

INSPECTION REPORT

Asset ID: POWERLINES

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1. Introduction

Birdseye Asset Solutions Pvt Ltd, a company incorporated in August 2019, provides drone-based Inspections for asset monitoring in large manufacturing industries and for complex processes. The founders of the company have in-depth technical expertise in Non-Destructive Evaluation and the support team comprises highly qualified industry professionals to young motivated engineers from premier institutes.

Within a short period, Birdseye Asset Solutions Pvt Ltd has become a pioneer in the field of External and Internal inspections. Birdseye Asset Solutions Pvt Ltd has equipped itself with DJI Mavic 3T, the most advanced and technically superior external drone for its airborne visual and thermal inspection.

2. Executive Summary

XXXXX contracted Birdseye Asset Solutions Pvt Ltd for Drone-based Inspection of their assets for the external Condition

Based on the visual and thermal inspection of the Powerlines external condition, no major physical damage was observed on the external portion.

In lieu of the above observation, detailed recommendations have been provided which can be found in the later sections of the report.

The time duration taken for the flight visual and thermal inspection was one day and handled by two engineers from Birdseye Asset Solutions Pvt Ltd, with guidance from xxx Engineers. All site safety regulations were complied with, and relevant SOPs and checklists were followed during the inspection.

JOB SUMMARY

Customer	XXXX		
Location	XXXX		
Name of Work	Visual & Thermal Inspection		
Document Number	xxx-xxx-002	Asset Name	Powerline
Inspection Date	XXXX	Weather	Haze
Inspection Time	Day Time	Ambient Temperature	27° C
Inspection Type	Visual & Thermal Inspection	Equipment Used	Mavic 3 Thermal
Prepared By	Muthukumar U		

OVERVIEW

Major Observations:

1. Rust formation was found on the structure.
2. The Maximum temperature observed is 38.7°C.
3. The Minimum temperature observed is 27.3°C.

Recommendations:

1. Rust formation area needs to be painted.

NOTE:

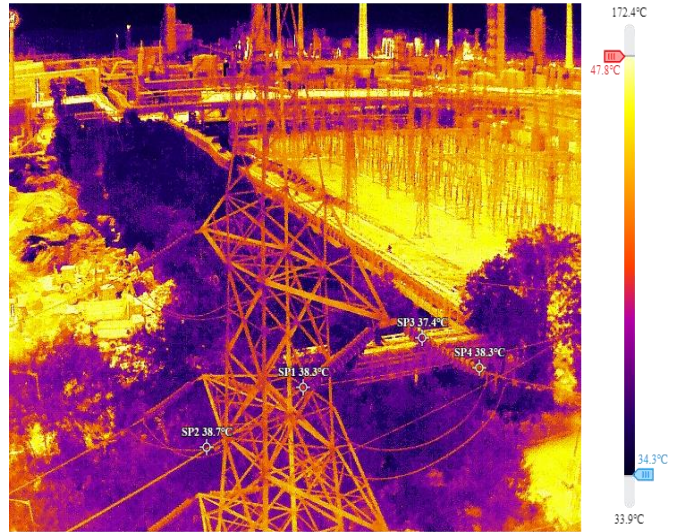
- The altitude that we mention in the observations has $\pm 1\text{m}$ difference.

XXXX



Source Image:	DJI_20241115132854_0002_V&T
Visual Observations: <ul style="list-style-type: none">➤ Rust formation was found on the structure. Thermal Observations: <ul style="list-style-type: none">➤ No anomalies were found.➤ Maximum temperature observed is 37.4°C.➤ Minimum temperature observed is 35.7°C.	

XXXX



Source Image:

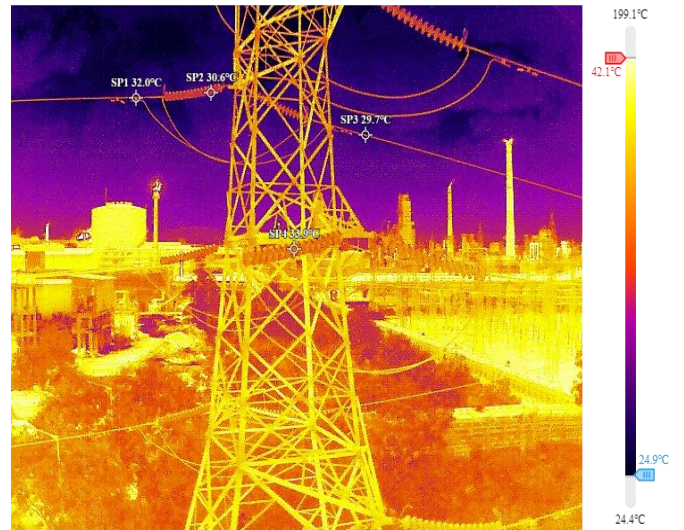
DJI_20241115123746_0003_V&T

Visual Observations:

- Rust formation was found on the structure.
- No anomalies were found in porcelain insulator.

Thermal Observations:

- No anomalies were found.
- Maximum temperature observed is 38.7°C.
- Minimum temperature observed is 37.4°C.



Source Image:

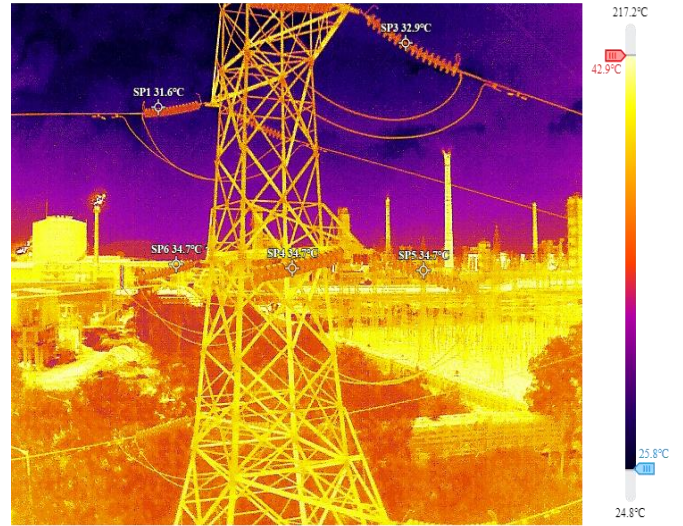
DJI_20241115132943_0007_V&T

Visual Observations:

- Rust formation was found on the structure.
- No anomalies were found in porcelain insulator.
- No anomalies were found in vibration dampers.

Thermal Observations:

- No anomalies were found.
- Maximum temperature observed is 33.9°C.
- Minimum temperature observed is 29.7°C.



Source Image:

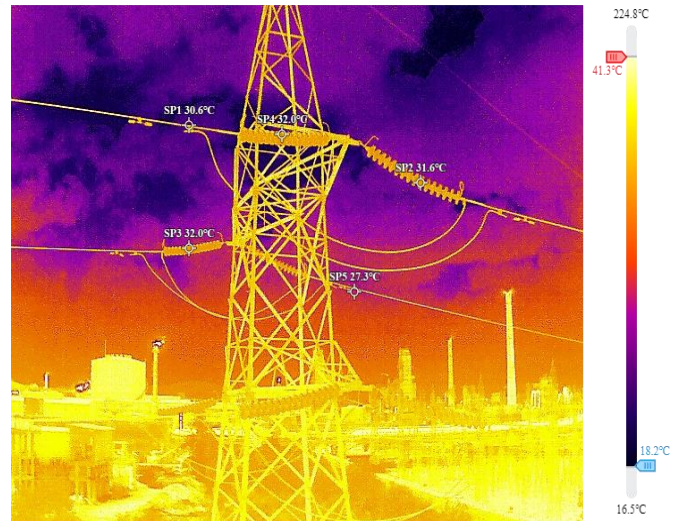
DJI_20241115133009_0009_V&T

Visual Observations:

- Rust formation was found on the structure.
- No anomalies were found in porcelain insulator.
- Arcing horns were found to be okay.

Thermal Observations:

- No anomalies were found.
- Maximum temperature observed is 34.7°C.
- Minimum temperature observed is 31.6°C.



Source Image:

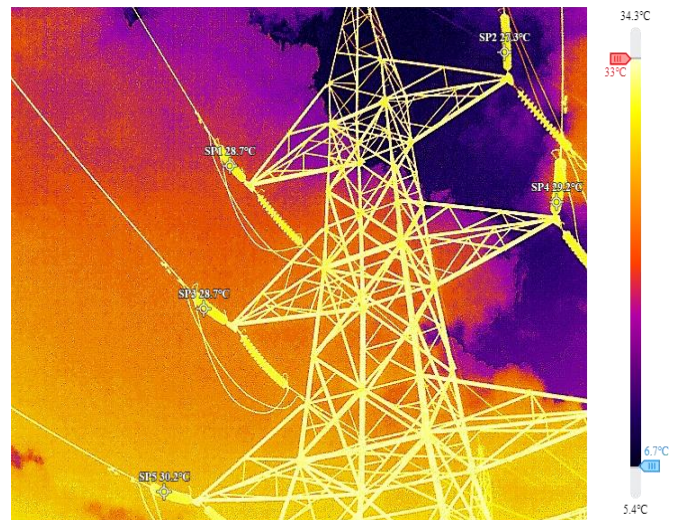
DJI_20241115132937_0006_V&T

Visual Observations:

- No anomalies were found.
- No anomalies were found in jumper cables.
- Vibration dampers and arcing horns were found in good condition.
- No anomalies found in porcelain insulators.

Thermal Observations:

- No anomalies were found.
- Maximum temperature observed is 32.0°C.
- Minimum temperature observed is 27.3°C.



Source Image:

DJI_20241115133738_0019_V&T

Visual Observations:

- No anomalies were found in jumper cables.
- Vibration dampers and arcing horns were found in good condition.
- No anomalies found in porcelain insulators.

Thermal Observations:

- No anomalies were found.
- Maximum temperature observed is 29.2°C.
- Minimum temperature observed is 27.3°C.

XXXX

END OF REPORT