Nashik Ganpati 2025 – Integrated Macro-to-Micro Bandobast Master Plan

I. Macro-Level Strategic View (City-Wide)

Objective: Ensure smooth, safe, and coordinated management of the entire 2025 Ganpati festival period across Nashik city.

1. Core Strategic Pillars

- **Crowd Safety**: Zero stampede & incident goal.
- **Traffic & Mobility**: Maintain ambulance/fire “green corridors”.
- **Mandal Security**: Prevent law & order incidents, fire, and electrical hazards.
- **Tech Integration**: AI-driven surveillance, predictive alerts.
- **Interagency Coordination**: Police, Traffic, Fire, NMC, Disaster Management, Hospitals.

2. Event Scope

- **Total Mandals**: 790 (204 large, 35 high-value VIP/risk-priority).
- **Festival Timeline**: Start day, intermediate events, final Visarjan day.
- **Key Venues**: All immersion ghats, main rally routes, sensitive mandals.
- **Past Incidents Reference**: Nashik Ganpati Data Analysis 2015–2024.

3. City-Wide GIS Layers

- Police station & chowki boundaries.
- Road network with classified width/turning radius.
- Crowd congregation hotspots.
- Emergency service locations.

- Parking zones & diversion maps.
- Water bodies (immersion points) with safety perimeters.

II. Meso-Level Tactical View (Zone / PS / Sector)

Objective: Allocate resources, routes, and actions for each jurisdiction.

1. Police Deployment Matrix

PS Name	Total Staff	SRPF	Home Guards	Women Constables	Chowkis	Static Points	Mobile Patrols	QRT
Example	180	12	35	20	8	25	12	3

2. Zone-Wise Planning

- **Sensitive Mandals**: Assign layered security (outer, inner cordon, VIP watch).
- **Route Segmentation**: Divide procession routes into choke-free segments.
- **Traffic Diversions**: Pre-mark one-way pedestrian & vehicle loops.
- **Contingency Assets**: Spare barricades, standby QRT, reserve officers.

3. Sector Briefing Cards

- Printed + QR version with:
    - Sector map with all posts, mandals, and assets.
    - Contact tree (sector IC → PS → HQ).
    - Medical and fire nearest points.
    - Escalation SOP for crowd surge, medical, law & order.

III. Micro-Level Operational View (Chowki / Road / Mandal)

Objective: Define exactly who does what, where, and when.

1. Chowki Post Order

- Exact GPS coordinates.
- Shift-wise officer roster.
- Linked mandal/procession route.
- Traffic control points & diversion signs.
- CCTV / PA system monitoring role.

2. Mandal SOP

- Entry/exit control.
- Crowd density thresholds (soft alert @ 3 pers/m², hard alert @ 5 pers/m²).
- Fire/electrical inspection log.
- Night patrolling schedule.
- Drone surveillance (if cleared).

3. Immersion Point Plan

- Separate lanes for idols, VIP access, and public viewing.
- Health camp location.
- Crane operation zone.
- Flood hazard buffer.

IV. Predictive & AI-Driven Layer

Objective: Anticipate, not just react.

1. AI Crowd Prediction

- Input: Past attendance logs + live CCTV counts + weather forecast.
- Output: Hourly crowd load forecast for each PS & major route.
- Action: Auto-recommend manpower shifts and diversion triggers.

2. Traffic Flow Modelling

- Simulate procession + regular city traffic interaction.
- Predict congestion hotspots by time of day.
- Suggest green-corridor shifts for ambulances/fire.

3. Incident Probability Mapping

- Weighted risk score for each mandal (crowd × history × location × safety readiness).
- Trigger pre-deployment for high-score spots.

V. Interlinked Dependencies

We treat these as **cause-effect chains**, so the plan accounts for ripple effects:

- **Crowd surge at Mandal A** → triggers traffic diversion on Road X → reduces parking capacity at Zone B → requires shuttle support.
- **Procession delay** → shifts police coverage overlap → requires reserve deployment release.
- **Rain at Ghat** → increases road slipperiness → demands ambulance relocation.

Algorithmically, this can be represented as a **decision rules engine** in the dashboard:

```
IF CrowdDensity > Threshold_A AND RoadType = Narrow THEN
  Trigger Diversion_Route
  Notify Traffic_Control
  Deploy QRT to Exit_Point
```

VI. Execution Dashboard

Live Map Layers:

- Mandal priority markers (red = high-risk).
- Deployment icons (officers, QRTs, assets).
- Traffic flow lines (green/yellow/red).
- Weather overlays.

Incident Feed:

- Crowd surge alerts.
- Equipment failure (PA, CCTV).
- Law & order flag.
- Medical emergencies.

Daily SITREP (Situation Report):

- Auto-generated by AI from radio logs + WhatsApp reports.
- Sent to HQ + all Sector ICs.

VII. Post-Event Analysis

- **After-Action Review**:
    - Incident timeline.
    - Response times.
    - Manpower utilization efficiency.
- **Top 10 Improvements for Next Year**:

    - Infrastructure fixes.
    - Route changes.
    - Training needs.
- **Data Archiving**:
    - Store all GPS, CCTV, incident logs for AI model retraining.

If you want, I can **convert this into a fully linked Excel + GIS-ready template** so every section is **data-driven and auto-populates**. That way, you'd just fill in station-wise deployment, mandal lists, routes, and the system will generate:

- City risk maps.
- PS sector plans.
- Chowki-level post orders.
- Predictive shift rosters.