 amps)	
5	Engineer of 1-3 years' experience Technician 3-5 years' experience Artisan 5-10 years' experience	Single phase residential (less than 100 amps)	

Schedule 4A: Qualification for Solar PV Installer License

Education	Training/Certification	Work Experience
SL Class 3		
Senior High School or above	Solar Power Training Cert	6 months
Below SHS	Solar Power Training Cert	1 Year
SL Class 2		
Diploma in Engineering	Solar Power Training Cert	1 Year
Electrical Technician	Solar Power Training Cert	2 Years
SL Class 1		
BSC Engineering/Technology	Solar Power Training Cert	1 Year
Diploma in Engineering	Solar Power Training Cert	2 Years

Schedule 4B: Technical Limits of Work per Class of Solar PV Installer License

Class	Technical Limit
SL Class 1	Design, install and commission solar PV systems <All including Grid connected>

SL Class 2	Design, install and commission solar PV systems <Off grid, mini grid, component-based standalone and Plug & play solar systems>
SL Class 3	Install and commission solar PV systems < Solar Plug & play system>

Schedule 5: Qualification Criteria for Certification of Energy Auditors

Graduate Qualification	Post Graduate Qualification	Experience in energy planning, operation and maintenance
Diploma in Engineering/ Technology	-	10 years
BSc in Engineering/Technology	-	7 years
BSc in Engineering/ Technology	MBA or postgraduate degree in Energy Management	5 years
BSc in Engineering/ Technology	MSc in Engineering/Technology	3 years

Schedule 6: Technical Limits of Works for Classes of Electrical Contractors

Activity Limit/Grade	Class A	Class B	Class C	Class D
Maximum Demand	No Limit	≤500KVA	≤200KVA	≤12 KVA
Transmission/Distribution	No Limit	High/Medium/Low Voltage	Medium/Low Voltage	Low Voltage only
Generation Plant (or Generating unit)	No Limit	≤100 MW	≤10 MW	≤20 KW

Schedule 7: General Criteria for Classifying and Upgrading Electrical Contractors

Part 1: Criteria for Grading New Contractors

1. Scope of works for each class based on generation capacity level, transmission or distribution levels which are ultra-high Voltage, high voltage, medium voltage and low voltage and load size in kVA capacity
2. Number of qualified professionals employed by the organization
3. Size and layout of office facilities
4. Transport and plant, machinery, equipment capacity as needed for undertaking jobs professionally
5. Value of projects handled
6. Availability of relevant applicable laws, regulations, codes, technical manuals, procedural manuals
7. Testing and measurement equipment
8. Insurance policy

Part 2: Criteria for Grading and Upgrading Contractors

1. Financial soundness from bank statement or Working Capital availability such as overdraft facility from bank and fixed deposits receipts with banks
2. Value of assets
3. Track record and evidence of works
4. Financial capability from tax clearance, equity, liability and credit statements and guarantees
5. Insurance guarantee

Schedule 8A: Minimum Personnel Requirements for Electrical Contractors

No	Professional Staff	Classes
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		D	C	B	A
1	Engineer 15 years' experience				X
2	Engineer 10 years' experience Technician 15 years' experience Artisan 20 years' experience			X	
3	Engineer 5 years' experience Technician 10 years' experience Artisan 15 years' experience		X	X	2X
4	Engineer 3 - 5 years' experience Technician 5-9 years' experience Artisan 10 -14 years' experience	X	X		
5	Engineer of 1-3 years Technician 3-5 years Artisan 5-10 years	X			

Schedule 8B: Financial Limits of Works for Classes of Electrical Contractors

Grade	Class A	Class B	Class C	Class D
Total Value of Contracts for each 12-month period	No Limit	\$750,000.00	\$300,000.00	\$100,000.00