

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

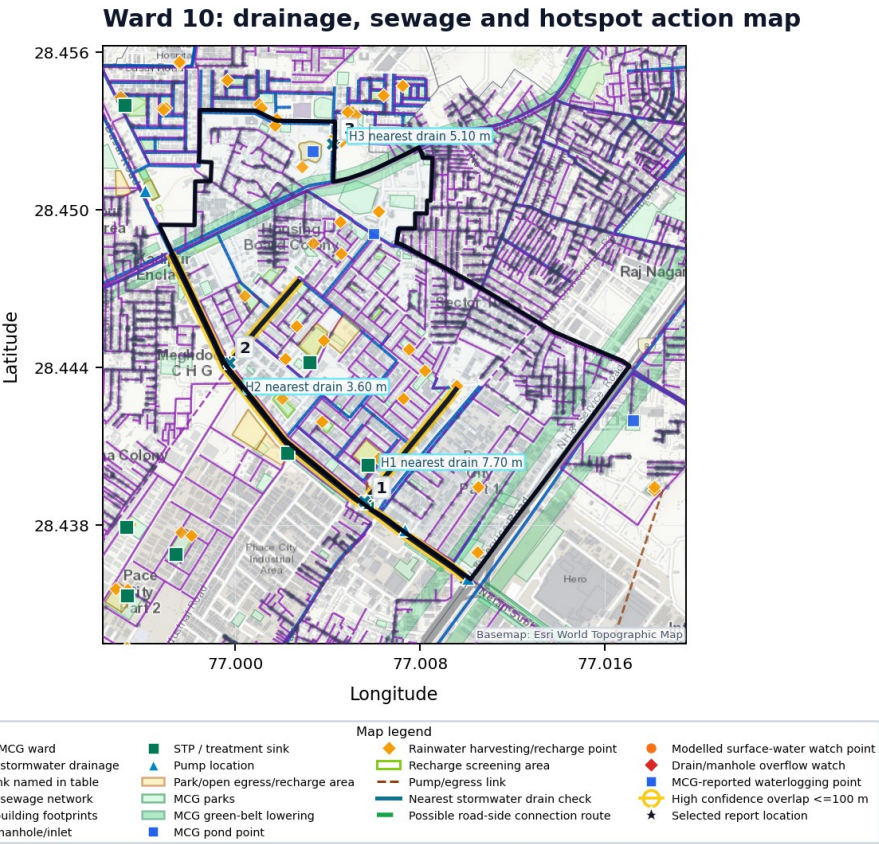
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
10	4	2
Ward Name / Area Covered	Hari Nagar; Kadipur; Old Industrial Area Khandsa Road; Pace City 1; Sector 10A; Shakti Park; Shiv Nagar	
Zone	Zone I	
Division	Zone I	
Assigned JE	Rahul JE 9541667888	
Report Date	29 July 2026	
Approved FloodAstra 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	Shri Mahavir Yadav Indp 9212177052

Role	Supplied MCG contact
Executive Engineer (EE)	Sh. Pardeep Kumar, EE, 9821395225
Assistant Engineer (AE)	Sh. Wasim Akram, AE, 8110000092
JE Development	Rahul JE 9541667888
JE Enforcement	Rohit Jakhar 9671895169
JE Horticulture	Sunil Kumar 9821395271
JE Electrical	Mohmmamd Azam 9467395603

Ward 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 1,948 stormwater line segments, 15,452 sewage line segments, 4,739 manhole/inlet points, 16 STP/treatment points, 208 MCG park polygons, 3 pond points, 41 green-belt lowering areas and 168 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Sector 10 A Market near Gate No-7	maximum modelled depth 0.67 m; average within 50 m 0.00 m; duration estimate not available.	mapped stormwater drain near Sector 10 A Market near Gate No-7 is 7.70 m away. The mapped roadside option is 10.2 m long and is not yet field-approved.	Verify MCG point; clear nearest inlet and record site photos.
H2	Sector 10 A Gate No-5	maximum modelled depth 0.64 m; average within 50 m 0.00 m; duration estimate not available.	mapped stormwater drain near Sector 10 A Gate No-5 is 3.60 m away. The mapped roadside option is 9.40 m long and is not yet field-approved.	Verify MCG point; clear nearest inlet and record site photos.
H3	In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School)	maximum modelled depth 0.12 m; average within 50 m 0.12 m; water remains above 15 cm for 30 min.	mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) is 5.10 m away. The mapped roadside option is 10.7 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	In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School)	28.45251	77.00426	0.12 m; above 15 cm for 30 min	Confirm at this location
R0 2	MCG	Sector 10 A Market near Gate No-7	28.43887	77.00566	0.21 m; above 15 cm for 7 min	Supported by model within 0 m
R0 3	MCG	Sector 10 A Gate No-5	28.44421	76.99975	0.17 m; above 15 cm for 42 min	Supported by model within 0 m
R0 4	MCG	Sector 10 A in front of Gandhi Nagar Booster	28.44910	77.00601	0.07 m; above 15 cm for 23 min	Confirm at this location
M0 1	MCG + model	Sector 10 A Market near Gate No-7	28.43887	77.00566	0.67 m	Supported by MCG report within 0 m
M0 2	MCG + model	Sector 10 A Gate No-5	28.44421	76.99975	0.64 m	Supported by MCG report within 0 m

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Sector 10 A Market near Gate No-7
Latitude / Longitude	28.43887, 77.00566
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 \(7.70 m\)](#)

[H1: nearest mapped stormwater line \(7.70 m\)](#)

[H1: mapped action drain - map label SWD-LINE-750 \(7.70 m\)](#)

[H1: mapped main stormwater drain \(15.2 m\)](#)

[H1: nearest mapped sewage line \(2.20 m\)](#)

[H1: possible roadside connection route](#)

[H1: mapped pump - Khandsa Chowk; capacity 83.3 L/s \(202 m\)](#)

[H1: open/green receptor or park \(133 m\)](#)

[H1: MCG park - Krishna Park; ward 10 \(134 m\)](#)

[H1: MCG pond - 11 \(1,180 m\)](#)

[H1: MCG green-belt lowering area - Existing \(13.8 m\)](#)

[H1: rainwater-harvesting/recharge point - Shree Krishna Park, Sec-10A \(recorded as functional\) \(192 m\)](#)

[H1: groundwater recharge screening area \(133 m\)](#)

[H1: nearest STP/treatment point - SECTOR 10A GATE NO.07 \(5.10 m\)](#)

[H1: nearest manhole/inlet \(36.5 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.43887, 77.00566
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Water concern	maximum modelled depth 0.67 m; average within 50 m 0.00 m; duration estimate not available.
Nearest stormwater drain	mapped stormwater drain near Sector 10 A Market near Gate No-7 is 7.70 m away. The mapped roadside option is 10.2 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 10.2 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 1.60 m and 1.00 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 2.20 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 Sector 10 A Market near Gate No-7 (7.70 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	23.5 m ³	July 2025 rain
Time water remains above 15 cm			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	0.67 m	July 2025 rain
Average depth within 50 m	m	0.00 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: mapped stormwater drain near Sector 10 A Market near Gate No-7 is about 7.70 m away and the mapped roadside option is about 10.2 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 2.20 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 10.2 m of roadside connection to mapped stormwater drain near Sector 10 A Market near Gate No-7, which is 7.70 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 Sector 10 A Market near Gate No-7. 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: Khandsa Chowk; capacity 83.3 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 (2.20 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Sector 10 A Market near Gate No-7 (7.70 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to mapped stormwater drain near Sector 10 A Market near Gate No-7 (7.70 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Sector 10 A Market near Gate No-7 (7.70 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Sector 10 A Market near Gate No-7 (7.70 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, nearest main stormwater drain is 15 m away; check road inlet level, drain level and downstream discharge before routing or pumping. 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 10.2 m roadside option to mapped stormwater drain near Sector 10 A Market near Gate No-7, which is 7.70 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 133 m; possible temporary storage 1,719 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 1,719 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: 28.43887, 77.00566
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Sector 10 A Market near Gate No-7 (7.70 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 10.2 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 1.60 m and 1.00 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 Sector 10 A Market near Gate No-7 (7.70 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 2.20 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 Sector 10 A Market near Gate No-7 (7.70 m) does not start after inlet clearing.
Road/access safety checked	☐	☐	16 m from trunk
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 mapped stormwater drain near Sector 10 A Market near Gate No-7 (7.70 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 10.2 m roadside option to mapped stormwater drain near Sector 10 A Market near Gate No-7, which is 7.70 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 Sector 10 A Market near Gate No-7 (7.70 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	Sector 10 A Gate No-5
Latitude / Longitude	28.44421, 76.99975
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 \(3.60 m\)](#)

[H2: nearest mapped stormwater line \(3.00 m\)](#)

[H2: mapped action drain - map label SWD-LINE-740 \(3.00 m\)](#)

[H2: mapped main stormwater drain \(27.3 m\)](#)

[H2: nearest mapped sewage line \(4.30 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - City Bus Stand Sector 10; capacity 50.0 L/s \(806 m\)](#)

[H2: open/green receptor or park - PARK; storage 2,834 m³ \(216 m\)](#)

[H2: MCG park - SECTOR 10A; ward 25 \(68.3 m\)](#)

[H2: MCG pond - Kadipur Pond Near Shiv Mandir \(956 m\)](#)

[H2: MCG green-belt lowering area - Existing \(9.60 m\)](#)

[H2: rainwater-harvesting/recharge point - In Police Station Premises Near Plot No- 1570, Sector 10A \(recorded as non-functional\) \(239 m\)](#)

[H2: groundwater recharge screening area - PARK; field screening area \(216 m\)](#)

[H2: nearest STP/treatment point - MICRO STP RAO TULARAM PARK NR RADHA KRISHAN MANDIR; capacity 0.10 MLD \(342 m\)](#)

[H2: nearest manhole/inlet \(4.30 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.44421, 76.99975
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Water concern	maximum modelled depth 0.64 m; average within 50 m 0.00 m; duration estimate not available.
Nearest stormwater drain	mapped stormwater drain near Sector 10 A Gate No-5 is 3.60 m away. The mapped roadside option is 9.40 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 9.40 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 5.60 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 4.30 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 Sector 10 A Gate No-5 (3.60 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	159 m ³	July 2025 rain
Time water remains above 15 cm			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	0.64 m	July 2025 rain
Average depth within 50 m	m	0.00 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 Sector 10 A Gate No-5 is about 3.60 m away and the mapped roadside option is about 9.40 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 4.30 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 9.40 m of roadside connection to mapped stormwater drain near Sector 10 A Gate No-5, which is 3.60 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 Sector 10 A Gate No-5. 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 (4.30 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Sector 10 A Gate No-5 (3.60 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Sector 10 A Gate No-5 (3.60 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Sector 10 A Gate No-5 (3.60 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Sector 10 A Gate No-5 (3.60 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, nearest main stormwater drain is 27 m away; check road inlet level, drain level and downstream discharge before routing or pumping. 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. H2: survey the mapped 9.40 m roadside option to mapped stormwater drain near Sector 10 A Gate No-5, which is 3.60 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: PARK; distance 216 m; possible temporary storage 2,834 m³; class site visit.
Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: PARK; possible storage 2,834 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: 28.44421, 76.99975
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Sector 10 A Gate No-5 (3.60 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 9.40 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 5.60 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 Sector 10 A Gate No-5 (3.60 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 4.30 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 if flow to mapped stormwater drain near Sector 10 A Gate No-5 (3.60 m) does not start after inlet clearing.
Road/access safety checked	☐	☐	23 m from trunk
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 Sector 10 A Gate No-5 (3.60 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 9.40 m roadside option to mapped stormwater drain near Sector 10 A Gate No-5, which is 3.60 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 Sector 10 A Gate No-5 (3.60 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 3

1. Hotspot Identification

Hotspot Name	In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School)
Latitude / Longitude	28.45251, 77.00426
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 \(5.10 m\)](#)

[H3: nearest mapped stormwater line \(5.10 m\)](#)

[H3: nearest mapped sewage line \(4.60 m\)](#)

[H3: possible roadside connection route](#)

[H3: mapped pump - City Bus Stand Sector 10; capacity 50.0 L/s \(823 m\)](#)

[H3: open/green receptor or park \(51.4 m\)](#)

[H3: MCG park - SECTOR 10; ward 09 \(108 m\)](#)

[H3: MCG pond - Kadipur Pond Near Shiv Mandir \(96.6 m\)](#)

[H3: MCG green-belt lowering area - Proposed \(120 m\)](#)

[H3: rainwater-harvesting/recharge point - In Commercial Market on Patudi Road, Sector 10 \(recorded as non-functional\) \(19.8 m\)](#)

[H3: groundwater recharge screening area \(51.4 m\)](#)

[H3: nearest STP/treatment point - MICRO STP MODEL PARK; capacity 25.0 KLD \(899 m\)](#)

[H3: nearest manhole/inlet \(13.9 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.45251, 77.00426
Water concern	maximum modelled depth 0.12 m; average within 50 m 0.12 m; water remains above 15 cm for 30 min.
Nearest stormwater drain	mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) is 5.10 m away. The mapped roadside option is 10.7 m long and is not yet field-approved.

Roadside connection checks	Mapped roadside option: approximately 10.7 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 4.80 m and 6.00 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 4.60 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 In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 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 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	m ³	Not available at point scale; use depth and timing for field action	July 2025 rain
Time water remains above 15 cm	minutes	30	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	0.12 m	July 2025 rain
Average depth within 50 m	m	0.12 m	July 2025 rain
Maximum modelled flow speed	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: mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) is about 5.10 m away and the mapped roadside option is about 10.7 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 4.60 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 10.7 m of roadside connection to mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School), which is 5.10 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 In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School). 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	No mapped pump is shown near H3. If water remains after inlet clearing, use a temporary pump only toward mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m) or a verified open/green area; do not use the nearby sewage line (4.60 m from H3) as discharge.	Confirm at site
2	Alternate discharge check for H3	Do not discharge to the nearby sewage line (4.60 m from H3); check safe storm drain/open area after checking route to mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m)	Use gravity only if water from H3 can visibly enter mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m) is confirmed at site.

e. New Drain or Inlet Decision

For H3, check reported waterlogging point, nearby inlet condition and drain continuity. H3: survey the mapped 10.7 m roadside option to mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School), which is 5.10 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 H3

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H3: 28.45251, 77.00426
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 10.7 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 4.80 m and 6.00 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 In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 4.60 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 In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 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 H3.
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 H3

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 In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 m) if silt/choking is seen.
Survey a new roadside connection	☐	H3: survey the mapped 10.7 m roadside option to mapped stormwater drain near In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School), which is 5.10 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 In front of HUDA Market Sec-10 (Near Blue Bells & Euro International School) (5.10 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.