Reference Number:

SUPERVISION AND COMPLETION / TEST CERTIFICATE (LOW VOLTAGE ELECTRICAL WIRING) THE ELECTRICITY RULES, 1999 RULES 12 AND 13

PART 1: OWNER / MANAGEMENT OF INSTALLATION

Postcode:	
(Name & Address of owner / management of installation))	
PART 2: LOCATION AND DETAILS OF INSTALLATION	
Client :	
Address/ Lot No. of Installation :	
Postcode:	
Type of Installation:	stallation
PART 3: SCHEDULE OF DRAWINGS FOR SUPERVISION AND COMPLETION	
No Drawing Number Drawing Title 1. 2. 3. 4. 4.	9.
5.	
5. (Please use separate sheet(s) if insufficient space) PART 4: SUPERVISION AND COMPLETION	
(Please use separate sheet(s) if insufficient space) PART 4: SUPERVISION AND COMPLETION I, being the person responsible (as indicated by my signature below) for the supervision and completion of the electrical w above installation in Part 2, particulars of which are described in the Schedule of Drawings in Part 3, CERTIFY that the said which I have been responsible, is to the best of my knowledge and belief, in accordance with The Electricity Rules, 1999. The extent of liability of the signatory is limited to the electrical installation described above in Part 2 as the subject of this Certificate of Electrical Installation Contractor (EIC) Certificate :	l work for
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(Please use separate sheet(s) if insufficient space) * Delete whichever is not applicable

PART 6: SCHEDULE OF TEST RESULTS							
1.							
2.							
3.							
4.							
5.							

EIU/SUPV-TEST/1.0

(Please use separate sheet(s) if insufficient space)

PART 7: TEST

I, being the person responsible (as indicated by my signature below) for the testing of the installation at the above installation in Part 2, particulars of which are described in the Schedule of Drawings in Part 5 and Schedule of Test Results in Part 6 **CERTIFY** that the above installation which I have been responsible, is to the best of my knowledge and belief in accordance with The Electricity Rules, 1999, and that the above installation is ready and safe to receive energy from or be given energy by the licensee or supply authority, as the case may be. The extent of liability of the signatory is limited to the installation described above in Part 2 as the subject of this Certificate.

For the test of the installation:

Holder of Electrical Installation Contractor (EIC) Certificate		
	(name in BLOCK)	
For and on behalf of :		Company Chop:
	(name of Business)	
Address :		
	Destas la	
Certificate of Registration No:	_ Expiry Date:	
Signature of Holder:	Date:	_
PART 8: ACCEPTANCE TO SUPPLY		
The above installation in Part 2 is hereby accepted for supply of	f electrical energy.	
Signature:	Name :	
(Authorised by Licensee or supply authority to sign)		
On behalf of :	I	Date://
(Name of Licensee or supply authority)		dd mm yy

NOTES:

- 1. The Supervision and Completion part of this Certificate required by Rule 12 of The Electricity Rules, 1999, shall be made out and signed by the holder of the Electrical Installation Contractor (EIC) Certificate in respect of the supervision and completion of the electrical work.
- 2. The Testing part of this Certificate required by Rule 13 of The Electricity Rules, 1999, shall be made out and signed by the **holder of the Electrical Installation Contractor Certificate authorized to carry out testing** in respect of the test of the installation. The holder of the Electrical Installation Contractor carrying out the test may be the same person carrying out the supervision and completion of the installation.
- 3. This Certificate will indicate the responsibility for supervision and completion, and testing of the electrical work, whether in relation to a new installation or further work on an existing installation.
- 4. When making out and signing a certificate on behalf of a company or other business entity, an individual shall state for whom he is acting.
- 5. Additional certificates may be required as clarification for larger or complicated electrical work.
- 6. The signature(s) appended is (are) that of the person(s) authorized by the company executing the work of supervision and completion, and testing of the electrical work.
- 7. The page numbers of each sheet should be indicated together with the total number of the sheets involved.
- 8. Each drawing listed in the Schedule of Drawings for Supervision and Completion, and for Testing shall indicate clearly the name, signature and certificate number of the contractor or competent person preparing it in accordance with Rule 64 of The Electricity Rules, 1999.
- 9. The owner or management of the electrical installation shall submit this Certificate to the licensee or supply authority in Sarawak, as the case may be, in order to receive energy from the licensee or supply authority.
- 10. On receipt of the said Certificate, the licensee or supply authority shall henceforth supply energy as requested by the owner or management of the installation.
- 11. This Certificate shall be transferred to the new owner or management where there is change in ownership or management of the property.

SCHEDULE OF INSPECTION AND TESTING OF LV WIRINGS OF INSTALLATION

A) INSPECTION DURING SUPERVISION AND COMPLETION OF INSTALLATION

1)	Connection of conductors	9) Method of protection against	11) Presence of appropriate devices
2)	Identification of conductors	indirect contact	for isolation and switching
3)	Routing of cables in safe zones	Presence of protective conductors	12) Presence of undervoltage protective
	or within mechanical protection	Presence of earthing conductors	devices where appropriate
4)	Selection of conductors for		13) Choice and setting of protective and monitoring services (for
	current and voltage drop	Presence of main equipotential bonding conductors	protection against indirect contact
5)	Connection of single pole devices	Earthing arrangements for	and/or against overcurrent)
	for protection or switching in phase conductors only	combined protective and	14) Labelling of fuses, switches and
6)	Correct connection of socket	functional earths	terminals
6)	outlets and lamp holders	Presence of main equipotential	15) Selection of equipment and
7)	Presence of barriers and	bonding conductors	protective measures appropriate to external influences
	protection against thermal effects	Use of Class II equipment or	16) Adequacy of access to switchgear
	ethod of protection against direct	equivalent insulation	and equipment
co	ntact	Non conducting location	17) Presence of danger notices and
	Insulation of live parts	Earth free local equipotential bonding	other warning notices
	Barrier or enclosure	Electrical separation	18) Presence of diagrams instructions
	Placing out of reach	10) Prevention of mutual detrimental	and necessary information
	Obstacles	influence	19) Erection methods
V	To indicate satisfaction with inspection	l	
Obs	ervation and Recommendations durin	g inspection:	
••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
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Sign	ature :		_ Company Chop:
-	ler of EIC Certificate :		•
Date	• • • • • • • • • • • • • • • • • • •		
		SCHEDILLE	
	TESTING – NOTES ON TEST RESULT		
B) 1 6	TESTING – NOTES ON TEST RESULT Type of supply system is ascertained from the su Prospective short circuit current is the greater of	apply authority or by inspection. the short-circuit current and earth fault current.	
B) 1 6 7	TESTING – NOTES ON TEST RESULT Type of supply system is ascertained from the su Prospective short circuit current is the greater of Ze, the external impedance measured at the origi	apply authority or by inspection.	
B) 1 6 7 13	TESTING – NOTES ON TEST RESULT Type of supply system is ascertained from the su Prospective short circuit current is the greater of	upply authority or by inspection. the short-circuit current and earth fault current. in of the installation with the main bonding disconnected.	
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tripping time shall be within 40ms tested at five times the rated tripping current (150 mÅ). 32 Earth electrode resistance

The earth electrode resistance of the installation must be measured and the value recorded.

TEST RESULT SCHEDULE

2. Nominal Voltage of Installation: _____ Volts

Remarks

34

Postcode:				4. Sub-mains Earthing Conductor :									n	nm ²					
				Overcurrent Devices			Wiring										Te	est Resu	lts
Circuit / Device No. (Indicate on the drawings the circuit/device no.) Remarks on workmanship, use of approved materials / Devices	ship, ials /				7				Continuity			Insulation Resistance for Circuits (MΩ)						$^{\circ}, Z_{s}$	
	No. of outlets / points	Type	Rating (A)	Breaking Capacity (kA)	Installation methods	Size (mm ²)	CPC (mm ²)	$R_1 + R_2 \ (\Omega)$	R_2 (Ω)	Ring Final Circuit	RYBN – E/ LN - E	RYBE – N / LE - N	$\mathbf{R} - \mathbf{Y}$	Y - B	B - R	Polarity Test	Earth Loop Impedance , Zs $(\Omega)-Typically {<}100\Omega$	F .	
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	L

(Please use separate sheet(s) if insufficient space)

Address / Lot No. of Installation:

Signature of Holder

Holder of Electrical Installation Contractor Certificate

1. Type of Supply System: TT / Others _____

5. Main Bonding check : Yes / No * , Size: _____ mm^2

Resistance

Earth Electrode 1 (Ω)

32

Phase Sequence Test

33

6. Prospective Short Circuit Current: _____ kA

Supple-

mentary RCD

5 x rated tripping current (Trip within 40 ms)

31

7. Ze at origin : _____ Ω (ohms)

Main RCD

100 % (trip within 200 ms)

28

50% trip current (no tripping for >2 s)

27

Trip

Time

(ms)

At 0 ^O

29

At 180 ⁰

30

Company chop: