

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

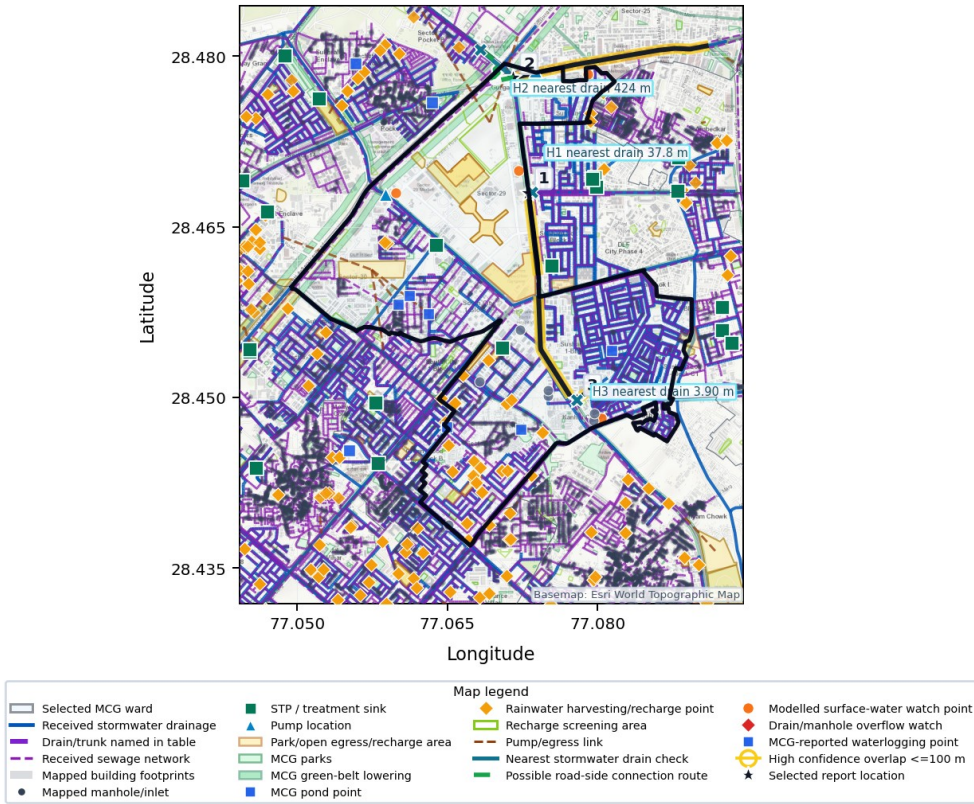
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
24	6	14
Ward Name / Area Covered	Beverly park; Essel Tower(Sushant Lok I); Jalvayu Vihar; Kanhai Village; Moti Vihar; Saini Khera; Sector 29; Sector 30; Sector 44; Sector 45; Sushant Lok 1 C Block; Silokhra; South City 1; Vijay Vihar	
Zone	Zone VIII	
Division	Zone VIII	
Assigned JE	Vinay Verma HKRN 9971070036 Devender JE 9821395266	
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	13 mapped MCG work-status segments overlap this ward; 13 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	Smt. Aarti Yadav BJP 9899290075
Executive Engineer (EE)	Sh. Parveen Raghav, EE, 9999716115
Assistant Engineer (AE)	Sh. Sumit Kumar, AE, 9467241646
JE Development	Vinay Verma HKRN 9971070036 Devender JE 9821395266
JE Enforcement	Himanshu Rao 9821395268
JE Horticulture	Himanshu Rao 9821395268
JE Electrical	Devender 9999397898

Ward Action Map

Ward 24: 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 10,673 stormwater line segments, 24,543 sewage line segments, 4,387 manhole/inlet points, 33 STP/treatment points, 584 MCG park polygons, 6 pond points, 184 green-belt lowering areas and 547 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Near Camera Museum, Village-Chakkarpur	maximum modelled depth 0.65 m; average within 50 m 0.50 m; water remains above 15 cm for 6.2 h.	mapped stormwater drain near Near Camera Museum, Village-Chakkarpur is 37.8 m away. The mapped roadside option is 74.7 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Indian oil service road sector 18	maximum modelled depth 0.39 m; average within 50 m 0.20 m; water remains above 15 cm for 11.9 h.	map label SWD_v1_19717 (storm) near Indian oil service road sector 18 is 424 m away. The mapped roadside option is 668 m long and is not yet field-approved.	Check roadside overflow point; clear inlet and manage traffic.
H3	Gulab Park road near H. No. 336 sushant lok,	maximum modelled depth 0.52 m; average within 50 m 0.20 m; water remains above 15 cm for 9.2 h.	mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, is 3.90 m away. The mapped roadside option is 13.4 m long and is not yet field-approved.	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	Gulab Park road near H. No. 336 sushant lok,	28.45415	77.08142	0.06 m; above 15 cm for 5 min	Confirm at this location
R0 2	MCG	Near govt school Kanhai	28.44723	77.07235	0.34 m; above 15 cm for 71 min	Confirm at this location
R0 3	MCG	Near H. No. 1637 Sector-45,	28.44740	77.06497	0.20 m; above 15 cm for 62 min	Confirm at this location
R0 4	MCG	Silokhera village road	28.45821	77.06007	0.10 m; above 15 cm for 15 min	Confirm at this location
R0 5	MCG	C-Block near H. No. C-111 South City-I	28.45898	77.06117	0.12 m; above 15 cm for 46 min	Confirm at this location
R0 6	MCG	South City Main market road	28.45738	77.06315	0.41 m; above 15 cm for 61 min	Confirm at this location

No.	Source	Location	Lat	Lon	Expected water	How to use this point
M0 1	Overflow watch	Near Camera Museum, Village-Chakkarpur	28.46801	77.07309	0.65 m; above 15 cm for 6.2 h	Confirm at this location
M0 2	Overflow watch	Indian oil service road sector 18	28.47811	77.07160	0.39 m; above 15 cm for 11.9 h	Confirm at this location
M0 3	Overflow watch	Gulab Park road near H. No. 336 sushant lok,	28.44983	77.07797	0.52 m; above 15 cm for 9.2 h	Confirm at this location
M0 4	Overflow watch	Near H. No. 1637 Sector-45,	28.45144	77.06819	0.80 m; above 15 cm for 8.6 h	Confirm at this location
M0 5	Overflow watch	Sector 46	28.43877	77.06513	0.33 m; above 15 cm for 8.9 h	Confirm at this location
M0 6	Overflow watch	Gulab Park road near H. No. 336 sushant lok,	28.44801	77.07961	0.41 m; above 15 cm for 11.9 h	Confirm at this location
M0 7	Overflow watch	Near govt school Kanhai	28.45012	77.07505	0.73 m; above 15 cm for 10.1 h	Confirm at this location
M0 8	Model depth	IDC Sec 16	28.46797	77.05983	0.84 m; above 15 cm for 9.7 h	Confirm at this location
M0 9	Model depth	A-1065 lane, A-Block, Sushant Lok-1	28.47844	77.07900	1.07 m; above 15 cm for 11.6 h	Confirm at this location
M1 0	Model depth	A-1065 lane, A-Block, Sushant Lok-1	28.46992	77.07209	1.11 m; above 15 cm for 9.3 h	Confirm at this location
M1 1	Overflow watch	Near govt school Kanhai	28.45062	77.07509	0.54 m; above 15 cm for 5.4 h	Confirm at this location
M1 2	Overflow watch	Gulab Park road near H. No. 336 sushant lok,	28.44862	77.07964	0.30 m; above 15 cm for 5.2 h	Confirm at this location
M1 3	Model depth	Gulab Park road near H. No. 336 sushant lok,	28.44815	77.08040	1.07 m; above 15 cm for 10.2 h	Confirm at this location
M1 4	Overflow watch	South City Main market road	28.45597	77.07227	0.59 m; above 15 cm for 7.7 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Near Camera Museum, Village-Chakkarpur
Latitude / Longitude	28.46801, 77.07309
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 \(37.8 m\)](#)

[H1: nearest mapped stormwater line - map label 700 \(0.00 m\)](#)

[H1: mapped action drain \(0.00 m\)](#)

[H1: mapped main stormwater drain \(0.00 m\)](#)

[H1: nearest mapped sewage line - GMDA Network \(7.00 m\)](#)

[H1: possible roadside connection route](#)

[H1: mapped pump - Iffco Chowk, NMT; capacity 11.7 L/s \(1,185 m\)](#)

[H1: open/green receptor or park - HUDA Park; storage 17,172 m³ \(275 m\)](#)

[H1: MCG park - B-Block H.No- 658 & 649; ward 22 \(40.3 m\)](#)

[H1: MCG pond - Sukhrali Village Pond \(1,291 m\)](#)

[H1: MCG green-belt lowering area - Existing 2 \(12.6 m\)](#)

[H1: rainwater-harvesting/recharge point - Housing Board Near By Tubewell No.-6 \(recorded as functional\) \(772 m\)](#)

[H1: groundwater recharge screening area - HUDA Park; field screening area \(275 m\)](#)

[H1: nearest STP/treatment point - OPPOSITE H.NO. 1075, A BLOCK SUSHANT LOK-1 \(641 m\)](#)

[H1: nearest manhole/inlet \(396 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46801, 77.07309
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Water concern	maximum modelled depth 0.65 m; average within 50 m 0.50 m; water remains above 15 cm for 6.2 h.
Nearest stormwater drain	mapped stormwater drain near Near Camera Museum, Village-Chakkarpur is 37.8 m away. The mapped roadside option is 74.7 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 74.7 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 9.80 m and 4.10 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 7.00 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 Near Camera Museum, Village-Chakkarpur (37.8 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	3,152 m ³	July 2025 rain
Time water remains above 15 cm	hours	6.2	July 2025 rain
Time to exceed 15 cm after rain starts	minutes	21	July 2025 rain
Maximum depth at this point	m	0.65 m	July 2025 rain
Average depth within 50 m	m	0.50 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 Near Camera Museum, Village-Chakkarpur is about 37.8 m away and the mapped roadside option is about 74.7 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 7.00 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 74.7 m of roadside connection to mapped stormwater drain near Near Camera Museum, Village-Chakkarpur, which is 37.8 m away directly. Before sanctioning work, measure the source and receiving-drain levels, confirm continuous fall toward the drain, mark utility crossings and check that the receiving drain can accept the added flow. Do not construct if any one of these checks fails.

c. When to Desilt

Inspect the inlet, first upstream access point and first downstream access point leading to mapped stormwater drain near Near Camera Museum, Village-Chakkarpur. 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: Iffco Chowk, NMT; capacity 11.7 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 (7.00 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Near Camera Museum, Village-Chakkarpur (37.8 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to mapped stormwater drain near Near Camera Museum, Village-Chakkarpur (37.8 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Near Camera Museum, Village-Chakkarpur (37.8 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Near Camera Museum, Village-Chakkarpur (37.8 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, nearest main stormwater drain is 0 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 74.7 m roadside option to mapped stormwater drain near Near Camera Museum, Village-Chakkarpur, which is 37.8 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: HUDA Park; distance 275 m; possible temporary storage 17,172 m³; class priority. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: HUDA Park; possible storage 17,172 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: 28.46801, 77.07309
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Near Camera Museum, Village-Chakkarpur (37.8 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 74.7 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 9.80 m and 4.10 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 Near Camera Museum, Village-Chakkarpur (37.8 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 7.00 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	☐	☐	6 m from August Kranti Marg (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 Near Camera Museum, Village-Chakkarpur (37.8 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 74.7 m roadside option to mapped stormwater drain near Near Camera Museum, Village-Chakkarpur, which is 37.8 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	Indian oil service road sector 18
Latitude / Longitude	28.47811, 77.07160
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 - map label SWD v1 19717 \(424 m\)](#)

[H2: nearest mapped stormwater line - map label 473 \(0.00 m\)](#)

[H2: mapped action drain \(0.00 m\)](#)

[H2: mapped main stormwater drain \(0.00 m\)](#)

[H2: nearest mapped sewage line - GMDA Network \(20.0 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - Iffco Chowk, NMT; capacity 11.7 L/s \(227 m\)](#)

[H2: open/green receptor or park \(764 m\)](#)

[H2: MCG park - DLF City Phase 2; ward 2 \(166 m\)](#)

[H2: MCG pond - Sukhrali Village Pond \(834 m\)](#)

[H2: MCG green-belt lowering area - Existing 2 \(11.9 m\)](#)

[H2: rainwater-harvesting/recharge point - NEAR MATREE COMMUNITY CENTRE ,BLOCK B \(612 m\)](#)

[H2: groundwater recharge screening area \(266 m\)](#)

[H2: nearest STP/treatment point - OPPOSITE H.NO. 1075, A BLOCK SUSHANT LOK-1 \(1,259 m\)](#)

[H2: nearest manhole/inlet \(459 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.47811, 77.07160
Water concern	maximum modelled depth 0.39 m; average within 50 m 0.20 m; water remains above 15 cm for 11.9 h.

Nearest stormwater drain	map label SWD_v1_19717 (storm) near Indian oil service road sector 18 is 424 m away. The mapped roadside option is 668 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 668 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 4.30 m and 5.40 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 20.0 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check roadside overflow point; clear inlet and manage traffic.
Before monsoon	Inspect and desilt map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 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	m³	1,289 m³	July 2025 rain
Time water remains above 15 cm	hours	11.9	July 2025 rain
Time to exceed 15 cm after rain starts	hours	8.4	July 2025 rain
Maximum depth at this point	m	0.39 m	July 2025 rain
Average depth within 50 m	m	0.20 m	July 2025 rain
Maximum modelled flow speed	m/s	0.02 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: map label SWD_v1_19717 (storm) near Indian oil service road sector 18 is about 424 m away and the mapped roadside option is about 668 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 20.0 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 668 m of roadside connection to map label SWD_v1_19717 (storm) near Indian oil service road sector 18, which is 424 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 map label SWD_v1_19717 (storm) near Indian oil service road sector 18. 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: Iffco Chowk, NMT; capacity 11.7 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 (20.0 m from H2); check safe storm drain/open area after checking route to map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 m)	Use gravity only if water from H2 can visibly enter map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 m) after inlet and drain-level check.	No pump needed only if flow into map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, nearest main stormwater drain is 0 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 668 m roadside option to map label SWD_v1_19717 (storm) near Indian oil service road sector 18, which is 424 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 764 m; possible temporary storage 2,312 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 2,312 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: 28.47811, 77.07160
Nearest drain/trunk visible	☐	☐	map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 668 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 4.30 m and 5.40 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 roadside overflow point; clear inlet and manage traffic.
Silt visible in drain	☐	☐	Check map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 20.0 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	☐	☐	2 m from Mehrauli Gurgaon 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 roadside overflow point; clear inlet and manage traffic.
Inspect/desilt stormwater drain	[]	Inspect and desilt map label SWD_v1_19717 (storm) near Indian oil service road sector 18 (424 m) if silt/choking is seen.
Survey a new roadside connection	[]	H2: survey the mapped 668 m roadside option to map label SWD_v1_19717 (storm) near Indian oil service road sector 18, which is 424 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	Gulab Park road near H. No. 336 sushant lok,
Latitude / Longitude	28.44983, 77.07797
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 \(3.90 m\)](#)

[H3: nearest mapped stormwater line \(2.00 m\)](#)

[H3: mapped action drain - map label SWD-LINE-2574 \(2.00 m\)](#)

[H3: mapped main stormwater drain \(71.9 m\)](#)

[H3: nearest mapped sewage line \(1.70 m\)](#)

[H3: possible roadside connection route](#)

[H3: open/green receptor or park \(639 m\)](#)

[H3: MCG park - Kanhai-I park; ward 24 \(144 m\)](#)

[H3: MCG green-belt lowering area - Existing 2 \(15.0 m\)](#)

[H3: rainwater-harvesting/recharge point - GSSS KANHAI \(465 m\)](#)

[H3: groundwater recharge screening area \(7.10 m\)](#)

[H3: nearest STP/treatment point - MICRO-STP SECTOR-44 NURSURY \(884 m\)](#)

[H3: nearest manhole/inlet \(40.4 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.44983, 77.07797
Water concern	maximum modelled depth 0.52 m; average within 50 m 0.20 m; water remains above 15 cm for 9.2 h.
Nearest stormwater drain	mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, is 3.90 m away. The mapped roadside option is 13.4 m long and is not yet field-approved.

Roadside connection checks	Mapped roadside option: approximately 13.4 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 8.60 m and 4.80 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 1.70 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 Gulab Park road near H. No. 336 sushant lok, (3.90 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	m ³	1,979 m ³	July 2025 rain
Time water remains above 15 cm	hours	9.2	July 2025 rain
Time to exceed 15 cm after rain starts	minutes	48	July 2025 rain
Maximum depth at this point	m	0.52 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: mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, is about 3.90 m away and the mapped roadside option is about 13.4 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 1.70 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 13.4 m of roadside connection to mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok,, which is 3.90 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 Gulab Park road near H. No. 336 sushant lok,. 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 Gulab Park road near H. No. 336 sushant lok, (3.90 m) or a verified open/green area; do not use the nearby sewage line (1.70 m from H3) as discharge.	275 L/s for 2-hour clearing; 137 L/s for 4-hour clearing; confirm pump head and hose route at H3.
2	Alternate discharge check for H3	Do not discharge to the nearby sewage line (1.70 m from H3); check safe storm drain/open area after checking route to mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, (3.90 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, (3.90 m)	Use gravity only if water from H3 can visibly enter mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, (3.90 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, (3.90 m) is confirmed at site.

e. New Drain or Inlet Decision

For H3, inspect the nearest stormwater drain, inlet blockage, silt and downstream continuity. Use a pump route only if flow into mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, (3.90 m) cannot be restored. H3: survey the mapped 13.4 m roadside option to mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok,, which is 3.90 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 639 m; possible temporary storage 2,088 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 2,088 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: 28.44983, 77.07797
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, (3.90 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 13.4 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 8.60 m and 4.80 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 Gulab Park road near H. No. 336 sushant lok, (3.90 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 1.70 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; estimated 2 h pump need is about 275 L/s.
Road/access safety checked	☐	☐	19 m from secondary_link
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 mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok, (3.90 m) if silt/choking is seen.
Survey a new roadside connection	[]	H3: survey the mapped 13.4 m roadside option to mapped stormwater drain near Gulab Park road near H. No. 336 sushant lok,, which is 3.90 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 275 L/s.
Escalate or restrict access	[]	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.