

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

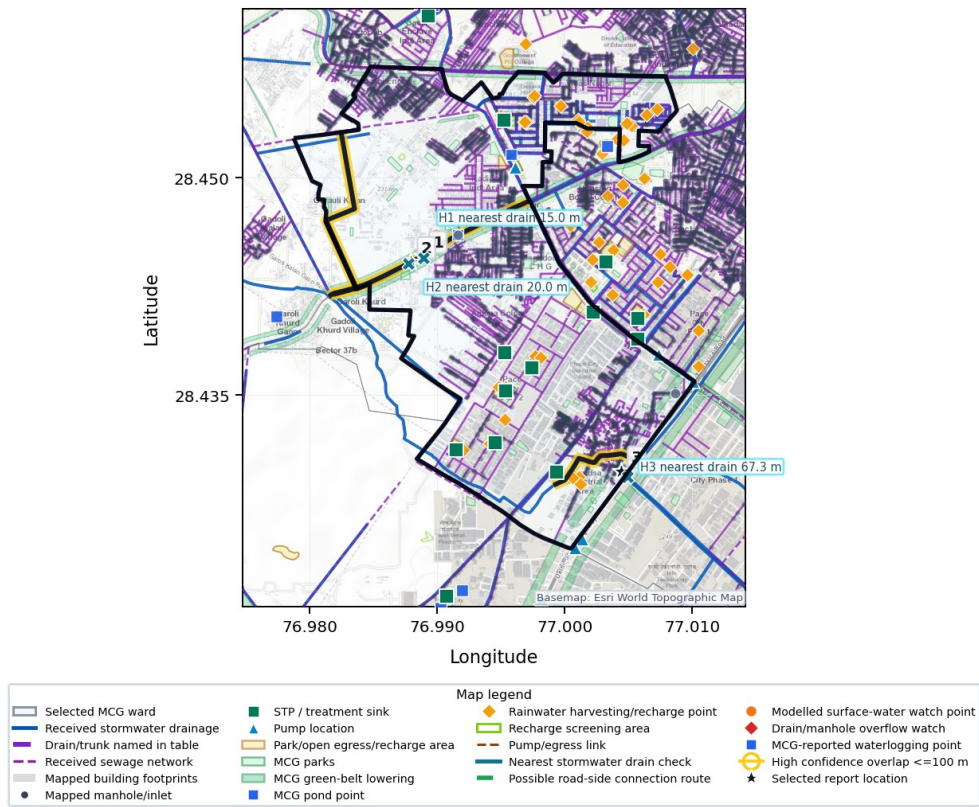
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
9	2	6
Ward Name / Area Covered	Basai Enclave 1; Basai Enclave 2; Kadipur Enclave; Kadipur Industrial Area; Khandsa; Krishan Nagar; Krishna Nagar; Pace City 2; Saraswati Enclave; Sector 10; Sector 37C; Udyog Vihar Phase 6; Vikas Nagar	
Zone	Zone I	
Division	Zone I	
Assigned JE	Manoj JE 9671822664	
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	11 mapped MCG work-status segments overlap this ward; 8 marked completed; 3 marked in progress. Confirm current completion with MCG field records.	
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	Shri Avnish Raghav Indp 9891911010
Executive Engineer (EE)	Sh. Pardeep Kumar, EE, 9821395225
Assistant Engineer (AE)	Sh. Wasim Akram, AE, 8110000092
JE Development	Manoj JE 9671822664
JE Enforcement	Rohit Jakhar 9671895169
JE Horticulture	Sunil Kumar 9821395271
JE Electrical	Mohmmamd Azam 9467395603

Ward Action Map

Ward 9: 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 2,175 stormwater line segments, 16,290 sewage line segments, 4,994 manhole/inlet points, 17 STP/treatment points, 233 MCG park polygons, 11 pond points, 69 green-belt lowering areas and 164 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10	maximum modelled depth 0.69 m; average within 50 m 0.60 m; water remains above 15 cm for 10.3 h.	mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 is 15.0 m away. The mapped roadside option is 15.3 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10	maximum modelled depth 0.63 m; average within 50 m 0.50 m; water remains above 15 cm for 7.5 h.	mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 is 20.0 m away. The mapped roadside option is 22.5 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road	maximum modelled depth 0.30 m; average within 50 m 0.20 m; water remains above 15 cm for 4.7 h.	map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road is 67.3 m away. No field-approved connection route is recorded.	Check water backing up at the manhole; verify trunk drain level before pumping.

Complete Ward Location Register

No.	Source	Location	Lat	Lon	Expected water	How to use this point
R0 1	MCG	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10	28.44605	76.99162	0.06 m; above 15 cm for 1 min	Supported by model within 0 m
R0 2	MCG	In front of Alpine School, Sec-10	28.45161	76.99583	0.03 m; above 15 cm for 0 min	Confirm at this location
M0 1	Overflow watch	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10	28.44457	76.98886	0.69 m; above 15 cm for 10.3 h	Confirm at this location
M0 2	Overflow watch	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10	28.44418	76.98794	0.63 m; above 15 cm for 7.5 h	Confirm at this location
M0 3	Overflow watch	Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road	28.42973	77.00441	0.30 m; above 15 cm for 4.7 h	Confirm at this location

No.	Source	Location	Lat	Lon	Expected water	How to use this point
M0 4	Overflow watch	Sector 10 A Market near Gate No-7	28.43512	77.00866	0.59 m; above 15 cm for 4.3 h	Confirm at this location
M0 5	Model depth	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10	28.44609	76.98993	0.84 m; above 15 cm for 11.2 h	Confirm at this location
M0 6	MCG + model	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10	28.44605	76.99162	0.84 m	Supported by MCG report within 0 m

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10
Latitude / Longitude	28.44457, 76.98886
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 \(15.0 m\)](#)

[H1: nearest mapped stormwater line \(3.50 m\)](#)

[H1: mapped action drain - map label SWD-LINE-1337 \(3.50 m\)](#)

[H1: mapped main stormwater drain \(562 m\)](#)

[H1: nearest mapped sewage line \(3.70 m\)](#)

[H1: possible roadside connection route](#)

[H1: mapped pump - City Bus Stand Sector 10; capacity 50.0 L/s \(985 m\)](#)

[H1: open/green receptor or park \(886 m\)](#)

[H1: MCG park - Saraswati Enclave; ward 09 \(123 m\)](#)

[H1: MCG pond - Gadauli Kalan \(1,211 m\)](#)

[H1: MCG green-belt lowering area - Proposed \(32.3 m\)](#)

[H1: rainwater-harvesting/recharge point - SEC 37 A NEAR 544-B HUDDA PARK \(971 m\)](#)

[H1: groundwater recharge screening area \(752 m\)](#)

[H1: nearest STP/treatment point - MICRO STP PACE CITY-2; capacity 50.0 KLD \(972 m\)](#)

[H1: nearest manhole/inlet \(160 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.44457, 76.98886
Water concern	maximum modelled depth 0.69 m; average within 50 m 0.60 m; water remains above 15 cm for 10.3 h.
Nearest stormwater drain	mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 is 15.0 m away. The mapped roadside option is 15.3 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 15.3 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 10.7 m and 4.60 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 3.70 m away. 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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 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	m ³	3,270 m ³	July 2025 rain

Field measure	Unit	Model estimate	Selected rainfall
Time water remains above 15 cm	hours	10.3	July 2025 rain
Time to exceed 15 cm after rain starts	hours	6.0	July 2025 rain
Maximum depth at this point	m	0.69 m	July 2025 rain
Average depth within 50 m	m	0.60 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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 is about 15.0 m away and the mapped roadside option is about 15.3 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 3.70 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 15.3 m of roadside connection to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10, which is 15.0 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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10. 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	Nearest mapped pump: City Bus Stand Sector 10; capacity 50.0 L/s; discharge point to be confirmed at site.	Confirm at site
2	Alternate discharge check for H1	Do not discharge to the nearby sewage line (3.70 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m).	Use only if site access and discharge permission are clear for H1.

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
3	Gravity route to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, inspect the nearest stormwater drain, inlet blockage, silt and downstream continuity. Use a pump route only if flow into mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m) cannot be restored. H1: survey the mapped 15.3 m roadside option to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10, which is 15.0 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

Nearby open/receptor area: distance 885 m; possible temporary storage 867 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 867 m³; Check slope, access, permission and overflow route.

6. Site Visit Checklist for H1

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H1: 28.44457, 76.98886
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 15.3 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 10.7 m and 4.60 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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 3.70 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 after checking manhole/trunk level; pump capacity to be checked at site.
Road/access safety checked	☐	☐	0 m from Gurgaon Rewari Narnaul Singhana Road (trunk)
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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (15.0 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 15.3 m roadside option to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10, which is 15.0 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; pump capacity to be checked at site.
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	Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10
Latitude / Longitude	28.44418, 76.98794
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 \(20.0 m\)](#)

[H2: nearest mapped stormwater line \(0.00 m\)](#)

[H2: mapped action drain - map label SWD-LINE-1337 \(0.00 m\)](#)

[H2: mapped main stormwater drain \(463 m\)](#)

[H2: nearest mapped sewage line \(5.30 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - City Bus Stand Sector 10; capacity 50.0 L/s \(1,080 m\)](#)

[H2: open/green receptor or park \(978 m\)](#)

[H2: MCG park - Saraswati Enclave; ward 09 \(65.7 m\)](#)

[H2: MCG pond - Gadauli Kalan \(1,112 m\)](#)

[H2: MCG green-belt lowering area - Proposed \(28.6 m\)](#)

[H2: rainwater-harvesting/recharge point - In Park Near Plot No.- 547A, Sector 37-II \(recorded as functional\) \(1,002 m\)](#)

[H2: groundwater recharge screening area \(782 m\)](#)

[H2: nearest STP/treatment point - MICRO STP PACE CITY-2; capacity 50.0 KLD \(1,003 m\)](#)

[H2: nearest manhole/inlet \(208 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.44418, 76.98794
Water concern	maximum modelled depth 0.63 m; average within 50 m 0.50 m; water remains above 15 cm for 7.5 h.

Nearest stormwater drain	mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 is 20.0 m away. The mapped roadside option is 22.5 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 22.5 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 9.40 m and 13.1 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 5.30 m away. 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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 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 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	2,319 m ³	July 2025 rain
Time water remains above 15 cm	hours	7.5	July 2025 rain
Time to exceed 15 cm after rain starts	hours	9.1	July 2025 rain
Maximum depth at this point	m	0.63 m	July 2025 rain
Average depth within 50 m	m	0.50 m	July 2025 rain
Maximum modelled flow speed	m/s	0.00 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 Side road (Main Entry From Basai Road) of GMDA Bus

Stand, Sec-10 is about 20.0 m away and the mapped roadside option is about 22.5 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 5.30 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 22.5 m of roadside connection to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10, which is 20.0 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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10. 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	Nearest mapped pump: City Bus Stand Sector 10; capacity 50.0 L/s; discharge point to be confirmed at site.	Confirm at site
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (5.30 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, inspect the nearest stormwater drain, inlet blockage, silt and downstream continuity. Use a pump route only if flow into mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m) cannot be restored. H2: survey the mapped 22.5 m roadside option to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10, which is 20.0 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

Nearby open/receptor area: distance 978 m; possible temporary storage 867 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 867 m³; Check slope, access, permission and overflow route.

6. Site Visit Checklist for H2

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H2: 28.44418, 76.98794
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 22.5 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 9.40 m and 13.1 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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 5.30 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 after checking manhole/trunk level; pump capacity to be checked at site.
Road/access safety checked	☐	☐	5 m from Gurgaon Rewari Narnaul Singhana Road (trunk)
Photos taken and attached	☐	☐	Photo label should include H2.
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 H2

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 Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10 (20.0 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 22.5 m roadside option to mapped stormwater drain near Side road (Main Entry From Basai Road) of GMDA Bus Stand, Sec-10, which is 20.0 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; pump capacity to be checked at site.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

HOTSPOT 3

1. Hotspot Identification

Hotspot Name	Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road
Latitude / Longitude	28.42973, 77.00441
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.

[H3: hotspot pin](#)

[H3: mapped receiving stormwater drain - map label SWD v1 25532 \(67.3 m\)](#)

[H3: nearest mapped stormwater line - map label SWD v1 25532 \(67.3 m\)](#)

[H3: mapped action drain \(123 m\)](#)

[H3: mapped main stormwater drain \(123 m\)](#)

[H3: nearest mapped sewage line \(0.10 m\)](#)

[H3: mapped pump - Khandsa Culvet Leg No. 3; capacity 23.3 L/s \(197 m\)](#)

[H3: open/green receptor or park \(987 m\)](#)

[H3: MCG park - SECTOR 34; ward 16 \(143 m\)](#)

[H3: MCG pond - Mohammadpur Jharsa Village Pond Near HSIIDC \(1,520 m\)](#)

[H3: MCG green-belt lowering area - Proposed \(31.2 m\)](#)

[H3: rainwater-harvesting/recharge point - Near Open Gyms \(recorded as non-functional\) \(323 m\)](#)

[H3: groundwater recharge screening area \(987 m\)](#)

[H3: nearest STP/treatment point - DISPOSAL \(494 m\)](#)

[H3: nearest manhole/inlet \(0.10 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.42973, 77.00441
Water concern	maximum modelled depth 0.30 m; average within 50 m 0.20 m; water remains above 15 cm for 4.7 h.

Nearest stormwater drain	map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road is 67.3 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 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 map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road (67.3 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 H3, 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	1,338 m³	July 2025 rain
Time water remains above 15 cm	hours	4.7	July 2025 rain
Time to exceed 15 cm after rain starts	hours	3.0	July 2025 rain
Maximum depth at this point	m	0.30 m	July 2025 rain
Average depth within 50 m	m	0.20 m	July 2025 rain
Maximum modelled flow speed	m/s	0.00 m/s	July 2025 rain

H3: 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 SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road is about 67.3 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 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

map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road is about 67.3 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 SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road. 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	H3 / local low point	Nearest mapped pump: Khandsa Culvet Leg No. 3; capacity 23.3 L/s; likely discharge: Badshapur Drain (Leg 3).	Confirm at site
2	Alternate discharge check for H3	Do not discharge to the nearby sewage line (0.10 m from H3); check safe storm drain/open area after checking route to map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road (67.3 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road (67.3 m)	Use gravity only if water from H3 can visibly enter map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road (67.3 m) after inlet and drain-level check.	No pump needed only if flow into map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road (67.3 m) is confirmed at site.

e. New Drain or Inlet Decision

For H3, 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. H3: map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road is 67.3 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

Nearby open/receptor area: distance 987 m; possible temporary storage 2,178 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 2,178 m³; Check slope, access, permission and overflow route.

6. Site Visit Checklist for H3

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H3: 28.42973, 77.00441
Nearest drain/trunk visible	☐	☐	map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road (67.3 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	☐	☐	Check water backing up at the manhole; verify trunk drain level before pumping.
Silt visible in drain	☐	☐	Check map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrampur road (67.3 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; pump capacity to be checked at site.
Road/access safety checked	☐	☐	27 m from secondary
Photos taken and attached	☐	☐	Photo label should include H3.
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 H3

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 map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrapur road (67.3 m) if silt/choking is seen.
Survey a new roadside connection	[]	H3: map label SWD_v1_25532 (storm) near Behrampur, Tata motors company and opposite Axis Bank ATM bahrapur road is 67.3 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 after checking manhole/trunk level; pump capacity to be checked at site.
Escalate or restrict access	[]	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.