

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

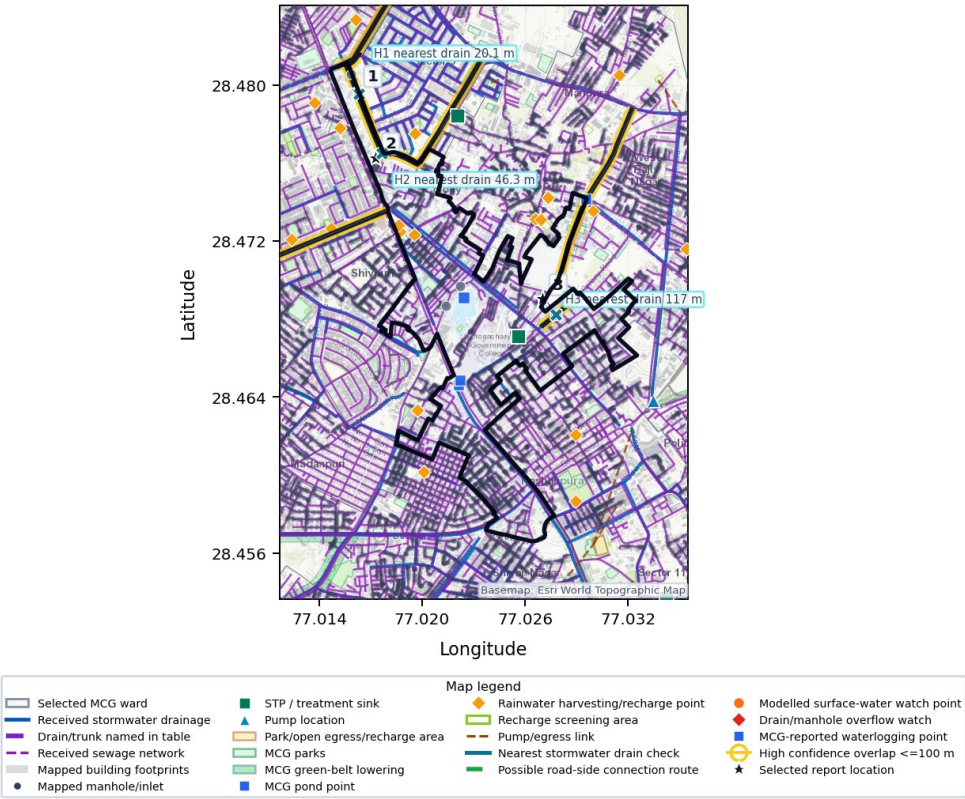
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
31	4	6
Ward Name / Area Covered	Ashok Puri; Bhim Nagar; Dayanand Colony; Dhanak Basti(Subhash Nagar); Idgah Colony; Jawahar Nagar; Lajpat Nagar; Mahavir Pura; Mianwali Colony; Nai Basti; Pratap Nagar; Prem Nagar 1; Rattan Garden; Sanjay Colony; +1 more localities	
Zone	Zone VI	
Division	Zone VI	
Assigned JE	Shubham JE 9728220667	
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	1 mapped MCG work-status segments overlap this ward; 1 marked completed; 0 marked in progress. Confirm current completion with MCG field records.	
Priority action	Inspect drain/manhole overflow watch points, inlet condition, desilting status and downstream flow continuity	

Official Ward Contact Roster

Role	Supplied MCG contact
Councillor	Shri Dalip Kumar Sahani BJP 9899122626
Executive Engineer (EE)	Sh. Sandeep Kumar Dhundhwal, EE, 9910329207
Assistant Engineer (AE)	Sh. Ashish Chhachhia, AE, 9717104355
JE Development	Shubham JE 9728220667
JE Enforcement	Ankit Kapoor 8802588667
JE Horticulture	Gulshan Yadav 9821395258
JE Electrical	Devender 9999397898

Ward Action Map

Ward 31: 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 2,772 stormwater line segments, 22,353 sewage line segments, 7,492 manhole/inlet points, 19 STP/treatment points, 241 MCG park polygons, 2 pond points, 51 green-belt lowering areas and 311 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Chintpurni mata mandir	maximum modelled depth 0.38 m; average within 50 m 0.20 m; water remains above 15 cm for 11.6 h.	mapped stormwater drain near Chintpurni mata mandir is 20.1 m away. The mapped roadside option is 21.2 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Chintpurni mata mandir	maximum modelled depth 0.40 m; average within 50 m 0.40 m; water remains above 15 cm for 4.0 h.	mapped stormwater drain near Chintpurni mata mandir is 46.3 m away. No field-approved connection route is recorded.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	Miya Wali Colony	maximum modelled depth 0.60 m; average within 50 m 0.20 m; water remains above 15 cm for 10.9 h.	mapped stormwater drain near Miya Wali Colony is 117 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	Auto Market, Bhim Nagar	28.46460	77.02211	0.15 m; above 15 cm for 5 min	Confirm at this location
R0 2	MCG	Miya Wali Colony	28.46824	77.02781	0.18 m; above 15 cm for 13 min	Confirm at this location
R0 3	MCG	Rajwanshi Hotel Subhash Nagar	28.46485	77.02221	0.24 m; above 15 cm for 21 min	Confirm at this location
R0 4	MCG	Shingha Chowk	28.47416	77.02957	0.41 m; above 15 cm for 42 min	Confirm at this location
M0 1	Overflow watch	Chintpurni mata mandir	28.47971	77.01623	0.38 m; above 15 cm for 11.6 h	Confirm at this location
M0 2	Overflow watch	Chintpurni mata mandir	28.47626	77.01728	0.40 m; above 15 cm for 4.0 h	Confirm at this location

No.	Source	Location	Lat	Lon	Expected water	How to use this point
M0 3	Overflow watch	Miya Wali Colony	28.46902	77.02703	0.60 m; above 15 cm for 10.9 h	Confirm at this location
M0 4	Overflow watch	Rajwanshi Hotel Subhash Nagar	28.46868	77.02137	0.53 m; above 15 cm for 5.0 h	Confirm at this location
M0 5	Overflow watch	Chintpurni mata mandir	28.48055	77.01585	0.41 m; above 15 cm for 10.2 h	Confirm at this location
M0 6	Overflow watch	Rajwanshi Hotel Subhash Nagar	28.46968	77.02223	0.39 m; above 15 cm for 6.7 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Chintpurni mata mandir
Latitude / Longitude	28.47971, 77.01623
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 \(20.1 m\)](#)

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

[H1: mapped action drain - map label SWD-LINE-908 \(0.00 m\)](#)

[H1: mapped main stormwater drain \(172 m\)](#)

[H1: nearest mapped sewage line - GMDA Network \(1.90 m\)](#)

[H1: possible roadside connection route](#)

[H1: MCG park - H.No-91; ward 35 \(117 m\)](#)

[H1: MCG pond - Subhas Nagar Pond \(1,322 m\)](#)

[H1: MCG green-belt lowering area - Existing \(121 m\)](#)

[H1: rainwater-harvesting/recharge point - Ayurveda dispencery \(recorded as non-functional\) \(233 m\)](#)

[H1: groundwater recharge screening area - PARK; field-check \(125 m\)](#)

[H1: nearest STP/treatment point - Gurugram Village \(589 m\)](#)

[H1: nearest manhole/inlet \(124 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.47971, 77.01623
Water concern	maximum modelled depth 0.38 m; average within 50 m 0.20 m; water remains above 15 cm for 11.6 h.
Nearest stormwater drain	mapped stormwater drain near Chintpurni mata mandir is 20.1 m away. The mapped roadside option is 21.2 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 21.2 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 19.6 m and 1.50 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 about 1.90 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check water backing up at the manhole; verify trunk drain level before pumping.
Before monsoon	Inspect and desilt mapped stormwater drain near Chintpurni mata mandir (20.1 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	1,249 m³	July 2025 rain

Field measure	Unit	Model estimate	Selected rainfall
Time water remains above 15 cm	hours	11.6	July 2025 rain
Time to exceed 15 cm after rain starts	minutes	50	July 2025 rain
Maximum depth at this point	m	0.38 m	July 2025 rain
Average depth within 50 m	m	0.20 m	July 2025 rain
Maximum modelled flow speed	m/s	0.04 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 Chintpurni mata mandir is about 20.1 m away and the mapped roadside option is about 21.2 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 1.90 m away. Inspect the nearest manhole for rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

Mapped option: approximately 21.2 m of roadside connection to mapped stormwater drain near Chintpurni mata mandir, which is 20.1 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 Chintpurni mata mandir. 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 Chintpurni mata mandir (20.1 m) or a verified open/green area; do not use the nearby sewage line (1.90 m from H1) as discharge.	173 L/s for 2-hour clearing; 86.7 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 (1.90 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Chintpurni mata mandir (20.1 m).	Use only if site access and discharge permission are clear for H1.

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
3	Gravity route to mapped stormwater drain near Chintpurni mata mandir (20.1 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Chintpurni mata mandir (20.1 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Chintpurni mata mandir (20.1 m) is confirmed at site.

e. New Drain or Inlet Decision

For H1, inspect the nearest stormwater drain, inlet blockage, silt and downstream continuity. Use a pump route only if flow into mapped stormwater drain near Chintpurni mata mandir (20.1 m) cannot be restored. H1: survey the mapped 21.2 m roadside option to mapped stormwater drain near Chintpurni mata mandir, which is 20.1 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-6) is 172 m away; check road inlet level, drain level and downstream discharge before routing Nearby landmark: Chintpurni mata mandir.; 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: 28.47971, 77.01623
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Chintpurni mata mandir (20.1 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 21.2 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 19.6 m and 1.50 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 Chintpurni mata mandir (20.1 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 1.90 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only after checking manhole/trunk level; estimated 2 h pump need is about 173 L/s.
Road/access safety checked	☐	☐	104 m from Old Railway 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 Chintpurni mata mandir (20.1 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 21.2 m roadside option to mapped stormwater drain near Chintpurni mata mandir, which is 20.1 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 173 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	Chintpurni mata mandir
Latitude / Longitude	28.47626, 77.01728
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 \(46.3 m\)](#)

[H2: nearest mapped stormwater line \(46.3 m\)](#)

[H2: mapped action drain - map label SWD-LINE-2394 \(46.3 m\)](#)

[H2: mapped main stormwater drain \(309 m\)](#)

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

[H2: MCG park - H.No-856; ward 35 \(123 m\)](#)

[H2: MCG pond - Subhas Nagar Pond \(938 m\)](#)

[H2: MCG green-belt lowering area - Existing \(65.6 m\)](#)

[H2: rainwater-harvesting/recharge point - At front side, Laxmi Bazar near Petrol pump \(recorded as functional\) \(264 m\)](#)

[H2: groundwater recharge screening area - PARK; field-check \(320 m\)](#)

[H2: nearest STP/treatment point - Gurugram Village \(526 m\)](#)

[H2: nearest manhole/inlet \(3.00 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.47626, 77.01728
Water concern	maximum modelled depth 0.40 m; average within 50 m 0.40 m; water remains above 15 cm for 4.0 h.
Nearest stormwater drain	mapped stormwater drain near Chintpurni mata mandir is 46.3 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 Chintpurni mata mandir (46.3 m) if silt/choking is seen.
Escalate if	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

2. Source

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

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

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

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m³	1,240 m³	July 2025 rain
Time water remains above 15 cm	hours	4.0	July 2025 rain
Time to exceed 15 cm after rain starts	hours	10.2	July 2025 rain
Maximum depth at this point	m	0.40 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 Chintpurni mata mandir is about 46.3 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 Chintpurni mata mandir is about 46.3 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 Chintpurni mata mandir. 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 Chintpurni mata mandir (46.3 m) or a verified open/green area; do not use the nearby sewage line (0.00 m from H2) as discharge.	172 L/s for 2-hour clearing; 86.1 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 mapped stormwater drain near Chintpurni mata mandir (46.3 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Chintpurni mata mandir (46.3 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Chintpurni mata mandir (46.3 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Chintpurni mata mandir (46.3 m) is confirmed at site.

e. New Drain or Inlet Decision

For H2, inspect the nearest stormwater drain, inlet blockage, silt and downstream continuity. Use a pump route only if flow into mapped stormwater drain near Chintpurni mata mandir (46.3 m) cannot be restored. H2: mapped stormwater drain near Chintpurni mata mandir is 46.3 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

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-60) is 309 m away; check road inlet level, drain level and downstream discharge before routing Nearby landmark: Chintpurni mata mandir.; possible storage Check slope, access, permission and overflow route.

6. Site Visit Checklist for H2

Site check	Yes	No	Notes
Waterlogging seen at this pin	☐	☐	H2: 28.47626, 77.01728
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Chintpurni mata mandir (46.3 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 Chintpurni mata mandir (46.3 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 172 L/s.
Road/access safety checked	☐	☐	51 m from Old Railway Road (secondary)
Photos taken and attached	☐	☐	Photo label should include H2.
Needs escalation to senior engineer	☐	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

7. Field Decision Box for H2

Decision	Select	Field note
Clean inlet/blockage immediately	☐	Check water backing up at the manhole; verify trunk drain level before pumping.
Inspect/desilt stormwater drain	☐	Inspect and desilt mapped stormwater drain near Chintpurni mata mandir (46.3 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: mapped stormwater drain near Chintpurni mata mandir is 46.3 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 172 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	Miya Wali Colony
Latitude / Longitude	28.46902, 77.02703
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 \(117 m\)](#)

[H3: nearest mapped stormwater line \(117 m\)](#)

[H3: mapped action drain - map label SWD-LINE-1645 \(117 m\)](#)

[H3: mapped main stormwater drain \(122 m\)](#)

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

[H3: mapped pump - Mahavir Chowk; capacity 11.7 L/s \(856 m\)](#)

[H3: open/green receptor or park \(1,130 m\)](#)

[H3: MCG park - Gandhi Park; ward 31 \(270 m\)](#)

[H3: MCG pond - Subhas Nagar Pond \(453 m\)](#)

[H3: MCG green-belt lowering area - Proposed \(873 m\)](#)

[H3: rainwater-harvesting/recharge point - GSSS BOYS GURGAON VILLAGE \(450 m\)](#)

[H3: groundwater recharge screening area \(389 m\)](#)

[H3: nearest STP/treatment point - Shubhash Nagar Dhank Basti \(257 m\)](#)

[H3: nearest manhole/inlet \(0.10 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46902, 77.02703
Water concern	maximum modelled depth 0.60 m; average within 50 m 0.20 m; water remains above 15 cm for 10.9 h.
Nearest stormwater drain	mapped stormwater drain near Miya Wali Colony is 117 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 Miya Wali Colony (117 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	898 m ³	July 2025 rain
Time water remains above 15 cm	hours	10.9	July 2025 rain
Time to exceed 15 cm after rain starts	hours	10.1	July 2025 rain
Maximum depth at this point	m	0.60 m	July 2025 rain
Average depth within 50 m	m	0.20 m	July 2025 rain
Maximum modelled flow speed	m/s	0.00 m/s	July 2025 rain

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

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: mapped stormwater drain near Miya Wali Colony is about 117 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 Miya Wali Colony is about 117 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 Miya Wali Colony. Record silt depth and the free opening at each point. Desilt only where silt narrows the waterway or a clean-water flow test shows restriction; clear the full restricted reach and take before/after photographs.

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H3 / local low point	Nearest mapped pump: Mahavir Chowk; capacity 11.7 L/s; likely discharge: MCG-DESILT-STORM-09801.	Confirm at site
2	Alternate discharge check for H3	Do not discharge to the nearby sewage line (0.10 m from H3); check safe storm drain/open area after checking route to mapped stormwater drain near Miya Wali Colony (117 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to mapped stormwater drain near Miya Wali Colony (117 m)	Use gravity only if water from H3 can visibly enter mapped stormwater drain near Miya Wali Colony (117 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Miya Wali Colony (117 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 Miya Wali Colony is 117 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 1,130 m; possible temporary storage 2,056 m³; class site visit. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible nearby storage: 2,056 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: 28.46902, 77.02703
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Miya Wali Colony (117 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 Miya Wali Colony (117 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	☐	☐	140 m from New Railway 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 Miya Wali Colony (117 m) if silt/choking is seen.
Survey a new roadside connection	☐	H3: mapped stormwater drain near Miya Wali Colony is 117 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.