

Sub: **Regarding suggestions / objections from public / Residents of colony on the Draft Road Network Plan on pilot basis for proposal of 03 unauthorised colonies prepared by SPA, Delhi namely Khirki Extn. Malviya Nagar (Reg no. 897), Saroop Nagar Extn. WXYZ Block Pt-II East Village Libaspur (Reg no. 904) and East Azad Nagar (Reg. No. 53-ELD).**

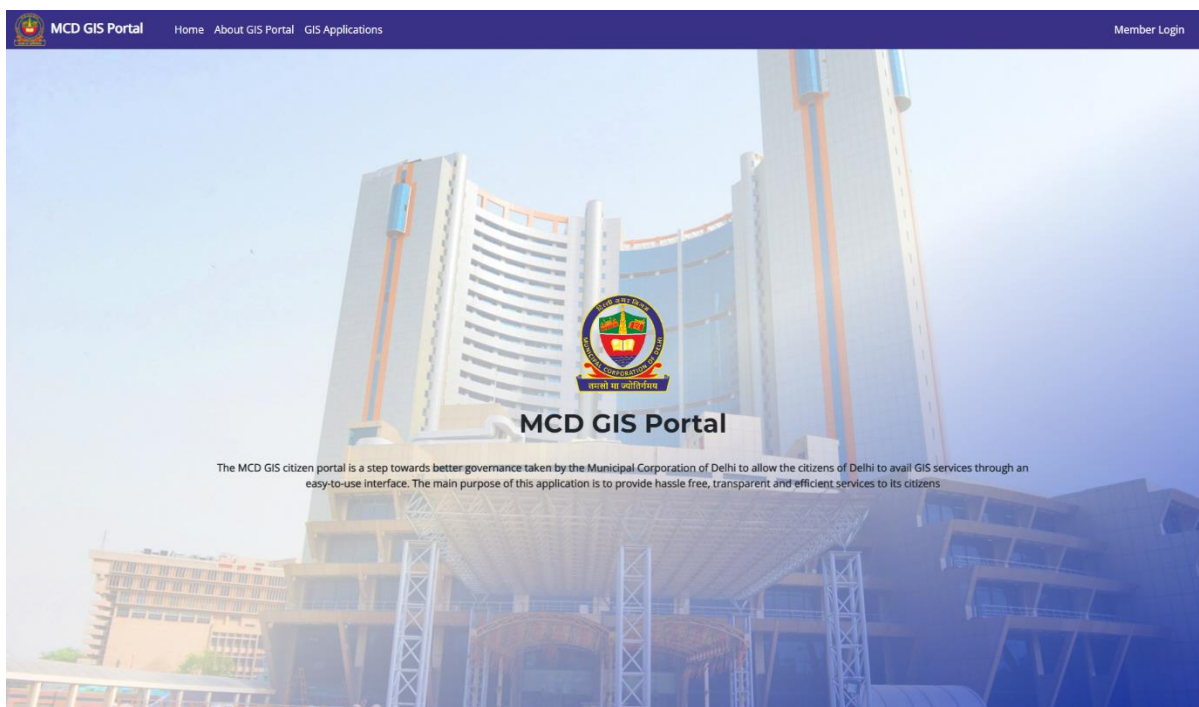
The competent authority has accorded the permission to the IT Deptt. MCD (copy placed at 1/C), to run the above subject Road Network Plans (RNPs) for obtaining the suggestions / objections from Public / Residents of colony for a period of 30 days on the MCD website with the following caption:

The suggestions / objections on draft Road Network Plans (RNPs) of Khirki Extn. Malviya Nagar , Saroop Nagar Extn. WXYZ Block Pt-II East Village Libaspur and East Azad Nagar as prepared by DDA are available to the general public and open for suggestions and objections.

Sl. No.	Colony Name	Regn. No.	E-mail ID
1	Khirki Extn. Malviya Nagar	Reg No. 897	Sgst.eastazadngr@mcd.nic.in
2	Saroop Nagar Extn. WXYZ Block Pt-II East Village Libaspur	Reg No. 904	Sgst.kdkextn@mcd.nic.in
3	East Azad Nagar	Reg. No. 53-ELD	Swrp.ngr@mcd.nic.in

For any suggestions or objections, please send on above mentioned e-mail Ids latest by 24.02.2024.

MORE EFFECTIVE GOVERNANCE WITH GIS

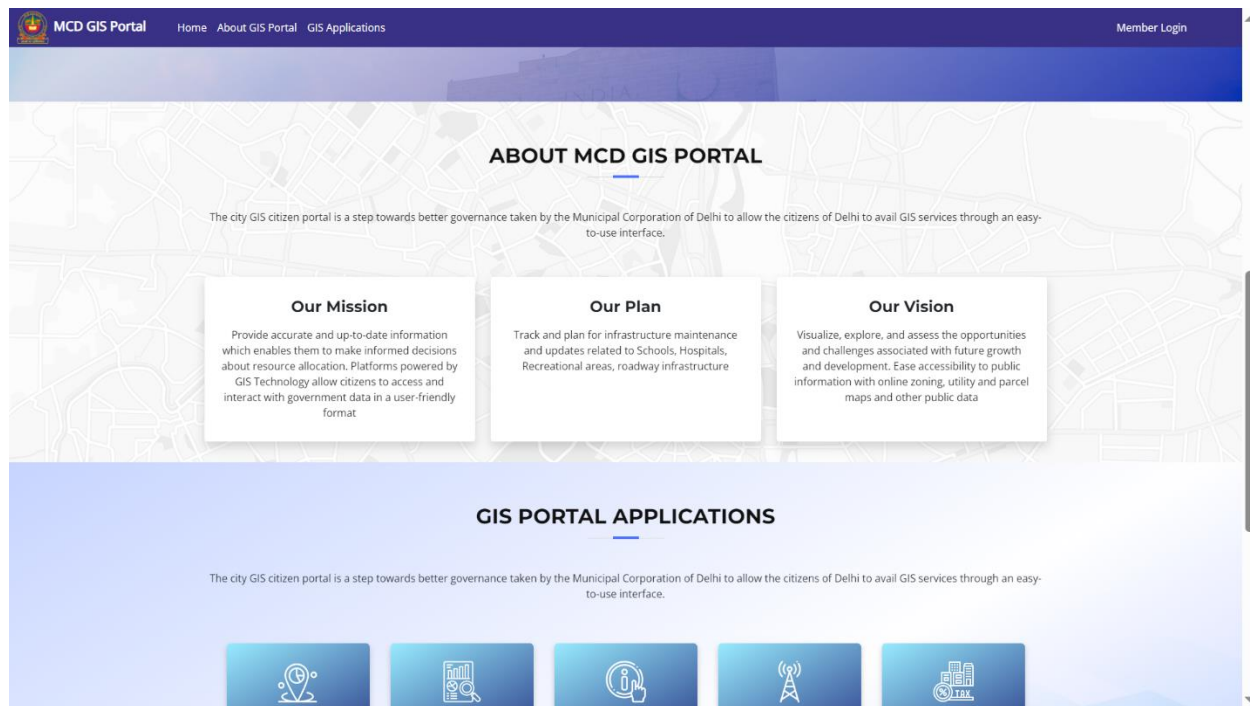


Client: Municipal Corporation of Delhi	Project: MCD GIS citizen portal
Industry: Urban	Website: https://webgis.mcd.live/home
Organization Profile The three existing civic bodies, East Delhi Municipal Corporation (EDMC), North Delhi Municipal Corporation (NDMC), and South Delhi Municipal Corporation (SDMC) are re-unified into a single entity as Municipal Corporation of Delhi. The Municipal Corporation of Delhi is one of the largest municipal bodies in the world providing civic services to approximately 20 million citizens of Delhi. It occupies an area of 1397.3 sq. km. which is sub-divided into 12 Zones i.e. Centre, South, West, Najafgarh, Rohini, Civil Lines, Karol Bagh, SP-City, Keshavpuram, Narela, Shahdara North & Shahdara South.	

PROJECT SUMMARY

The MCD GIS citizen portal is a step towards better governance taken by the Municipal Corporation of Delhi to allow the citizens of Delhi to avail various services through an easy-to-use interface. The main purpose of this project is to provide a planning tool and updated information for departmental officers to design their projects/ schemes that help in delivering hassle free, transparent and efficient services to its citizens. The services include public outreach, tower location analysis, property tax, tax comparison,

factory and general trade licenses, health and veterinary trade licenses, *Tehbazari*, birth & death registration, *swatchta karamchari* attendance, seasonal mosquito control monitoring, etc.



CHALLENGES

Under the conventional system, the Municipal Corporation of Delhi (MCD) faced numerous challenges in effectively managing its widely dispersed resources and assets. Access to critical data was restrained within specific zones and divisions, relying primarily on different computer systems, Excel files, and paper-based workflows. The absence of an efficient and consolidated monitoring mechanism contributed to an uneven distribution of resources and a fragmented understanding of the overall area. Consequently, budget allocations for the improvement of MCD's jurisdiction exhibited inconsistency, obstructing the seamless implementation of targeted developmental initiatives. Furthermore, the decision-making process suffered from siloed information and the unavailability of a structured visualization tool, resulting in limited analytical insights and hindrances in strategic planning. The constraints of the conventional system were a significant challenge to MCD's capacity to efficiently manage resources and make well-informed decisions.

BENEFITS

Esri India's holistic solution has efficiently resolved the challenges faced by MCD through a single window-enabled GIS portal. The following measures have been taken to address the challenges:

Data Model Design: Implementation of a robust data model for structured data management and seamless integration equipped with GPL and Postgres.

Existing Data Migration: Smooth transition of existing data from the conventional system to the GIS platform, preserving critical historical records and information.

Data Preparation/Publishing: Facilitation of accurate data preparation and publishing, ensuring data reliability within the GIS framework.

Web Application Development: Creation of intuitive web applications for simplified access and visualization of geospatial data, streamlining asset monitoring and management.

Mobile App for Property Tax Survey: Integration of a mobile application for property tax surveys, enabling efficient data collection and real-time updates for accurate property tax assessments.

Capital Project Plan App: Implementation of a dedicated application for the planning and monitoring of infrastructure development projects, optimizing resource allocation, and enhancing project management efficiency.

Dashboards: Development of interactive dashboards offering stakeholders comprehensive insights and real-time updates on various operational aspects, fostering data-driven decision-making.

Scripts: Deployment of customized scripts automating complex processes, streamlining tasks, and enhancing operational efficiency within the MCD's framework. This includes the integration of various APIs through which the department is enabled to embed the data.

User-Level Training on Developed Applications: Conducting comprehensive training sessions for users to ensure proficiency in utilizing the newly developed applications, fostering self-sufficiency, and promoting the widespread adoption of the GIS platform within the organization.

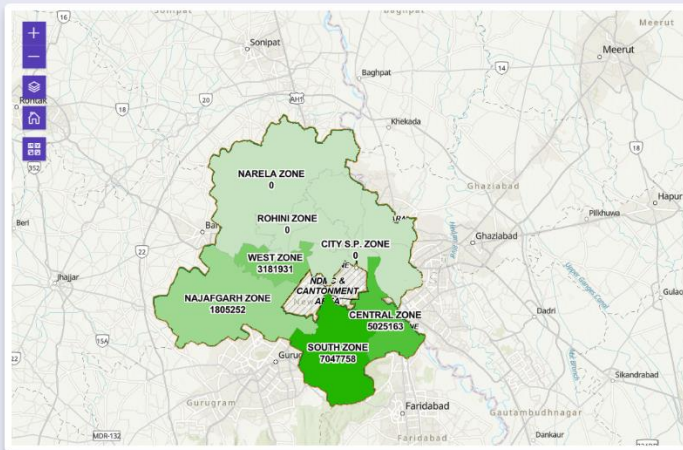
The solution's suite of web applications has brought about a host of additional benefits, including expanded public outreach capabilities, comprehensive analysis of tower locations, streamlined management of property tax records, insightful tax comparison functionalities, efficient oversight of factory and general trade licenses, improved administration of health and veterinary trade licenses, simplified processes for managing Tehbazari activities, seamless handling of birth and death registrations, enhanced monitoring of Swatchta Karamchari attendance, and effective oversight of seasonal mosquito control activities.

PROPERTY TAX REGISTRATION

Amount View

Registration View

Comparison View



Total Amount Collected (₹)
17,060,104

Total Amount Collected (in INR)



Filter Selection

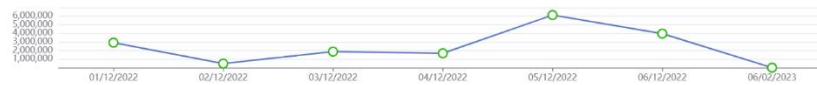
Select Zone

Select Ward

Date Selection

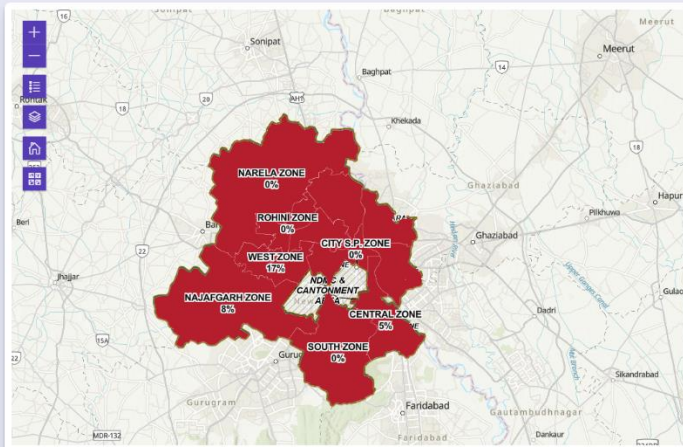
Week Month Year Custom

Date wise Collection



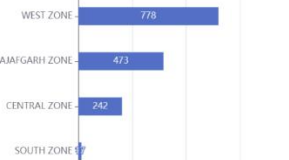
SWATCHTA KARAMCHARI ATTENDANCE ANALYSIS DASHBOARD

Attendance View



Present / Total Employee
1,517 / 57,402

Attendance Count Chart



Filter Selection

Select Zone

Select Ward

Date Selection

09-08-2022

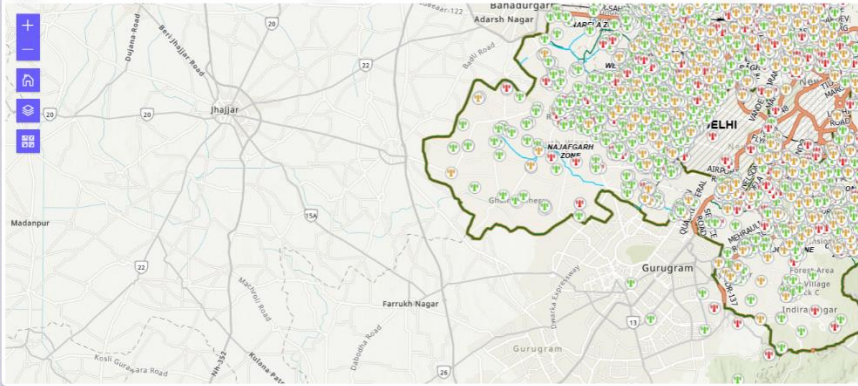
ROW- TOWER LOCATION ANALYSIS DASHBOARD

Last Updated: Fri, 13 Oct 2023 17:00:27

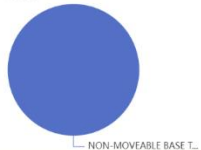
Total Tower
5770

Permission for Regularization
994

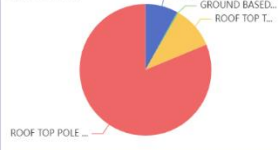
New Permission
4776



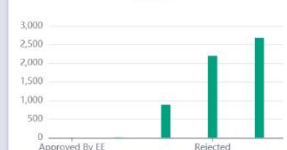
Category Chart



Type Chart



Status



MCD Mosquito Inspection

Select a date
9/27/2023 - 9/27/2023

Select Zone
All

Select a category
All

Employees
759

Office Inspection
3886

No Breeding Found
37917

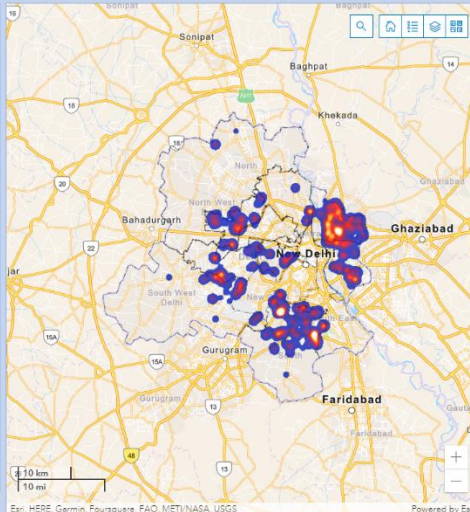
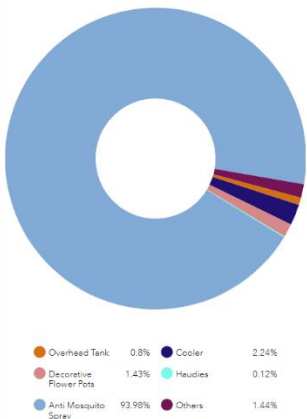
Breeding Found
1486

Fogging
3858

Anti Mosquito Spray
13611

Total
60758

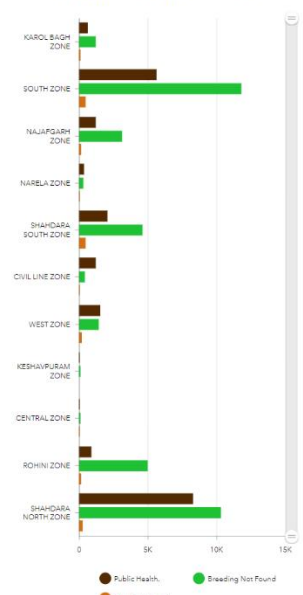
Breeding Found (Sub Categories)

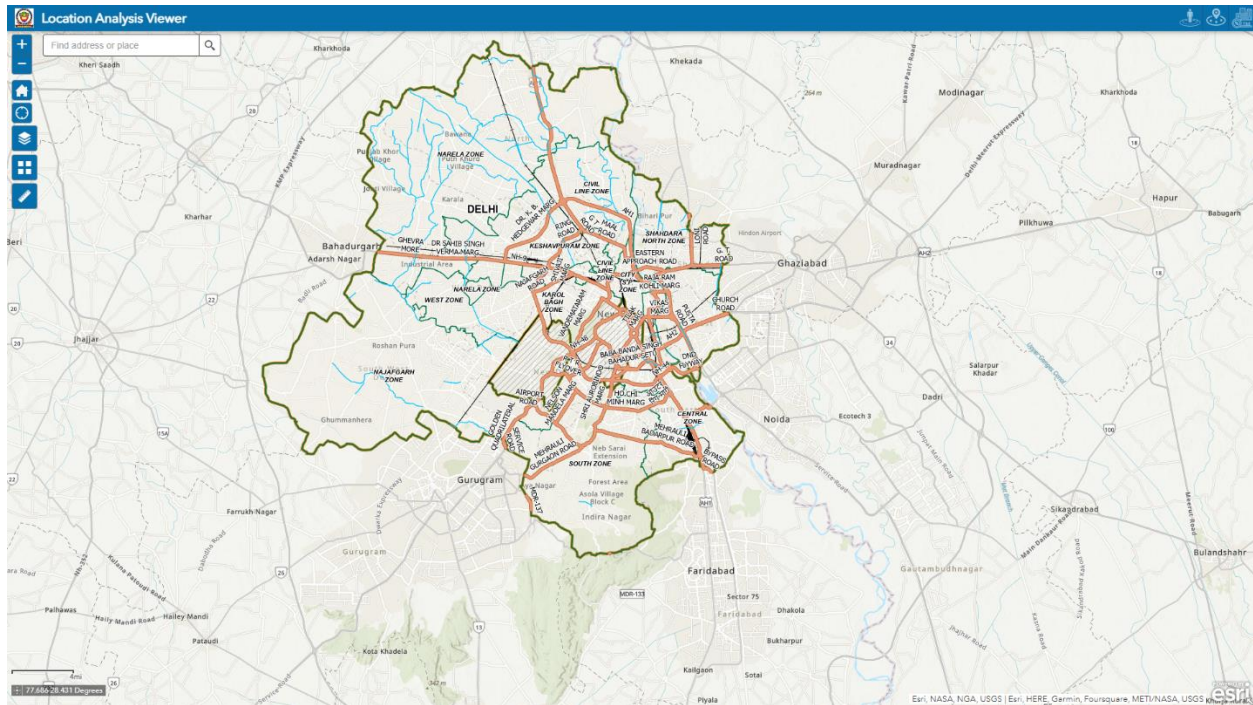


MosquitoData
+ High
- Low

Zone Boundary

Zonewise Categories Found





These web applications have collectively contributed to the overall efficiency and transparency of the Municipal Corporation of Delhi's operations, promoting enhanced service delivery and streamlined administrative processes.

MAJOR ADVANTAGES

Visualization of MCD Assets and Properties: The GIS solution enables the visualization of MCD assets and properties with metadata on a comprehensive GIS map, incorporating essential geodata for enhanced spatial analysis and informed decision-making.

Integration with Online Applications: The system's integration with various online applications enables the display of real-time visualization of thematic maps, providing updated status information for tower permission applications, property tax, licenses, and other relevant processes, ensuring transparency and streamlined workflow.

Simplified Information Management: The GIS tool simplifies the overall process of compiling, handling, manipulating, interpreting, and distributing information for the department, fostering improved data management and operational efficiency.

Enhanced Communication and Decision-Making: The strengthened communication and decision-making systems facilitated by the GIS solution promote better collaboration among stakeholders, leading to more informed and effective decision-making processes within the MCD.

Streamlined Resource Management: The sourced information through the GIS platform significantly eases day-to-day resource management, providing valuable insights for efficient resource allocation and utilization, thereby improving operational efficacy and resource optimization.

“After implementing the new GIS solution, MCD as an organization has been able to take a leap in their service delivery. All the existing raw data integrated into the new system has enabled us to use it in various departmental activities, planning and visualization. The near real-time data integration provides daily base data updates along with analysis and comparisons on map as well as analytical charts, which further ease the monitoring capabilities of the officers. Moreover, Heat Maps generated with the help of the GIS System, are useful in identifying more prone areas falling under any schemes to provide more thrust-by-field functionalities. This system will surely reflect in the ROI outcome to MCD in the coming years.” - **Mr. Durgesh Kumar, Consultant (IT), Municipal Corporation of Delhi**



LEGEND

 Colony Boundary

Use Premise

Residential

Existing roads.

Proposals

 Proposed 6m roads (by widening)

(Road proposals illustrated on the map includes 350 mm of additional provision on both sides of the roads for storm water drainage.)

Note: No Government owned facilities could be identified within the delineated boundary of the colony.

Scale 1:550

0 20 40 Meters 80



Prepared by





LEGEND

Colony Boundary

Use Premise

Residential

Existing roads

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Proposed 6m roads (by widening)

(Road proposals illustrated on the map includes 350 mm of additional provision on both sides of the roads for storm water drainage)

Percentage of plot affected due to road widening

Less than 5

5 - 10

11 - 20

21 - 50

51 - 100

(Unmarked plots are unaffected)

Plot size	Total no. of plots	No. of plots affected by road widening	% of plots affected by road widening
1.00-1.50	11	1	9.1
1.50-2.00	11	1	9.1
2.00-2.50	11	1	9.1
2.50-3.00	11	1	9.1
3.00-3.50	11	1	9.1
3.50-4.00	11	1	9.1
4.00-4.50	11	1	9.1
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5.50-6.00	11	1	9.1
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98.00-98.50	11	1	9.1
98.50-99.00	11	1	9.1
99.00-99.50	11	1	9.1
99.50-100.00	11	1	9.1

Histogram (No. of plots vs % affected)

Note: No Government owned facilities could be identified within the delineated boundary of the colony.

Scale 1:550

0 20 40 Meters 80

Prepared by

LAYOUT PLAN OF EAST AZAD NAGAR (REG. NO. 53-ELD)
[ROAD NETWORK PLAN]



LEGEND

Colony Boundary

Use Premise

Residential

Existing roads

Proposals

Proposed 6m roads (by widening)

(Road proposals illustrated on the map includes 350 mm of additional provision on both sides of the roads for storm water drainage)

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Scale
1:550

0 20 40 Meters 80

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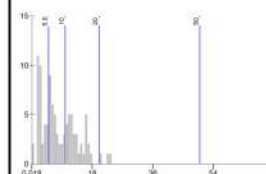
21 - 50

51 - 100

(Unmarked plots are unaffected)

Plot size	Total count	Affected plots	No. of plots affected by %				
			< 5%	5% - 10%	11% - 20%	21% - 50%	51% - 100%
< 50 sqm	44	12	1	1	7	3	0
50 - 100 sqm	55	42	12	13	16	0	1
100 - 250 sqm	36	44	18	16	0	0	0
250 - 500 sqm	1	1	1	0	0	0	0
> 500 sqm	0	0	0	0	0	0	0
Total	136	99	33	30	32	3	1
Total (in % age)			63%	21%	19%	2%	1%

Histogram (No. of plots vs % affected)



Note: No Government owned facilities could be identified within the delineated boundary of the colony.

Scale 1:550

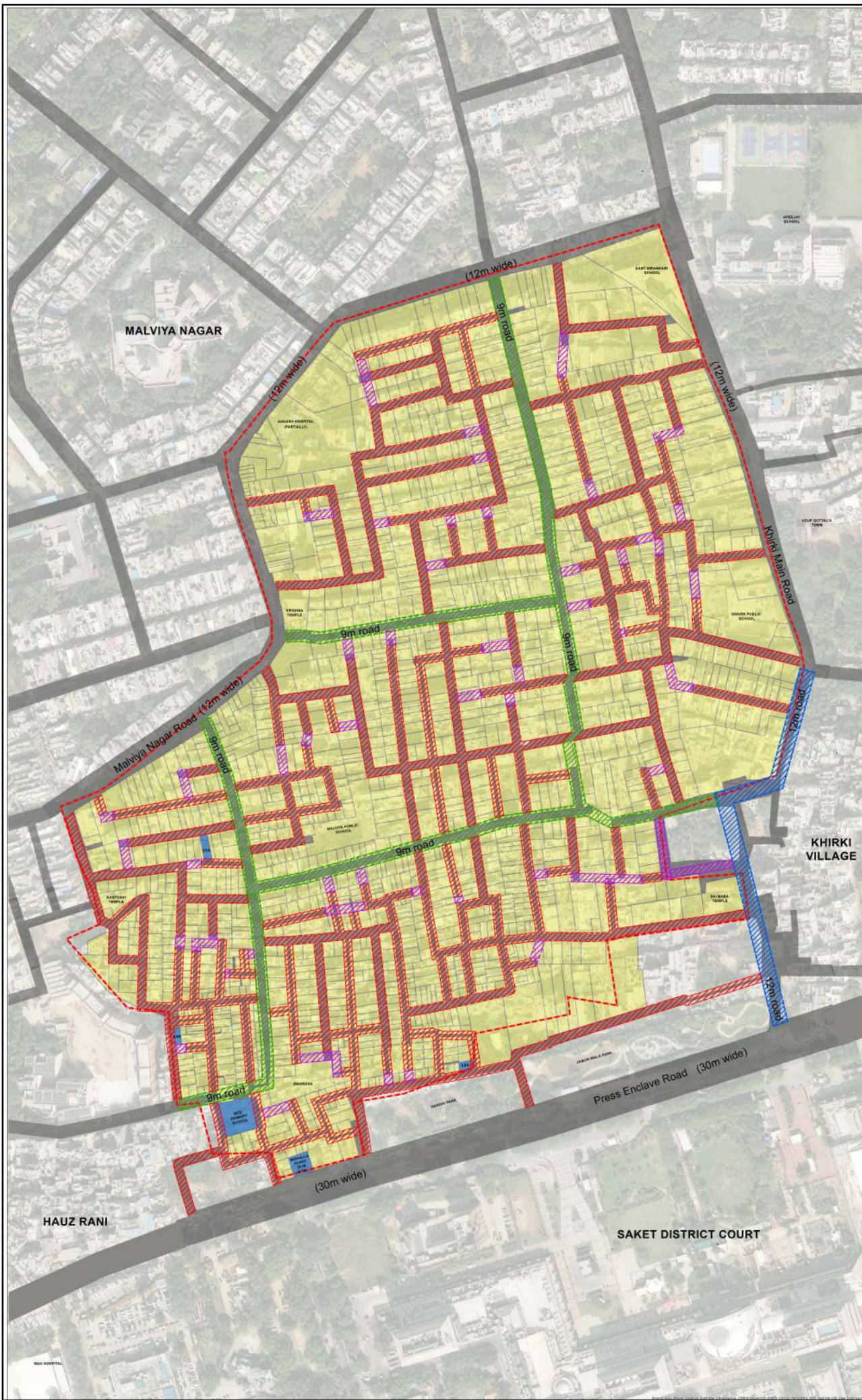
0 20 40 Meters 80



Prepared by



LAYOUT PLAN OF EAST AZAD NAGAR (REG. NO. 53-ELD)
[ROAD NETWORK PLAN]



LEGEND

Colony Boundary

Use Premise

Residential

Government owned facilities

Existing roads

Proposals

Proposed 12m roads

Proposed 9m roads

Proposed 6m roads (by widening)

Proposed 6m roads (by augmentation)

(Road proposals illustrated on the map includes 350 mm of additional provision on both sides of the roads for storm water drainage)

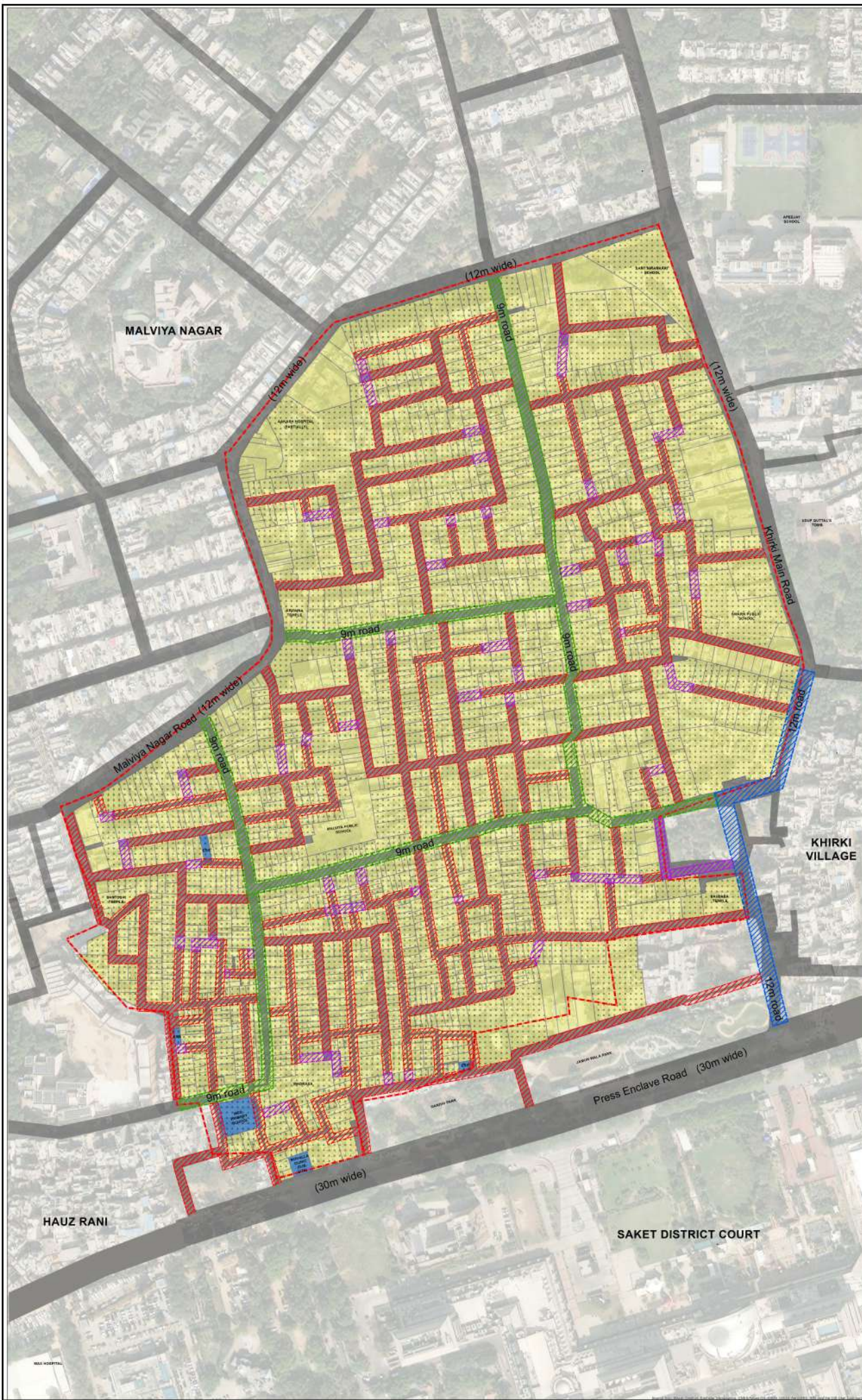
Scale 1:1,000

0 50 100 Meters

N
W E
S

Prepared by

LAYOUT PLAN OF KHIRKI EXTENSION, MALVIYA NAGAR (REG. NO. 897)
[ROAD NETWORK PLAN]



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51 - 100

(Unmarked plots are unaffected)

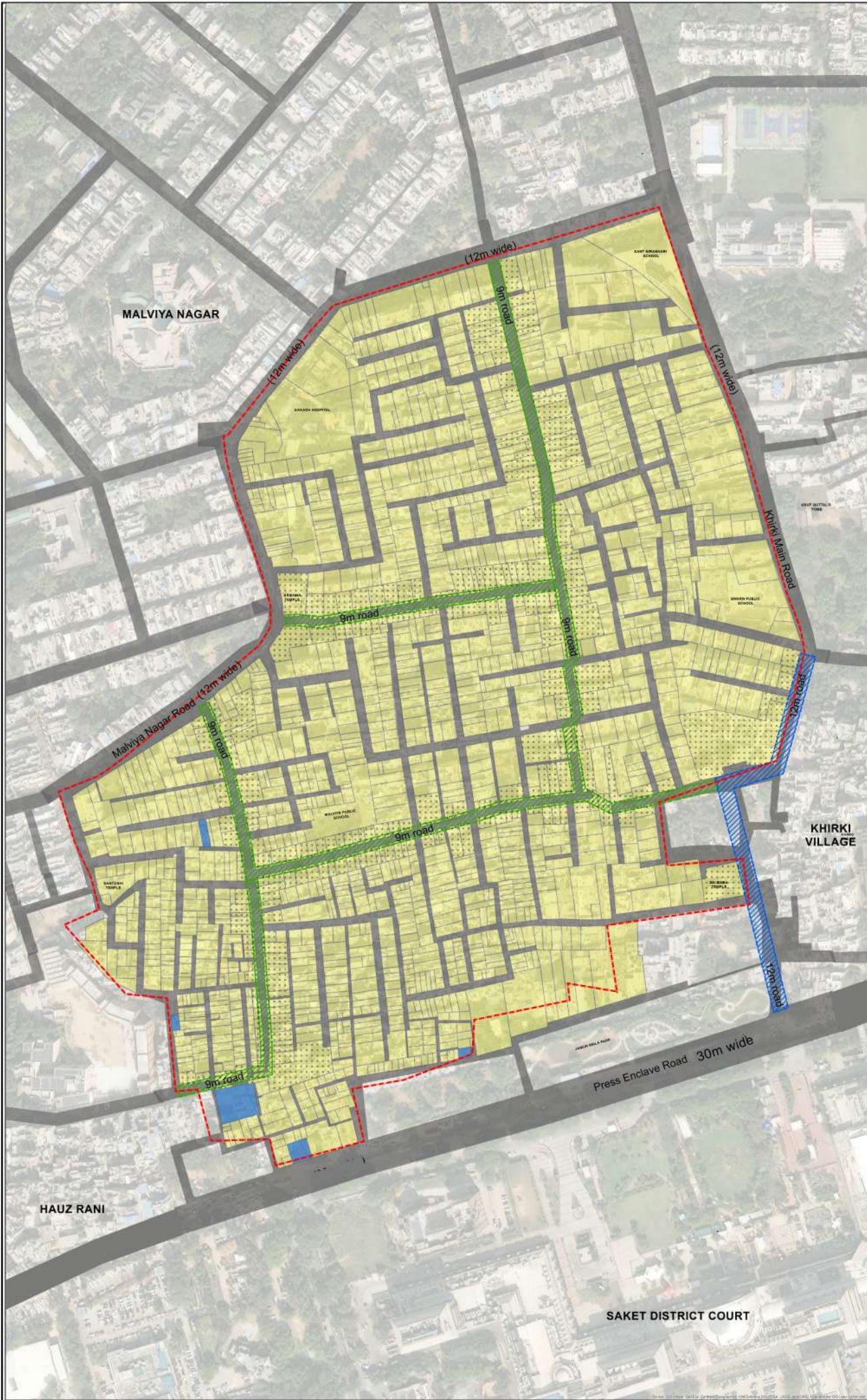
Plot size	Total count	Affected plots	No. of plots affected by %				
			< 5%	5% - 10%	11% - 20%	21% - 50%	51% - 100%
< 50 sqm	202	244	5	25	82	80	45
50 - 100 sqm	552	514	69	119	244	113	40
100 - 200 sqm	588	532	111	142	288	82	14
200 - 500 sqm	98	82	18	27	19	12	3
> 500 sqm	42	30	14	5	5	2	0
Total	1590	1402	227	318	458	295	109
Total (in % age)			92%	23%	21%	20%	10%

Histogram (No. of plots vs % affected)

Scale 1:1,000

Prepared by

LAYOUT PLAN OF KHIRKI EXTENSION, MALVIYA NAGAR (REG. NO. 897)
[ROAD NETWORK PLAN]



LEGEND

Colony_boundary

Use-premise

Residential

Government owned facilities

Existing roads

Proposals

Proposed 12m roads

Proposed 9m roads

(Road proposals illustrated on the map includes 350 mm of additional provision on both sides of the roads for storm water drainage)

Percentage of plot affected due to road widening

Less than 5

5 - 10

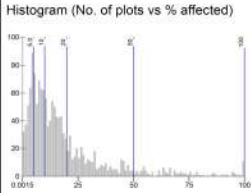
11 - 20

21 - 50

51 - 100

(Unmarked plots are unaffected)

Plot size	Total count	Affected plots	No. of plots affected by				
			< 5%	5% - 10%	11% - 20%	21% - 50%	> 51%
< 50 sqm	435	227	29	57	86	41	4
50 - 100 sqm	467	7	0	0	0	0	0
100 - 250 sqm	519	2	1	0	0	0	1
250 - 500 sqm	75	0	0	0	0	0	0
> 500 sqm	10	0	0	0	0	0	0
Total	1550	236	30	57	86	41	5
Total (in % age)			15%	2%	4%	6%	1%



Scale 1:1,000

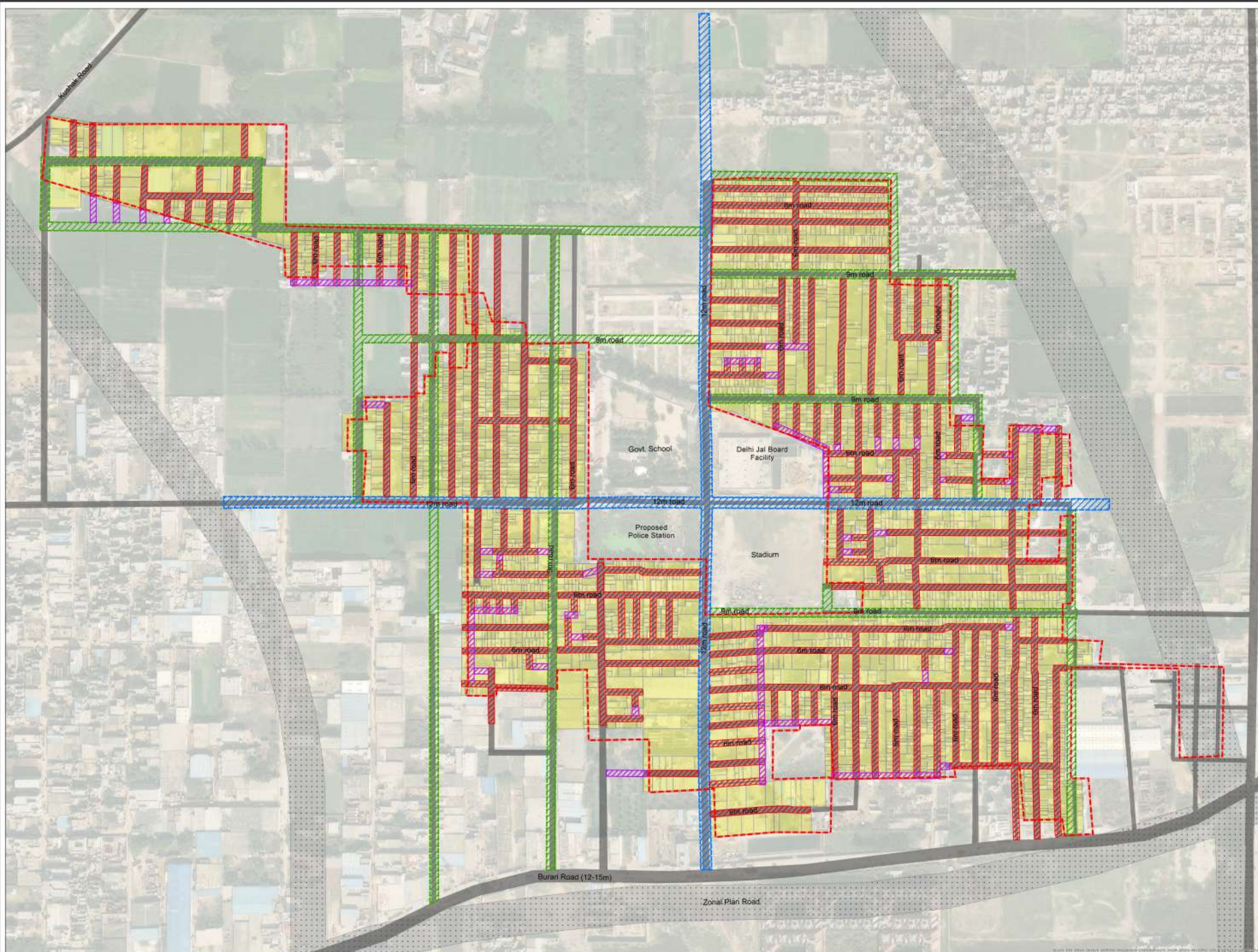
0 50 100 Meters

Prepared by

N

W E

S



LEGEND

Colony Boundary

Use Premise

Residential

Existing roads

Zonal plan road

Proposals

Proposed 12m roads

Proposed 9m roads

Proposed 6m roads (by widening)

Proposed 6m roads (by augmentation)

(Road proposals illustrated on the map includes 350 mm of additional provision on both sides of the roads for storm water drainage)

Note: No Government owned facilities could be identified within the delineated boundary of the colony.

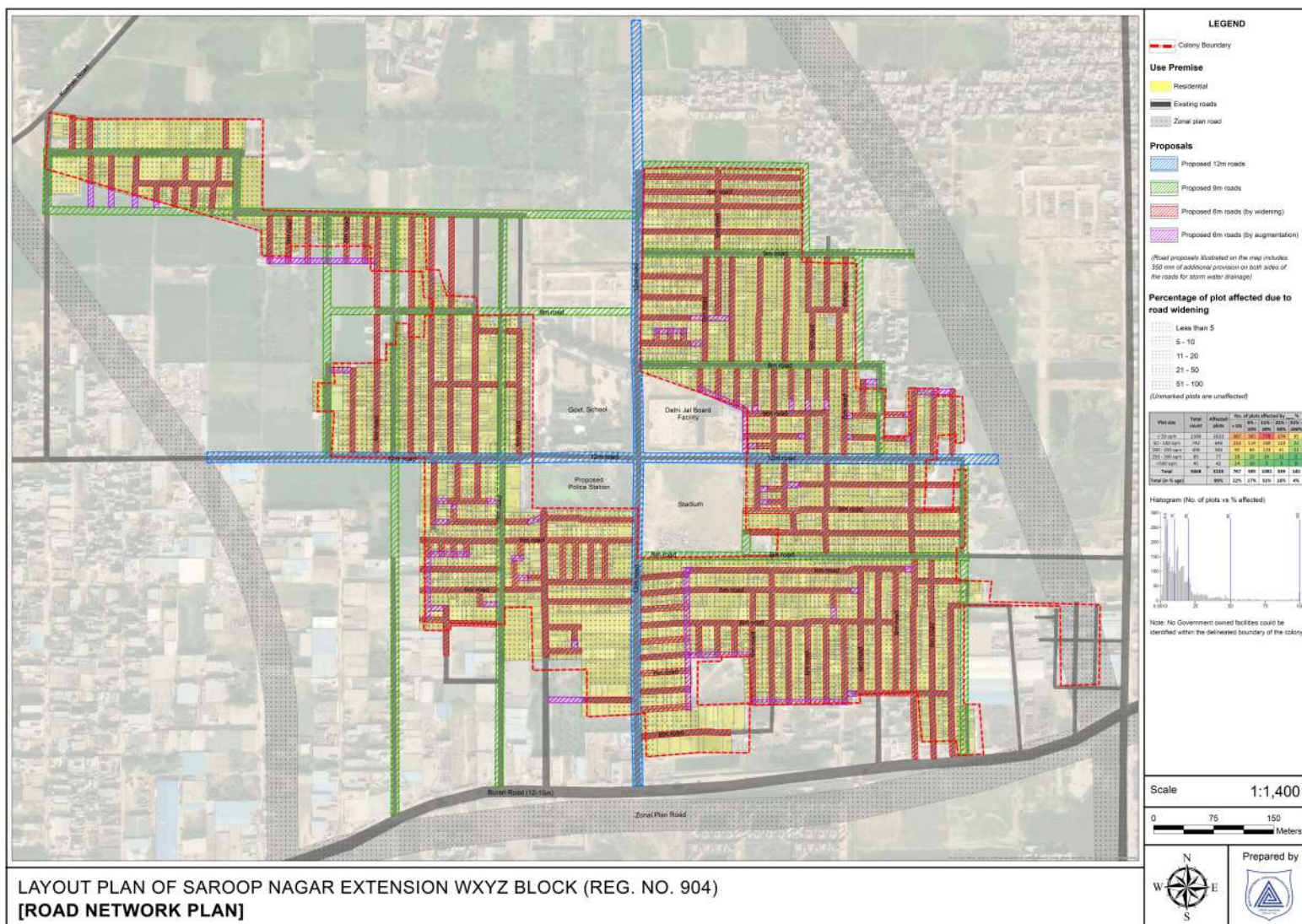
Scale 1:1,400

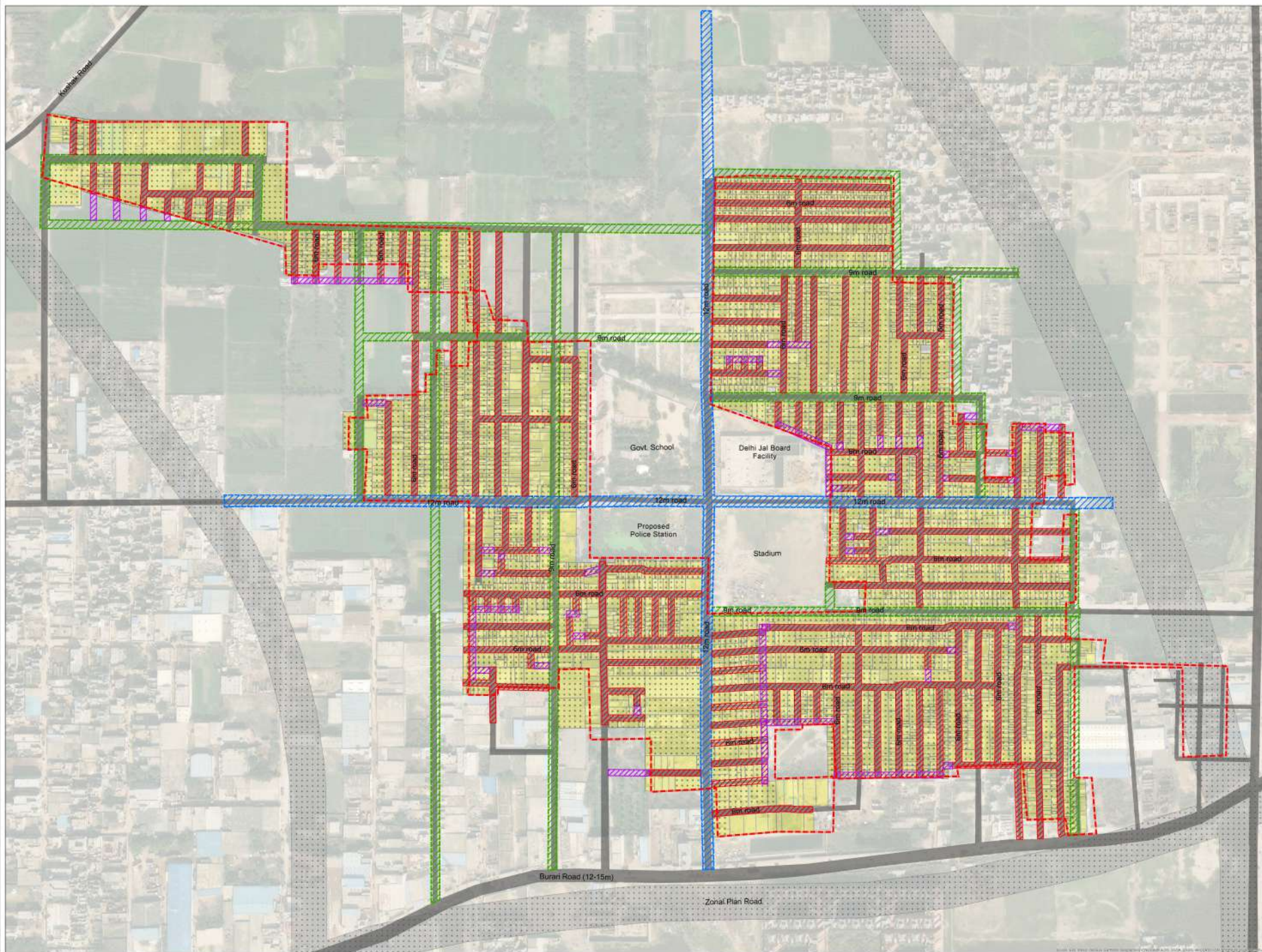
0 75 150 Meters

Prepared by

W N S E

LAYOUT PLAN OF SAROOP NAGAR EXTENSION WXYZ BLOCK (REG. NO. 904)
[ROAD NETWORK PLAN]





LEGEND

Colony Boundary

Use Premise

Residential

Existing roads

Zonal plan road

Proposals

Proposed 12m roads

Proposed 9m roads

Proposed 6m roads (by widening)

Proposed 6m roads (by augmentation)

(Road proposals illustrated on the map includes 350 mm of additional provision on both sides of the roads for storm water drainage)

Percentage of plot affected due to road widening

Less than 5

5 - 10

11 - 20

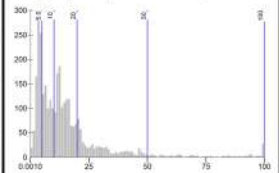
21 - 50

51 - 100

(Unmarked plots are unaffected)

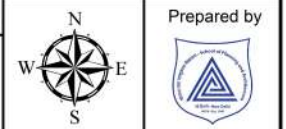
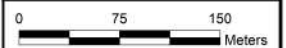
Plot size	Total count	Affected plots	No. of plots affected by					%
			< 5%	5% - 10%	11% - 20%	21% - 50%	51% - 100%	
< 50 sqm	2188	2020	887	181	778	274	03	
50 - 100 sqm	742	648	233	134	109	110	22	
100 - 150 sqm	436	346	95	65	123	41	23	
150 - 200 sqm	89	77	28	20	16	11	2	
200 - 250 sqm	45	42	24	10	5	3	0	
> 250 sqm	45	42	24	10	5	3	0	
Total	3468	3133	787	395	1092	539	140	
Total (in % age)			90%	22%	17%	31%	14%	4%

Histogram (No. of plots vs % affected)



Note: No Government owned facilities could be identified within the delineated boundary of the colony.

Scale 1:1,400



Prepared by

