

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

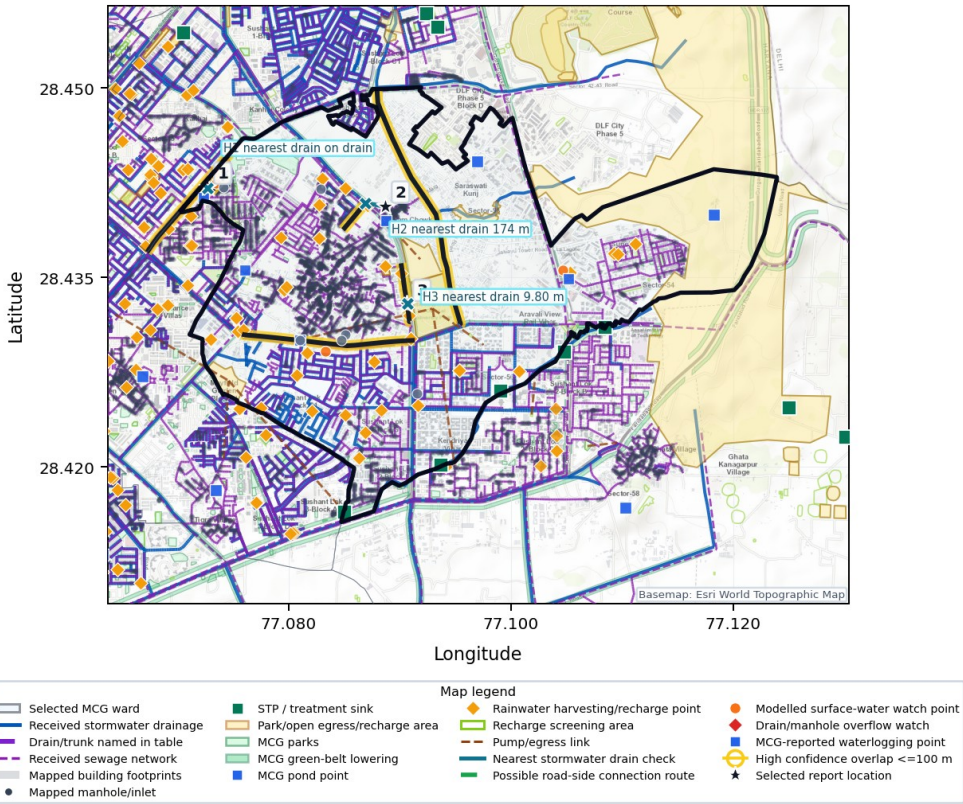
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
21	6	12
Ward Name / Area Covered	Alakanda Apartment(Sector 56); Ardee City; Sector 52; Sector 52A; Sector 53; Sector 54; Sector 56; Sector 57; Suncity; Suncity Heights Apartment(SunCity); Sushant lok E Block; Sushant Lok II Block F; Wazirabad Village; Saraswati Kunj	
Zone	Zone VII	
Division	Zone VII	
Assigned JE	Praveen Kumar JE 9817142821	
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	8 mapped MCG work-status segments overlap this ward; 6 marked completed; 0 marked in progress; 2 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	Smt Sonia Yadav BJP 9910338484
Executive Engineer (EE)	Sh. Tushar Yadav, EE, 9818460252
Assistant Engineer (AE)	Sh. Kuldeep Kumar, AE, 9821395241
JE Development	Praveen Kumar JE 9817142821
JE Enforcement	Sh. Jasvinder (9518002897)
JE Horticulture	Himanshu Rao 9821395268
JE Electrical	Devender 9999397898

Ward Action Map

Ward 21: 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 6,561 stormwater line segments, 15,463 sewage line segments, 2,814 manhole/inlet points, 19 STP/treatment points, 479 MCG park polygons, 7 pond points, 139 green-belt lowering areas and 318 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Ardee city gate no.3	maximum modelled depth 0.51 m; average within 50 m 0.40 m; water remains above 15 cm for 8.0 h.	mapped stormwater drain near Ardee city gate no.3 is 1.70 m away. No field-approved connection route is recorded.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Wazirabad Dhani chowk	maximum modelled depth 0.49 m; average within 50 m 0.40 m; water remains above 15 cm for 8.0 h.	mapped stormwater drain near Wazirabad Dhani chowk is 174 m away. No field-approved connection route is recorded.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	Wazirabad Dhani chowk	maximum modelled depth 0.78 m; average within 50 m 0.30 m; water remains above 15 cm for 6.6 h.	mapped stormwater drain near Wazirabad Dhani chowk is 9.80 m away. The mapped roadside option is 13.8 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	Wazirabad Dhani chowk	28.43945	77.08879	0.60 m; above 15 cm for 3.3 h	Confirm at this location
R0 2	MCG	Jheel chowk, wazirabad	28.43005	77.08103	0.33 m; above 15 cm for 3.1 h	Supported by model within 0 m
R0 3	MCG	Suncity main entrance and B- Block	28.43489	77.10516	0.25 m; above 15 cm for 29 min	Supported by model within 88 m
R0 4	MCG	F & G block, SL2,	28.41638	77.08512	0.29 m; above 15 cm for 26 min	Confirm at this location
R0 5	MCG	Ardee city gate no.3	28.44134	77.07238	0.47 m; above 15 cm for 3.9 h	Supported by model within 91 m
R0 6	MCG	H no.1241 to tempo stand, wazirabad	28.43555	77.07607	0.34 m; above 15 cm for 2.2 h	Confirm at this location

No.	Source	Location	Lat	Lon	Expected water	How to use this point
M0 1	Overflow watch	Ardee city gate no.3	28.44210	77.07270	0.51 m; above 15 cm for 8.0 h	Supported by MCG report within 91 m
M0 2	Overflow watch	Wazirabad Dhani chowk	28.44061	77.08869	0.49 m; above 15 cm for 8.0 h	Confirm at this location
M0 3	Overflow watch	Wazirabad Dhani chowk	28.43284	77.09062	0.78 m; above 15 cm for 6.6 h	Confirm at this location
M0 4	Model depth	Ardee city gate no.3	28.44244	77.07351	0.64 m; above 15 cm for 11.2 h	Confirm at this location
M0 5	Model depth	Suncity main entrance and B- Block	28.43558	77.10471	0.56 m; above 15 cm for 10.8 h	Supported by MCG report within 88 m
M0 6	Overflow watch	Jheel chowk, wazirabad	28.43046	77.08513	0.71 m; above 15 cm for 11.4 h	Confirm at this location
M0 7	Overflow watch	Jheel chowk, wazirabad	28.43006	77.08479	0.34 m; above 15 cm for 4.9 h	Confirm at this location
M0 8	Model depth	Jheel chowk, wazirabad	28.42914	77.08334	0.90 m; above 15 cm for 8.7 h	Confirm at this location
M0 9	Overflow watch	Ardee city gate no.3	28.44210	77.07416	0.41 m; above 15 cm for 4.8 h	Confirm at this location
M1 0	Overflow watch	E Block (Near Creek) Sec-55/56 Road	28.42583	77.09159	0.41 m; above 15 cm for 5.8 h	Confirm at this location
M1 1	Overflow watch	Wazirabad Dhani chowk	28.44199	77.08290	0.77 m; above 15 cm for 10.6 h	Confirm at this location
M1 2	MCG + model	Jheel chowk, wazirabad	28.43005	77.08103	0.90 m	Supported by MCG report within 0 m

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Ardee city gate no.3
Latitude / Longitude	28.44210, 77.07270
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 \(1.70 m\)](#)

[H1: nearest mapped stormwater line \(1.70 m\)](#)

[H1: mapped action drain - map label SWD-LINE-2426 \(1.70 m\)](#)

[H1: mapped main stormwater drain \(45.5 m\)](#)

[H1: nearest mapped sewage line \(1.70 m\)](#)

[H1: open/green receptor or park - Sector 45 Community park; storage 4,394 m³ \(424 m\)](#)

[H1: MCG park - Park-19; ward 21 \(46.1 m\)](#)

[H1: MCG pond - Samaspur Village \(1,752 m\)](#)

[H1: MCG green-belt lowering area - Not in master plan \(20.7 m\)](#)

[H1: rainwater-harvesting/recharge point - Sector 52 near H.no 09 \(recorded as functional\) \(129 m\)](#)

[H1: groundwater recharge screening area - PARK; field-check \(194 m\)](#)

[H1: nearest STP/treatment point - MICRO-STP SECTOR-44 NURSURY \(1,376 m\)](#)

[H1: nearest manhole/inlet \(94.6 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.44210, 77.07270
Water concern	maximum modelled depth 0.51 m; average within 50 m 0.40 m; water remains above 15 cm for 8.0 h.

Nearest stormwater drain	mapped stormwater drain near Ardee city gate no.3 is 1.70 m away. No field-approved connection route is recorded.
Roadside connection checks	No roadside connection route has been mapped without crossing a building. Before proposing work, survey a road alignment, measure the level at both ends, mark utilities and confirm continuous fall toward a stormwater drain that can accept flow.
Nearby MCG sewage line	MCG sewage line is about 1.70 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check water backing up at the manhole; verify trunk drain level before pumping.
Before monsoon	Inspect and desilt mapped stormwater drain near Ardee city gate no.3 (1.70 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	m³	2,668 m³	July 2025 rain
Time water remains above 15 cm	hours	8.0	July 2025 rain
Time to exceed 15 cm after rain starts	hours	10.8	July 2025 rain
Maximum depth at this point	m	0.51 m	July 2025 rain
Average depth within 50 m	m	0.40 m	July 2025 rain
Maximum modelled flow speed	m/s	0.03 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 Ardee city gate no.3 is about 1.70 m away, but no roadside connection is mapped. Trace the inlet to the drain and record any missing, crushed or blocked reach before scheduling work. Sewage check: an MCG sewage line is about 1.70 m away. Inspect the nearest manhole for rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

mapped stormwater drain near Ardee city gate no.3 is about 1.70 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 Ardee city gate no.3. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H1 / local low point	No mapped pump is shown near H1. If water remains after inlet clearing, use a temporary pump only toward mapped stormwater drain near Ardee city gate no.3 (1.70 m) or a verified open/green area; do not use the nearby sewage line (1.70 m from H1) as discharge.	371 L/s for 2-hour clearing; 185 L/s for 4-hour clearing; confirm pump head and hose route at H1.
2	Alternate discharge check for H1	Do not discharge to the nearby sewage line (1.70 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Ardee city gate no.3 (1.70 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to mapped stormwater drain near Ardee city gate no.3 (1.70 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Ardee city gate no.3 (1.70 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Ardee city gate no.3 (1.70 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, nearest main stormwater drain is 45 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: mapped stormwater drain near Ardee city gate no.3 is 1.70 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: Sector 45 Community park; distance 424 m; possible temporary storage 4,394 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: Sector 45 Community park; possible storage 4,394 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: 28.44210, 77.07270
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Ardee city gate no.3 (1.70 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 Ardee city gate no.3 (1.70 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 1.70 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only after checking manhole/trunk level; estimated 2 h pump need is about 371 L/s.
Road/access safety checked	☐	☐	41 m from Sector 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 Ardee city gate no.3 (1.70 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: mapped stormwater drain near Ardee city gate no.3 is 1.70 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; estimated 2 h pump need is about 371 L/s.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

HOTSPOT 2

1. Hotspot Identification

Hotspot Name	Wazirabad Dhani chowk
Latitude / Longitude	28.44061, 77.08869
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 \(174 m\)](#)

[H2: nearest mapped stormwater line \(174 m\)](#)

[H2: mapped action drain - map label SWD-LINE-2418 \(174 m\)](#)

[H2: mapped main stormwater drain \(334 m\)](#)

[H2: nearest mapped sewage line \(2.50 m\)](#)

[H2: open/green receptor or park - Butterfly Park Gurgaon; storage 22,444 m³ \(289 m\)](#)

[H2: MCG park - Tikona park; ward 21 \(320 m\)](#)

[H2: MCG pond - Wazirabad Village Khatu Shyam Mandir \(899 m\)](#)

[H2: MCG green-belt lowering area - Existing 2 \(59.2 m\)](#)

[H2: rainwater-harvesting/recharge point - in front of water work entry \(recorded as non-functional\) \(155 m\)](#)

[H2: groundwater recharge screening area - Butterfly Park Gurgaon; field screening area \(289 m\)](#)

[H2: nearest STP/treatment point - MICRO STP H.NO. 944 SECTOR-43; capacity 50.0 KLD \(1,636 m\)](#)

[H2: nearest manhole/inlet \(2.60 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.44061, 77.08869
Water concern	maximum modelled depth 0.49 m; average within 50 m 0.40 m; water remains above 15 cm for 8.0 h.
Nearest stormwater drain	mapped stormwater drain near Wazirabad Dhani chowk is 174 m away. No field-approved connection route is recorded.

Roadside connection checks	No roadside connection route has been mapped without crossing a building. Before proposing work, survey a road alignment, measure the level at both ends, mark utilities and confirm continuous fall toward a stormwater drain that can accept flow.
Nearby MCG sewage line	MCG sewage line is about 2.50 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 Wazirabad Dhani chowk (174 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	m ³	2,378 m ³	July 2025 rain
Time water remains above 15 cm	hours	8.0	July 2025 rain
Time to exceed 15 cm after rain starts	hours	11.0	July 2025 rain
Maximum depth at this point	m	0.49 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: mapped stormwater drain near Wazirabad Dhani chowk is about 174 m away, but no roadside connection is mapped. Trace the inlet to the drain and record any missing, crushed or blocked reach before scheduling work. Sewage check: an MCG sewage line is about 2.50 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 stormwater drain near Wazirabad Dhani chowk is about 174 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 Wazirabad Dhani chowk. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H2 / local low point	No mapped pump is shown near H2. If water remains after inlet clearing, use a temporary pump only toward mapped stormwater drain near Wazirabad Dhani chowk (174 m) or a verified open/green area; do not use the nearby sewage line (2.50 m from H2) as discharge.	330 L/s for 2-hour clearing; 165 L/s for 4-hour clearing; confirm pump head and hose route at H2.
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (2.50 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Wazirabad Dhani chowk (174 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Wazirabad Dhani chowk (174 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Wazirabad Dhani chowk (174 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Wazirabad Dhani chowk (174 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, 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. H2: mapped stormwater drain near Wazirabad Dhani chowk is 174 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: Butterfly Park Gurgaon; distance 289 m; possible temporary storage 22,444 m³; class priority. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: Butterfly Park Gurgaon; possible storage 22,444 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: 28.44061, 77.08869
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Wazirabad Dhani chowk (174 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 Wazirabad Dhani chowk (174 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 2.50 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 330 L/s.
Road/access safety checked	☐	☐	79 m from August Kranti Marg (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 Wazirabad Dhani chowk (174 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: mapped stormwater drain near Wazirabad Dhani chowk is 174 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; estimated 2 h pump need is about 330 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	Wazirabad Dhani chowk
Latitude / Longitude	28.43284, 77.09062
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 \(9.80 m\)](#)

[H3: nearest mapped stormwater line \(8.30 m\)](#)

[H3: mapped action drain - map label SWD-LINE-2379 \(8.30 m\)](#)

[H3: mapped main stormwater drain \(316 m\)](#)

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

[H3: possible roadside connection route](#)

[H3: open/green receptor or park - Tau Devi Lal Bio-Diversity and Botanical Garden; storage 26,861 m³ \(56.7 m\)](#)

[H3: MCG park - Health Park Tikona; ward 21 \(303 m\)](#)

[H3: MCG pond - Wazirabad Village Khatu Shyam Mandir \(1,401 m\)](#)

[H3: MCG green-belt lowering area - Existing 2 \(2.60 m\)](#)

[H3: rainwater-harvesting/recharge point - in front of plot no.G H 1 \(recorded as non-functional\) \(99.1 m\)](#)

[H3: groundwater recharge screening area - Tau Devi Lal Bio-Diversity and Botanical Garden; field screening area \(56.7 m\)](#)

[H3: nearest STP/treatment point - MICRO STP BEHIND HUDA MARKET SEC.-56; capacity 50.0 KLD \(1,125 m\)](#)

[H3: nearest manhole/inlet \(1.50 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.43284, 77.09062
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Water concern	maximum modelled depth 0.78 m; average within 50 m 0.30 m; water remains above 15 cm for 6.6 h.
Nearest stormwater drain	mapped stormwater drain near Wazirabad Dhani chowk is 9.80 m away. The mapped roadside option is 13.8 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 13.8 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 6.30 m and 7.50 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 Wazirabad Dhani chowk (9.80 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 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	2,602 m ³	July 2025 rain
Time water remains above 15 cm	hours	6.6	July 2025 rain
Time to exceed 15 cm after rain starts	hours	8.7	July 2025 rain
Maximum depth at this point	m	0.78 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 Wazirabad Dhani chowk is about 9.80 m away and the mapped roadside option is about 13.8 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 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 13.8 m of roadside connection to mapped stormwater drain near Wazirabad Dhani chowk, which is 9.80 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 mapped stormwater drain near Wazirabad Dhani chowk. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H3 / local low point	No mapped pump is shown near H3. If water remains after inlet clearing, use a temporary pump only toward mapped stormwater drain near Wazirabad Dhani chowk (9.80 m) or a verified open/green area; do not use the nearby sewage line (0.00 m from H3) as discharge.	361 L/s for 2-hour clearing; 181 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 (0.00 m from H3); check safe storm drain/open area after checking route to mapped stormwater drain near Wazirabad Dhani chowk (9.80 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to mapped stormwater drain near Wazirabad Dhani chowk (9.80 m)	Use gravity only if water from H3 can visibly enter mapped stormwater drain near Wazirabad Dhani chowk (9.80 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Wazirabad Dhani chowk (9.80 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 Wazirabad Dhani chowk (9.80 m) cannot be restored. H3: survey the mapped 13.8 m roadside option to mapped stormwater drain near Wazirabad Dhani chowk, which is 9.80 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: Tau Devi Lal Bio-Diversity and Botanical Garden; distance 56.7 m; possible temporary storage 26,861 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: Tau Devi Lal Bio-Diversity and Botanical Garden; possible storage 26,861 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: 28.43284, 77.09062
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Wazirabad Dhani chowk (9.80 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 13.8 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 6.30 m and 7.50 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 Wazirabad Dhani chowk (9.80 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 361 L/s.
Road/access safety checked	☐	☐	25 m from August Kranti Marg (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 Wazirabad Dhani chowk (9.80 m) if silt/choking is seen.
Survey a new roadside connection	☐	H3: survey the mapped 13.8 m roadside option to mapped stormwater drain near Wazirabad Dhani chowk, which is 9.80 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; estimated 2 h pump need is about 361 L/s.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.