

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

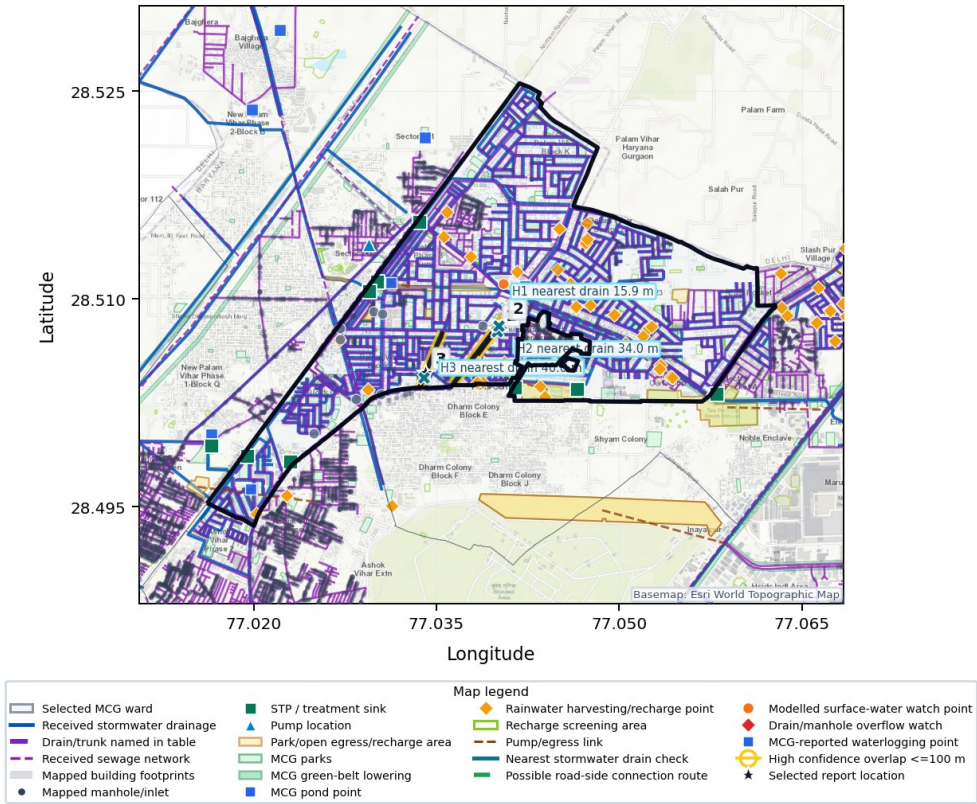
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
4	4	13
Ward Name / Area Covered	Chauma Khera Village; Sector 1 Palam Vihar; Sector 2(Palam Vihar); Sector 23; Sector 23A; Sector 3 (Palam Vihar)	
Zone	Zone V	
Division	Zone V	
Assigned JE	Arif Khan 9899907495	
Report Date	29 July 2026	
Approved 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	9 mapped MCG work-status segments overlap this ward; 9 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 Pradeep Kumar Padam Indp 9811342552
Executive Engineer (EE)	Sh. Parveen Raghav, EE, 9999716115
Assistant Engineer (AE)	Sh. Naim Hussain, AE, 9821395235
JE Development	Arif Khan 9899907495
JE Enforcement	Ankit Kapoor 8802588667
JE Horticulture	Gulshan Yadav 9821395258
JE Electrical	Devender 9999397898

Ward Action Map

Ward 4: 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 5,474 stormwater line segments, 13,198 sewage line segments, 2,499 manhole/inlet points, 14 STP/treatment points, 302 MCG park polygons, 7 pond points, 89 green-belt lowering areas and 180 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	A block Plam vihar near Macdy	maximum modelled depth 0.40 m; average within 50 m 0.30 m; water remains above 15 cm for 9.7 h.	mapped stormwater drain near A block Plam vihar near Macdy is 15.9 m away. The mapped roadside option is 21.0 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Sec 23 near Ansal Plaza	maximum modelled depth 0.48 m; average within 50 m 0.20 m; water remains above 15 cm for 10.8 h.	mapped stormwater drain near Sec 23 near Ansal Plaza is 34.0 m away. The mapped roadside option is 50.2 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	A block Plam vihar near Macdy	maximum modelled depth 0.58 m; average within 50 m 0.30 m; water remains above 15 cm for 10.9 h.	mapped stormwater drain near A block Plam vihar near Macdy is 40.0 m away. The mapped roadside option is 52.4 m long and is not yet field-approved.	Check nearby manhole for overflow and confirm trunk drain level.

Complete Ward Location Register

No.	Source	Location	Lat	Lon	Expected water	How to use this point
R0 1	MCG	A block Plam vihar near Macdy	28.50499	77.03767	0.06 m; above 15 cm for 1 min	Confirm at this location
R0 2	MCG	Palam Vihar C 2 Block	28.49628	77.01974	0.05 m; above 15 cm for 1 min	Confirm at this location
R0 3	MCG	Palam Vihar D Block near Mother dairy	28.51115	77.03129	0.31 m; above 15 cm for 29 min	Confirm at this location
R0 4	MCG	Sec 23 near Ansal Plaza	28.51093	77.04226	0.49 m; above 15 cm for 43 min	Confirm at this location
M0 1	Overflow watch	A block Plam vihar near Macdy	28.50774	77.03988	0.40 m; above 15 cm for 9.7 h	Confirm at this location
M0 2	Overflow watch	Sec 23 near Ansal Plaza	28.50823	77.04041	0.48 m; above 15 cm for 10.8 h	Confirm at this location

No.	Source	Location	Lat	Lon	Expected water	How to use this point
M03	Overflow watch	A block Plam vihar near Macdy	28.50464	77.03411	0.58 m; above 15 cm for 10.9 h	Confirm at this location
M04	Overflow watch	A Block, Ashok Vihar, Phase-III	28.50274	77.02843	0.59 m; above 15 cm for 5.5 h	Confirm at this location
M05	Overflow watch	Palam Vihar D Block near Mother dairy	28.50707	77.02707	0.36 m; above 15 cm for 7.3 h	Confirm at this location
M06	Overflow watch	Palam Vihar D Block near Mother dairy	28.50788	77.02711	0.42 m; above 15 cm for 6.3 h	Confirm at this location
M07	Model depth	A block Plam vihar near Macdy	28.50527	77.03895	0.57 m; above 15 cm for 11.3 h	Confirm at this location
M08	Overflow watch	A Block, Ashok Vihar, Phase-III	28.50028	77.02493	0.40 m; above 15 cm for 7.8 h	Confirm at this location
M09	Overflow watch	A block Plam vihar near Macdy	28.50311	77.03043	0.40 m; above 15 cm for 9.5 h	Confirm at this location
M10	Overflow watch	Palam Vihar D Block near Mother dairy	28.50908	77.02985	0.49 m; above 15 cm for 10.8 h	Confirm at this location
M11	Overflow watch	A block Plam vihar near Macdy	28.50806	77.03883	0.41 m; above 15 cm for 4.7 h	Confirm at this location
M12	Overflow watch	Palam Vihar D Block near Mother dairy	28.50889	77.03054	0.79 m; above 15 cm for 10.7 h	Confirm at this location
M13	Model depth	Sec 23 near Ansal Plaza	28.51110	77.04051	0.53 m; above 15 cm for 10.3 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	A block Plam vihar near Macdy
Latitude / Longitude	28.50774, 77.03988

Open location	Use the link below to open this point on Google Maps.
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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 \(15.9 m\)](#)

[H1: nearest mapped stormwater line \(0.00 m\)](#)

[H1: mapped action drain - map label SWD-LINE-422 \(0.00 m\)](#)

[H1: mapped main stormwater drain \(9.10 m\)](#)

[H1: nearest mapped sewage line - GMDA Network \(5.90 m\)](#)

[H1: possible roadside connection route](#)

[H1: mapped pump - D-block behind Red Rose Public School; capacity 11.7 L/s \(1,069 m\)](#)

[H1: open/green receptor or park \(317 m\)](#)

[H1: MCG park - Sector 2&3 Palam Vihar; ward 4 \(43.7 m\)](#)

[H1: MCG pond - Choma Village Pond \(1,647 m\)](#)

[H1: MCG green-belt lowering area - Existing 2 \(0.00 m\)](#)

[H1: rainwater-harvesting/recharge point - GSSS CARTERPURI \(266 m\)](#)

[H1: groundwater recharge screening area \(178 m\)](#)

[H1: nearest STP/treatment point - MICRO STP SECTOR-23A \(489 m\)](#)

[H1: nearest manhole/inlet \(44.2 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.50774, 77.03988
Water concern	maximum modelled depth 0.40 m; average within 50 m 0.30 m; water remains above 15 cm for 9.7 h.
Nearest stormwater drain	mapped stormwater drain near A block Palam vihar near Macdy is 15.9 m away. The mapped roadside option is 21.0 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 21.0 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 8.20 m and 12.8 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.

Nearby MCG sewage line	MCG sewage line is about 5.90 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 A block Plam vihar near Macdy (15.9 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
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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	2,171 m ³	July 2025 rain
Time water remains above 15 cm	hours	9.7	July 2025 rain
Time to exceed 15 cm after rain starts	hours	3.6	July 2025 rain
Maximum depth at this point	m	0.40 m	July 2025 rain
Average depth within 50 m	m	0.30 m	July 2025 rain
Maximum modelled flow speed	m/s	0.00 m/s	July 2025 rain

H1: record observed water depth and time, then photograph the inlet and receiving-drain level before work starts.

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: mapped stormwater drain near A block Plam vihar near Macdy is about 15.9 m away and the mapped roadside option is about 21.0 m long. Open the inlet and receiving-drain access point, then use a clean-water flow test or observe the next rainfall to confirm that water reaches the drain without backing up. Sewage check: an MCG sewage line is about 5.90 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 21.0 m of roadside connection to mapped stormwater drain near A block Plam vihar near Macdy, which is 15.9 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 A block Plam vihar near Macdy. 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: D-block behind Red Rose Public School; capacity 11.7 L/s; likely discharge: Leg 1.	Confirm at site
2	Alternate discharge check for H1	Do not discharge to the nearby sewage line (5.90 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near A block Plam vihar near Macdy (15.9 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to mapped stormwater drain near A block Plam vihar near Macdy (15.9 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near A block Plam vihar near Macdy (15.9 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near A block Plam vihar near Macdy (15.9 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, nearest main stormwater drain is 9 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 21.0 m roadside option to mapped stormwater drain near A block Plam vihar near Macdy, which is 15.9 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 317 m; possible temporary storage 2,161 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 2,161 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: 28.50774, 77.03988
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near A block Plam vihar near Macdy (15.9 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 21.0 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 8.20 m and 12.8 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 A block Plam vihar near Macdy (15.9 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 5.90 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	☐	☐	7 m from Carterpuri 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 A block Plam vihar near Macdy (15.9 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 21.0 m roadside option to mapped stormwater drain near A block Plam vihar near Macdy, which is 15.9 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; 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	Sec 23 near Ansal Plaza
Latitude / Longitude	28.50823, 77.04041
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 \(34.0 m\)](#)

[H2: nearest mapped stormwater line \(8.50 m\)](#)

[H2: mapped action drain - map label SWD-LINE-422 \(8.50 m\)](#)

[H2: mapped main stormwater drain \(17.2 m\)](#)

[H2: nearest mapped sewage line \(0.10 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - D-block behind Red Rose Public School; capacity 11.7 L/s \(1,104 m\)](#)

[H2: open/green receptor or park \(274 m\)](#)

[H2: MCG park - Sector 2&3 Palam Vihar; ward 4 \(54.1 m\)](#)

[H2: MCG pond - Choma Vilage Pond \(1,616 m\)](#)

[H2: MCG green-belt lowering area - Existing 2 \(6.40 m\)](#)

[H2: rainwater-harvesting/recharge point - GSSS CARTERPURI \(312 m\)](#)

[H2: groundwater recharge screening area \(249 m\)](#)

[H2: nearest STP/treatment point - MICRO STP SECTOR-23A \(528 m\)](#)

[H2: nearest manhole/inlet \(4.00 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.50823, 77.04041
Water concern	maximum modelled depth 0.48 m; average within 50 m 0.20 m; water remains above 15 cm for 10.8 h.

Nearest stormwater drain	mapped stormwater drain near Sec 23 near Ansal Plaza is 34.0 m away. The mapped roadside option is 50.2 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 50.2 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 26.2 m and 7.40 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 at this point. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check water backing up at the manhole; verify trunk drain level before pumping.
Before monsoon	Inspect and desilt mapped stormwater drain near Sec 23 near Ansal Plaza (34.0 m) if silt/choking is seen.
Escalate if	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

2. Source

☐ MCG record	☒ Model-selected point
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3. Field Priority Level

☐ LOW	☐ MEDIUM	☐ HIGH	☒ VERY HIGH
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4. Flood Timing and Depth

At H2, record observed water depth, time, inlet condition and receiving-drain level. Compare these with the model estimate before work begins.

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m³	1,596 m³	July 2025 rain
Time water remains above 15 cm	hours	10.8	July 2025 rain
Time to exceed 15 cm after rain starts	hours	8.7	July 2025 rain
Maximum depth at this point	m	0.48 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

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 Sec 23 near Ansal Plaza is about 34.0 m away and the mapped roadside option is about 50.2 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 at this point. Inspect the nearest manhole for rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

Mapped option: approximately 50.2 m of roadside connection to mapped stormwater drain near Sec 23 near Ansal Plaza, which is 34.0 m away directly. Before sanctioning work, measure the source and receiving-drain levels, confirm continuous fall toward the drain, mark utility crossings and check that the receiving drain can accept the added flow. Do not construct if any one of these checks fails.

c. When to Desilt

Inspect the inlet, first upstream access point and first downstream access point leading to mapped stormwater drain near Sec 23 near Ansal Plaza. 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: D-block behind Red Rose Public School; capacity 11.7 L/s; likely discharge: Leg 1.	Confirm at site
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (0.10 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Sec 23 near Ansal Plaza (34.0 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Sec 23 near Ansal Plaza (34.0 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Sec 23 near Ansal Plaza (34.0 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Sec 23 near Ansal Plaza (34.0 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, nearest main stormwater drain is 17 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 50.2 m roadside option to mapped stormwater drain near Sec 23 near Ansal Plaza, which is 34.0 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.

f. Rainwater Harvesting Check

Nearby open/receptor area: distance 274 m; possible temporary storage 2,161 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 2,161 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: 28.50823, 77.04041
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Sec 23 near Ansal Plaza (34.0 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 50.2 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 26.2 m and 7.40 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 water backing up at the manhole; verify trunk drain level before pumping.
Silt visible in drain	☐	☐	Check mapped stormwater drain near Sec 23 near Ansal Plaza (34.0 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is at this point. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only after checking manhole/trunk level; pump capacity to be checked at site.
Road/access safety checked	☐	☐	20 m from Carterpuri 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 Sec 23 near Ansal Plaza (34.0 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 50.2 m roadside option to mapped stormwater drain near Sec 23 near Ansal Plaza, which is 34.0 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.
Use a temporary pump	☐	Keep pump ready only after checking manhole/trunk level; pump capacity to be checked at site.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

HOTSPOT 3

1. Hotspot Identification

Hotspot Name	A block Plam vihar near Macdy
Latitude / Longitude	28.50464, 77.03411
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 \(40.0 m\)](#)

[H3: nearest mapped stormwater line \(0.00 m\)](#)

[H3: mapped action drain - map label SWD-LINE-596 \(0.00 m\)](#)

[H3: mapped main stormwater drain \(237 m\)](#)

[H3: nearest mapped sewage line \(12.0 m\)](#)

[H3: possible roadside connection route](#)

[H3: mapped pump - D-block behind Red Rose Public School; capacity 11.7 L/s \(805 m\)](#)

[H3: open/green receptor or park - PARK; storage 1,259 m³ \(441 m\)](#)

[H3: MCG park - Sector 2&3 Palam Vihar; ward 4 \(102 m\)](#)

[H3: MCG pond - Sarai Alawardi Pond \(1,793 m\)](#)

[H3: MCG green-belt lowering area - Master plan \(218 m\)](#)

[H3: rainwater-harvesting/recharge point - GREEN BELT NO 2 SEC 23 A WARD NO 4 \(422 m\)](#)

[H3: groundwater recharge screening area - PARK; field-check \(112 m\)](#)

[H3: nearest STP/treatment point - MICRO STP SECTOR-23A \(734 m\)](#)

[H3: nearest manhole/inlet \(53.2 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.50464, 77.03411
Water concern	maximum modelled depth 0.58 m; average within 50 m 0.30 m; water remains above 15 cm for 10.9 h.

Nearest stormwater drain	mapped stormwater drain near A block Plam vihar near Macdy is 40.0 m away. The mapped roadside option is 52.4 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 52.4 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 44.7 m and 7.60 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Nearby MCG sewage line	MCG sewage line is about 12.0 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check nearby manhole for overflow and confirm trunk drain level.
Before monsoon	Inspect and desilt mapped stormwater drain near A block Plam vihar near Macdy (40.0 m) if silt/choking is seen.
Escalate if	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

2. Source

☐ MCG record	☒ Model-selected point
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3. Field Priority Level

☐ LOW	☐ MEDIUM	☐ HIGH	☒ VERY HIGH
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4. Flood Timing and Depth

At H3, record observed water depth, time, inlet condition and receiving-drain level. Compare these with the model estimate before work begins.

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m³	1,566 m³	July 2025 rain
Time water remains above 15 cm	hours	10.9	July 2025 rain
Time to exceed 15 cm after rain starts	hours	4.2	July 2025 rain
Maximum depth at this point	m	0.58 m	July 2025 rain
Average depth within 50 m	m	0.30 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 A block Plam vihar near Macdy is about 40.0 m away and the mapped roadside option is about 52.4 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 12.0 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 52.4 m of roadside connection to mapped stormwater drain near A block Plam vihar near Macdy, which is 40.0 m away directly. Before sanctioning work, measure the source and receiving-drain levels, confirm continuous fall toward the drain, mark utility crossings and check that the receiving drain can accept the added flow. Do not construct if any one of these checks fails.

c. When to Desilt

Inspect the inlet, first upstream access point and first downstream access point leading to mapped stormwater drain near A block Plam vihar near Macdy. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H3 / local low point	Nearest mapped pump: D-block behind Red Rose Public School; capacity 11.7 L/s; likely discharge: Leg 1.	Confirm at site
2	Alternate discharge check for H3	Do not discharge to the nearby sewage line (12.0 m from H3); check safe storm drain/open area after checking route to mapped stormwater drain near A block Plam vihar near Macdy (40.0 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to mapped stormwater drain near A block Plam vihar near Macdy (40.0 m)	Use gravity only if water from H3 can visibly enter mapped stormwater drain near A block Plam vihar near Macdy (40.0 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near A block Plam vihar near Macdy (40.0 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 A block Plam vihar near Macdy (40.0 m) cannot be restored. H3: survey the mapped 52.4 m roadside option to mapped stormwater drain near A block Plam vihar near Macdy, which is 40.0 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.

f. Rainwater Harvesting Check

Nearby open/receptor area: PARK; distance 441 m; possible temporary storage 1,259 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 1,259 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: 28.50464, 77.03411
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near A block Plam vihar near Macdy (40.0 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 52.4 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 44.7 m and 7.60 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Levels at both ends measured	☐	☐	Record source and receiving-drain levels; confirm continuous fall and a lower downstream water level.
Inlet/manhole blockage checked	☐	☐	Check nearby manhole for overflow and confirm trunk drain level.
Silt visible in drain	☐	☐	Check mapped stormwater drain near A block Plam vihar near Macdy (40.0 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 12.0 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	☐	☐	118 m from Carterpuri Road (secondary)
Photos taken and attached	☐	☐	Photo label should include H3.
Needs escalation to senior engineer	☐	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

7. Field Decision Box for H3

Decision	Select	Field note
Clean inlet/blockage immediately	☐	Check nearby manhole for overflow and confirm trunk drain level.
Inspect/desilt stormwater drain	☐	Inspect and desilt mapped stormwater drain near A block Plam vihar near Macdy (40.0 m) if silt/choking is seen.
Survey a new roadside connection	☐	H3: survey the mapped 52.4 m roadside option to mapped stormwater drain near A block Plam vihar near Macdy, which is 40.0 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.
Use a temporary pump	☐	Keep pump ready only after checking manhole/trunk level; pump capacity to be checked at site.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.