

Project Development Phase Model Performance Test

Date	14 June 2025
Team ID	LTVIP2025TMID47623
Project Name	Exploration of Electricity Consumption Patterns
Maximum Marks	

Model Performance Testing:

 Project Summary – Electricity Consumption Dashboard

S. No.	Parameter	Screenshot / Values
1.	Data Rendered	<p>The dataset contains 1000+ records of electricity usage across Indian states from Jan 2019 to Dec 2020. Key fields include:</p> <ul style="list-style-type: none"> • State • Region • Date • Usage (MU) • Latitude • Longitude
2.	Data Preprocessing	<p>– Verified column types and formatted date fields</p> <p>– No null/missing values found</p> <p>– Renamed columns for clarity in Tableau</p>
3.	Utilization of Filters	<p>Global filters used across all dashboards:</p> <ul style="list-style-type: none"> • Year (2019 / 2020) • Region • State • Lockdown Period (Before / After)
4.	Calculation Fields Used	<p>– $\text{YoY Growth} = ([2020 \text{ Usage}] - [2019 \text{ Usage}]) / [2019 \text{ Usage}]$</p> <p>– $\text{Lockdown Impact} = [\text{Post-Lockdown Avg}] - [\text{Pre-Lockdown Avg}]$</p>
5.	Dashboard Design	<p>Included visualizations:</p> <ul style="list-style-type: none"> • Bar Chart – State-wise Yearly Consumption • Line Chart – Monthly Usage Trends • Filled Map – Region-wise Usage

S. No.	Parameter	Screenshot / Values
		<ul style="list-style-type: none"> • Area Chart – Lockdown Impact • Highlight Table – Quarterly Consumption <p>Tableau Story includes:</p> <ul style="list-style-type: none"> • Overview (National Trend)
6.	Story Design	<ul style="list-style-type: none"> • State & Region Comparison • Lockdown Impact Insights • Recommendations for Policy Makers