

1. POST HAZARD ASSESSMENT CHECKLIST FOR COMPONENTS

The following checklist be used for quick damage assessment of E-Bus Ecosystem during post hazard impact.

A. E-bus checklist

Table 1 Post Hazard checklist for E-Bus Component

Aspect	Checklist Items
Vehicle Inspection	☐ Check battery pack and modules for damage, overheating or water ingress, cables for damages, connections for tightness / corrosion etc. ☐ Visually inspect body and undercarriage for cracks, leaks, or mechanical faults. ☐ Inspect low voltage batteries for intactness of positive locking of terminal ends, cables for cracks / electrolyte spillage, etc; head lights, wiper system, brake and indicator lights for functioning, proper fastening/functioning of transmission and steering systems and their joints, oil leakages, hub bolts, entry / exit doors operation, brake system operation
Electrical Safety	☐ Disable BMS (Battery Management System) before diagnostics. ☐ Test insulation resistance and grounding of high-voltage systems.
Telematics & Sensors	☐ Verify the functionality of GPS, camera, Acoustic Vehicle Alerting System (AVAS), dashboard systems, Passenger information display boards, GPRS/ cellular communication system and on-board fare collection systems. ☐ Check ECU (Electronic Control Unit) and backup data integrity.
Test Operations	☐ Conduct no-load dry run before re-commissioning. ☐ Monitor energy draw patterns and regenerative braking function.

B. Depot Facilities

Table 2 Post Hazard checklist for Depot Infrastructure and Management component

Area	Checklist Items
Structural Safety	☐ Conduct structural audit of roofs, columns, walls, and entry gates. ☐ Inspect ramps, drainage, bus lanes for cracks or blockages, bus inspection pits for water logging / leakages, bus circulation plan within the depot.
Water & Fire Systems	☐ Test sump pumps, stormwater drains, and waterlogging systems. ☐ Check fire alarms, extinguishers, sprinklers.
Electrical Rooms	☐ Ensure battery rooms, server rooms, and UPS enclosures are dry and safe. ☐ Assess energy meters and grid backup systems. ☐ Assess safety and functioning of standby generator and low voltage battery chargers.
Staff & Operations	☐ Set up temporary workspaces or shelters if depot is damaged. ☐ Account for staff availability and wellbeing.

C. Charging infrastructure

Table 3 Post Hazard checklist for Charging Infrastructure component

Area	Checklist Items
Physical Damage	☐ Inspect chargers, connectors, cables for breakage, warping, water entry. ☐ Secure charger enclosures and check for tilting or instability.
Power Systems	☐ Test transformers, switchgear, and circuit breakers for overload signs. ☐ Ensure grounding and lightning protection system are intact.
Software & Controls	☐ Reset and test communication systems (OCPP/comms protocols). ☐ Run firmware diagnostics and software updates.
Safety Systems	☐ Check for proper ventilation, heat dissipation, and fire suppression units.

D. Operating environment

Table 4 Post Hazard checklist for Operating Environment component

Area	Checklist Items
Route Accessibility	☐ Survey routes for obstructions, sinkholes, waterlogging, landslide, tree falls or for any other obstruction. ☐ Reroute buses away from damaged bridges or flyovers.
Bus Stops & Terminals	☐ Inspect passenger shelters, signage, lighting, and surveillance. ☐ Confirm tactile paths and railings are intact for safety. ☐ Check for the PIS, Security cameras, electrical equipment and fare collection system if any, are safe and operational.
ITS Systems	☐ Test VMS (Variable Message Signs), adaptive signals, CCTV. ☐ Coordinate with traffic police to manage detours and control points.
Power & Communication Lines	☐ Inspect for damaged poles, snapped cables, or loose conductors. ☐ Request immediate repair from utility agencies.