

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
30	1	1
Ward Name / Area Covered	Arjun Nagar; Jyoti Park East; Madanpuri; Nehru lane; Ram Nagar; Vijay Park	
Zone	Zone IV	
Division	Zone IV	
Assigned JE	Vasupal 9896998474	
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	No mapped desilting/work-status segment in ward overlay	
Priority action	Inspect drain/manhole overflow watch points, inlet condition, desilting status and downstream flow continuity	

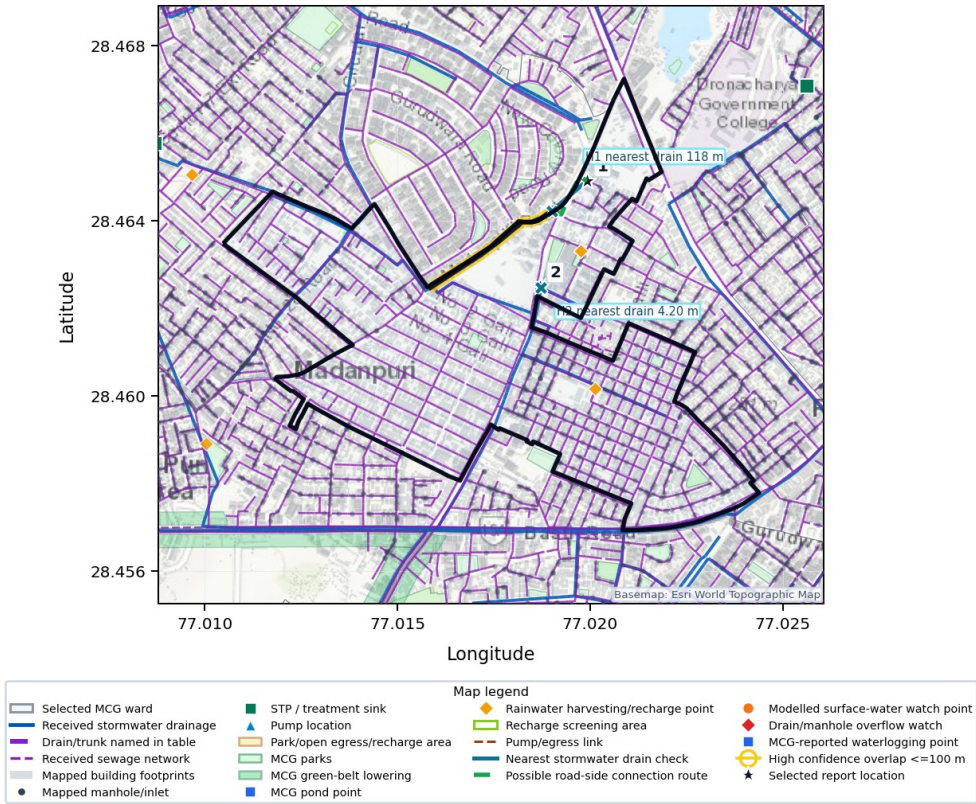
Official Ward Contact Roster

Role	Supplied MCG contact
Councillor	Smt Madhu Batra BJP 9891140525

Role	Supplied MCG contact
Executive Engineer (EE)	Sh. Sunder Sheoran, EE, 9466427222
Assistant Engineer (AE)	Sh. Sunil Lather, AE, 9467633172
JE Development	Vasupal 9896998474
JE Enforcement	Pradeep Sharma 79883 11378
JE Horticulture	Akhlaq 9821395227
JE Electrical	Rahul Sharma 8077405619

Ward Action Map

Ward 30: 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 1,967 stormwater line segments, 15,418 sewage line segments, 4,965 manhole/inlet points, 14 STP/treatment points, 212 MCG park polygons, 2 pond points, 36 green-belt lowering areas and 221 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Auto Market, Bhim Nagar	maximum modelled depth 0.42 m; average within 50 m 0.40 m; water remains above 15 cm for 4.4 h.	mapped stormwater drain near Auto Market, Bhim Nagar is 118 m away. The mapped roadside option is 153 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Madanpuri road Near Madan Lal Grover House	maximum modelled depth 0.10 m; average within 50 m 0.10 m; water remains above 15 cm for 10 min.	mapped stormwater drain near Madanpuri road Near Madan Lal Grover House is 4.20 m away. The mapped roadside option is 6.40 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	Madanpuri road Near Madan Lal Grover House	28.46249	77.01869	0.10 m; above 15 cm for 10 min	Confirm at this location
M0 1	Overflow watch	Auto Market, Bhim Nagar	28.46491	77.01992	0.42 m; above 15 cm for 4.4 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Auto Market, Bhim Nagar
Latitude / Longitude	28.46491, 77.01992
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 \(118 m\)](#)

[H1: nearest mapped stormwater line \(118 m\)](#)

[H1: mapped action drain - map label SWD-LINE-199 \(118 m\)](#)

[H1: mapped main stormwater drain \(950 m\)](#)

[H1: nearest mapped sewage line \(0.10 m\)](#)

[H1: possible roadside connection route](#)

[H1: mapped pump - Mahavir Chowk; capacity 11.7 L/s \(1,333 m\)](#)

[H1: MCG park - Sant Singh Park; ward 32 \(84.5 m\)](#)

[H1: MCG pond - Subhas Nagar Pond \(526 m\)](#)

[H1: MCG green-belt lowering area - Existing \(944 m\)](#)

[H1: rainwater-harvesting/recharge point - Near Laxmi Bazar back side \(recorded as functional\) \(179 m\)](#)

[H1: groundwater recharge screening area \(349 m\)](#)

[H1: nearest STP/treatment point - SUBHASH NAGAR \(607 m\)](#)

[H1: nearest manhole/inlet \(0.40 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46491, 77.01992
Water concern	maximum modelled depth 0.42 m; average within 50 m 0.40 m; water remains above 15 cm for 4.4 h.
Nearest stormwater drain	mapped stormwater drain near Auto Market, Bhim Nagar is 118 m away. The mapped roadside option is 153 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 153 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 21.1 m and 1.80 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 at this point. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check water backing up at the manhole; verify trunk drain level before pumping.
Before monsoon	Inspect and desilt mapped stormwater drain near Auto Market, Bhim Nagar (118 m) if silt/choking is seen.
Escalate if	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe 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	m³	2,153 m³	July 2025 rain
Time water remains above 15 cm	hours	4.4	July 2025 rain
Time to exceed 15 cm after rain starts	hours	9.6	July 2025 rain
Maximum depth at this point	m	0.42 m	July 2025 rain
Average depth within 50 m	m	0.40 m	July 2025 rain
Maximum modelled flow speed	m/s	0.00 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: mapped stormwater drain near Auto Market, Bhim Nagar is about 118 m away and the mapped roadside option is about 153 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 at this point. 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 153 m of roadside connection to mapped stormwater drain near Auto Market, Bhim Nagar, which is 118 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 Auto Market, Bhim 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	H1 / local low point	No mapped pump is shown near H1. If water remains after inlet clearing, use a temporary pump only toward mapped stormwater drain near Auto Market, Bhim Nagar (118 m) or a verified open/green area; do not use the nearby sewage line (0.10 m from H1) as discharge.	299 L/s for 2-hour clearing; 150 L/s for 4-hour clearing; confirm pump head and hose route at H1.
2	Alternate discharge check for H1	Do not discharge to the nearby sewage line (0.10 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Auto Market, Bhim Nagar (118 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to mapped stormwater drain near Auto Market, Bhim Nagar (118 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Auto Market, Bhim Nagar (118 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Auto Market, Bhim Nagar (118 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, no screened pump/open receptor or main-drain drainage relief route within 50 m; field team should check a safe pump route. Map screening used depth/persistence/drain return, 50 m local flood-volume estimate, screened park/open receptors, storm-drain proximity, sewer proximity caution, and site visit constraints. H1: survey the mapped 153 m roadside option to mapped stormwater drain near Auto Market, Bhim Nagar, which is 118 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

Possible receiving area: Nearest mapped drain SWD-LINE-199 at 118 m; check local inlet/link capacity; possible storage Check slope, access, permission and overflow route.

6. Site Visit Checklist for H1

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H1: 28.46491, 77.01992
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Auto Market, Bhim Nagar (118 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 153 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 21.1 m and 1.80 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	☐	☐	Check water backing up at the manhole; verify trunk drain level before pumping.
Silt visible in drain	☐	☐	Check mapped stormwater drain near Auto Market, Bhim Nagar (118 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is at this point. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only after checking manhole/trunk level; estimated 2 h pump need is about 299 L/s.
Road/access safety checked	☐	☐	169 m from Old Railway Road (secondary)
Photos taken and attached	☐	☐	Photo label should include H1.
Needs escalation to senior engineer	☐	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

7. Field Decision Box for H1

Decision	Select	Field note
Clean inlet/blockage immediately	☐	Check water backing up at the manhole; verify trunk drain level before pumping.
Inspect/desilt stormwater drain	☐	Inspect and desilt mapped stormwater drain near Auto Market, Bhim Nagar (118 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 153 m roadside option to mapped stormwater drain near Auto Market, Bhim Nagar, which is 118 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 after checking manhole/trunk level; estimated 2 h pump need is about 299 L/s.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

HOTSPOT 2

1. Hotspot Identification

Hotspot Name	Madanpuri road Near Madan Lal Grover House
Latitude / Longitude	28.46249, 77.01869
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 \(4.20 m\)](#)

[H2: nearest mapped stormwater line \(4.20 m\)](#)

[H2: nearest mapped sewage line \(2.70 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - Mahavir Chowk; capacity 11.7 L/s \(1,455 m\)](#)

[H2: MCG park - Green Area opp Petrol Pump; ward 30 \(20.9 m\)](#)

[H2: MCG pond - Subhas Nagar Pond \(819 m\)](#)

[H2: MCG green-belt lowering area - Proposed \(673 m\)](#)

[H2: rainwater-harvesting/recharge point - Near Laxmi Bazar back side \(recorded as functional\) \(137 m\)](#)

[H2: groundwater recharge screening area - Dussehra Ground; field screening area \(425 m\)](#)

[H2: nearest STP/treatment point - SUBHASH NAGAR \(847 m\)](#)

[H2: nearest manhole/inlet \(41.7 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46249, 77.01869
Water concern	maximum modelled depth 0.10 m; average within 50 m 0.10 m; water remains above 15 cm for 10 min.
Nearest stormwater drain	mapped stormwater drain near Madanpuri road Near Madan Lal Grover House is 4.20 m away. The mapped roadside option is 6.40 m long and is not yet field-approved.

Roadside connection checks	Mapped roadside option: approximately 6.40 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 2.60 m and 3.80 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 2.70 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 Madanpuri road Near Madan Lal Grover House (4.20 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	10	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	0.10 m	July 2025 rain
Average depth within 50 m	m	0.10 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 Madanpuri road Near Madan Lal Grover House is about 4.20 m away and the mapped roadside option is about 6.40 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 2.70 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 6.40 m of roadside connection to mapped stormwater drain near Madanpuri road Near Madan Lal Grover House, which is 4.20 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 Madanpuri road Near Madan Lal Grover House. 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 Madanpuri road Near Madan Lal Grover House (4.20 m) or a verified open/green area; do not use the nearby sewage line (2.70 m from H2) as discharge.	Confirm at site
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (2.70 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Madanpuri road Near Madan Lal Grover House (4.20 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Madanpuri road Near Madan Lal Grover House (4.20 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Madanpuri road Near Madan Lal Grover House (4.20 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Madanpuri road Near Madan Lal Grover House (4.20 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 6.40 m roadside option to mapped stormwater drain near Madanpuri road Near Madan Lal Grover House, which is 4.20 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: 28.46249, 77.01869
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Madanpuri road Near Madan Lal Grover House (4.20 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 6.40 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 2.60 m and 3.80 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 Madanpuri road Near Madan Lal Grover House (4.20 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 2.70 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 Madanpuri road Near Madan Lal Grover House (4.20 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 Madanpuri road Near Madan Lal Grover House (4.20 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 6.40 m roadside option to mapped stormwater drain near Madanpuri road Near Madan Lal Grover House, which is 4.20 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 Madanpuri road Near Madan Lal Grover House (4.20 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.