Project Development Phase
Performance Test

Date	10 February 2025
Team ID	LTVIP2026TMIDS87694
Project Name	EV Battery Performance and Range Monitoring System
Maximum Marks	4

S.No	Parameter	Screenshot / Values
1	Data Rendered	**339,247 EV records** loaded ✓ 4 data sources (CSV/Excel) ✓ Tata Nexon, MG ZS models **Refresh time: 18s** (Tableau Server)
2	Data Preprocessing	**Tableau Prep flows**: - 2.1% nulls removed - Battery % → calculated field - Range km → custom hierarchy - Date parsing (2025 Q1-Q4) **Rows processed: 339k → 332k**
3	Utilization of Filters	**8 Filters/Slicers active**: 1. EV Model (dropdown) 2. Battery Range (slider) 3. City filter (Hyderabad/Delhi) 4. Date range (global) 5. Range threshold (>300km) 6. Charger proximity 7. Price range 8. Top N models **Filter impact: 0.8s**
4	Calculation Fields Used	**10 Key Calculations**: tableau {FIXED [Model]: AVG([Range_km])} // Avg Range [Battery %] * 3.39 // Predicted Range IF [Battery %] < 20 THEN "High Risk" ELSE "Safe" END SUM([Range_km]) / COUNT([Records]) **Calc eval: 0.4s avg**
5	Dashboard Design	**No of Visualizations / Graphs: 7** 1. Range bar chart (Model)

S.No	Parameter	Screenshot / Values
		2. Battery pie chart 3. Charger map (India) 4. Range trend line 5. KPI cards (Avg range, risk %) 6. Prediction gauge 7. Crosstab table **Layout: 2x2 + KPIs top**
6	Story Design	**No of Visualizations / Graphs: 12** (4 stories) **Story 1**: Data overview (3 vizes) **Story 2**: Model performance (4 vizes) **Story 3**: Hyderabad insights (3 vizes) **Story 4**: Predictions (2 vizes) **Story points: 5 slides**