

Municipal Corporation of Gurugram (MCG)

Monsoon Preparedness & Flood Hotspot Management

WARD-WISE FLOOD HOTSPOT REPORT

For Use by Junior Engineers (JEs) at Ward Level

Ward Summary

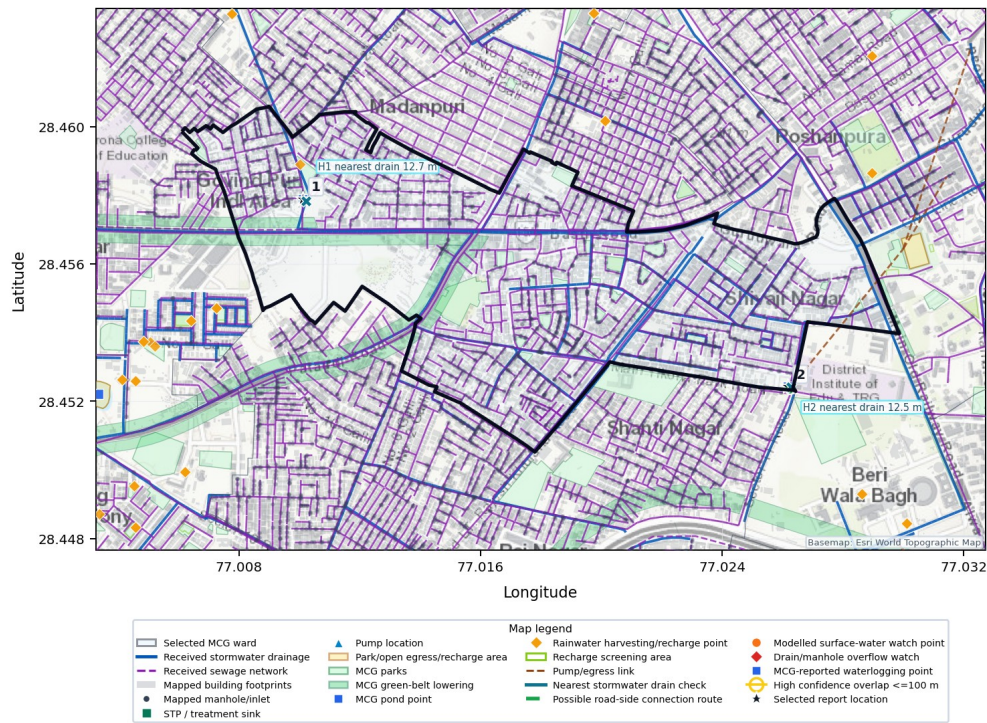
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
29	2	0
Ward Name / Area Covered	Aath Marla; Auto Market; Baldev Nagar; Char Marla; Feroz Gandhi Colony Phase 1; Laxmi Garden; Manohar Nagar; Nai Abadi; Shakti Nagar; Shivaji Nagar; Veer nagar	
Zone	Zone IV	
Division	Zone IV	
Assigned JE	Naveen Yadav HKRN 9582938762	
Report Date	29 July 2026	
Approved FloodAstra baseline	Approved June 5 current-assets baseline	
Utility assets	MCG/GMDA utility assets supplied up to 5 June 2026	
Rainfall used	July 2025 reported event, 133 mm / 12 h	
Hydraulic model	Apple MLX GPU; continuous city surface; roads, buildings, storm drains, sewers, manholes and recharge structures coupled dynamically	
Published depth range	0 to 1.50 m from field-reportable cells only	
Desilting / work status	1 mapped MCG work-status segments overlap this ward; 1 marked completed; 0 marked in progress. Confirm current completion with MCG field records.	
Priority action	Visit MCG reported waterlogging points and check nearby inlet/drain condition	

Official Ward Contact Roster

Role	Supplied MCG contact
Councillor	Smt Usha BJP 9654690692
Executive Engineer (EE)	Sh. Sunder Sheoran, EE, 9466427222
Assistant Engineer (AE)	Sh. Sunil Lather, AE, 9467633172
JE Development	Naveen Yadav HKRN 9582938762
JE Enforcement	Pradeep Sharma 79883 11378
JE Horticulture	Akhlaq 9821395227
JE Electrical	Rahul Sharma 8077405619

Ward Action Map

Ward 29: drainage, sewage and hotspot action map



Blue lines are received stormwater drains. Purple dashed lines are received sewage lines. Green areas are MCG parks/green-belt lowering assets; blue squares are MCG pond points; amber diamonds are rainwater-harvesting/recharge points. Gray building footprints are used only to avoid suggesting routes through buildings. Cyan lines show the hotspot-to-stormwater-drain check. Green dashed lines show a possible road-side route where one was found.

This ward map shows 2,400 stormwater line segments, 17,648 sewage line segments, 6,006 manhole/inlet points, 19 STP/treatment points, 244 MCG park polygons, 3 pond points, 56 green-belt lowering areas and 198 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Firoj Gandhi Colony near Bada Park	maximum modelled depth 0.21 m; average within 50 m 0.21 m; water remains above 15 cm for 67 min.	map label 27804 (storm) near Firoj Gandhi Colony near Bada Park is 12.7 m away. No field-approved connection route is recorded.	Verify MCG point; clear nearest inlet and record site photos.
H2	Near Beri wala Bagh Shivaji Nagar	maximum modelled depth 0.08 m; average within 50 m 0.08 m; water remains above 15 cm for 2 min.	mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar is 12.5 m away. The mapped roadside option is 35.2 m long and is not yet field-approved.	Verify MCG point; clear nearest inlet and record site photos.

Complete Ward Location Register

No.	Source	Location	Lat	Lon	Expected water	How to use this point
R0 1	MCG	Firoj Gandhi Colony near Bada Park	28.45790	77.01012	0.21 m; above 15 cm for 67 min	Confirm at this location
R0 2	MCG	Near Beri wala Bagh Shivaji Nagar	28.45243	77.02616	0.08 m; above 15 cm for 2 min	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Firoj Gandhi Colony near Bada Park
Latitude / Longitude	28.45790, 77.01012
Open location	Use the link below to open this point on Google Maps.

Google Map Links for Hotspot and Assets

Use these links for the field pin, nearby drainage/sewage assets and mapped support assets used in this report.

[H1: hotspot pin](#)

[H1: mapped receiving stormwater drain - map label 27804 \(12.7 m\)](#)

[H1: nearest mapped stormwater line - map label 27804 \(12.7 m\)](#)

[H1: nearest mapped sewage line \(0.80 m\)](#)

[H1: mapped pump - City Bus Stand Sector 10; capacity 50.0 L/s \(1,586 m\)](#)

[H1: open/green receptor or park \(868 m\)](#)

[H1: MCG park - Park No. 3; ward 29 \(7.50 m\)](#)

[H1: MCG pond - Kadipur Pond Near Shiv Mandir \(915 m\)](#)

[H1: MCG green-belt lowering area - Proposed \(60.5 m\)](#)

[H1: rainwater-harvesting/recharge point - Firoj Gandhi Colony-1 Big Park \(112 m\)](#)

[H1: groundwater recharge screening area - PARK; field-check \(388 m\)](#)

[H1: nearest STP/treatment point - SEWER DISPOSAL \(882 m\)](#)

[H1: nearest manhole/inlet \(13.5 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.45790, 77.01012
Water concern	maximum modelled depth 0.21 m; average within 50 m 0.21 m; water remains above 15 cm for 67 min.
Nearest stormwater drain	map label 27804 (storm) near Firoj Gandhi Colony near Bada Park is 12.7 m away. No field-approved connection route is recorded.
Roadside connection checks	No roadside connection route has been mapped without crossing a building. Before proposing work, survey a road alignment, measure the level at both ends, mark utilities and confirm continuous fall toward a stormwater drain that can accept flow.
Nearby MCG sewage line	MCG sewage line is about 0.80 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Verify MCG point; clear nearest inlet and record site photos.
Before monsoon	Inspect and desilt map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m) if silt/choking is seen.
Escalate if	Escalate if the MCG-reported point has no visible inlet, repeated complaints, or unsafe pump discharge route.

2. Source

☒ MCG record	☒ Model-selected point
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3. Field Priority Level

☐ LOW	☒ MEDIUM	☐ HIGH	☐ VERY HIGH
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4. Flood Timing and Depth

At H1, record observed water depth, time, inlet condition and receiving-drain level. Compare these with the model estimate before work begins.

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m ³	Not available at point scale; use depth and timing for field action	July 2025 rain
Time water remains above 15 cm	minutes	67	July 2025 rain
Time to exceed 15 cm after rain starts		Not resolved for this point	July 2025 rain
Maximum depth at this point	m	0.21 m	July 2025 rain
Average depth within 50 m	m	0.21 m	July 2025 rain
Maximum modelled flow speed	m/s		July 2025 rain

H1: record observed water depth and time, then photograph the inlet and receiving-drain level before work starts.

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: map label 27804 (storm) near Firoj Gandhi Colony near Bada Park is about 12.7 m away, but no roadside connection is mapped. Trace the inlet to the drain and record any missing, crushed or blocked reach before scheduling work. Sewage check: an MCG sewage line is about 0.80 m away. Inspect the nearest manhole for rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

map label 27804 (storm) near Firoj Gandhi Colony near Bada Park is about 12.7 m away, but no building-free roadside route is mapped. Do not mark a new link construction-ready until the JE traces the alignment, measures levels at both ends, marks utilities, checks frontage/access and confirms that the receiving drain can accept flow.

c. When to Desilt

Inspect the inlet, first upstream access point and first downstream access point leading to map label 27804 (storm) near Firoj Gandhi Colony near Bada Park. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H1 / local low point	No mapped pump is shown near H1. If water remains after inlet clearing, use a temporary pump only toward map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m) or a verified open/green area; do not use the nearby sewage line (0.80 m from H1) as discharge.	Confirm at site
2	Alternate discharge check for H1	Do not discharge to the nearby sewage line (0.80 m from H1); check safe storm drain/open area after checking route to map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m)	Use gravity only if water from H1 can visibly enter map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m) after inlet and drain-level check.	No pump needed only if flow into map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, check reported waterlogging point, nearby inlet condition and drain continuity. H1: map label 27804 (storm) near Firoj Gandhi Colony near Bada Park is 12.7 m away, but no building-free roadside route is mapped. Trace a road alignment, measure levels at both ends, mark utilities and confirm receiving-drain capacity before proposing construction.

f. Rainwater Harvesting Check

Not identified/applicable in current approved data

g. Temporary Diversion to Park or Pond

Not identified/applicable in current approved data

6. Site Visit Checklist for H1

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H1: 28.45790, 77.01012
Nearest drain/trunk visible	☐	☐	map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m)
Roadside connection route surveyed	☐	☐	No roadside connection route has been mapped without crossing a building. Before proposing work, survey a road alignment, measure the level at both ends, mark utilities and confirm continuous fall toward a stormwater drain that can accept flow.
Levels at both ends measured	☐	☐	Record source and receiving-drain levels; confirm continuous fall and a lower downstream water level.
Inlet/manhole blockage checked	☐	☐	Verify MCG point; clear nearest inlet and record site photos.
Silt visible in drain	☐	☐	Check map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 0.80 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only if flow to map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m) does not start after inlet clearing.
Road/access safety checked	☐	☐	Record traffic/access constraint if present.
Photos taken and attached	☐	☐	Photo label should include H1.
Needs escalation to senior engineer	☐	☐	Escalate if the MCG-reported point has no visible inlet, repeated complaints, or unsafe pump discharge route.

7. Field Decision Box for H1

Decision	Select	Field note
Clean inlet/blockage immediately	☐	Verify MCG point; clear nearest inlet and record site photos.
Inspect/desilt stormwater drain	☐	Inspect and desilt map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: map label 27804 (storm) near Firoj Gandhi Colony near Bada Park is 12.7 m away, but no building-free roadside route is mapped. Trace a road alignment, measure levels at both ends, mark utilities and confirm receiving-drain capacity before proposing construction.
Use a temporary pump	☐	Keep pump ready only if flow to map label 27804 (storm) near Firoj Gandhi Colony near Bada Park (12.7 m) does not start after inlet clearing.
Escalate or restrict access	☐	Escalate if the MCG-reported point has no visible inlet, repeated complaints, or unsafe pump discharge route.

HOTSPOT 2

1. Hotspot Identification

Hotspot Name	Near Beri wala Bagh Shivaji Nagar
Latitude / Longitude	28.45243, 77.02616
Open location	Use the link below to open this point on Google Maps.

Google Map Links for Hotspot and Assets

Use these links for the field pin, nearby drainage/sewage assets and mapped support assets used in this report.

[H2: hotspot pin](#)

[H2: mapped receiving stormwater drain \(12.5 m\)](#)

[H2: nearest mapped stormwater line \(12.5 m\)](#)

[H2: nearest mapped sewage line \(7.50 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - Sohna Road Underpass Rajiv Chowk; capacity 93.3 L/s \(1,009 m\)](#)

[H2: open/green receptor or park \(549 m\)](#)

[H2: MCG park - Civil Lines; ward 27 \(41.5 m\)](#)

[H2: MCG pond - 11 \(1,454 m\)](#)

[H2: MCG green-belt lowering area - Existing \(375 m\)](#)

[H2: rainwater-harvesting/recharge point - Mini Secretariat- Ist \(recorded as non-functional\) \(422 m\)](#)

[H2: groundwater recharge screening area \(479 m\)](#)

[H2: nearest STP/treatment point - MICRO-STP DC CAMP OFFICE; capacity 25.0 KLD \(804 m\)](#)

[H2: nearest manhole/inlet \(29.0 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.45243, 77.02616
Water concern	maximum modelled depth 0.08 m; average within 50 m 0.08 m; water remains above 15 cm for 2 min.
Nearest stormwater drain	mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar is 12.5 m away. The mapped roadside option is 35.2 m long and is not yet field-approved.

Roadside connection checks	Mapped roadside option: approximately 35.2 m from this point to the receiving stormwater drain. The map follows roads and avoids mapped buildings. The route starts and ends at the nearest road points, about 15.6 m and 14.3 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Nearby MCG sewage line	MCG sewage line is about 7.50 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Verify MCG point; clear nearest inlet and record site photos.
Before monsoon	Inspect and desilt mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m) if silt/choking is seen.
Escalate if	Escalate if the MCG-reported point has no visible inlet, repeated complaints, or unsafe pump discharge route.

2. Source

☒ MCG record	☒ Model-selected point
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3. Field Priority Level

☐ LOW	☐ MEDIUM	☐ HIGH	☐ VERY HIGH
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4. Flood Timing and Depth

At H2, record observed water depth, time, inlet condition and receiving-drain level. Compare these with the model estimate before work begins.

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m ³	Not available at point scale; use depth and timing for field action	July 2025 rain
Time water remains above 15 cm	minutes	2	July 2025 rain
Time to exceed 15 cm after rain starts		Not resolved for this point	July 2025 rain
Maximum depth at this point	m	0.08 m	July 2025 rain
Average depth within 50 m	m	0.08 m	July 2025 rain
Maximum modelled flow speed	m/s		July 2025 rain

H2: record observed water depth and time, then photograph the inlet and receiving-drain level before work starts.

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar is about 12.5 m away and the mapped roadside option is about 35.2 m long. Open the inlet and receiving-drain access point, then use a clean-water flow test or observe the next rainfall to confirm that water reaches the drain without backing up. Sewage check: an MCG sewage line is about 7.50 m away. Inspect the nearest manhole for

rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

Mapped option: approximately 35.2 m of roadside connection to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar, which is 12.5 m away directly. Before sanctioning work, measure the source and receiving-drain levels, confirm continuous fall toward the drain, mark utility crossings and check that the receiving drain can accept the added flow. Do not construct if any one of these checks fails.

c. When to Desilt

Inspect the inlet, first upstream access point and first downstream access point leading to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H2 / local low point	No mapped pump is shown near H2. If water remains after inlet clearing, use a temporary pump only toward mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m) or a verified open/green area; do not use the nearby sewage line (7.50 m from H2) as discharge.	Confirm at site
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (7.50 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, check reported waterlogging point, nearby inlet condition and drain continuity. H2: survey the mapped 35.2 m roadside option to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar, which is 12.5 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.

f. Rainwater Harvesting Check

Not identified/applicable in current approved data

g. Temporary Diversion to Park or Pond

Not identified/applicable in current approved data

6. Site Visit Checklist for H2

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H2: 28.45243, 77.02616
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 35.2 m from this point to the receiving stormwater drain. The map follows roads and avoids mapped buildings. The route starts and ends at the nearest road points, about 15.6 m and 14.3 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Levels at both ends measured	☐	☐	Record source and receiving-drain levels; confirm continuous fall and a lower downstream water level.
Inlet/manhole blockage checked	☐	☐	Verify MCG point; clear nearest inlet and record site photos.
Silt visible in drain	☐	☐	Check mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 7.50 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only if flow to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m) does not start after inlet clearing.
Road/access safety checked	☐	☐	Record traffic/access constraint if present.
Photos taken and attached	☐	☐	Photo label should include H2.
Needs escalation to senior engineer	☐	☐	Escalate if the MCG-reported point has no visible inlet, repeated complaints, or unsafe pump discharge route.

7. Field Decision Box for H2

Decision	Select	Field note
Clean inlet/blockage immediately	☐	Verify MCG point; clear nearest inlet and record site photos.
Inspect/desilt stormwater drain	☐	Inspect and desilt mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 35.2 m roadside option to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar, which is 12.5 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.
Use a temporary pump	☐	Keep pump ready only if flow to mapped stormwater drain near Near Beri wala Bagh Shivaji Nagar (12.5 m) does not start after inlet clearing.
Escalate or restrict access	☐	Escalate if the MCG-reported point has no visible inlet, repeated complaints, or unsafe pump discharge route.