

Record of Lightning Protection System (LPS) Test

A. PARTICULARS C	F THE INST	ALLATION									
Project Name / Clier	nt										
Installation Address											
Block / Building No.											
Instrument			Brand		Model No.		Serial No.			Calibration Date	
Earth Tester											
Continuity Tester											
C. DETAILS OF LIG	HTNING PI	OTECTIO	N SYSTEM	(Please tick	(√) the	relevan	it box)				
Lightning Protection System Type			Faraday Cage / Franklin Rod			Early Streamer Emis			mission (ESE)		Others :
Total No of down conductors:			Total No of Earthing points :						Earth Rod Size :		
Type of earth termination network			earth electrodes NOT connected to each o			ach other ther to form a ring			☐crows foot' ☐others (please state)		
Rod to tape connec	Rod to tape connection			CADWELD Clamp							
D. TESTS (please √ (please X b) Continuity of air term Continuity of air term	boxes to in oxes to ind nination ne	dicate insp icate inspe twork (roof twork and	pection has ection has l terminatio the down o	s been carrie been carriec n network) conductors	ed out a 1 out and	nd the re d the res	esult is s sult is un	atisfac satisfa	tory) ctory) - 🗆		
Continuity of down conductors and earth electrodes											
E. REMARKS (If Any	<i>י</i>)										
			TANCE			л г		FRAIL	OTAL RESISTA	NCE	
Earth Electrode	Earth (with remain			ce of one rod in isolation ing earth disconnected) (ohms) Average Value			Combi	ned Ec	Earth Resistance Of The Whole Earth Termination Network (bonding not included) (ohms)		
No.	Test 1 (R1)	Test 2 (R2)	Test 3 (R3)	RA=(R1+R2	2+R3)/3	┥┝			Please Refer	to Notes (5 & 6 on Page 2
2						-					
3											
4											
									T ANI		
H. PENGAKUAN ORANG KOMPETEN (BAGI PIHAK KONTRAKTOR ELEKTRIK)						I. PENGESARAN JADATAN					
						Disaksi	Oleh.				
Tandatangan	ma Pendawai)			Tandatangan:			(Nan	na)			
No. Kekompetenan:						Jawato	Jawatan:				
l Tarikh Ujian:						Tarikh:					

Nama & Cop Kontraktor:

Notes On Resistance	ce To Earth	(Ref: BS 6651	:1992)						
1	An earth electrode should be connected to each down conductor								
2	Each of these earths should have a resistance (in ohms) not exceeding the product given								
	by 10 times the number of earth electrodes to be provided.								
3	The whole of the earth termination network should have a combined resistance to earth								
	not exceeding 10 ohms without taking account of any bonding to other services.								
4	4 A resistance value lower than 10 ohms will help reduce the potential gradient								
	(Touch and Step) around the earth electrodes under discharge conditions.								
5	The test joint allows for the earthing system to be tested in isolation from the rest of the LPS.								
6	For earth electrodes connected in parallel, the overall total resistance is proportional to								
	the reciprocal of the number of earth electrodes and can be calculated by applying								
	the rule for resistors in parallel.								
	(Example for 4 earth electrodes in parallel								
		RT =	RA1 RA2 RA3 RA4						
		-	RA2 RA3 RA4 + RA1 RA3 RA4 + RA1 RA2 RA4 + RA1 RA2 RA3						
	Where	RT is the ov	verall total resistance						
		RA1 is the o	average resistance for earth electrode No. 1						
		RA2 is the o	average resistance for earth electrode No. 2						
		RA3 is the o	average resistance for earth electrode No. 3						
		RA4 is the o	average resistance for earth electrode No. 4						

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