CAWANGAN KEJURUTERAAN ELEKTRIK
JKR MALAYSIA

FORM NO : JKR.RCCB
Sheet ☐ of ☐

Record of RCCB Test

(For general purpose non-delayed type RCCB to IEC 1008)

A. PARTICULARS OF THE INSTALLATION *[Please tick (√) the relevant boxes]*					
Project Name					
Drawing No./Installation Address					
Block No./Floor					
DB Designation		☐ Single phase	Phase: ☐ R ☐ Y ☐ B	☐ 3 phase	

B. TEST INSTRUMENT USED				
Instrument	Brand	Model No.	Serial No.	Calibration Date
RCCB Tester				

C. PARTICULARS OF THE RCCB *(Please [√] the relevant box)*					
Rated Current (In)				Brand	Model No.
☐ 40A DP	☐ 40A 4P	☐ 63 A DP	☐ 63 A 4P		

D. TEST RESULTS *(PLEASE X WHERE NOT APPLICABLE. PLEASE REFER TO PAGE 2 FOR TEST PROCEDURE)*

Circuit No.				1	2	3	4	5	6	7	8	9	10	11	12
Circuit Reference Mark **S** for Socket and **L** for Lighting. Others (specify)															
Number of Points															
RCCB Rated Tripping Current (mA)															
TEST			Note	x	x	x	x	x	x	x	x	x	x	x	x
	RCCB Test Button (Mark **T** for Trip & **NT** for No Trip)		(i)												
	½ I Trip (Mark **T** for Trip & **NT** for No Trip)		(ii)												
RCCB	**I** Trip at 0^0	(ms)	(iii)												
Trip	**I** Trip at 180^0	(ms)	(iii)												
Time	**5I** Trip at 0^0	(ms) (if applicable)	(iv)												
at	**5I** Trip at 180^0	(ms) (if applicable)	(iv)												
RCCB Test Button (after completion of the above tests) (Mark **T** for Trip and **NT** for No Trip)			(v)												
RCCB Trip Current Test	(RAMP Test)	(mA)	(vi)												

E. COMMENTS BY JKR (IF ANY) AND DEPARTURES FROM SPECIFICATION & REGULATIONS

F. PENGAKUAN ORANG KOMPETEN **(BAGI PIHAK KONTRAKTOR ELEKTRIK)**	**G. PENGESAHAN JABATAN**
Diuji oleh:	Disaksi oleh: .....
(Nama Pendawai)	(Nama)
Tandatangan:	Tandatangan: .....
No. Kekompetenan:	Jawatan: .....
Tarikh Ujian:	Tarikh: .....
Nama & Cop Kontraktor:	

mri/ra/wan/johor/MAC2008

Record of RCCB Test

(For general purpose non-delayed type RCCB to IEC 1008)

Note:

(i) **RCCB Test Button**

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) **½ I Test**:

A test at ½ (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) **I Test**:

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

This act as a **'trip'** test and the RCCB must break t he circuit within **300ms.**

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

(iv) **5I Trip Test**.

This test mainly for RCCBs rated at not more than **30mA** (ie. 30mA & 10mA). The RCCB must break the circuit within **40ms**. The choice of polarity, 0^0 and 180^0 enables the trip to be measured accurately, as some RCCBs performs differently if the current occurs at the beginning of a positive (0^0) or a negative (180^0) cycle.

(v) **RCCB Test Button**

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

vi) **RCCB Ramp Test**

This test is to measure the trip current of an RCCB. Current level is slowly increase from half the rated tripping current (0.5 x IΔn) 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 1008 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.

---

mri/ra/wan/johor/MAC2008