

RECORD OF RCCB TEST

A. PARTICULARS OF THE INSTALLATION [Please tick ($$) the relevant boxes and enter details as appropriate]																	
Project	Name																
Drawin Addres	g No./Installation s																
Block N	No./Floor																
DB Designation				Sir	ngle pl	hase	Phas	se:	R	'	Y	В		3 phas	e		
B. TEST INSTRUMENT USED																	
Instrument Brand			l	Model No.				Serial No.			Calibration Date						
RCCB Tester																	
C. PA	RTICULARS OF 1	RCCB (P	lease [\] th	e releva	nt hor												
Rated Current (In)					<i>u 00л)</i>	Brand						Model No.					
40A DP 63A DP																	
D. TEST RESULTS (<i>Please X where not applicable. Please refer to Page 2 for notes and test procedures</i>)																	
Circuit Number And Phase																	
Circuit Reference																	
Mark S for Socket and L for Lighting. Others (specify)																	
RCCB Rated Tripping Current IAn (mA)																	
TEST				TP	X	X	X	X	X	Х	Х	X	Х	Х	X	Х	
RCCB Test Button																	
(Mark T for Trip & NT for No Trip)			(i)														
¹ / ₂ I Trip (Mark T for Trip & NT for No Trip)			(ii)														
RCCB Trip Time at	I Trip at 0 ⁰	(ms)		(iii)													
	I Trip at 180 ⁰	(ms)		(iii)													
	5I Trip at 0 ⁰	(ms) (if a	pplicable)	(iv)													
	5I Trip at 180 ⁰	(ms) (if a	pplicable)	(iv)													
RCCB Test Button																	
(after completion of the above tests) (Mark T for Trip and NT for No Trip)			(v)														
RCCB	RCCB Trip Current Test (Ramp Test) (mA) (vi)																
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E. COMMENTS BY JKR (IF ANY) AND DEPARTURES FROM SPECIFICATION & REGULATIONS

F. PENGAKUAN C (BAGI PIHAK K	DRANG KOMPETEN KONTRAKTOR ELEKTRIK)	G. PENGESAHAN JABATAN							
Diuji Oleh	:	Disaksi Oleh	:						
	(Nama Pendawai)		(Nama)						
Tandatangan	:	Tandatangan	:						
No. Kekompetenan	:	Jawatan	:						
Tarikh Ujian	:	Tarikh	:						
Nama & Cop Kontraktor	:								



(Notes & Test Procedure, TP)

A. <u>NOTES</u>

- 1. This Test Form is for RCCB, without time-delayed operation to IEC 61008.
- 2. This Test Form is to be used for testing a two (2) POLE-RCCBs and NOT applicable for four (4) POLE RCCBs.
- Where is the circuit should the RCCB be tested? The tests can be carried out immediately on the load side of the RCCB **BUT** it is preferred at the extremity of the protected circuit (last point)
- 4. The RCCB should be tested with the load switch off or the load disconnected from the circuit.

B. TEST PROCEDURE (TP)

(i) <u>RCCB Test Button</u>

The RCCB should be operated first by the test button to check that the RCCB is not faulty before tests on the installation are made.

The test button does not test the circuit, protective conductors or any earthing conductors or earth. The test button is to ensure that the electrical and mechanical elements of the RCCB are functioning.

(ii) <u>1/2 I Test (Non-Trip Test)</u>:

A test at 1/2 (50%) of the rated tripping current of the RCCB for a period of two (2) seconds.

This acts as a **'no trip'** test and the RCCB must **not trip**. This is intended to verify that the RCCB is not subject to tripping when spurious 'nuisance' current appear in the circuit being protected.

(iii) <u>I Test (Trip Test)</u>:

A Test at 100% of rated tripping current of the RCCB.

This act as a 'trip' test and the RCCB must break the circuit within 300ms.

The choice of polarity, 0° and 180° enables the trip time to be measured accurately, as some RCCBs performs differently if the current occurs at the beginning of a positive (0°) or a negative (180°)cycle.

(iv) <u>5I Trip Test (Trip Test):</u>

This test mainly for RCCBs rated at not more than **30mA** (ie. 30mA & 10mA). The RCCB must break the circuit within **40ms** at a residual current of 51 Δ n. The choice of polarity, 0⁰ and 180⁰ enables the trip to be measured accurately, as some RCCBs performs differently if the current occurs at the beginning of a positive (0⁰) or a negative (180⁰) cycle.

(v) <u>RCCB Test Button</u>

Having completed the test, the effectiveness of the test button on the RCCB should **again** be checked to ensure that everything is satisfactory.

(vi) <u>RCCB Ramp Test</u>

This test is to measure the trip current of an RCCB. Current level is slowly increase from half the rated tripping current ($0.5 \times I\Delta n$) of the RCCB. When the RCCB trips, the actual trip current (in milliamps) displayed. Very useful diagnosing nuisance tripping of RCCB. RCCBs complying with IEC 61008 may operate within the range of 0.5 to 1.0 x rated tripping current of the RCCB. If the RCCB trips less than 0.5 x rated tripping current, replace the RCCB.