

LIGHTNING PROTECTION CHECKLIST

Cholamandalam MS Risk Services Ltd., Chennai, INDIA

Sl. No.	LP Check Point	Comments
1.	Name of structure / building /block	
2.	To-scale plan and elevation drawing of the block / structure / building	
3.	Dimensions of the block / structure / building (for a complex structure, make a small sketch & mark the dimensions)	
4.	Type of construction (Roof, walls, metal chimney-continuity issues)	
5.	Names of chemicals stored / Processed (flammability, corrosion aspects)	
6.	Material of air terminal	
7.	Material of down conductor	
8.	Physical condition of air terminal	
9.	Physical condition of down conductor	
10.	Condition and Number of earth connections	
11.	Diameter & storage capacity of tanks (if applicable)	
12.	Type of storage tank (fixed roof / fixed-cum floating, floating)	
13.	Routing of down conductor (side flash issues)	
14.	Presence of test link	
15.	One test link for each down conductor?	
16.	Equipment / vessel/ structure earthing details	
17.	Height of the air terminal from the ground	
18.	Surge protection (field instrumentation, DCS I/O racks, IT room, tele-communication equipment, etc.)	
19.	Location of air terminal (mark on the plan / elevation drawing)	
20.	Open areas -details	
21.	Present lightning protection maintenance details	
22.	Details of lightning / surge accidents	
LP RISK ASSESSMENT FACTORS (IS 2309/ BS 6651)		
23.	Use of structure	
24.	Type of construction	
25.	Contents or consequential effects	
26.	Degree of Isolation	
27.	Type of country	
28.	Number of thunderstorm days	
29.	Dimensions of the structure (LxWxH)	
30.	Type of roof (flat, ridge, etc.)	
31.	Overall multiplying factor	
32.	Overall risk factor	
33.	Lightning Protection requirement	

