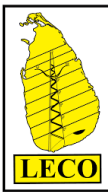
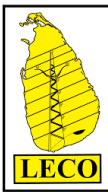


ELECTRICAL INSTALLATION CERTIFICATE

OFFICE USE ONLY		
Branch:	CSC:	Account No:
Received by:	Checked by:	Approved by:
Date :	Date :	Date :
GENERAL		
NAME OF THE CLIENT:		
INSTALLATION ADDRESS:		
DESCRIPTION AND EXTENT OF THE INSTALLATION (Tick boxes as appropriate) <input type="checkbox"/> New Installation <input type="checkbox"/> Construction Site <input type="checkbox"/> Addition /Alternation to an existing installation		
Extent of installation covered by this Certificate:		
DECLARATION I/We being the person(s) responsible for the inspection & testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection & testing hereby CERTIFY that the work for which I/We have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:..... amended to(date) except for the departures, if any, detailed as follows:		
Details of departures from BS 7671(Regulation 120.3 and 133.5):		
The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For INSPECTION & TEST of the installation: Name (with initials): LECO Registration No:		
Signature: Date:		



SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS (tick boxes and enter details, as appropriate)									
Earthing arrangements TT <input type="checkbox"/> TN-C <input type="checkbox"/> TN-S <input type="checkbox"/> TN-C-S <input type="checkbox"/> Alternative source <input type="checkbox"/> of supply (to be detailed on attached schedules)	Number and Type of Live Conductors a.c. <input type="checkbox"/> d.c. <input type="checkbox"/> 1-phase, 2-wire <input type="checkbox"/> 2-pole <input type="checkbox"/> 3-phase, 3-wire <input type="checkbox"/> 3-pole <input type="checkbox"/> 3-phase, 3-wire <input type="checkbox"/> 3-phase, 4-wire <input type="checkbox"/> Other <input type="checkbox"/>	Nature of Supply Parameters Nominal voltage, $U/U_0^{(1)}$V Nominal frequency, $f^{(1)}$ Hz Prospective fault current $I_{pf}^{(2)}$kA External loop impedance, $Z_e^{(2)}$ Ω (Note: (1) by enquiry, (2) by enquiry or by measurement)	<i>(for office use)</i> Supply Protective Device Characteristics Type: Nominal current rating:.....A						
PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE (tick boxes and enter details, as appropriate)									
Means of earthing Distributor's facility <input type="checkbox"/> Consumer's <input type="checkbox"/> earth electrode	<div style="text-align: center;">Maximum Demand</div> Maximum demand (load).....kVA/Amps <div style="text-align: center;">Details of Installation Earth Electrode <i>(where applicable)</i></div> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:33%;">Type & Material (e.g. rod(s), plate etc)</th> <th style="width:33%;">Location</th> <th style="width:33%;">Electrode resistance to earth</th> </tr> </thead> <tbody> <tr> <td>.....</td> <td>.....</td> <td>.....Ω</td> </tr> </tbody> </table>			Type & Material (e.g. rod(s), plate etc)	Location	Electrode resistance to earth Ω
Type & Material (e.g. rod(s), plate etc)	Location	Electrode resistance to earth							
..... Ω							
<div style="text-align: center;">Main Protective Conductors</div> Earthing conductor : material csa*.....(mm ²) connection verified <input type="checkbox"/> Main equipotential bonding Conductors : material csa*.....(mm ²) connection verified <input type="checkbox"/> *(csa-cross section area)									
<div style="text-align: center;">Main Switch or Circuit-breaker</div> BS, Type and No. of poles..... Current rating.....A Voltage Rating.....V Location..... Fuse rating or setting.....A									
COMMENTS ON INSTALLATION 									
NEXT INSPECTION I/We the inspector(s) recommend that this installation is further inspected and tested after an interval of not more than years/months.									
SCHEDULES The attached Schedules are part of this document and this Certificate is valid only when they are attached to it. Schedule of Inspections, Single Line Diagram of the wiring up to the metering point and..... No of Schedules of Test Results are attached.									

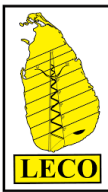


SCHEDULE OF INSPECTIONS

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in BS 7671.

NOTE: Insert \checkmark to indicate an inspection has been carried out and the result is Satisfactory, X to Unsatisfactory or N/A to indicate that the inspection is not applicable to a particular item.

ITEM	DESCRIPTION	OUTCOME
1	Presence and adequacy of earthing and protective bonding arrangements:	
	<ul style="list-style-type: none"> • Installation earth electrode where applicable (542.1.2.3) 	
	<ul style="list-style-type: none"> • Earthing conductor and connections, including accessibility (542.3; 543.3.2) 	
	<ul style="list-style-type: none"> • Main protective bonding conductors sizes and connections (544.1; 411.3.1.2) 	
2	Presence and adequacy of measures to provide basic protection within the installation:	
	<ul style="list-style-type: none"> • Insulation of live parts / Barriers or enclosures (416) 	
	<ul style="list-style-type: none"> • Obstacles and Placing out of reach (417) 	
3	Presence and effectiveness of additional protection methods:	
	<ul style="list-style-type: none"> • Supplementary bonding (415.2; Part 7) 	
4	Presence and effectiveness of methods which give both basic and fault protection:	
	<ul style="list-style-type: none"> • SELV¹ system, including the source and associated circuits (414) 	
	<ul style="list-style-type: none"> • PELV² system, including the source and associated circuits (414) 	
	<ul style="list-style-type: none"> • Double or reinforced insulation (412) 	
	<ul style="list-style-type: none"> • Electrical separation for one item of equipment (413) 	
5	Consumer Unit(S) / Distribution Board(S):	
	<ul style="list-style-type: none"> • Adequacy of access and working space for items of electrical equipment (132.12) 	
	<ul style="list-style-type: none"> • Presence of linked main switch and operation (537.1.4 ; 537.1.5 ; 537.1.6) 	
	<ul style="list-style-type: none"> • Manual operation of circuit breakers and residual current devices (612.13) 	
	<ul style="list-style-type: none"> • Isolators, for every circuit or group of circuits and all items of equipment (537.2) 	
	<ul style="list-style-type: none"> • Suitability of enclosure(s) for IP and fire ratings (416.2 ; 421.1.6) 	
	<ul style="list-style-type: none"> • Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.11) 	
	<ul style="list-style-type: none"> • All conductor connections are correctly located in terminals and are tight and secure (526.1) 	
	<ul style="list-style-type: none"> • Protection against electromagnetic effects (521.5) 	
	<ul style="list-style-type: none"> • Selection of correct type and ratings of circuit protective devices for over current and fault protection (411.3.2 ; 411.4, .5, .6 sections; 432 ; 433) 	
	<ul style="list-style-type: none"> • Presence of appropriate circuit charts, warning, instructions and necessary information 	
6	Final Circuits	
	<ul style="list-style-type: none"> • Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (523) 	
	<ul style="list-style-type: none"> • Cable installation methods suitable for the location(s) and external influences (Section 521,522) 	
	<ul style="list-style-type: none"> • Segregation/separation of Band I (ELV ³) and Band II (LV ⁴) circuits (528) 	



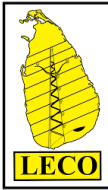
ITEM	DESCRIPTION	OUTCOME
	<ul style="list-style-type: none"> Provision of fire barriers, sealing arrangements where necessary (527.2) 	
	<ul style="list-style-type: none"> Adequacy of protective devices :type and rated current for fault protection (411.3) 	
	<ul style="list-style-type: none"> Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1) 	
	<ul style="list-style-type: none"> Conductors correctly identified by colour, lettering or numbering (514) 	
	<ul style="list-style-type: none"> Presence, adequacy and correct termination of protective conductors (411.3.1.1 ; 543.1) 	
	<ul style="list-style-type: none"> Cables and conductors correctly connected, enclosed with no undue mechanical strain (526) 	
	<ul style="list-style-type: none"> No basic insulation of a conductor visible outside enclosure (526.8) 	
	<ul style="list-style-type: none"> Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.2) 	
	<ul style="list-style-type: none"> Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2 ; 526) 	
7	Presence of appropriate devices for isolation and switching correctly located including:	
	<ul style="list-style-type: none"> Means of switching off for mechanical maintenance (537.3) 	
	<ul style="list-style-type: none"> Emergency switches (537.4) 	
	<ul style="list-style-type: none"> Functional switches, for control of parts of the installation and current-using equipment (537.5) 	
	<ul style="list-style-type: none"> Fire-fighter's switches (537.6) 	
8	Current-Using Equipment (Permanently Connected)	
	<ul style="list-style-type: none"> Equipment not damaged, securely fixed and suitable for external influences (134.1.1 ; 416.2; 512.2) 	
	<ul style="list-style-type: none"> Provision of overload and/or under voltage protection e.g. for rotating machines, if required (445, 552) 	
	<ul style="list-style-type: none"> Installed to minimize the build-up of heat and restrict the spread of fire (421.1.4 ; 559.4.1) 	
	<ul style="list-style-type: none"> Adequacy of working space. Accessibility to equipment (132.12 ; 513.1) 	
9	Part 7 Special Installations or Locations	
	<ul style="list-style-type: none"> List all other special installations or locations present, if any. (Record separately the results of particular inspections applied) 	
10	Parallel or Switched Alternative Sources of Supply	
	<ul style="list-style-type: none"> Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6) 	
	<ul style="list-style-type: none"> Adequate arrangements where a generating set operates in parallel with the public supply (551.7) 	

¹Separated Extra Low Voltage, ² Protective Extra Low Voltage, ³ Extra Low Voltage, ⁴Low Voltage

Inspected by:

Signature:

Date:



Lanka Electricity Company (Pvt.) Ltd.
E. H. Cooray building,
No 411,
Galle Road, Colombo 03

Electrical Installation Certificate
 Version 1.0

SCHEDULE OF TEST RESULTS

DB reference no :	Details of test instruments used (state serial and/or asset numbers)
Location :	Continuity :
Zs at DB (Ω) :	Insulation resistance :
I _{pf} at DB (kA) :	Earth fault loop impedance :
Correct supply polarity confirmed :	RCD :
Phase sequence confirmed (where appropriate) :	Earth electrode resistance :

Circuit Number	Overcurrent device				Conductor details			Continuity		Insulation resistance (M Ω)			Polarity	Earth Fault Loop Impedance Z _s (M Ω)	RCD Test					Remark	
	BS (EN)	Type	Rating (A)	Breaking Capacity (kA)	Reference Method	Live (mm ²)	CPC (mm ²)	R ₁ +R ₂ (ohms)	R ₂ (ohms)	Live - Neutral	Live - Earth	Neutral - Earth	Insert \checkmark or X		Sensitivity	Check for 0.5 I _f	Time to Trip for I _f (ms)	Time to Trip 5I _f (ms)	Push Button Test		

Inspected by:

Signature:

Date: