

CHECKLIST FOR PERIODIC INSPECTION OF AERIAL PASSENGER ROPEWAYS			
Type of Inspection - Quarterly/Half Yearly/Yearly (please tick)			
A	General Description		
1	Name of Aerial Ropeway		
2	Location		
3	Name of Promoter		
4	Year of Installation		
5	Type of Ropeway		
6	Span		
7	No. of Cabins		
8	Capacity of each Cabin		
B	Inspection of Records/Logbooks/Maintenance Register		
S. No.	Description	Status Checked	Remarks
1	Daily Log Sheet		
2	Daily Maintenance Log Book		
3	Weekly Maintenance Sheet		
4	Two Weekly Maintenance Sheet		
5	Quarterly Maintenance Sheet		
6	Half Yearly Maintenance Sheet		
7	NDT Test Report, USR/MPE, test reports of critical components (half yearly) from NABL approved lab		
8	Electrical / Electronic/D.G set/Rescue engine test Report		
9	Annual NDT testing of Haulage Rope from CSIR/CIMFR Dhanbad		

10	Annual NDT testing of Track Rope from CSIR/CIMFR Dhanbad		
11	Status of passenger insurance etc.		
C: Technical Inspection (Mechanical)			
S. No.	Description	YES/NO/NA	Remarks
1	Is daily maintenance register maintained properly?		
2	Is cleanliness maintained at LTP/UTP?		
3	Is NDT for haulage rope due?		
4	If answer to (3) above is yes then has NDT conducted?		
5	Is NDT for track rope due?		
6	If answer to (5) above is yes then has NDT conducted?		
7	Is haulage rope safe for operation as per NDT?		
8	Is track rope safe for operation as per NDT?		
9	Is the main drive system checked?		
10	Is the main drive system working smoothly?		
11	Is NDT test for vital components of drive system such as main drive sheave, shaft, couplings etc due?		
12	If answer to (11) above is yes then has NDT conducted?		
13	If answer to (12) above is yes then Is the results of NDT for drive system satisfactory?		
14	Is the reduction gear system checked?		

15	Is any leakage of oil noticed from any part of the drive system/gears?		
16	Is rescue/backup engine provided?		
17	Is rescue/backup engine started and ropeway operated by rescue/backup engine?		
18	Are civil/steel structures at LTP/UTP and intermediate towers checked?		
19	Is NDT for civil structures/towers conducted?		
20	If answer to (19) above is yes Is the result satisfactory?		
21	Is service brake checked?		
22	If answer to (21) above is yes Is the brake working properly?		
23	Is emergency brake checked?		
24	If answer to (23) above is yes Is the emergency brake working properly?		
25	Is live rescue operation conducted by the staff of the ropeway?		
26	If answer to (25) above is yes then Is the rescue operation smooth and quick?		
27	Is any joint mock exercise conducted with the NDRF/Police and Administration?		
28	Is counter weight/tensioning system checked?		
29	Are the sheaves of cabin hangers checked?		

30	Is cabin grip system checked?		
31	Is mechanical system/return wheel sheave and shafts checked?		
32	Is locking system of the cabin checked?		
33	Are haulage/track ropes visually checked at LTP and UTP for any abnormal wear and tear?		
34	Are any cracks/damage noticed in any Civil/RCC structures at LTP/UTP or intermediate towers?		
35	Is testing of Electrical/Electronic components due?		
36	If answer to (35) above is yes then Is the testing of the same conducted?		
37	Is main DC motor checked for smooth operation?		
38	Is earthing of all the electrical components systems checked?		
39	Are lightening arresters properly installed?		
40	Is proper insulation provided on all the wiring systems?		
41	Is the operator's room/cabin clean and well maintained?		
42	Is speed and other parameters observed in the control panel/console?		
43	Is rate list displayed in the LTP/UTP ?		
44	Are mobile numbers of operator/in-charge Ropeway displayed in all the cabins?		

45	Is mobile number of Inspector Ropeways displayed at LTP/UTP?		
46	Are inspection certificates displayed at LTP/UTP?		
47	Are inspection certificates displayed in each cabin?		
48	Are all the staff of the ropeway in the proper dress/badges?		
49	Is any communication system provided in the cabins?		
50	Are marking balloons/flags provided along the line/on the towers of the ropeway?		
51	Are fire extinguishers installed ?		
52	Is enough staff deployed at LTP/UTP?		
53	Is any public address system provided?		
54	Is overall maintenance of the ropeway satisfactory?		
55	Any other items, if any, may be checked which are not included in the checklist?		

Members of Ropeway Expert Committee

Inspector Ropeway-cum-
Executive Engineer
Mechanical Division HPPWD.....

Chairman Expert Committee (Ropeways)
Cum- Superintending Engineer
Mechanical circle HPPWD.....

Schedule of Tests of various components of Aerial Ropeway							
Sr. No.	Description of Item to be tested	Name of Test	Frequency recommended	Date of previous Test Conducted	Next date of test due	Agency	Results
1	Haulage Rope						
2	Track Rope						
3	Tensioning Rope/System						
4	Drive System (Shaft/Wheels)						
5	Civil Structures						
6	Electrical components						

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