

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

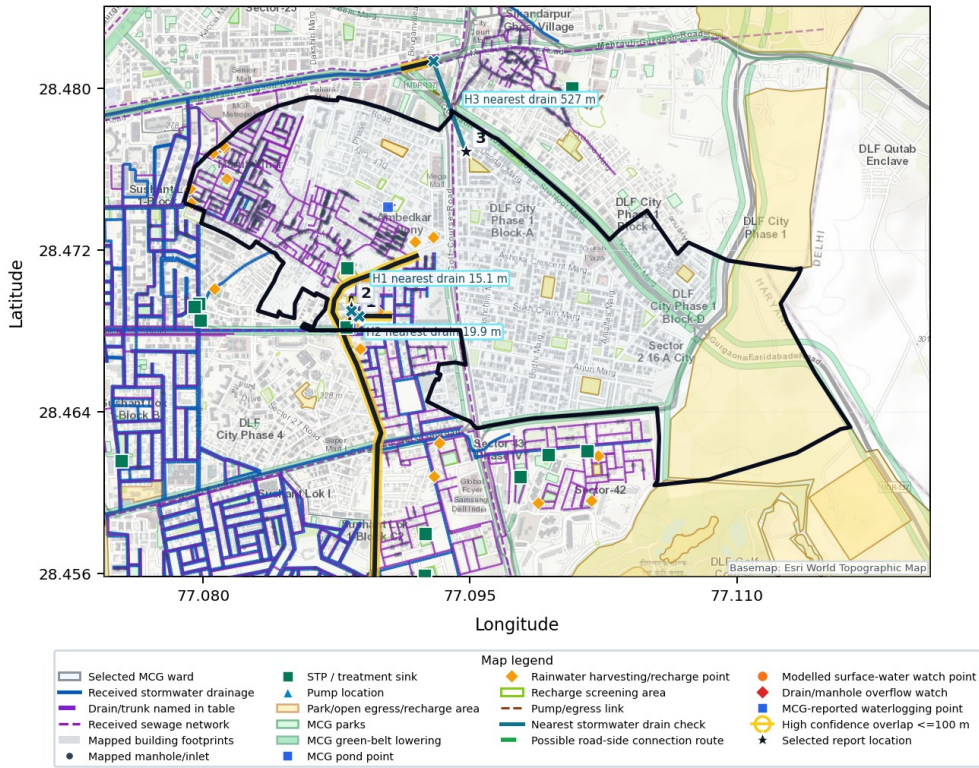
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
23	2	3
Ward Name / Area Covered	Aravali Hills Chakkarpur; Chakkarpur Village; DLF City Phase 1; Maruti Vihar; Saraswati Vihar; Sarawati Vihar Housing Board; Sector 26; Sector 28	
Zone	Zone VIII	
Division	Zone VIII	
Assigned JE	Vinay Verma HKRN 9971070036	
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	Inspect drain/manhole overflow watch points, inlet condition, desilting status and downstream flow continuity	

Official Ward Contact Roster

Role	Supplied MCG contact
Councillor	Shri Kunal Yadav Indp 8745891245
Executive Engineer (EE)	Sh. Parveen Raghav, EE, 9999716115
Assistant Engineer (AE)	Sh. Sumit Kumar, AE, 9467241646
JE Development	Vinay Verma HKRN 9971070036
JE Enforcement	Himanshu Rao 9821395268
JE Horticulture	Himanshu Rao 9821395268
JE Electrical	Devender 9999397898

Ward Action Map

Ward 23: 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 3,115 stormwater line segments, 6,061 sewage line segments, 730 manhole/inlet points, 17 STP/treatment points, 184 MCG park polygons, 2 pond points, 80 green-belt lowering areas and 64 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Opposite Sheeba Apartment GH-I sector 28	maximum modelled depth 0.35 m; average within 50 m 0.30 m; water remains above 15 cm for 7.0 h.	mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 is 15.1 m away. The mapped roadside option is 17.6 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Opposite Sheeba Apartment GH-I sector 28	maximum modelled depth 0.38 m; average within 50 m 0.30 m; water remains above 15 cm for 6.6 h.	mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 is 19.9 m away. The mapped roadside option is 39.4 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	Sikanderpur entry from Bristal chowk	maximum modelled depth 0.90 m; average within 50 m 0.60 m; water remains above 15 cm for 10.7 h.	map label 699 (storm) near Sikanderpur entry from Bristal chowk is 527 m away. No field-approved connection route is recorded.	Locate nearest visible inlet; plan temporary pump route if gravity flow is absent.

Complete Ward Location Register

No.	Source	Location	Lat	Lon	Expected water	How to use this point
R0 1	MCG	Opposite Sheeba Apartment GH-I sector 28	28.46813	77.08829	0.16 m; above 15 cm for 17 min	Supported by model within 72 m
R0 2	MCG	Chakarpur Mandir	28.47412	77.09037	0.09 m; above 15 cm for 1 min	Confirm at this location
M0 1	Overflow watch	Opposite Sheeba Apartment GH-I sector 28	28.46873	77.08858	0.35 m; above 15 cm for 7.0 h	Supported by MCG report within 72 m
M0 2	Overflow watch	Opposite Sheeba Apartment GH-I sector 28	28.46917	77.08830	0.38 m; above 15 cm for 6.6 h	Confirm at this location
M0 3	Model depth	Sikanderpur entry from Bristal chowk	28.47685	77.09476	0.90 m; above 15 cm for 10.7 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Opposite Sheeba Apartment GH-I sector 28
Latitude / Longitude	28.46873, 77.08858
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 \(15.1 m\)](#)

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

[H1: mapped action drain - map label SWD-LINE-2070 \(0.10 m\)](#)

[H1: mapped main stormwater drain \(104 m\)](#)

[H1: nearest mapped sewage line \(7.60 m\)](#)

[H1: possible roadside connection route](#)

[H1: open/green receptor or park \(201 m\)](#)

[H1: MCG park - H.No-240; ward 23 \(112 m\)](#)

[H1: MCG green-belt lowering area - Proposed \(54.3 m\)](#)

[H1: rainwater-harvesting/recharge point - Sec.-28 H.No.- 209 \(recorded as functional\) \(52.0 m\)](#)

[H1: groundwater recharge screening area - PARK; field-check \(112 m\)](#)

[H1: nearest STP/treatment point - Near Sheeba Apartments Sector-28 \(82.7 m\)](#)

[H1: nearest manhole/inlet \(43.5 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46873, 77.08858
Water concern	maximum modelled depth 0.35 m; average within 50 m 0.30 m; water remains above 15 cm for 7.0 h.

Nearest stormwater drain	mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 is 15.1 m away. The mapped roadside option is 17.6 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 17.6 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 10.8 m and 6.80 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 7.60 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 Opposite Sheeba Apartment GH-I sector 28 (15.1 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
-------------------------------------	--

3. Field Priority Level

☐ LOW	☐ MEDIUM	☐ HIGH	☒ VERY HIGH
------------------------------	---------------------------------	-------------------------------	---

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	1,278 m³	July 2025 rain
Time water remains above 15 cm	hours	7.0	July 2025 rain
Time to exceed 15 cm after rain starts	hours	8.2	July 2025 rain
Maximum depth at this point	m	0.35 m	July 2025 rain
Average depth within 50 m	m	0.30 m	July 2025 rain
Maximum modelled flow speed	m/s	0.01 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 Opposite Sheeba Apartment GH-I sector 28 is about 15.1 m away and the mapped roadside option is about 17.6 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 7.60 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 17.6 m of roadside connection to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28, which is 15.1 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 Opposite Sheeba Apartment GH-I sector 28. 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 Opposite Sheeba Apartment GH-I sector 28 (15.1 m) or a verified open/green area; do not use the nearby sewage line (7.60 m from H1) as discharge.	177 L/s for 2-hour clearing; 88.7 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 (7.60 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (15.1 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (15.1 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (15.1 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (15.1 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 Opposite Sheeba Apartment GH-I sector 28 (15.1 m) cannot be restored. H1: survey the mapped 17.6 m roadside option to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28, which is 15.1 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 201 m; possible temporary storage 1,197 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 1,197 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: 28.46873, 77.08858
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (15.1 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 17.6 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 10.8 m and 6.80 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 Opposite Sheeba Apartment GH-I sector 28 (15.1 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 7.60 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 after checking manhole/trunk level; estimated 2 h pump need is about 177 L/s.
Road/access safety checked	☐	☐	85 m from Hamilton Ct 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 Opposite Sheeba Apartment GH-I sector 28 (15.1 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 17.6 m roadside option to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28, which is 15.1 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 177 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	Opposite Sheeba Apartment GH-I sector 28
Latitude / Longitude	28.46917, 77.08830
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 \(19.9 m\)](#)

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

[H2: mapped action drain - map label SWD-LINE-2065 \(0.00 m\)](#)

[H2: mapped main stormwater drain \(95.6 m\)](#)

[H2: nearest mapped sewage line \(2.20 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - Iffco chowk, MG road under pass; capacity 46.7 L/s \(1,768 m\)](#)

[H2: open/green receptor or park \(145 m\)](#)

[H2: MCG park - H.No-331; ward 23 \(111 m\)](#)

[H2: MCG green-belt lowering area - Proposed \(104 m\)](#)

[H2: rainwater-harvesting/recharge point - Sec.-28 H.No.- 209 \(recorded as functional\) \(100 m\)](#)

[H2: groundwater recharge screening area - PARK; field-check \(138 m\)](#)

[H2: nearest STP/treatment point - Near Sheeba Apartments Sector-28 \(117 m\)](#)

[H2: nearest manhole/inlet \(33.4 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46917, 77.08830
Water concern	maximum modelled depth 0.38 m; average within 50 m 0.30 m; water remains above 15 cm for 6.6 h.
Nearest stormwater drain	mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 is 19.9 m away. The mapped roadside option is 39.4 m long and is not yet field-approved.

Roadside connection checks	Mapped roadside option: approximately 39.4 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 27.4 m and 12.0 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	Check water backing up at the manhole; verify trunk drain level before pumping.
Before monsoon	Inspect and desilt mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (19.9 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
-------------------------------------	--

3. Field Priority Level

☐ LOW	☐ MEDIUM	☐ HIGH	☒ VERY HIGH
------------------------------	---------------------------------	-------------------------------	---

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	m³	1,950 m³	July 2025 rain
Time water remains above 15 cm	hours	6.6	July 2025 rain
Time to exceed 15 cm after rain starts	hours	7.8	July 2025 rain
Maximum depth at this point	m	0.38 m	July 2025 rain
Average depth within 50 m	m	0.30 m	July 2025 rain
Maximum modelled flow speed	m/s	0.01 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 Opposite Sheeba Apartment GH-I sector 28 is about 19.9 m away and the mapped roadside option is about 39.4 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 39.4 m of roadside connection to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28, which is 19.9 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 Opposite Sheeba Apartment GH-I sector 28. 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 Opposite Sheeba Apartment GH-I sector 28 (19.9 m) or a verified open/green area; do not use the nearby sewage line (2.20 m from H2) as discharge.	271 L/s for 2-hour clearing; 135 L/s for 4-hour clearing; confirm pump head and hose route at H2.
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (2.20 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (19.9 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (19.9 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (19.9 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (19.9 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 Opposite Sheeba Apartment GH-I sector 28 (19.9 m) cannot be restored. H2: survey the mapped 39.4 m roadside option to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28, which is 19.9 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 145 m; possible temporary storage 1,197 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 1,197 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: 28.46917, 77.08830
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28 (19.9 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 39.4 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 27.4 m and 12.0 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 Opposite Sheeba Apartment GH-I sector 28 (19.9 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 after checking manhole/trunk level; estimated 2 h pump need is about 271 L/s.
Road/access safety checked	☐	☐	134 m from Hamilton Ct Road (secondary)
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 Opposite Sheeba Apartment GH-I sector 28 (19.9 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 39.4 m roadside option to mapped stormwater drain near Opposite Sheeba Apartment GH-I sector 28, which is 19.9 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 271 L/s.
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	Sikanderpur entry from Bristol chowk
Latitude / Longitude	28.47685, 77.09476
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 699 \(527 m\)](#)

[H3: nearest mapped stormwater line - map label 699 \(527 m\)](#)

[H3: mapped action drain \(527 m\)](#)

[H3: mapped main stormwater drain \(527 m\)](#)

[H3: nearest mapped sewage line - GMDA Network \(72.6 m\)](#)

[H3: open/green receptor or park - PARK; storage 1,372 m³ \(34.1 m\)](#)

[H3: MCG park - DLF City Phase 1; ward 1 \(244 m\)](#)

[H3: MCG pond - Nathupur Pond \(1,566 m\)](#)

[H3: MCG green-belt lowering area - Proposed \(103 m\)](#)

[H3: rainwater-harvesting/recharge point - Govt.Sr. Sec. School Chakkarpur \(recorded as functional\) \(503 m\)](#)

[H3: groundwater recharge screening area - PARK; field screening area \(34.1 m\)](#)

[H3: nearest STP/treatment point - MICRO-STP SIKANDARPUR JOHAD; capacity 0.10 MLD \(682 m\)](#)

[H3: nearest manhole/inlet \(275 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.47685, 77.09476
Water concern	maximum modelled depth 0.90 m; average within 50 m 0.60 m; water remains above 15 cm for 10.7 h.
Nearest stormwater drain	map label 699 (storm) near Sikanderpur entry from Bristol chowk is 527 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 72.6 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Locate nearest visible inlet; plan temporary pump route if gravity flow is absent.
Before monsoon	Inspect and desilt map label 699 (storm) near Sikanderpur entry from Bristol chowk (527 m) if silt/choking is seen.
Escalate if	Escalate if no working inlet is found or the temporary pump route cannot reach a safe drain/open area.

2. Source

☐ MCG record	☒ Model-selected point
-------------------------------------	--

3. Field Priority Level

☐ LOW	☐ MEDIUM	☐ HIGH	☒ VERY HIGH
------------------------------	---------------------------------	-------------------------------	---

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	1,693 m ³	July 2025 rain
Time water remains above 15 cm	hours	10.7	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	0.90 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

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 699 (storm) near Sikanderpur entry from Bristol chowk is about 527 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 72.6 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 699 (storm) near Sikanderpur entry from Bristol chowk is about 527 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 699 (storm) near Sikanderpur entry from Bristol chowk. 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 map label 699 (storm) near Sikanderpur entry from Bristol chowk (527 m) or a verified open/green area.	235 L/s for 2-hour clearing; 118 L/s for 4-hour clearing; confirm pump head and hose route at H3.
2	Alternate discharge check for H3	Check a second safe discharge route from H3 to a storm drain/open area if map label 699 (storm) near Sikanderpur entry from Bristol chowk (527 m) cannot receive flow.	Use only if site access and discharge permission are clear for H3.
3	Gravity route to map label 699 (storm) near Sikanderpur entry from Bristol chowk (527 m)	Use gravity only if water from H3 can visibly enter map label 699 (storm) near Sikanderpur entry from Bristol chowk (527 m) after inlet and drain-level check.	No pump needed only if flow into map label 699 (storm) near Sikanderpur entry from Bristol chowk (527 m) is confirmed at site.

e. New Drain or Inlet Decision

For H3, screen temporary pump to within 34.1 m; storage about 1,372 m³; time-to-fill about 520.7 min under local 50 m volume-rate estimate. 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 699 (storm) near Sikanderpur entry from Bristol chowk is 527 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: PARK; distance 34.1 m; possible temporary storage 1,372 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 1,372 m³; 521 min. Check slope, access, permission and overflow route.

6. Site Visit Checklist for H3

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H3: 28.47685, 77.09476
Nearest drain/trunk visible	☐	☐	map label 699 (storm) near Sikanderpur entry from Bristal chowk (527 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	☐	☐	Locate nearest visible inlet; plan temporary pump route if gravity flow is absent.
Silt visible in drain	☐	☐	Check map label 699 (storm) near Sikanderpur entry from Bristal chowk (527 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 72.6 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready because mapped drain/trunk is 527 m away; estimated 2 h pump need is about 235 L/s.
Road/access safety checked	☐	☐	78 m from Sikandarpur Underpass (secondary)
Photos taken and attached	☐	☐	Photo label should include H3.
Needs escalation to senior engineer	☐	☐	Escalate if no working inlet is found or the temporary pump route cannot reach a safe drain/open area.

7. Field Decision Box for H3

Decision	Select	Field note
Clean inlet/blockage immediately	☐	Locate nearest visible inlet; plan temporary pump route if gravity flow is absent.
Inspect/desilt stormwater drain	☐	Inspect and desilt map label 699 (storm) near Sikanderpur entry from Bristol chowk (527 m) if silt/choking is seen.
Survey a new roadside connection	☐	H3: map label 699 (storm) near Sikanderpur entry from Bristol chowk is 527 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 because mapped drain/trunk is 527 m away; estimated 2 h pump need is about 235 L/s.
Escalate or restrict access	☐	Escalate if no working inlet is found or the temporary pump route cannot reach a safe drain/open area.