

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

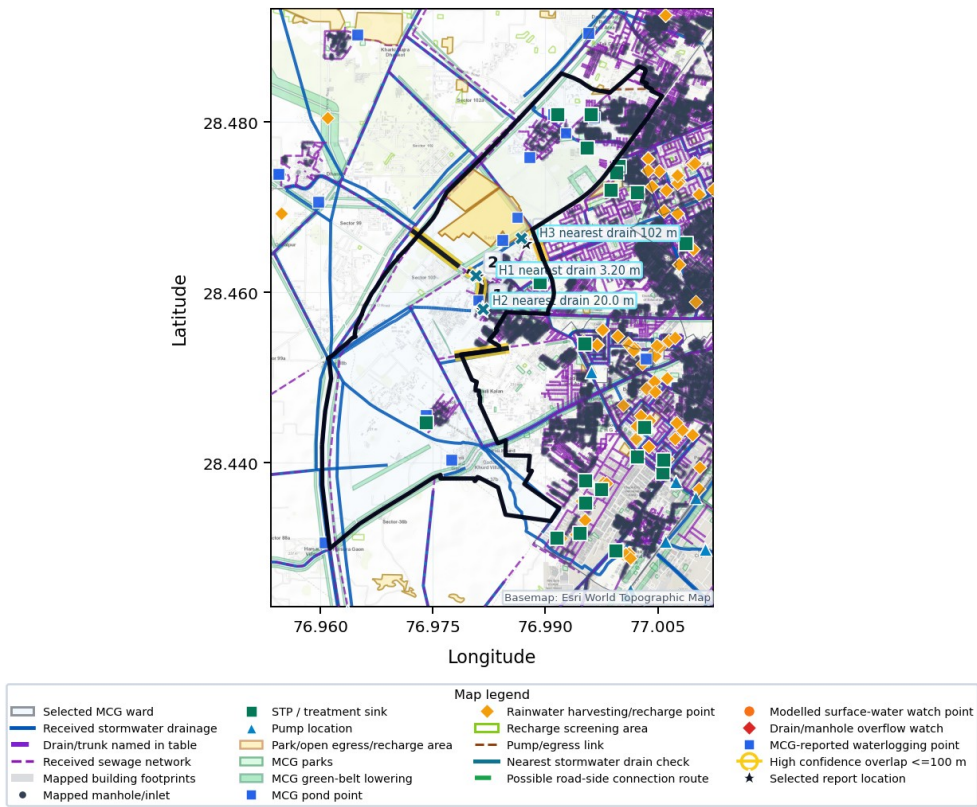
WARD NUMBER	MCG IDENTIFIED LOCATIONS	MODEL IDENTIFIED LOCATIONS
7	3	3
Ward Name / Area Covered	Basai; Basai Village; Dhanwapur; Gharoli Kalan Village; Gharoli Khurd Village; Ram Vihar; Sector 99; Sector 100; Sector 101; Sector 104; Sector 37B; Sector 37D; Sector 9B; Surat Nagar Phase 2	
Zone	Zone III	
Division	Zone III	
Assigned JE	Tilak Sharma 9821395259	
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	18 mapped MCG work-status segments overlap this ward; 8 marked completed; 8 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	Shri Dinesh Dahiya Indp 9311134693
Executive Engineer (EE)	Sh. Sunder Sheoran, EE, 9466427222
Assistant Engineer (AE)	Sh. Pawan, AE, 8448534777
JE Development	Tilak Sharma 9821395259
JE Enforcement	Pradeep Sharma 79883 11378
JE Horticulture	Akhlaq 9821395227
JE Electrical	Rahul Sharma 8077405619

Ward Action Map

Ward 7: 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 2,506 stormwater line segments, 23,058 sewage line segments, 6,951 manhole/inlet points, 25 STP/treatment points, 260 MCG park polygons, 18 pond points, 134 green-belt lowering areas and 224 rainwater-harvesting/recharge points from the approved GIS packet.

Field Action Summary

#	Location	Expected water	Mapped drain option	First field action
H1	Basai Village, near Lakhpat Kataria house	maximum modelled depth 0.40 m; average within 50 m 0.10 m; water remains above 15 cm for 10.4 h.	mapped stormwater drain near Basai Village, near Lakhpat Kataria house is 3.20 m away. The mapped roadside option is 8.00 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H2	Basai Village, near Lakhpat Kataria house	maximum modelled depth 0.35 m; average within 50 m 0.30 m; water remains above 15 cm for 6.7 h.	mapped stormwater drain near Basai Village, near Lakhpat Kataria house is 20.0 m away. The mapped roadside option is 21.0 m long and is not yet field-approved.	Check water backing up at the manhole; verify trunk drain level before pumping.
H3	Basai Village near Community Center	maximum modelled depth 0.46 m; average within 50 m 0.40 m; water remains above 15 cm for 11.2 h.	map label 27872 (storm) near Basai Village near Community Center is 102 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	Basai Village, near Lakhpat Kataria house	28.45905	76.98101	0.47 m; above 15 cm for 2.2 h	Confirm at this location
R0 2	MCG	Basai Village near Community Center	28.46876	76.98623	0.10 m; above 15 cm for 33 min	Confirm at this location
R0 3	MCG	Dhanwapur Village near Bikaner Chowk	28.47868	76.99274	0.35 m; above 15 cm for 69 min	Confirm at this location
M0 1	Overflow watch	Basai Village, near Lakhpat Kataria house	28.45800	76.98161	0.40 m; above 15 cm for 10.4 h	Confirm at this location
M0 2	Overflow watch	Basai Village, near Lakhpat Kataria house	28.46185	76.98093	0.35 m; above 15 cm for 6.7 h	Confirm at this location
M0 3	Overflow watch	Basai Village near Community Center	28.46569	76.98743	0.46 m; above 15 cm for 11.2 h	Confirm at this location

Hotspot-wise Details

HOTSPOT 1

1. Hotspot Identification

Hotspot Name	Basai Village, near Lakhpur Kataria house
Latitude / Longitude	28.45800, 76.98161
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 \(3.20 m\)](#)

[H1: nearest mapped stormwater line \(3.20 m\)](#)

[H1: mapped action drain - map label SWD-LINE-220 \(3.20 m\)](#)

[H1: mapped main stormwater drain \(547 m\)](#)

[H1: nearest mapped sewage line \(1.20 m\)](#)

[H1: possible roadside connection route](#)

[H1: mapped pump - Sector 9A near Railway line; capacity 11.7 L/s \(1,253 m\)](#)

[H1: open/green receptor or park - Open/lowland receptor; storage 44,758 m³ \(824 m\)](#)

[H1: MCG park - Basai Park Near Shiv Mandir; ward 07 \(296 m\)](#)

[H1: MCG pond - Basai Village Pond Near Govt School \(897 m\)](#)

[H1: MCG green-belt lowering area - Proposed \(33.4 m\)](#)

[H1: rainwater-harvesting/recharge point - GSSS BASAI \(795 m\)](#)

[H1: groundwater recharge screening area \(788 m\)](#)

[H1: nearest STP/treatment point - MICRO STP BASAI VILLAGE NEAR POND; capacity 50.0 KLD \(832 m\)](#)

[H1: nearest manhole/inlet \(9.30 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.45800, 76.98161
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Water concern	maximum modelled depth 0.40 m; average within 50 m 0.10 m; water remains above 15 cm for 10.4 h.
Nearest stormwater drain	mapped stormwater drain near Basai Village, near Lakhpat Kataria house is 3.20 m away. The mapped roadside option is 8.00 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 8.00 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 2.80 m and 5.20 m from the mapped locations. Before approval, survey the level at both ends, confirm continuous fall toward the drain, mark every utility crossing and check that the receiving drain can accept flow. Do not construct if any check fails.
Nearby MCG sewage line	MCG sewage line is about 1.20 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
First action at site	Check water backing up at the manhole; verify trunk drain level before pumping.
Before monsoon	Inspect and desilt mapped stormwater drain near Basai Village, near Lakhpat Kataria house (3.20 m) if silt/choking is seen.
Escalate if	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

2. Source

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

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

At H1, record observed water depth, time, inlet condition and receiving-drain level. Compare these with the model estimate before work begins.

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m ³	801 m ³	July 2025 rain
Time water remains above 15 cm	hours	10.4	July 2025 rain
Time to exceed 15 cm after rain starts	hours	8.1	July 2025 rain
Maximum depth at this point	m	0.40 m	July 2025 rain
Average depth within 50 m	m	0.10 m	July 2025 rain
Maximum modelled flow speed	m/s	0.00 m/s	July 2025 rain

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

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: mapped stormwater drain near Basai Village, near Lakhpat Kataria house is about 3.20 m away and the mapped roadside option is about 8.00 m long. Open the inlet and receiving-drain access point, then use a clean-water flow test or observe the next rainfall to confirm that water reaches the drain without backing up. Sewage check: an MCG sewage line is about 1.20 m away. Inspect the nearest manhole for rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

Mapped option: approximately 8.00 m of roadside connection to mapped stormwater drain near Basai Village, near Lakhpat Kataria house, which is 3.20 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 Basai Village, near Lakhpat Kataria house. 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 Basai Village, near Lakhpat Kataria house (3.20 m) or a verified open/green area; do not use the nearby sewage line (1.20 m from H1) as discharge.	111 L/s for 2-hour clearing; 55.6 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 (1.20 m from H1); check safe storm drain/open area after checking route to mapped stormwater drain near Basai Village, near Lakhpat Kataria house (3.20 m).	Use only if site access and discharge permission are clear for H1.
3	Gravity route to mapped stormwater drain near Basai Village, near Lakhpat Kataria house (3.20 m)	Use gravity only if water from H1 can visibly enter mapped stormwater drain near Basai Village, near Lakhpat Kataria house (3.20 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Basai Village, near Lakhpat Kataria house (3.20 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 Basai Village, near Lakhpat Kataria house (3.20 m) cannot be restored. H1: survey the mapped 8.00 m roadside option to mapped stormwater drain near Basai Village, near Lakhpat Kataria house, which is 3.20 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: Open/lowland receptor; distance 824 m; possible temporary storage 44,758 m³; class priority. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: Open/lowland receptor; possible storage 44,758 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: 28.45800, 76.98161
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Basai Village, near Lakhpat Kataria house (3.20 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 8.00 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 2.80 m and 5.20 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 Basai Village, near Lakhpat Kataria house (3.20 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 1.20 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only after checking manhole/trunk level; estimated 2 h pump need is about 111 L/s.
Road/access safety checked	☐	☐	2 m from Sub. Major Laxmi Chand Road (primary)
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 Basai Village, near Lakhpat Kataria house (3.20 m) if silt/choking is seen.
Survey a new roadside connection	☐	H1: survey the mapped 8.00 m roadside option to mapped stormwater drain near Basai Village, near Lakhpat Kataria house, which is 3.20 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 111 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	Basai Village, near Lakhpat Kataria house
Latitude / Longitude	28.46185, 76.98093
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 \(20.0 m\)](#)

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

[H2: mapped action drain - map label SWD-LINE-220 \(0.10 m\)](#)

[H2: mapped main stormwater drain \(270 m\)](#)

[H2: nearest mapped sewage line \(8.90 m\)](#)

[H2: possible roadside connection route](#)

[H2: mapped pump - Sector 9A near Railway line; capacity 11.7 L/s \(984 m\)](#)

[H2: open/green receptor or park - Open/lowland receptor; storage 44,758 m³ \(428 m\)](#)

[H2: MCG park - Pond Park Basai Village; ward 07 \(564 m\)](#)

[H2: MCG pond - Basai Dada Bhaiya Pond \(580 m\)](#)

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

[H2: rainwater-harvesting/recharge point - GSSS BASAI \(724 m\)](#)

[H2: groundwater recharge screening area - Open/lowland receptor; field-check \(428 m\)](#)

[H2: nearest STP/treatment point - MICRO STP BASAI VILLAGE NEAR POND; capacity 50.0 KLD \(826 m\)](#)

[H2: nearest manhole/inlet \(132 m\)](#)

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46185, 76.98093
Water concern	maximum modelled depth 0.35 m; average within 50 m 0.30 m; water remains above 15 cm for 6.7 h.

Nearest stormwater drain	mapped stormwater drain near Basai Village, near Lakhpat Kataria house is 20.0 m away. The mapped roadside option is 21.0 m long and is not yet field-approved.
Roadside connection checks	Mapped roadside option: approximately 21.0 m from this point to the receiving stormwater drain. The map follows roads and avoids mapped buildings. The route starts and ends at the nearest road points, about 10.1 m and 10.9 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 8.90 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 Basai Village, near Lakhpat Kataria house (20.0 m) if silt/choking is seen.
Escalate if	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

2. Source

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

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

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

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m³	1,062 m³	July 2025 rain
Time water remains above 15 cm	hours	6.7	July 2025 rain
Time to exceed 15 cm after rain starts	hours	7.4	July 2025 rain
Maximum depth at this point	m	0.35 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

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 Basai Village, near Lakhpat Kataria house is about 20.0 m away and the mapped roadside option is about 21.0 m long. Open the inlet and receiving-drain access

point, then use a clean-water flow test or observe the next rainfall to confirm that water reaches the drain without backing up. Sewage check: an MCG sewage line is about 8.90 m away. Inspect the nearest manhole for rising water, but never use the sewage line as a stormwater or pump outlet.

b. Possible New Stormwater Connection

Mapped option: approximately 21.0 m of roadside connection to mapped stormwater drain near Basai Village, near Lakhpat Kataria house, which is 20.0 m away directly. Before sanctioning work, measure the source and receiving-drain levels, confirm continuous fall toward the drain, mark utility crossings and check that the receiving drain can accept the added flow. Do not construct if any one of these checks fails.

c. When to Desilt

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

d. Temporary Pump Decision

S.No.	Pump Location	Discharge Point	Pump Capacity / Type
1	H2 / local low point	Nearest mapped pump: Sector 9A near Railway line; capacity 11.7 L/s; discharge point to be confirmed at site.	Confirm at site
2	Alternate discharge check for H2	Do not discharge to the nearby sewage line (8.90 m from H2); check safe storm drain/open area after checking route to mapped stormwater drain near Basai Village, near Lakhpat Kataria house (20.0 m).	Use only if site access and discharge permission are clear for H2.
3	Gravity route to mapped stormwater drain near Basai Village, near Lakhpat Kataria house (20.0 m)	Use gravity only if water from H2 can visibly enter mapped stormwater drain near Basai Village, near Lakhpat Kataria house (20.0 m) after inlet and drain-level check.	No pump needed only if flow into mapped stormwater drain near Basai Village, near Lakhpat Kataria house (20.0 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 Basai Village, near Lakhpat Kataria house (20.0 m) cannot be restored. H2: survey the mapped 21.0 m roadside option to mapped stormwater drain near Basai Village, near Lakhpat Kataria house, which is 20.0 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.

f. Rainwater Harvesting Check

Nearby open/receptor area: Open/lowland receptor; distance 428 m; possible temporary storage 44,758 m³; class priority. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: Open/lowland receptor; possible storage 44,758 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: 28.46185, 76.98093
Nearest drain/trunk visible	☐	☐	mapped stormwater drain near Basai Village, near Lakhpat Kataria house (20.0 m)
Roadside connection route surveyed	☐	☐	Mapped roadside option: approximately 21.0 m from this point to the receiving stormwater drain. The map follows roads and avoids mapped buildings. The route starts and ends at the nearest road points, about 10.1 m and 10.9 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 Basai Village, near Lakhpat Kataria house (20.0 m).
Sewage manhole overflow checked	☐	☐	MCG sewage line is about 8.90 m away. Check the nearest manhole for rising water. Do not discharge stormwater into this line.
Safe pump discharge route available	☐	☐	Keep pump ready only after checking manhole/trunk level; pump capacity to be checked at site.
Road/access safety checked	☐	☐	12 m from Sub. Major Laxmi Chand Road Flyover (primary)
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 Basai Village, near Lakhpat Kataria house (20.0 m) if silt/choking is seen.
Survey a new roadside connection	☐	H2: survey the mapped 21.0 m roadside option to mapped stormwater drain near Basai Village, near Lakhpat Kataria house, which is 20.0 m away directly. Measure levels at the source and receiving drain, confirm continuous fall, mark utilities and verify that the drain has capacity. Approve construction only when all four checks pass.
Use a temporary pump	☐	Keep pump ready only after checking manhole/trunk level; pump capacity to be checked at site.
Escalate or restrict access	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

HOTSPOT 3

1. Hotspot Identification

Hotspot Name	Basai Village near Community Center
Latitude / Longitude	28.46569, 76.98743
Open location	Use the link below to open this point on Google Maps.

Google Map Links for Hotspot and Assets

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

[H3: hotspot pin](#)

[H3: mapped receiving stormwater drain - map label 27872 \(102 m\)](#)

[H3: nearest mapped stormwater line - map label 27872 \(102 m\)](#)

[H3: mapped action drain \(144 m\)](#)

[H3: mapped main stormwater drain \(144 m\)](#)

[H3: nearest mapped sewage line \(0.30 m\)](#)

[H3: mapped pump - Sector 9A near Railway line; capacity 11.7 L/s \(228 m\)](#)

[H3: open/green receptor or park - Open/lowland receptor; storage 44,758 m³ \(131 m\)](#)

[H3: MCG park - Park Near H. No. 851; ward 08 \(261 m\)](#)

[H3: MCG pond - Basai Dada Bhaiya Pond \(317 m\)](#)

[H3: MCG green-belt lowering area - Proposed \(159 m\)](#)

[H3: rainwater-harvesting/recharge point - GSSS BASAI \(413 m\)](#)

[H3: groundwater recharge screening area - Open/lowland receptor; field-check \(131 m\)](#)

[H3: nearest STP/treatment point - MICRO STP SECTOR-09A NEAR RAILWAY LINE; capacity 25.0 KLD \(279 m\)](#)

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

Scan QR code to open this hotspot on phone maps.



Hotspot Action Card

Go to	28.46569, 76.98743
Water concern	maximum modelled depth 0.46 m; average within 50 m 0.40 m; water remains above 15 cm for 11.2 h.

Nearest stormwater drain	map label 27872 (storm) near Basai Village near Community Center is 102 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 map label 27872 (storm) near Basai Village near Community Center (102 m) if silt/choking is seen.
Escalate if	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

2. Source

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

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

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

Field measure	Unit	Model estimate	Selected rainfall
Ponded water within 50 m	m³	2,187 m³	July 2025 rain
Time water remains above 15 cm	hours	11.2	July 2025 rain
Time to exceed 15 cm after rain starts	minutes	82	July 2025 rain
Maximum depth at this point	m	0.46 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

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

5. Recommendations

a. Drainage and Sewage Checks

Stormwater check: map label 27872 (storm) near Basai Village near Community Center is about 102 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

map label 27872 (storm) near Basai Village near Community Center is about 102 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 map label 27872 (storm) near Basai Village near Community Center. 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: Sector 9A near Railway line; capacity 11.7 L/s; discharge point to be confirmed at site.	Confirm at site
2	Alternate discharge check for H3	Do not discharge to the nearby sewage line (0.30 m from H3); check safe storm drain/open area after checking route to map label 27872 (storm) near Basai Village near Community Center (102 m).	Use only if site access and discharge permission are clear for H3.
3	Gravity route to map label 27872 (storm) near Basai Village near Community Center (102 m)	Use gravity only if water from H3 can visibly enter map label 27872 (storm) near Basai Village near Community Center (102 m) after inlet and drain-level check.	No pump needed only if flow into map label 27872 (storm) near Basai Village near Community Center (102 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: map label 27872 (storm) near Basai Village near Community Center is 102 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: Open/lowland receptor; distance 131 m; possible temporary storage 44,758 m³; class priority. Use only after checking groundwater, water quality and ownership.

g. Temporary Diversion to Park or Pond

Possible receiving area: Open/lowland receptor; possible storage 44,758 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: 28.46569, 76.98743
Nearest drain/trunk visible	☐	☐	map label 27872 (storm) near Basai Village near Community Center (102 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 map label 27872 (storm) near Basai Village near Community Center (102 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	☐	☐	111 m from secondary
Photos taken and attached	☐	☐	Photo label should include H3.
Needs escalation to senior engineer	☐	☐	Escalate if manhole overflow continues, trunk water level is high, or pumping has no safe discharge route.

7. Field Decision Box for H3

Decision	Select	Field note
Clean inlet/blockage immediately	☐	Check water backing up at the manhole; verify trunk drain level before pumping.
Inspect/desilt stormwater drain	☐	Inspect and desilt map label 27872 (storm) near Basai Village near Community Center (102 m) if silt/choking is seen.
Survey a new roadside connection	☐	H3: map label 27872 (storm) near Basai Village near Community Center is 102 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.