

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
SOUTHERN ZONE, CHENNAI**

O.A. NO. 51 OF 2020 (SZ)

Tribunal on its own motion
Suo Motu based on the news item published in
Dinamalar Newspaper dt. 27.02.2020, Chennai
supplementary, "Elephant Indian Wil Boar
dies of electrocution".

... Applicant

Versus

The Secretary to Government of Tamil Nadu
Department of Forest,
Chennai and Others

... Respondents

AFFIDAVIT FILED ON BEHALF OF TANGEDCO/NEDC/Ooty



M/s. ABDUL SALEEM

S.SARAVANAN

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AFFIDAVIT

I, Er. Vasunair Premkumar, aged 58 years, Son of C.Vasunair,
having address at Nilgiris Elecy.Distrn.Circle, Udthagamandalam, do
hereby solemnly affirm and state as follows :-

1. I humbly submit that I am the Superintending Engineer of TANGEDCO/NEDC/Ooty and as such, I am well acquainted with the facts of the case from the available records and I am competent to swear this affidavit on behalf of TANGEDCO/NEDC/Ooty
2. I submit that this Hon'ble Tribunal has taken up the present matter suo motu based on the report "Elephant, Indian Wild Board dies of Electrocutation".
3. I submit that the Hon'ble Tribunal vide its order dated 13.12.2021 directed this Respondent to file "*Methodology now available to avoid such incidents and effectiveness of such methodology and what is the nature of improvements required for that purpose*".


Superintending Engineer
Nilgiris Electricity District Circle
TANGEDCO
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4. I submit that pursuant to the above direction of this Hon'ble Tribunal, the following reports is hereby submitted for consideration of this Hon'ble Tribunal:

i. The fatal accident occurred to the elephant due to the Double pole (DP) Structure under which the carcass of the animals was found, had been moved by almost a distance of 152mm, which clearly indicates that the elephant would have pushed the structure with enormous strength due to which the jumper connection between two ends of a phase had stepped out of the pin insulator. Hence the accident was not manmade but purely an act of nature.

ii. The subject line was laid during the year 1932, since then no such incident has happened in the said division and this was the first incident since 1932, which was purely by the act of an animal.

iii. The stepped out jumper from the pin insulator did not touch the double pole structure and induction might have been the reason for the fatal accident and to avoid these type of accidents in future, the existing Electro mechanical Relay (Relay: Which senses the fault and isolates the supply from main lines by operating Vacuum Circuit breaker) have been replaced with Numerical relay with the following details :

Relay : Numerical relay

Make : VMC

**Type : Directional / Non Directional over current
and Earth fault relay**

Model :VN 200 R

Serial NO: 019-11260

M. S. S. S.
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iv. The advantages and comparison over electro mechanical relay is given below :

s.no	Feature	Numerical relays	Electromechanical relays
1.	Speed of response	Fast	Slow
2.	Sensitivity towards fault	More sensitive	Less as compared to numerical relay
2.	Consistency of calibration	No effect on calibration even after use of 20-25 years	Deteriorate with time
3.	Accuracy	$\pm 2\%$	$\pm 5\%$ or more
4.	Size	Small	Bulky
5.	Operating principle	Microprocessor within built software	Electromagnetic principle
6.	Relay programming	Programmable	No
7.	Communication feature	Available	Not Available
8.	Range of settings	Can be changed widely since software based settings	Limited since manually through plug setting in fix steps only
9.	Memory feature	Several memory features are available	No memory features are available
10.	Self-monitoring	YES	NO
11.	Maintenance requirement	Low	Frequently
12.	Visual indication	LEDs, LCDs	Flags, targets

[Signature]
 Assistant Engineer
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13.	Fault Measuring elements	Microprocessor within built software with pre-defined values	Induction discs, electro magnets
14	Effect of gravity	No effect of gravity on operation of numerical relay	Gravitational force can affect the relay
15	Moving contacts	No moving parts so no problem of arcing	Moving contacts are present so problems like arcing and replacement of contacts is necessary

v. By considering the above points in future even a minor leakage current due to induction faults, the numerical relay will sense the fault and trip the vacuum circuit breaker to cut off the supply immediately to save lives and under no circumstances will it be fatal even if the accident is due to an act of an animal.

vi. The construction of concrete pillar around the pole is not feasible and advisable, since the subject area is a reserved forest and the said construction will affect the environment badly. Hence, this Respondent has already implemented the above method to avoid any untoward incident in future.

5. It is submitted that Joint inspections by Forest Officials and TNEB Officials are being conducted regularly in Gudalur division and following locations were cleared to avoid accidents in future:

Signature of J. J. Engineer
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JOINT INSPECTION CARRIED OUT BY THE FOREST OFFICIALS AND TNEB OFFICIALS. THE FOLLOWING LOCATIONS WERE IDENTIFIED AS LOW CLEARANCE /LOW SAG AND THE RECTIFICATION WORK CARRIED OUT BY TANGEDCO AS FOLLOWS.

SI No.	LOCATIONS NOT IDENTIFIED	Section	Present Stage	Nature of Work	If low clearance No. Of Pole inserted
1	Puliyamvayal Road	Town South Gudalur	Work Completed	LT line converted to HT/LT line with the support of 30 ft RSJ pole	4 Span
2	Near thangaraj house, Kolloor	Town South Gudalur	Work Completed	Resagging of LT line	2 Span
3	Kappikadu Road	Town South Gudalur	Work Completed	LT line converted to HT/LT line with the support of 30 ft RSJ pole	3 Span
4	Road towards manoharan's house	Lower Gudalur	Work Completed	Resagging of LT line	2 Span
5	Devershola estate	Devershola	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
6	Nayakkan kolly forest land SF No. 477/19		Not Identified		
7	Manoharan's land, Padanthorai	Lower Gudalur	Work Completed	Resagging of LT line	2 Span
8	Near Veleyudan's house, Forest land SF No 402/1 Mundakolly	Lower Gudalur	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
9	Marapalam Kunnu, Kappikadu	Town South Gudalur	Work Completed	Resagging of LT line	2 Span
10	Shanmuhachettiyar, Karugappally	Lower Gudalur	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)

Superintending Engineer
 Nilgiris Electricity Distbn. Circle
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11	Kozhipalam Collage	Town South Gudalur	Work Completed	Low Clearance Pole inserted	1 No 30 ft RSJ pole
12	Visalakshi Estate	Town South Gudalur	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
13	Moolappally, Kappikadu	Lower Gudalur	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
14	Kunilvayal	Lower Gudalur	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
15	Eachamvayal Road Side	Lower Gudalur	Work Completed	Resagging of LT line	2 Span
16	Near Govt. School Devon I	Devershola	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
17	Labour lines Devon I	Devershola	Work Completed	Resagging of LT line	2 Span
18	Tharippakolly Field area (Doctor Kadu)	Lower Gudalur	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
19	Nandakumar Estate	Devershola	Work Completed	Temporary line dismantled	1 Span
20	Nellikunnu Field area	Devershola	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
21	Oundale 19 th padi	Devershola	Work Completed	Resagging of LT line	2 Span
22	Holu Cross School Devershola	Devershola	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
23	Allolla Estate	Town Gudalur	Work Completed	Resagging of LT line	3 Span
24	Forest Quarters Eettimoola	Town South Gudalur	Work Completed	Low Clearance Pole inserted	2 pole PSC (8 Meter)
25	Kannambally (Opp School Ground)	Cherambady	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
26	The Mathan's land, kannambally	Cherambady	Work Completed	Low Clearance Pole inserted	1 pole

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27	Madansamy Kovil to Nayakkancholy road(Wentworth estate land)	Cherambady	Work Completed	Low Clearance Pole inserted	1 pole
28	Opp. Stephens's House, Koranchal	Cherambady	Work Completed	Resagging of LT line	3 Span
29	Opp. Ramay's House Koranchal	Cherambady	Work Completed	Resagging of LT line	1 Span
30	Kali Kovil area (TANTEA)	Ayyankolly	Work Completed	Resagging of LT line	2 Span
31	Kavayal Area (TANTEA)	Ayyankolly	Work Completed	Resagging of LT line	1 Span
32	No. I Shead area (TANTEA)	Ayyankolly	Work Completed	Resagging of LT line	2 Span
33	Ayyappan kovil Road Side	Cherambady	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
34	10 th line TANTEA	Cherambady	Work Completed	Low Clearance Pole inserted	1 pole
35	Padacheri Nursery Road side	Pandalur	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
36	Padacheri bridge	Pandalur	Work Completed	Resagging of LT line	3 Span
37	Near Velankanni Chrch Side, Cherangodu	Pandalur	Work Completed	Resagging of LT line	3 Span
38	Chappanthodu area	Ayyankolly	Work Completed	Resagging of LT line	4 Span
39	Adivasi Colony Road Sice, Chappanthodu	Ayyankolly	Work Completed	Resagging of LT line	3 Span
40	Chappanthodu I	Ayyankolly	Work Completed	Resagging of LT line	4 Span
41	Chappanthodu II	Ayyankolly	Work Completed	Resagging of LT line	4Span
42	Punchakolly Bridge I	Ayyankolly	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
43	Elamanna I	Ayyankolly	Work Completed	Low Clearance Pole	1 pole PSC (8)

44	Elamanna II	Ayyankolly	Work Completed	Resagging of LT line	1 Span
45	Mazhavan Cherambady	Ayyankolly	Work Completed	Resagging of LT line	1 Span
46	Punchakolly area	Ayyankolly	Work Completed	Low Clearance Pole inserted	2 Nos PSC (8 Meter)
47	Chembakakolly area I road side	Ayyankolly	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
48	Chembakakolly area II road side	Ayyankolly	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
49	Punchakolly Bridge II Kolappally Road	Ayyankolly	Work Completed	LT line converted to HT/LT line with the support of 30 ft RSJ pole	2 Span
50	Check Post Opp Vazhathottam	Masinagudi Section	Work Completed	Low Clearance Pole inserted	2 Nos PSC (8 Meter)
51	Chokkanally Kizhe Kovil I	Masinagudi Section	Work Completed	Low Clearance Pole inserted	2 Nos PSC (8 Meter)
52	Chokkanally Mel Kovil	Masinagudi Section	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
53	Bearmountain Bokkapuram	Masinagudi Section	Work Completed	Low Clearance Pole inserted	3 Nos PSC (8 Meter)
54	Anaikatty 4 Road Junction	Masinagudi Section	Not Identified		
55	Nallan Thottam	Masinagudi Section	Work Completed	Low Clearance Pole inserted	4 Nos PSC(8 meter)
56	Nickara Nilgiris	Masinagudi Section	Work Completed	Low Clearance Pole inserted	2 Nos PSC (8 Meter)
57	Bearmountain Back side	Masinagudi Section	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
58	Bearmountain land	Masinagudi Section	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
59	Bamboo banks Achakarai	Masinagudi Section	Work Completed	Resagging of LT line/ Low Clearance Pole inserted	1 Span 1 Pole (8 Meter)
60	Achakarai Road	Masinagudi Section	Work Completed	Resagging of LT line	2 Span

Superintending Engineer
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61	Tiger paw Achakarai	Masinagud i Section	Work Completed	Low Clearance Pole inserted/Resagging of LT line	2 Nos PSC(8Meter)/ 2 Span
62	Kurumparpadi Achakarai	Masinagud i Section	Work Completed	Resagging of LT line	2 Span
63	Wild wood Heaven, Achakarai	Masinagud i Section	Work Completed	Pole inserted	2 Nos PSC (8 Meter)
64	Makaliamma Temple Singara	Masinagud i Section	Work Completed	Resagging of LT line	3 Span
65	Near Makaliamma Temple Singara	Masinagud i Section	Work Completed	Resagging of LT line	3 Span
66	Vijayakumar Naidu Northern Hay Estate	Masinagud i Section	Work Completed	Low Clearance Pole inserted	1 pole PSC (8 Meter)
67	Chokkanally Kizhe Kovil II	Masinagud i Section	Work Completed	Low Clearance Pole inserted	2 Nos PSC (8 Meter)

TOTAL IDENTIFIED LOCATIONS	67 LOCATION
WORK COMPLETED LOCATIONS	67 LOCATION
LOCATIONS NOT IDENTIFIED	2 LOCATIONS

6. It is submitted that this Respondent is taking earnest steps to protect the wild animals and will abide by any directions of this Hon'ble Tribunal.

Under the above circumstances, it is respectfully prayed that this Hon'ble Tribunal may be pleased to take this affidavit on record and close the application and pass such orders as it deems fit and thus render justice.

Solemnly affirmed at Nilgiris

On this 23rd day of December 2021

And put his signature in my presence

M. SANTHOSHANVAR I.C. No. 11.B.,
NOTARY PUBLIC

G.O. MS. No. 310/18/dt. 22.11.18

Udhagamandalam, The Nilgiris.

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Superintending Engineer
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Before Me