

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

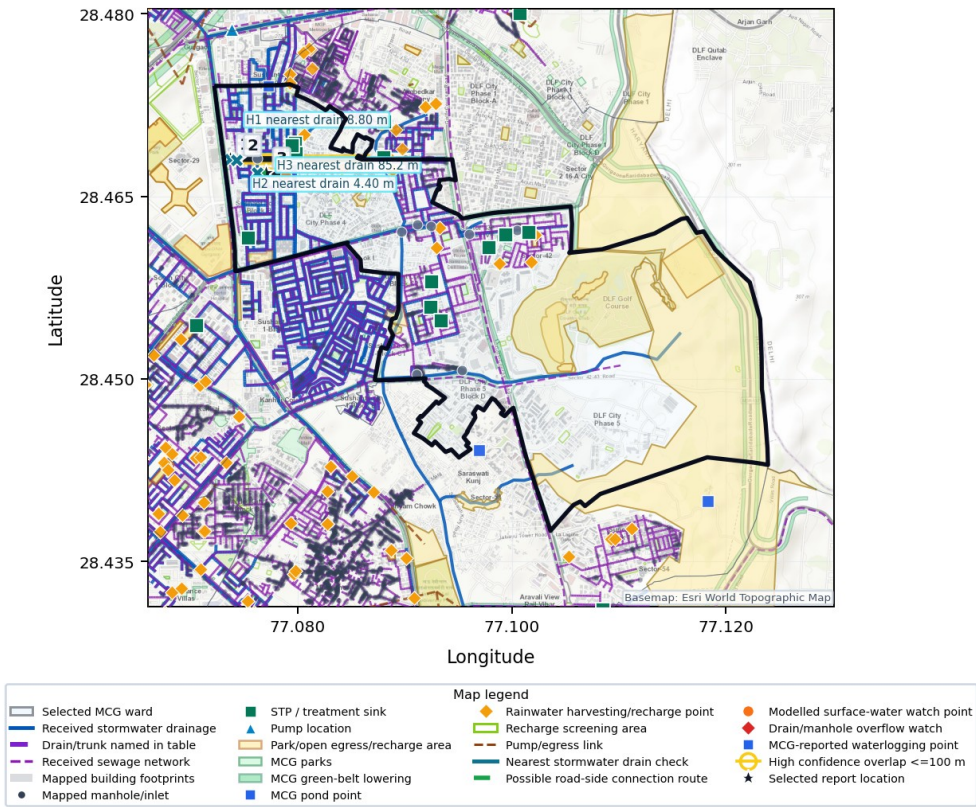
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
22	3	15
Ward Name / Area Covered	DLF City Phase 4; DLF City Phase 5; DLF Phase 4 Chakkarpur; Harijan Colony; Sector 27; Sector 42; Sector 43; Sushant Lok Phase 1 A&B Block	
Zone	Zone VII	
Division	Zone VII	
Assigned JE	Milan Yadav HKRN 8860367476	
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	5 mapped MCG work-status segments overlap this ward; 2 marked completed; 0 marked in progress; 3 other/unspecified. 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 Vikas Yadav BJP 9810439685
Executive Engineer (EE)	Sh. Tushar Yadav, EE, 9818460252
Assistant Engineer (AE)	Sh. Kuldeep Kumar, AE, 9821395241
JE Development	Milan Yadav HKRN 8860367476
JE Enforcement	Himanshu Rao 9821395268
JE Horticulture	Himanshu Rao 9821395268
JE Electrical	Devender 9999397898

Ward Action Map

Ward 22: 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 5,789 stormwater line segments, 13,194 sewage line segments, 2,254 manhole/inlet points, 22 STP/treatment points, 372 MCG park polygons, 4 pond points, 150 green-belt lowering areas and 260 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 0.74 m; average within 50 m 0.40 m; water remains above 15 cm for 11.7 h.	map label 474 (storm) near Near Camera Museum, Village-Chakkarpur is 8.80 m away. The mapped roadside option is 23.8 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Near Camera Museum, Village-Chakkarpur	maximum modelled depth 0.76 m; average within 50 m 0.40 m; water remains above 15 cm for 8.4 h.	map label 474 (storm) near Near Camera Museum, Village-Chakkarpur is 4.40 m away. The mapped roadside option is 7.40 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	Near Camera Museum, Village-Chakkarpur	maximum modelled depth 0.65 m; average within 50 m 0.60 m; water remains above 15 cm for 12.0 h.	map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur is 85.2 m away. The mapped roadside option is 86.1 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	Near Camera Museum, Village-Chakkarpur	28.46815	77.07971	0.19 m; above 15 cm for 23 min	Supported by model within 0 m
R0 2	MCG	A-1065 lane, A-Block, Sushant Lok-1	28.47404	77.07726	0.09 m; above 15 cm for 14 min	Confirm at this location
R0 3	MCG	A-206 lane, A-Block, sushant Lok-1	28.46914	77.07972	0.11 m; above 15 cm for 26 min	Confirm at this location
M0 1	Overflow watch	Near Camera Museum, Village-Chakkarpur	28.46809	77.07367	0.74 m; above 15 cm for 11.7 h	Confirm at this location
M0 2	Overflow watch	Near Camera Museum, Village-Chakkarpur	28.46802	77.07434	0.76 m; above 15 cm for 8.4 h	Confirm at this location

No.	Source	Location	Lat	Lon	Expected water	How to use this point
M0 3	Overflow watch	Near Camera Museum, Village-Chakkarpur	28.46695	77.07706	0.65 m; above 15 cm for 12.0 h	Confirm at this location
M0 4	Overflow watch	Gulab Park road near H. No. 336 sushant lok,	28.45035	77.09109	0.63 m; above 15 cm for 7.6 h	Confirm at this location
M0 5	Overflow watch	Opposite Sheeba Apartment GH-I sector 28	28.46206	77.08972	0.51 m; above 15 cm for 6.3 h	Confirm at this location
M0 6	Overflow watch	Opposite Sheeba Apartment GH-I sector 28	28.46266	77.09117	0.73 m; above 15 cm for 8.2 h	Confirm at this location
M0 7	Overflow watch	Near Camera Museum, Village-Chakkarpur	28.46695	77.07644	0.50 m; above 15 cm for 4.8 h	Confirm at this location
M0 8	Overflow watch	Near Camera Museum, Village-Chakkarpur	28.46809	77.07625	0.37 m; above 15 cm for 10.4 h	Confirm at this location
M0 9	Overflow watch	Wazirabad Dhani chowk	28.45072	77.09536	0.49 m; above 15 cm for 6.7 h	Confirm at this location
M1 0	Overflow watch	Opposite Sheeba Apartment GH-I sector 28	28.46254	77.09242	0.54 m; above 15 cm for 3.7 h	Confirm at this location
M1 1	Model depth	Opposite Sheeba Apartment GH-I sector 28	28.46733	77.08425	1.04 m; above 15 cm for 9.7 h	Confirm at this location
M1 2	Model depth	Near Camera Museum, Village-Chakkarpur	28.46677	77.07893	0.66 m; above 15 cm for 11.3 h	Confirm at this location
M1 3	Overflow watch	Opposite Sheeba Apartment GH-I sector 28	28.46222	77.10048	1.08 m; above 15 cm for 6.3 h	Confirm at this location
M1 4	MCG + model	Near Camera Museum, Village-Chakkarpur	28.46815	77.07971	0.66 m	Supported by MCG report within 0 m
M1 5	Overflow watch	Opposite Sheeba Apartment GH-I sector 28	28.46189	77.09603	0.32 m; above 15 cm for 3.8 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Near Camera Museum, Village-Chakkarpur
Latitude / Longitude	28.46809, 77.07367
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 - map label 474 \(8.80 m\)](#)

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

[H1: mapped action drain - map label SWD-LINE-2059 \(0.00 m\)](#)

[H1: mapped main stormwater drain \(8.80 m\)](#)

[H1: nearest mapped sewage line - GMDA Network \(7.30 m\)](#)

[H1: possible roadside connection route](#)

[H1: mapped pump - Iffco Chowk, NMT; capacity 11.7 L/s \(1,174 m\)](#)

[H1: open/green receptor or park - HUDA Park; storage 17,172 m³ \(324 m\)](#)

[H1: MCG park - B-Block H.No- 658 & 649; ward 22 \(24.3 m\)](#)

[H1: MCG pond - Sukhrali Village Pond \(1,328 m\)](#)

[H1: MCG green-belt lowering area - Proposed \(0.50 m\)](#)

[H1: rainwater-harvesting/recharge point - Housing Board Near By Tubewell No.-6 \(recorded as functional\) \(716 m\)](#)

[H1: groundwater recharge screening area - HUDA Park; field screening area \(324 m\)](#)

[H1: nearest STP/treatment point - OPPOSITE H.NO. 1075, A BLOCK SUSHANT LOK-1 \(584 m\)](#)

[H1: nearest manhole/inlet \(343 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46809, 77.07367
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Water concern	maximum modelled depth 0.74 m; average within 50 m 0.40 m; water remains above 15 cm for 11.7 h.
Nearest stormwater drain	map label 474 (storm) near Near Camera Museum, Village-Chakkarpur is 8.80 m away. The mapped roadside option is 23.8 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 23.8 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 12.7 m and 11.0 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 7.30 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check water backing up at the manhole; verify trunk drain level before pumping.
Before monsoon	Inspect and desilt map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 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	2,676 m ³	July 2025 rain
Time water remains above 15 cm	hours	11.7	July 2025 rain
Time to exceed 15 cm after rain starts	hours	7.9	July 2025 rain
Maximum depth at this point	m	0.74 m	July 2025 rain
Average depth within 50 m	m	0.40 m	July 2025 rain
Maximum modelled flow speed	m/s	0.02 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: map label 474 (storm) near Near Camera Museum, Village-Chakkarpur is about 8.80 m away and the mapped roadside option is about 23.8 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 7.30 m away. Inspect the nearest manhole for rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

Mapped option: approximately 23.8 m of roadside connection to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur, which is 8.80 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 474 (storm) 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 (7.30 m from H1); check safe storm drain/open area after checking route to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 m)	Use gravity only if water from H1 can visibly enter map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 m) after inlet and drain-level check.	No pump needed only if flow into map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 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 23.8 m roadside option to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur, which is 8.80 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 324 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: 28.46809, 77.07367
Nearest drain/trunk visible	☐	☐	map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 23.8 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 12.7 m and 11.0 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 map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 7.30 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only after checking manhole/trunk level; pump capacity to be checked at site.
Road/access safety checked	☐	☐	23 m from Hamilton Court 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 map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (8.80 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 23.8 m roadside option to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur, which is 8.80 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	Near Camera Museum, Village-Chakkarpur
Latitude / Longitude	28.46802, 77.07434
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 474 \(4.40 m\)](#)

[H2: nearest mapped stormwater line - map label 474 \(0.50 m\)](#)

[H2: mapped action drain \(0.50 m\)](#)

[H2: mapped main stormwater drain \(0.50 m\)](#)

[H2: nearest mapped sewage line - GMDA Network \(1.20 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - Iffco Chowk, NMT; capacity 11.7 L/s \(1,184 m\)](#)

[H2: open/green receptor or park - HUDA Park; storage 17,172 m³ \(373 m\)](#)

[H2: MCG park - B-Block H.No- 658 & 649; ward 22 \(42.5 m\)](#)

[H2: MCG pond - Sukhrali Village Pond \(1,384 m\)](#)

[H2: MCG green-belt lowering area - Proposed \(8.70 m\)](#)

[H2: rainwater-harvesting/recharge point - Housing Board Near By Tubewell No.-6 \(recorded as functional\) \(656 m\)](#)

[H2: groundwater recharge screening area - HUDA Park; field screening area \(373 m\)](#)

[H2: nearest STP/treatment point - OPPOSITE H.NO. 1075, A BLOCK SUSHANT LOK-1 \(521 m\)](#)

[H2: nearest manhole/inlet \(295 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46802, 77.07434
Water concern	maximum modelled depth 0.76 m; average within 50 m 0.40 m; water remains above 15 cm for 8.4 h.

Nearest stormwater drain	map label 474 (storm) near Near Camera Museum, Village-Chakkarpur is 4.40 m away. The mapped roadside option is 7.40 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 7.40 m from this point to the receiving stormwater drain. The map follows roads and avoids mapped buildings. The route starts and ends at the nearest road points, about 4.60 m and 2.70 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 1.20 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 map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 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	3,010 m³	July 2025 rain
Time water remains above 15 cm	hours	8.4	July 2025 rain
Time to exceed 15 cm after rain starts	hours	8.3	July 2025 rain
Maximum depth at this point	m	0.76 m	July 2025 rain
Average depth within 50 m	m	0.40 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: map label 474 (storm) near Near Camera Museum, Village-Chakkarpur is about 4.40 m away and the mapped roadside option is about 7.40 m long. Open the inlet and receiving-drain access point,

then use a clean-water flow test or observe the next rainfall to confirm that water reaches the drain without backing up. Sewage check: an MCG sewage line is about 1.20 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 7.40 m of roadside connection to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur, which is 4.40 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 474 (storm) 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	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 (1.20 m from H2); check safe storm drain/open area after checking route to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 m)	Use gravity only if water from H2 can visibly enter map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 m) after inlet and drain-level check.	No pump needed only if flow into map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 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 7.40 m roadside option to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur, which is 4.40 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 373 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 H2

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H2: 28.46802, 77.07434
Nearest drain/trunk visible	☐	☐	map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 7.40 m from this point to the receiving stormwater drain. The map follows roads and avoids mapped buildings. The route starts and ends at the nearest road points, about 4.60 m and 2.70 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 map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 1.20 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; pump capacity to be checked at site.
Road/access safety checked	☐	☐	12 m from Hamilton Court 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 map label 474 (storm) near Near Camera Museum, Village-Chakkarpur (4.40 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 7.40 m roadside option to map label 474 (storm) near Near Camera Museum, Village-Chakkarpur, which is 4.40 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	Near Camera Museum, Village-Chakkarpur
Latitude / Longitude	28.46695, 77.07706
Open location	Use the link below to open this point on Google Maps.

Google Map Links for Hotspot and Assets

Use these links for the field pin, nearby drainage/sewage assets and mapped support assets used in this report.

[H3: hotspot pin](#)

[H3: mapped receiving stormwater drain - map label SWD v1 29140 \(85.2 m\)](#)

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

[H3: mapped action drain - map label SWD-LINE-2137 \(0.10 m\)](#)

[H3: mapped main stormwater drain \(118 m\)](#)

[H3: nearest mapped sewage line \(3.60 m\)](#)

[H3: possible roadside connection route](#)

[H3: mapped pump - Iffco chowk, MG road under pass; capacity 46.7 L/s \(1,339 m\)](#)

[H3: open/green receptor or park - PARK; storage 26,124 m³ \(580 m\)](#)

[H3: MCG park - B-Block H.no 111; ward 22 \(48.5 m\)](#)

[H3: MCG pond - Sukhrali Village Pond \(1,666 m\)](#)

[H3: MCG green-belt lowering area - Proposed \(93.1 m\)](#)

[H3: rainwater-harvesting/recharge point - Housing Board Near By Tubewell No.-6 \(recorded as functional\) \(492 m\)](#)

[H3: groundwater recharge screening area \(384 m\)](#)

[H3: nearest STP/treatment point - GREEN BELT ,NEAR CAMERA MUSEUO \(326 m\)](#)

[H3: nearest manhole/inlet \(233 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46695, 77.07706
Water concern	maximum modelled depth 0.65 m; average within 50 m 0.60 m; water remains above 15 cm for 12.0 h.

Nearest stormwater drain	map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur is 85.2 m away. The mapped roadside option is 86.1 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 86.1 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 85.5 m and 0.60 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Nearby MCG sewage line	MCG sewage line is about 3.60 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 map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 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	1,612 m³	July 2025 rain
Time water remains above 15 cm	hours	12.0	July 2025 rain
Time to exceed 15 cm after rain starts	minutes	14	July 2025 rain
Maximum depth at this point	m	0.65 m	July 2025 rain
Average depth within 50 m	m	0.60 m	July 2025 rain
Maximum modelled flow speed	m/s	0.02 m/s	July 2025 rain

H3: record observed water depth and time, then photograph the inlet and receiving-drain level before work starts.

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur is about 85.2 m away and the mapped roadside option is about 86.1 m long. Open the inlet and receiving-drain

access point, then use a clean-water flow test or observe the next rainfall to confirm that water reaches the drain without backing up. Sewage check: an MCG sewage line is about 3.60 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 86.1 m of roadside connection to map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur, which is 85.2 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_29140 (storm) 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	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 SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m) or a verified open/green area; do not use the nearby sewage line (3.60 m from H3) as discharge.	224 L/s for 2-hour clearing; 112 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 (3.60 m from H3); check safe storm drain/open area after checking route to map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m)	Use gravity only if water from H3 can visibly enter map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m) after inlet and drain-level check.	No pump needed only if flow into map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 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 map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m) cannot be restored. H3: survey the mapped 86.1 m roadside option to map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur, which is 85.2 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 581 m; possible temporary storage 26,124 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 26,124 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: 28.46695, 77.07706
Nearest drain/trunk visible	☐	☐	map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 86.1 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 85.5 m and 0.60 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Levels at both ends measured	☐	☐	Record source and receiving-drain levels; confirm continuous fall and a lower downstream water level.
Inlet/manhole blockage checked	☐	☐	Check water backing up at the manhole; verify trunk drain level before pumping.
Silt visible in drain	☐	☐	Check map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 3.60 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 224 L/s.
Road/access safety checked	☐	☐	112 m from Hamilton Court 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 water backing up at the manhole; verify trunk drain level before pumping.
Inspect/desilt stormwater drain	[]	Inspect and desilt map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur (85.2 m) if silt/choking is seen.
Survey a new roadside connection	[]	H3: survey the mapped 86.1 m roadside option to map label SWD_v1_29140 (storm) near Near Camera Museum, Village-Chakkarpur, which is 85.2 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 224 L/s.
Escalate or restrict access	[]	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.