

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

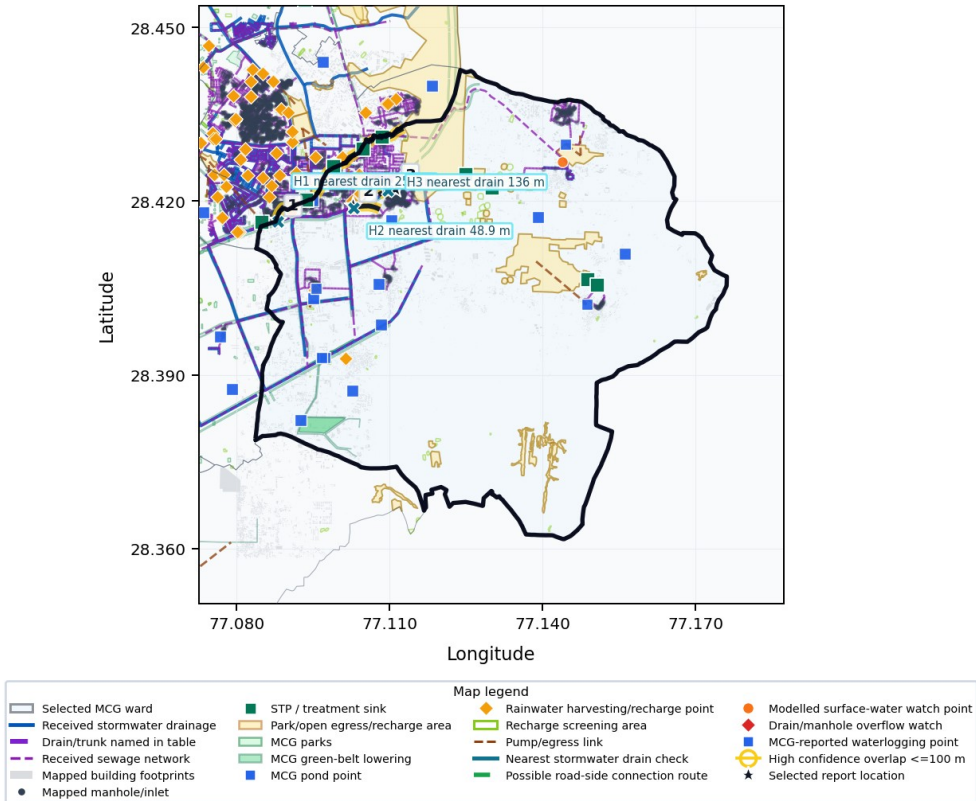
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
20	8	6
Ward Name / Area Covered	Baliyawas(Balola); Bandhwari; Ghata; Gwal Pahari Village; Kadarpur; New Gwal Pahari Village; Sector 55; Sector 58; Sector 59; Sector 60; Sector 61; Sector 62; Sector 63A; Sushant Lok Phase 2; +1 more localities	
Zone	Zone VII	
Division	Zone VII	
Assigned JE	Sandeep Hooda 9991992994	
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	15 mapped MCG work-status segments overlap this ward; 13 marked completed; 1 marked in progress; 1 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 Narayan Bhadana BJP 9999249577
Executive Engineer (EE)	Sh. Tushar Yadav, EE, 9818460252
Assistant Engineer (AE)	Sh. Kuldeep Kumar, AE, 9821395241
JE Development	Sandeep Hooda 9991992994
JE Enforcement	Sh. Jasvinder (9518002897)
JE Horticulture	Himanshu Rao 9821395268
JE Electrical	Devender 9999397898

Ward Action Map

Ward 20: 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 1,968 stormwater line segments, 9,058 sewage line segments, 1,877 manhole/inlet points, 12 STP/treatment points, 278 MCG park polygons, 13 pond points, 124 green-belt lowering areas and 145 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	F & G block, SL2,	maximum modelled depth 1.00 m; average within 50 m 0.30 m; water remains above 15 cm for 11.3 h.	map label 628 (storm) near F & G block, SL2, is 25.2 m away. The mapped roadside option is 30.2 m long and is not yet field-approved.	Clear roadside inlet first; manage traffic around the hotspot.
H2	Village Ghata Under Pass	maximum modelled depth 0.50 m; average within 50 m 0.40 m; water remains above 15 cm for 6.0 h.	map label 625 (storm) near Village Ghata Under Pass is 48.9 m away. The mapped roadside option is 50.1 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	Village Ghata Under Pass	maximum modelled depth 0.34 m; water remains above 15 cm for 9.6 h.	mapped stormwater drain near Village Ghata Under Pass is 136 m away. No field-approved connection route is recorded.	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	Village Ghata Under Pass	28.42194	77.10959	0.33 m; above 15 cm for 59 min	Confirm at this location
R0 2	MCG	Teri Gram Faridabad road Village Baliyawas and Mujjafar Ali Farm house New Gwal Pahari	28.42978	77.14458	0.27 m; above 15 cm for 43 min	Confirm at this location
R0 3	MCG	E Block (Near Creek) Sec-55/56 Road	28.42004	77.09494	0.31 m; above 15 cm for 1.9 h	Confirm at this location
R0 4	MCG	CRPF Camp road Kadarpur	28.39316	77.09664	0.44 m; above 15 cm for 2.2 h	Confirm at this location
R0 5	MCG	Kadarpur Mod in front of Baraat Ghar	28.39301	77.09728	0.53 m; above 15 cm for 63 min	Confirm at this location
R0 6	MCG	Hosiyar Singh Advocate house at Village Behrampur	28.39306	77.09675	0.44 m; above 15 cm for 1.7 h	Confirm at this location
R0 7	MCG	Main Road Ullawas	28.40496	77.09560	0.13 m; above 15 cm for 19 min	Confirm at this location

No.	Source	Location	Lat	Lon	Expected water	How to use this point
R0 8	MCG	Near Khaliya wala Kuan, Village-Bandhwari	28.40225	77.14870	0.53 m; above 15 cm for 62 min	Confirm at this location
M0 1	Model depth	F & G block, SL2,	28.41677	77.08804	1.00 m; above 15 cm for 11.3 h	Confirm at this location
M0 2	Overflow watch	Village Ghata Under Pass	28.41924	77.10273	0.50 m; above 15 cm for 6.0 h	Confirm at this location
M0 3	Overflow watch	Village Ghata Under Pass	28.42212	77.11102	0.34 m; above 15 cm for 9.6 h	Confirm at this location
M0 4	Model depth	E Block (Near Creek) Sec-55/56 Road	28.41815	77.09068	0.77 m; above 15 cm for 9.7 h	Confirm at this location
M0 5	Model depth	Village Ghata Under Pass	28.42282	77.10891	0.90 m; above 15 cm for 9.9 h	Confirm at this location
M0 6	Model depth	Teri Gram Faridabad road Village Baliyawas and Mujjafar Ali Farm house New Gwal Pahari	28.42676	77.14390	1.00 m; above 15 cm for 10.0 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	F & G block, SL2,
Latitude / Longitude	28.41677, 77.08804
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 628 \(25.2 m\)](#)

[H1: nearest mapped stormwater line - map label 683 \(2.80 m\)](#)

[H1: mapped action drain \(2.80 m\)](#)

[H1: mapped main stormwater drain \(2.80 m\)](#)

[H1: nearest mapped sewage line \(11.9 m\)](#)

[H1: possible roadside connection route](#)

[H1: MCG park - F-401 Park; ward 21 \(78.7 m\)](#)

[H1: MCG pond - Tigra Village Pond \(1,438 m\)](#)

[H1: MCG green-belt lowering area - Existing 2 \(19.8 m\)](#)

[H1: rainwater-harvesting/recharge point - Inside Jio Park Near house No 2596 Sec-57-II \(467 m\)](#)

[H1: groundwater recharge screening area \(421 m\)](#)

[H1: nearest STP/treatment point - BEHIND BIKANER SWEET F-BLOCK,SL-2 \(299 m\)](#)

[H1: nearest manhole/inlet \(75.2 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.41677, 77.08804
Water concern	maximum modelled depth 1.00 m; average within 50 m 0.30 m; water remains above 15 cm for 11.3 h.
Nearest stormwater drain	map label 628 (storm) near F & G block, SL2, is 25.2 m away. The mapped roadside option is 30.2 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 30.2 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 18.2 m and 12.0 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Nearby MCG sewage line	MCG sewage line is about 11.9 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Clear roadside inlet first; manage traffic around the hotspot.
Before monsoon	Inspect and desilt map label 628 (storm) near F & G block, SL2, (25.2 m) if silt/choking is seen.
Escalate if	Escalate if road movement is affected or inlet clearing cannot restore flow.

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	2,110 m ³	July 2025 rain
Time water remains above 15 cm	hours	11.3	July 2025 rain
Time to exceed 15 cm after rain starts		Not resolved for this point	July 2025 rain
Maximum depth at this point	m	1.00 m	July 2025 rain
Average depth within 50 m	m	0.30 m	July 2025 rain
Maximum modelled flow speed	m/s	0.01 m/s	July 2025 rain

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

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: map label 628 (storm) near F & G block, SL2, is about 25.2 m away and the mapped roadside option is about 30.2 m long. Open the inlet and receiving-drain access point, then use a clean-water flow test or observe the next rainfall to confirm that water reaches the drain without backing up. Sewage check: an MCG sewage line is about 11.9 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 30.2 m of roadside connection to map label 628 (storm) near F & G block, SL2,, which is 25.2 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 628 (storm) near F & G block, SL2,. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H1 / local low point	No mapped pump is shown near H1. If water remains after inlet clearing, use a temporary pump only toward map label 628 (storm) near F & G block, SL2, (25.2 m) or a verified open/green area; do not use the nearby sewage line (11.9 m from H1) as discharge.	293 L/s for 2-hour clearing; 146 L/s for 4-hour clearing; confirm pump head and hose route at H1.

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
2	Alternate discharge check for H1	Do not discharge to the nearby sewage line (11.9 m from H1); check safe storm drain/open area after checking route to map label 628 (storm) near F & G block, SL2, (25.2 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to map label 628 (storm) near F & G block, SL2, (25.2 m)	Use gravity only if water from H1 can visibly enter map label 628 (storm) near F & G block, SL2, (25.2 m) after inlet and drain-level check.	No pump needed only if flow into map label 628 (storm) near F & G block, SL2, (25.2 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, nearest main stormwater drain is 3 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 30.2 m roadside option to map label 628 (storm) near F & G block, SL2,, which is 25.2 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

Not identified/applicable in current approved data

g. Temporary Diversion to Park or Pond

Possible receiving area: Nearest main stormwater drain (map label MASTER-SWD-142) is 3 m away; check road inlet level, drain level and downstream discharge before routing Nearby landmark: F & G block, SL2,.; possible storage Check slope, access, permission and overflow route.

6. Site Visit Checklist for H1

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H1: 28.41677, 77.08804
Nearest drain/trunk visible	☐	☐	map label 628 (storm) near F & G block, SL2, (25.2 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 30.2 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 18.2 m and 12.0 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Levels at both ends measured	☐	☐	Record source and receiving-drain levels; confirm continuous fall and a lower downstream water level.
Inlet/manhole blockage checked	☐	☐	Clear roadside inlet first; manage traffic around the hotspot.
Silt visible in drain	☐	☐	Check map label 628 (storm) near F & G block, SL2, (25.2 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 11.9 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only if flow to map label 628 (storm) near F & G block, SL2, (25.2 m) does not start after inlet clearing.
Road/access safety checked	☐	☐	16 m from Golf Course Extension Road (secondary)
Photos taken and attached	☐	☐	Photo label should include H1.
Needs escalation to senior engineer	☐	☐	Escalate if road movement is affected or inlet clearing cannot restore flow.

7. Field Decision Box for H1

Decision	Select	Field note
Clean inlet/blockage immediately	[]	Clear roadside inlet first; manage traffic around the hotspot.
Inspect/desilt stormwater drain	[]	Inspect and desilt map label 628 (storm) near F & G block, SL2, (25.2 m) if silt/choking is seen.
Survey a new roadside connection	[]	H1: survey the mapped 30.2 m roadside option to map label 628 (storm) near F & G block, SL2,, which is 25.2 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 if flow to map label 628 (storm) near F & G block, SL2, (25.2 m) does not start after inlet clearing.
Escalate or restrict access	[]	Escalate if road movement is affected or inlet clearing cannot restore flow.

HOTSPOT 2

1. Hotspot Identification

Hotspot Name	Village Ghata Under Pass
Latitude / Longitude	28.41924, 77.10273
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 625 \(48.9 m\)](#)

[H2: nearest mapped stormwater line - map label 625 \(48.9 m\)](#)

[H2: mapped action drain \(48.9 m\)](#)

[H2: mapped main stormwater drain \(48.9 m\)](#)

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

[H2: possible roadside connection route](#)

[H2: open/green receptor or park \(1,103 m\)](#)

[H2: MCG park - D-123; ward 20 \(84.0 m\)](#)

[H2: MCG pond - Ghata Jheel \(788 m\)](#)

[H2: MCG green-belt lowering area - Existing 2 \(25.5 m\)](#)

[H2: rainwater-harvesting/recharge point - D-127 \(94.1 m\)](#)

[H2: groundwater recharge screening area \(456 m\)](#)

[H2: nearest STP/treatment point - MICRO STP BEHIND HUDA MARKET SEC.-56; capacity 50.0 KLD \(829 m\)](#)

[H2: nearest manhole/inlet \(0.10 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.41924, 77.10273
Water concern	maximum modelled depth 0.50 m; average within 50 m 0.40 m; water remains above 15 cm for 6.0 h.

Nearest stormwater drain	map label 625 (storm) near Village Ghata Under Pass is 48.9 m away. The mapped roadside option is 50.1 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 50.1 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 22.7 m and 27.4 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 map label 625 (storm) near Village Ghata Under Pass (48.9 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 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	2,155 m³	July 2025 rain
Time water remains above 15 cm	hours	6.0	July 2025 rain
Time to exceed 15 cm after rain starts	hours	9.9	July 2025 rain
Maximum depth at this point	m	0.50 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

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 625 (storm) near Village Ghata Under Pass is about 48.9 m away and the mapped roadside option is about 50.1 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 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 50.1 m of roadside connection to map label 625 (storm) near Village Ghata Under Pass, which is 48.9 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 map label 625 (storm) near Village Ghata Under Pass. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H2 / local low point	No mapped pump is shown near H2. If water remains after inlet clearing, use a temporary pump only toward map label 625 (storm) near Village Ghata Under Pass (48.9 m) or a verified open/green area; do not use the nearby sewage line (0.00 m from H2) as discharge.	299 L/s for 2-hour clearing; 150 L/s for 4-hour clearing; confirm pump head and hose route at H2.
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (0.00 m from H2); check safe storm drain/open area after checking route to map label 625 (storm) near Village Ghata Under Pass (48.9 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to map label 625 (storm) near Village Ghata Under Pass (48.9 m)	Use gravity only if water from H2 can visibly enter map label 625 (storm) near Village Ghata Under Pass (48.9 m) after inlet and drain-level check.	No pump needed only if flow into map label 625 (storm) near Village Ghata Under Pass (48.9 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, nearest main stormwater drain is 49 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 50.1 m roadside option to map label 625 (storm) near Village Ghata Under Pass, which is 48.9 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 1,103 m; possible temporary storage 1,200,823 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 1,200,823 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: 28.41924, 77.10273
Nearest drain/trunk visible	☐	☐	map label 625 (storm) near Village Ghata Under Pass (48.9 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 50.1 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 22.7 m and 27.4 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 625 (storm) near Village Ghata Under Pass (48.9 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; estimated 2 h pump need is about 299 L/s.
Road/access safety checked	☐	☐	46 m from Golf Course Extension 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 625 (storm) near Village Ghata Under Pass (48.9 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 50.1 m roadside option to map label 625 (storm) near Village Ghata Under Pass, which is 48.9 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.
Use a temporary pump	☐	Keep pump ready only after checking manhole/trunk level; estimated 2 h pump need is about 299 L/s.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

HOTSPOT 3

1. Hotspot Identification

Hotspot Name	Village Ghata Under Pass
Latitude / Longitude	28.42212, 77.11102
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 \(136 m\)](#)

[H3: nearest mapped stormwater line \(136 m\)](#)

[H3: mapped action drain - map label SWD-LINE-1088 \(136 m\)](#)

[H3: mapped main stormwater drain \(486 m\)](#)

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

[H3: open/green receptor or park \(247 m\)](#)

[H3: MCG park - A-267; ward 20 \(132 m\)](#)

[H3: MCG pond - Ghata Jheel \(594 m\)](#)

[H3: MCG green-belt lowering area - Existing 2 \(11.3 m\)](#)

[H3: rainwater-harvesting/recharge point - BLOCK E SL-II \(676 m\)](#)

[H3: groundwater recharge screening area - Johad; field-check \(131 m\)](#)

[H3: nearest STP/treatment point - MICRO STP PARK GREEN BELT NEAR AIT CHOWK; capacity 50.0 KLD \(978 m\)](#)

[H3: nearest manhole/inlet \(0.00 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.42212, 77.11102
Water concern	maximum modelled depth 0.34 m; water remains above 15 cm for 9.6 h.
Nearest stormwater drain	mapped stormwater drain near Village Ghata Under Pass is 136 m away. No field-approved connection route is recorded.

Roadside connection checks	No roadside connection route has been mapped without crossing a building. Before proposing work, survey a road alignment, measure the level at both ends, mark utilities and confirm continuous fall toward a stormwater drain that can accept flow.
Nearby MCG sewage line	MCG sewage line is 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 Village Ghata Under Pass (136 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	Not available at point scale; use depth and timing for field action	July 2025 rain
Time water remains above 15 cm	hours	9.6	July 2025 rain
Time to exceed 15 cm after rain starts	hours	4.8	July 2025 rain
Maximum depth at this point	m	0.34 m	July 2025 rain
Average depth within 50 m	m	Not available at point scale; use depth and timing for field action	July 2025 rain
Maximum modelled flow speed	m/s	0.01 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 Village Ghata Under Pass is about 136 m away, but no roadside connection is mapped. Trace the inlet to the drain and record any missing, crushed or blocked reach before scheduling work. Sewage check: an MCG sewage line is 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 stormwater drain near Village Ghata Under Pass is about 136 m away, but no building-free roadside route is mapped. Do not mark a new link construction-ready until the JE traces the alignment, measures levels at both ends, marks utilities, checks frontage/access and confirms that the receiving drain can accept flow.

c. When to Desilt

Inspect the inlet, first upstream access point and first downstream access point leading to mapped stormwater drain near Village Ghata Under Pass. 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 Village Ghata Under Pass (136 m) or a verified open/green area; do not use the nearby sewage line (0.00 m from H3) as discharge.	Confirm at site
2	Alternate discharge check for H3	Do not discharge to the nearby sewage line (0.00 m from H3); check safe storm drain/open area after checking route to mapped stormwater drain near Village Ghata Under Pass (136 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to mapped stormwater drain near Village Ghata Under Pass (136 m)	Use gravity only if water from H3 can visibly enter mapped stormwater drain near Village Ghata Under Pass (136 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Village Ghata Under Pass (136 m) is confirmed at site.

e. New Drain or Inlet Decision

For H3, no screened pump/open receptor or main-drain drainage relief route within 50 m; field team should check a safe pump route. Map screening used depth/persistence/drain return, 50 m local flood-volume estimate, screened park/open receptors, storm-drain proximity, sewer proximity caution, and site visit constraints. H3: mapped stormwater drain near Village Ghata Under Pass is 136 m away, but no building-free roadside route is mapped. Trace a road alignment, measure levels at both ends, mark utilities and confirm receiving-drain capacity before proposing construction.

f. Rainwater Harvesting Check

Nearby open/receptor area: distance 247 m; possible temporary storage 1,200,823 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 1,200,823 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: 28.42212, 77.11102
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Village Ghata Under Pass (136 m)
Roadside connection route surveyed	☐	☐	No roadside connection route has been mapped without crossing a building. Before proposing work, survey a road alignment, measure the level at both ends, mark utilities and confirm continuous fall toward a stormwater drain that can accept flow.
Levels at both ends measured	☐	☐	Record source and receiving-drain levels; confirm continuous fall and a lower downstream water level.
Inlet/manhole blockage checked	☐	☐	Check water backing up at the manhole; verify trunk drain level before pumping.
Silt visible in drain	☐	☐	Check mapped stormwater drain near Village Ghata Under Pass (136 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	☐	☐	81 m from Golf Course Extension 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 mapped stormwater drain near Village Ghata Under Pass (136 m) if silt/choking is seen.
Survey a new roadside connection	☐	H3: mapped stormwater drain near Village Ghata Under Pass is 136 m away, but no building-free roadside route is mapped. Trace a road alignment, measure levels at both ends, mark utilities and confirm receiving-drain capacity before proposing construction.
Use a temporary pump	☐	Keep pump ready 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.