



shaping the way cities move

Area Parking Plan for Bommanahalli Zone Volume 1

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Urban Development Department,
Government of Karnataka**

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1 Introduction to Area Parking Plan

1.1 Background

Bengaluru city has seen unprecedented growth in population and consequently in the number of vehicles registered in the city. The data published by the Department of Transportation, Government of Karnataka reveals that the number of registered vehicles in the city has crossed 94 lakhs (9.4 million) as of May 2020 and the compound annual growth rate (CAGR) of vehicle registrations is over 10% per annum.

The roads in Bengaluru are already congested with typical average speed on major roads during peak hours being around 15 km/h and average public bus transport speed being around 10 km/h. Various initiatives like introduction of metro rail, construction of flyovers, etc. have not resulted in perceivable changes in alleviating congestion on the roads of Bengaluru. There is a need to moderate vehicle usage while concurrently developing sustainable transport infrastructure to be able to cope with the mobility challenges in the city. Globally, parking regulation has been identified as a crucial intervention to optimize the use of road space as well as a tool to discourage use of private modes of transport.

Currently, parking is largely unregulated across Bengaluru. On-street parking is rampant as it is not chargeable in most places and is increasingly causing issues of safety for other road users and reduced carrying capacity of roads. The few locations where parking is charged, are managed by unorganized sector, and do not have standard parking charges through-out the city. Locations where parking happens today are not clearly marked as parking bays and there is no signage put up. The civic agency and other public and private entities have built off-street parking infrastructure (multi-level parking lots) in few locations, but the approach has not been successful as on-street parking remains unregulated and free. Above issues, coupled with lack of adoption of technology makes management and enforcement of parking an uphill task.

In this regard Directorate of Urban Land Transport has prepared Parking Policy 2.0 for Bengaluru which was approved by the Government of Karnataka. Area level parking plans for all planning zones of BBMP are being prepared by DULT for implementation by BBMP.

This report presents the area parking plan for non-residential roads in Bommanahalli Zone prepared by DULT. BBMP shall be responsible for implementing it by undertaking on-site works and procuring services of a parking management agency to implement the plan and operate the same.

1.2 Parking Policy 2.0

1.2.1 Objectives of Parking Policy

Bengaluru, a fast-growing metropolis, has set its goal to move a major share of its population through mass transit systems like metro, suburban rail, and bus-based systems. Currently more than 40% of the trips in the city are catered by public transport and CMP 2020 stipulates that 70% of all trips are required to be catered by mass transit/public transport by 2035 for the city to avoid gridlock. In this context, implementation of Area Parking Plans will be instrumental in achieving the broader mobility objectives of Bengaluru and the parking policy proposes to achieve the following objectives through implementation of Area Parking Plans in a phased manner:

Objective 1

Move from chaotic parking to well organized parking:

- Organize and manage on-street parking to ensure that parking does not impinge upon seamless vehicular and pedestrian circulation.
- Shift supply to off-street parking and minimize on-street parking supply to free up scarce street space for transit and NMT supportive uses.
- Free-up residential streets with regulated parking to allow these streets to transform into walkable & livable streets
- Inclusive planning of parking supply to support local business opportunities, facilitate people to access social infrastructure and recreational facilities.

Objective 2

Move from free parking to paid parking:

- Charge the user the cost of parking to largely transfer the cost of using a scarce resource from public at large to the beneficiary
- Unbundle parking charges and make users directly pay for their desired parking Convenience

Objective 3

Move from Government driven parking supply to market driven parking supply and management:

- Enable faster development of organized off-street parking supply and efficient management through means of private market forces.

-
- City needs to explore privately financed and market driven off-street parking regime, in addition to public funded, government created off-street parking regime.

Objective 4

Move from passive and weak enforcement of parking regulations to active management of parking demand:

- Urban local body to consider parking management as one of its key functions and deliver parking services in a systemic and efficient manner
- Use of technology in enforcement and management of parking to better address concerns of manpower shortage, efficiency, and pilferage.
- Support and increase the patronage of public transport by cross subsidizing transit and NMT infrastructure through parking revenue

Parking Policy 2.0 has therefore identified zonal level Area Parking Plans as the implementation tool for the parking regulations identified in the policy.

1.3 Scope of Work

Scope of work for preparation of Area Parking Plans for Bommanahalli Zone includes the following-

Identification of streets where on-street parking caters to more than 70% non-residential land use.

Assessment of current parking demand characteristics like type of vehicles parked extent of parking etc.

Assessment of site conditions for providing parking like carriageway widths, availability of footpaths, intensity of bus movement etc.

Allocation of regulated parking based on policy stipulations, demand characteristics, and site constraints

Detailed drawings of plans and street sections indicating mode-wise parking provision on road including location of signages

Stakeholder consultations with zonal task force and ward level stakeholders

2 Study Methodology

The following methodology has been adopted to arrive at on-street parking arrangement plans for each road in the zone.

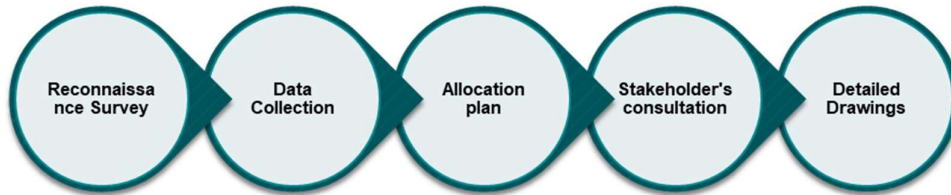




Figure 1: Methodology of Area Parking Plan

2.1 Reconnaissance Survey

Reconnaissance survey was carried out on all the roads in the zone. The road with non-residential parking demand were selected to further study and carry out data collection. Residential roads and roads with no parking demand were not considered in the study

2.2 Data Collection

To understand the street character and parking demand, inventory surveys were carried out using the Arc GIS collector application. The platform was developed to facilitate the data collection which was coded and allowed for capturing of photographs of the survey location. Various attributes as per the survey requirements were provided in the application format to collect the information. The following figures shows the user interface of the application and the attributes provided for data collection:

Photographs captured for each road segment along with Data

OBJECTID	995	Landuse_RHS	
Status	New	Landmark_RHS	open space
Surveyor_Name	C.N	CW_RHS	3.5
Road_Name	1st main Road	FP_RHS	1
Traffic_Movement	TwoWay	Shoulder_RHS	1.5
LandUse_LHS	Commercial	ParkingType_RHS	Parallel
LanduseRemark_LHS	open space	Legality_RHS	Authorised
LandMark_LHS	open space	Car_RHS	4
CW_LHS	3.5	Bike_RHS	12
FP_LHS	2	PBS_Cycle_RHS	3
Median	0	Cycle_RHS	15
Shoulder_LHS	0.75	LanduseRemarkRHS	Restaurant
ParkingType_LHS	Parallel	PrivateBus_RHS	0
Legality_LHS	Authorised	SchoolBus_RHS	1
Car_LHS	6	RTC_RHS	
Bike_LHS	40	Auto_RHS	8
PBS_Cycle_LHS	0	LCV_RHS	1
Cycle_LHS	10	HCV_RHS	1
PrivateBus_LHS	0	TractorTrailer_RHS	0
SchoolBus_LHS	0	Ambulance_RHS	1
RTC_LHS	0	Others_Specify_RHS	-
Auto_LHS	13	TSS	No
LCV_LHS	0	DemandSurvey	
HCV_LHS	0	Remarks	
TractorTrailer_LHS	0	Shape_Length	217.110827176484
Ambulance_LHS	0	date_	10/11/2021
Others_Specify_LHS	1	CreationDate	12:20:18 PM
		CreationDate	10/11/2021
		CreationDate	12:18:13 PM
		EditDate	10/11/2021
		EditDate	12:18:13 PM

Figure 2: Attributes collected during the data collection phase

The following surveys were carried out using Arc collector GIS app on the identified road in reconnaissance survey to understand the existing parking characteristics:

2.2.1 Road Inventory survey

The road inventory was carried out for all the road with non-residential parking to capture the details of carriageway width, footpath width, one way/two-way traffic movement, divided/ undivided road, bus stop locations, auto stand locations, etc. this helps in understanding the street character and availability of capacity for parking provisioning.

2.2.2 Parking Inventory Survey

The parking inventory was carried out on road with non-residential parking demand to collect the data related to attributes like mode wise count of vehicles parked, parking pricings (if any), legality of the parking, capacity, and location of existing off-street parking locations etc.

2.2.3 Land Use Survey

The land use of the building blocks was captured for roads where parking inventory was planned. A broad classification of the land use was survey to understand the overall character of the street with respect to the parking demand.

2.3 Parking Allocation Plan

A parking allocation plan was prepared for streets with parking demand based on the understanding of the street character (including road inventory, traffic intensity, intensity of bus movement, etc.), design principles and data captured to regulate the on-street parking demand. This parking allocation plan is at a conceptual level and provides the information on location at which parking is proposed, number of proposed parking bays for each vehicle type like cycle, shared micro mobility services, two wheelers, four wheelers, parking for persons with disability, auto stand, and designating spaces for pick up and drop, and loading and unloading.

2.4 Stakeholders' Consultation

The parking policy 2.0 of Bengaluru prescribes constitution of a zonal task force under the respective Zonal Joint Commissioner, BBMP with representatives from Traffic Police and jurisdictional RTO for each zone to assist/monitor in preparation and implementation of Area Parking plans. In this regard parking plans have been discussed with all the stakeholders under the chairmanship of Joint commissioner of the zone followed by discussion of ward wise plans and site visits with respective ward engineers and traffic police officials. The agenda of the consultations was to seek feedback and inputs on the parking allocation plan prepared for the zone and to get the approval of the zonal task force on the prepared parking plans. The details of the consultations and consultation proceedings are attached in annexure 2.

2.5 Detailed Drawing

Based on the inputs and feedback from Zonal task force, the Area Parking Plans for the zone have been appropriately finalized. The roads where parking has been finalized were surveyed to develop a base drawing depicting existing site conditions including identification of above ground utilities, cross rads, vehicular access ramps, trees, etc.

The base drawings were utilized to stipulate the parking bays for pick-up/ drop-off bays, and loading/ unloading bays on the street as per the standard dimensions required for parking and detailed in Chapter 3. Signage is key the for dissemination of information regarding the regulations governing the usage of the parking bays like the type of vehicles that can park, parking charges applicable etc. Proposed locations of appropriate signage related to parking have been indicated in the detailed drawings.

3 Design Principles

3.1 Parking Principles

3.1.1 Principles for Parking Allocation

The principles considered for the allocation of on-street parking are given below:

- a. Parking has not been provided for up to 50 meters and 25 meters on each arm of major and minor junctions respectively, to avoid potential inconvenience to the pedestrians crossing at junctions or vehicles turning at junctions.
- b. Provision of on-street parking is prohibited within 250m of a Multi-Level Parking complex and metro stations to encourage people to use such facilities instead of parking on street.
- c. Roads with the high movement of traffic have been rationalized for provisioning of parking. Parking has been avoided on roads with high intensity of traffic movement or with high frequency of bus movement.
- d. Parking on the roads has been provided only after earmarking a width of 2 m for footpaths on either side of the road.
- e. As a part of Area Parking Plans, parking has been provisioned for all types of vehicles which includes cycles, SMMS, loading/unloading bays for trucks, autorickshaw stands, disabled parking and private vehicles.
- f. Parking bays are allocated based on the mode-wise demand captured from parking demand survey and street inventory survey.
- g. Parking bays for differently abled persons on each road are allocated closer to footpath ramps, elevators, or access to establishments.
- h. It is ensured that parking for cycles and SMMS is provided at every 250 to 300 m to facilitate last mile connectivity to public transport and short commute in the area where feasible.

3.1.2 Principles of Parking bays design

The following are the design standards adopted for bays allocated for different kind of vehicles based on the relevant standards and studies

- Parking bays two-wheelers/ motor bikes (L*B) = 2.0 X 1.0 meters
- Parking bays for four-wheelers/ cars/ jeeps (L*B) = 5.5 X 2.5 meters
- Parking bays for Persons with Disabilities using two-wheelers (L*B) = 2.0 X 2.0 meters

- Parking bays for Auto rickshaw (L*B) = 3.0 X 2.0 meters
- Parking bays for Cycle and SMMS parking (L*B) = 2.0 X 10 meters
- Parking bays for Pick up & Drop Off – (L*B) = 11.0 X 2.5 meters (Equivalent to two car Bays)
- Parking bays for LCV (L*B) = 5.5 X 2.5 meters
- Parking bays for HCV (L*B) = 11 X 2.5 meters

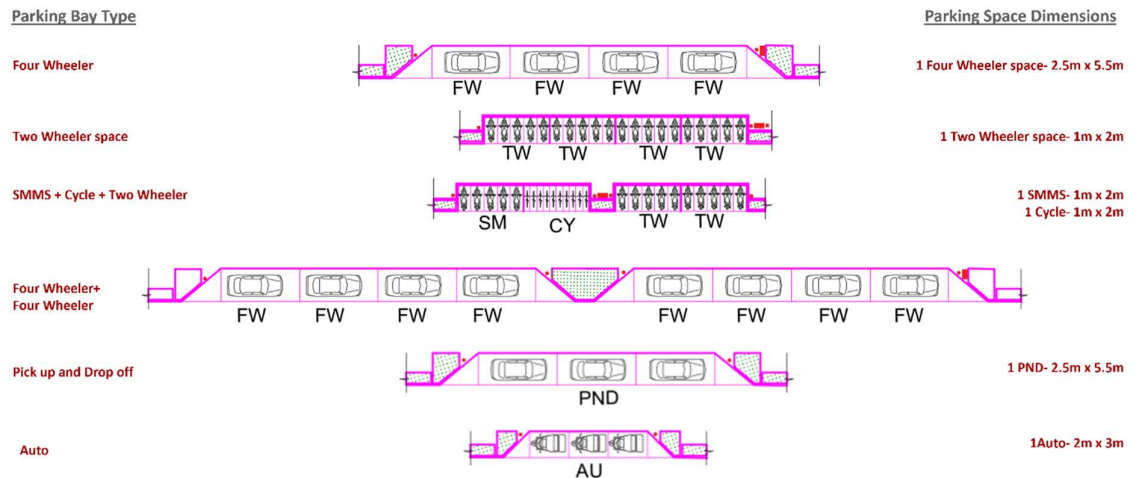


Figure 3: Typical arrangement of parking bays

3.2 Parking Signage

For implementing the parking policies, signage forms an important component of the parking system for communicating to road users regarding various parking regulations applicable at any given parking lot like type of vehicles allowed to park, maximum allowed duration for loading/unloading, parking fee structure etc. In this context, a parking signage manual has been developed which will be shared in due course.

The tentative signage plan is also included in the designs provided. Based on the manual guidelines the respective signage plan must be taken up for implementation.

4 Study Area

4.1 Zonal Details

Bommanahalli Zone has 16 wards covering 101.2 sq.km area and with a total population of approximately 3.68 lakh (as per 2011 census). The population density of the Bommanahalli Zone comes to about 3,643.4 persons/sq.km. The zone consists of 174 (HSR layout), ward 190 (Mangammanapalya), ward 175 (Bommanahalli), ward 188 (Bilekahalli), ward 189 (Hongasandra), ward 186 (Jaragamahalli), ward 187 (Puttenahalli), ward 193 (Arakere), ward 191(Singasandra), ward 192 (Begur), ward 194 (Gottigere), ward 195 (Konanakunte), ward 196 (Anjanapura), ward 184 (Uttarahalli), ward 185 (Yalachenahalli), and ward 197 (Vasanthapura).

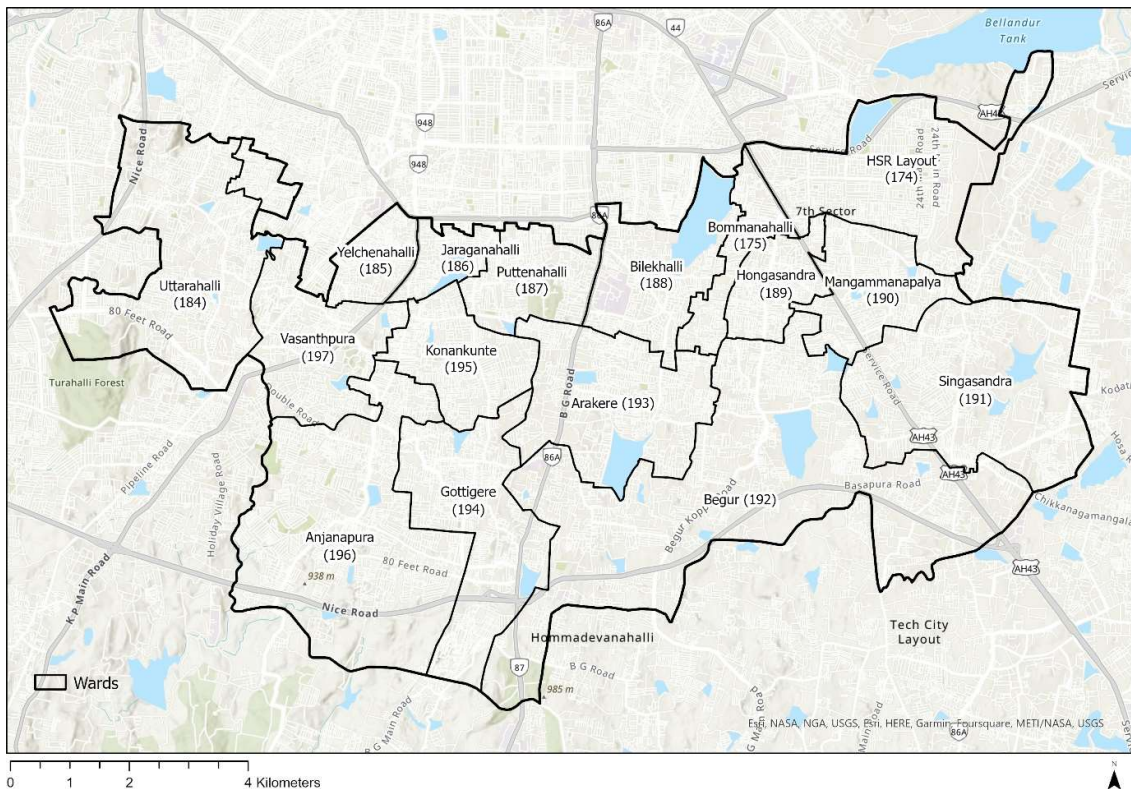


Figure 4: Zonal Map of Bommanahalli Zone

Four High Density Corridors namely, Kanakapur road, Bannerghatta road, Hosur road and Sarjapur road pass through the Bommanahalli zone. Apart from High Density Corridors, other major roads with traffic movement and intense commercial activity are Hosa road, Begur main road, Kothunur main road, etc. The operation green line of metro network run along the Kanakapur main road and has three metro station (Yelachenahalli, Konanakunte Cross, Doddakallasandra) in the Bommanahalli zone. The metro line along the Bannerghatta Road and Hosur road are under construction. The major attraction points are IIM Bangalore, Central Jail, Madivala lake, Begur lake, Doresanipalya Forest Research Station etc. Few of the neighborhood areas in the zone are HSR, ITI layout, Kudlu, Begur, Hulimavu, Puttenahalli, Anjanapura, Konanakunte, Uttarahalli, etc.

4.2 Road with Parking allocation – Zone

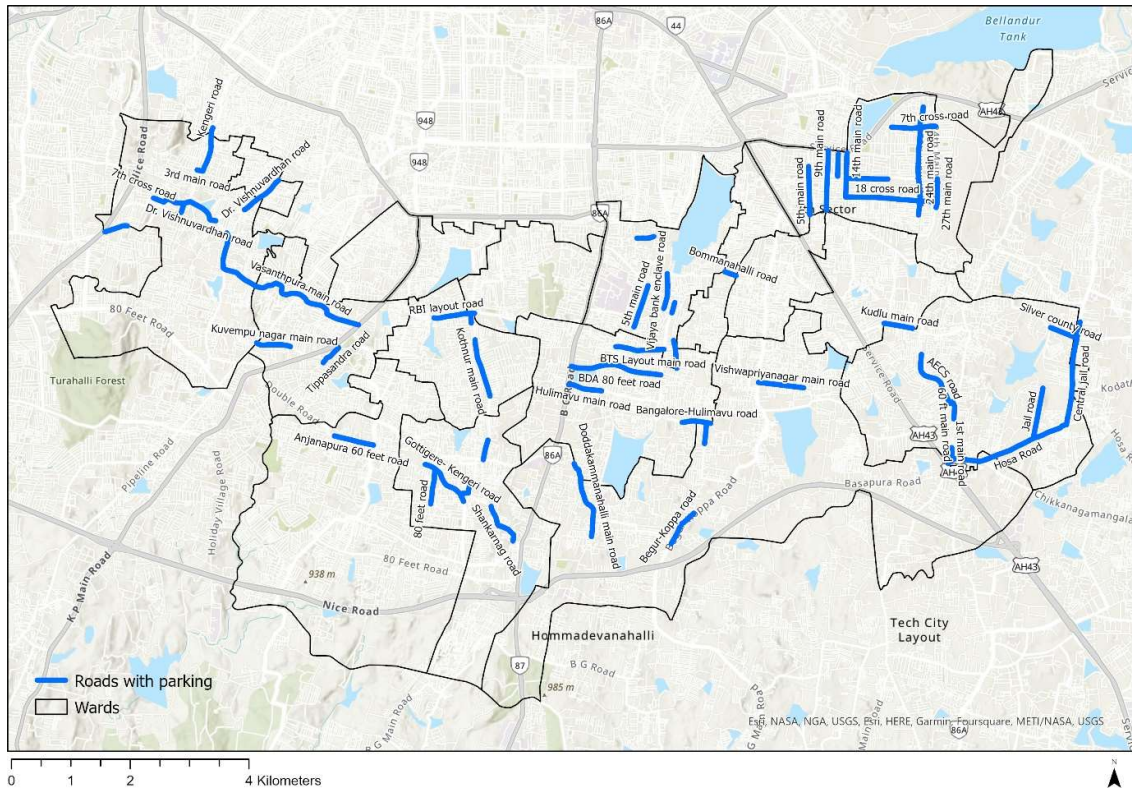


Figure 5: Road with Parking allocation – Zone Level

4.2.1 Number of proposed parking spaces (mode wise) for each road at ward level

*SMMS is Shared micro mobility services

*PWD is Persons with disability

*LCV is Light commercial vehicles

*HCV is Heavy commercial vehicles

*LND is Loading and unloading

Table 1 Road wise Parking allocation numbers

Ward No.	S. No.	BBMP Road ID	Road name	PBS	SM MS	Two Wheeler	PWD	Four Wheeler	Auto	PN D	LC V	HC V	LN D
174	1	W0238, RI-S255	22nd main road	60	25	56	2	14	5	2	3	0	0
	2	RI-S256	5th main road (ward 174)	25	5	13	1	0	3	2	0	0	3
	3	W0411	27th main road	5	10	18	1	5	6	0	0	0	0
	4	W0216	18th cross road	5	10	128	6	16	0	0	0	0	0
	5	W0109	12th main road	5	10	18	1	7	0	0	0	0	0
	6	RI-S252	24th main road (ward 174)	50	35	64	3	0	10	4	0	0	0
	7	W0434	7th cross road	0	0	0	0	0	14	0	0	0	0
	8	W0165	14th main road	80	0	0	0	0	0	0	0	0	0
	9	W0129	9th main road	10	5	0	0	0	9	0	0	0	0
	10	W0214	17th cross road	100	40	24	6	61	5	0	0	0	0
	11	W0271	19th main road	100	36	54	10	26	0	0	0	0	0
	12	W0411	27th main road -02	75	55	55	10	40	0	0	0	0	0
190	10	RI-S249	Kudlu main road	15	10	66	2	2	0	0	0	0	0
191	11	RI-A70	Hosa Road	40	20	41	2	12	0	0	0	0	0
	12	RI-S246	1st main road(Hullimavu-Vittasandra-Kudlu)	0	0	10	0	3	0	0	0	0	0
	13	RI-A70	Jail road	10	5	36	2	20	0	1	5	0	0
	14	W0973	Central jail road	5	5	53	1	7	0	0	0	0	0
	15	RI-S249	Silver county road	0	0	10	0	4	0	0	4	0	0
	16	W0537	60 ft main road	0	0	0	0	0	0	0	4	4	0

	17	RI-S250	AECS road	25	15	82	3	5	0	0	3	3	0
175	18	RI-S240	Bommana halli road(Bilek halli-Kodichikk anahalli)	10	10	18	1	3	0	0	0	0	0
188	19	W0339	4th cross road	0	0	54	3	12	4	0	0	0	0
	20	RI-S242	Sir M Vishweshwara marg	5	5	36	2	3	5	0	0	0	0
	21	W0333	Vijaya bank enclave road	5	5	51	2	5	0	0	0	0	0
	22	W0026	Ranka colony road	0	0	0	0	0	0	0	0	12	0
	23	W0211	5th main road (ward 188)	10	10	75	1	2	5	0	0	0	0
192	24	W1008	Vishwapriyanagar main road	15	15	87	4	8	0	0	0	0	0
	25	W0814	Bangalore -Hulimavu road	20	15	31	2	8	5	0	0	0	0
	26	W0917	Yelenahalli main road	0	0	21	2	4	0	0	0	0	0
	27	RI-A69	Begur-Koppa road	25	15	36	2	4	4	0	0	0	0
	28	No ID	Doddakammanahalli main road	25	10	60	0	0	0	0	0	0	0
193	29	R1-S246	Hulimavu main road	10	5	44	3	0	9	0	0	0	0
	30	W0296	BDA 80 feet road	50	25	84	3	8	13	0	5	0	3
	31	R1-S243	BTS Layout main road	5	5	28	1	0	0	1	0	0	0
194	32	R1-S171	Shankarag road	10	5	20	0	0	0	0	0	0	0
	33	No ID	Kothenur main road (ward194)	10	10	10	0	7	4	0	0	0	0
	34	No ID	Jambusavari dinne main road	10	5	0	0	0	4	0	0	0	0
	35	No ID	Gottigere-Kengeri road	15	15	69	3	0	0	0	0	0	0
	36	W0309	80 feet road	10	5	15	0	11	5	0	0	0	0
	37	No ID	Kambathalli main road	0	0	0	0	4	0	0	0	0	0
195	38	RI-S221	RBI layout road	10	10	46	1	4	2	0	0	0	0

	39	No ID	2nd main road	10	5	10	0	0	0	0	0	0	0
	40	No ID	Kothenur main road (ward195)	30	20	83	1	7	0	0	0	0	0
196	41	RI-S172	Anjanapura 60 feet road	20	10	57	4	0	7	0	0	0	0
184	42	W0476	Dr. Vishnuvardhan road 01	15	10	33	1	4	10	0	0	0	0
	43	RI-A55	Dr. Vishnuvardhan road 02	0	26	1	4	4	0	0	0	0	0
	44	RI-A56	Dr. Vishnuvardhan road 03	20	10	77	4	3	4	0	0	0	0
	45	RI-A56	Subramanyapura main road	15	10	33	1	4	4	0	0	0	0
	46	W0543	29th main road	5	5	18	1	4	0	0	0	0	0
	47	W0347	7th cross road	5	5	10	0	0	0	0	0	0	0
	48	W0090	3rd main road	5	5	0	0	0	3	0	0	0	0
	49	RI-S174	Kengeri road	5	5	79	1	4	0	0	0	0	0
197	50	W0550	Kuvempunagar main road	20	10	18	1	0	7	0	0	0	0
	51	W0825	Tippasandra road(Raja Farm Road)	0	0	18	1	0	0	0	0	0	0
	52	W0672, RI-A56	Vasanthpura main road	25	15	28	5	4	7	2	0	0	0
185	53	W0292	7th main road	0	0	0	0	8	0	0	0	0	0
186	54	-	Puttenahalli road	19	5	13	1	13	3	0	0	0	0
187	55	I0059	24th main road (ward 187)	0	5	56	2	4	5	0	0	0	0
Total road length				1049	602	2047	107	364	162	12	24	19	6

4.3 Other Proposals

4.3.1 Cycling network

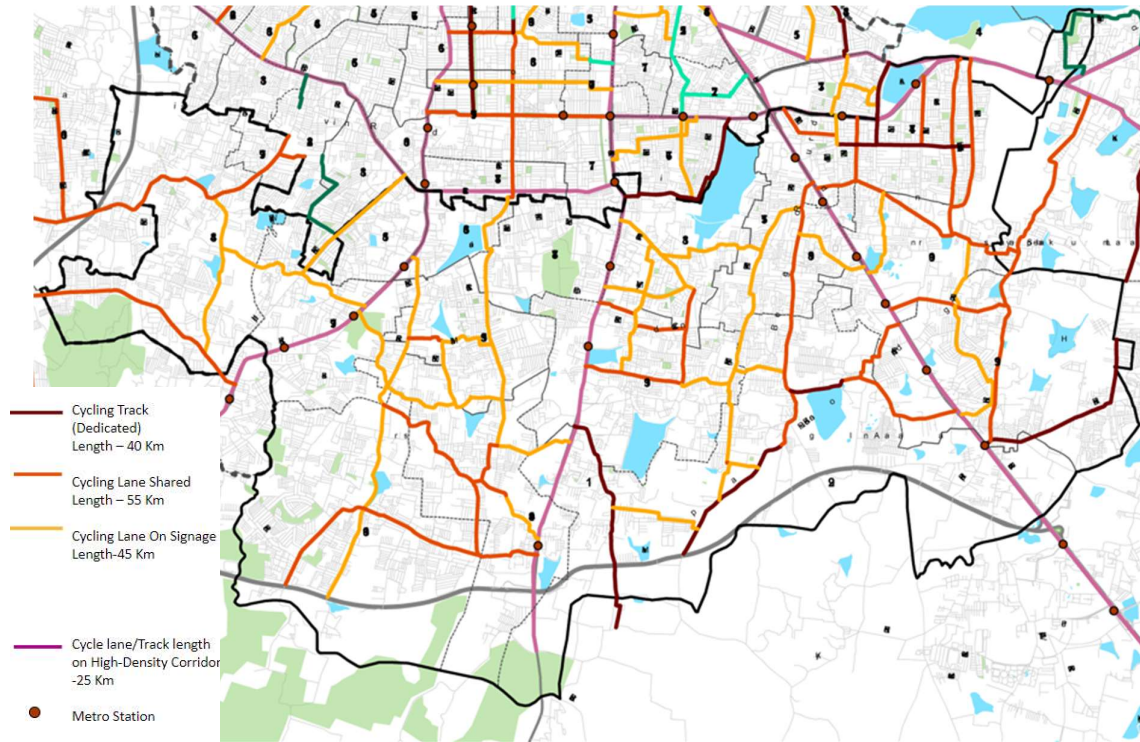


Figure 6 Proposed cycling network for Bommanahalli Zone

Total Length of cycling Network (without HDC) – 140 Km

Table 2 List of roads earmarked for cycle lane/track

Ward No.	BBMP Road ID	Road name earmarked with Cycle Tracks/Lanes	Cycle Track/Lane
174	W0411	27th main road	Shared
	RI-S252	24th main road (ward 174)	Shared
	W0165	14th main road	Dedicated
	W0129	9th main road	Shared
	W0214	17th cross road	Dedicated
	W0271	19th main road	Dedicated
190	W0411	27th main road -02	Dedicated
	RI-S249	Kudlu main road	Shared
191	RI-A70	Hosa Road	Dedicated
	W0973	Central jail road	Dedicated

192	RI-A69	Begur-Koppa road	Dedicated
	No ID	Doddakammanahalli main road	Dedicated
193	R1-S246	Hulimavu main road	Shared
194	No ID	Jambusavari dinne main road	Shared
	No ID	Gottigere- Kengeri road	Shared
	No ID	Kambathalli main road	Shared
184	W0476	Dr. Vishnuvardhan road 01	Shared
	RI-A55	Dr. Vishnuvardhan road 02	Shared
	RI-A56	Dr. Vishnuvardhan road 03	Shared

4.4 Detailed Designs Road wise

5 Annexures

5.1 Annexure 1 - Ward Details

Ward 174 – HSR Layout

- Area: 7.0 sqkm
- Population density: 3545.6 person/sqkm
- Arterial roads/ Sub arterial: Outer Ring road, Hosur road, 17th cross road.
- Major landmarks: Agara lake, HSR lake, BDA complex

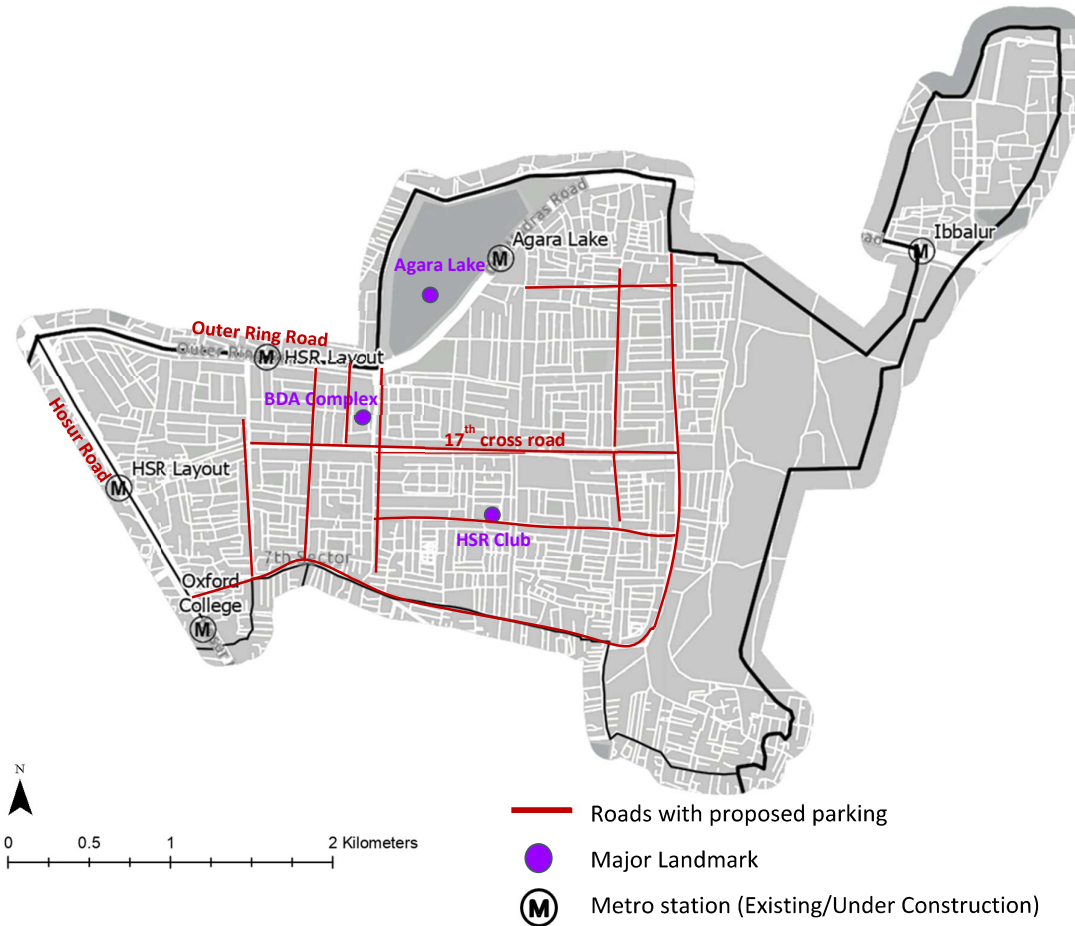


Figure 7 Map showing roads attraction points and proposed parking for HSR Layout ward

Ward 190 - Mangammanapalya ward

- Area: 3.54 sqkm
- Population density: 7,737 person/sqkm
- Arterial roads/ Sub arterial: Hosur Road
- Major landmarks: Narsimha Cinema Hall, Karnataka Compost Development Corporation (KCDC)

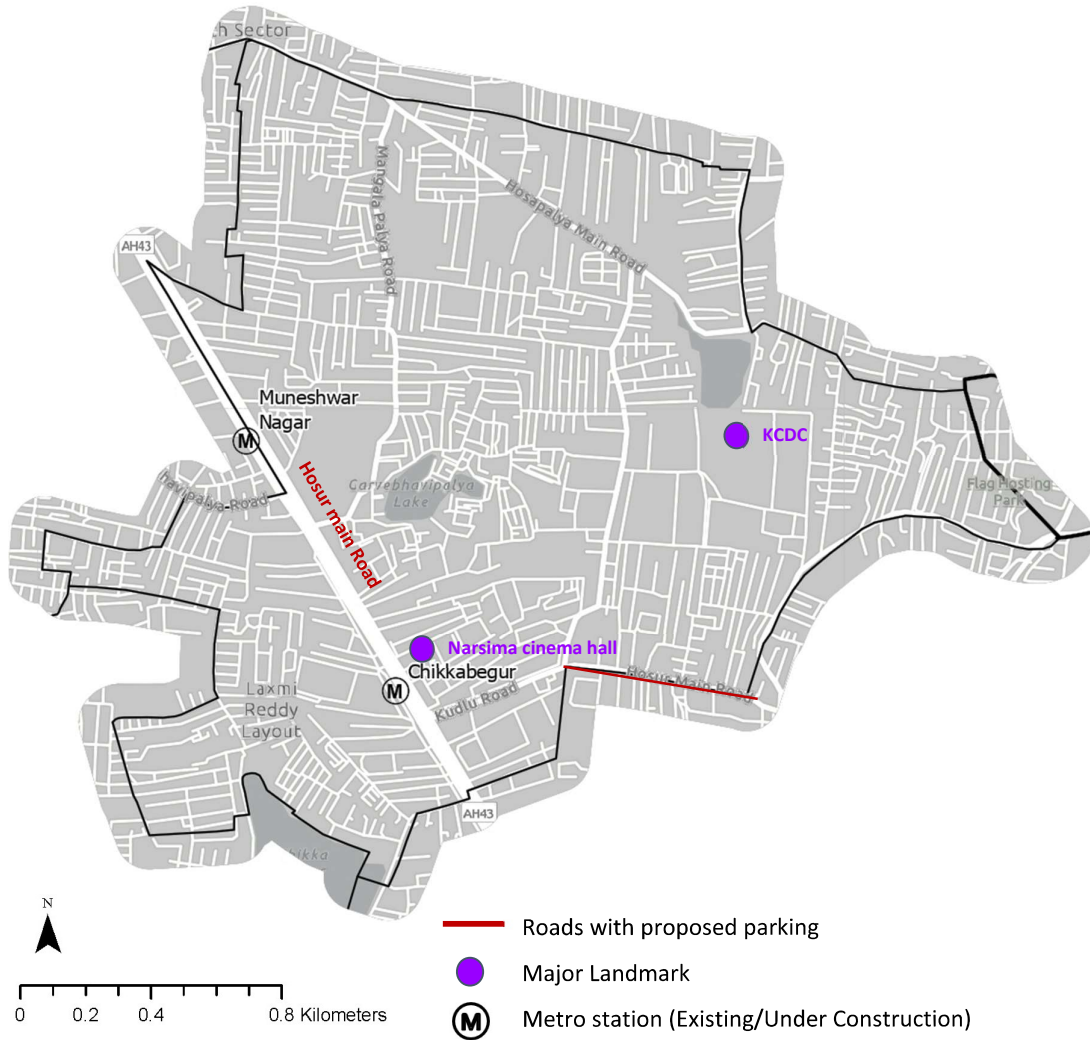


Figure 8 Map showing roads attraction points and proposed parking for Mangammanapalya ward

Ward 175 - Bommanahalli ward

- Area: 1.8 sqkm
- Population density: 13,503 person/sqkm
- Arterial roads/ Sub arterial: Hosur Main road, Begur Road
- Major landmarks: BWSSB office, Peter England factory

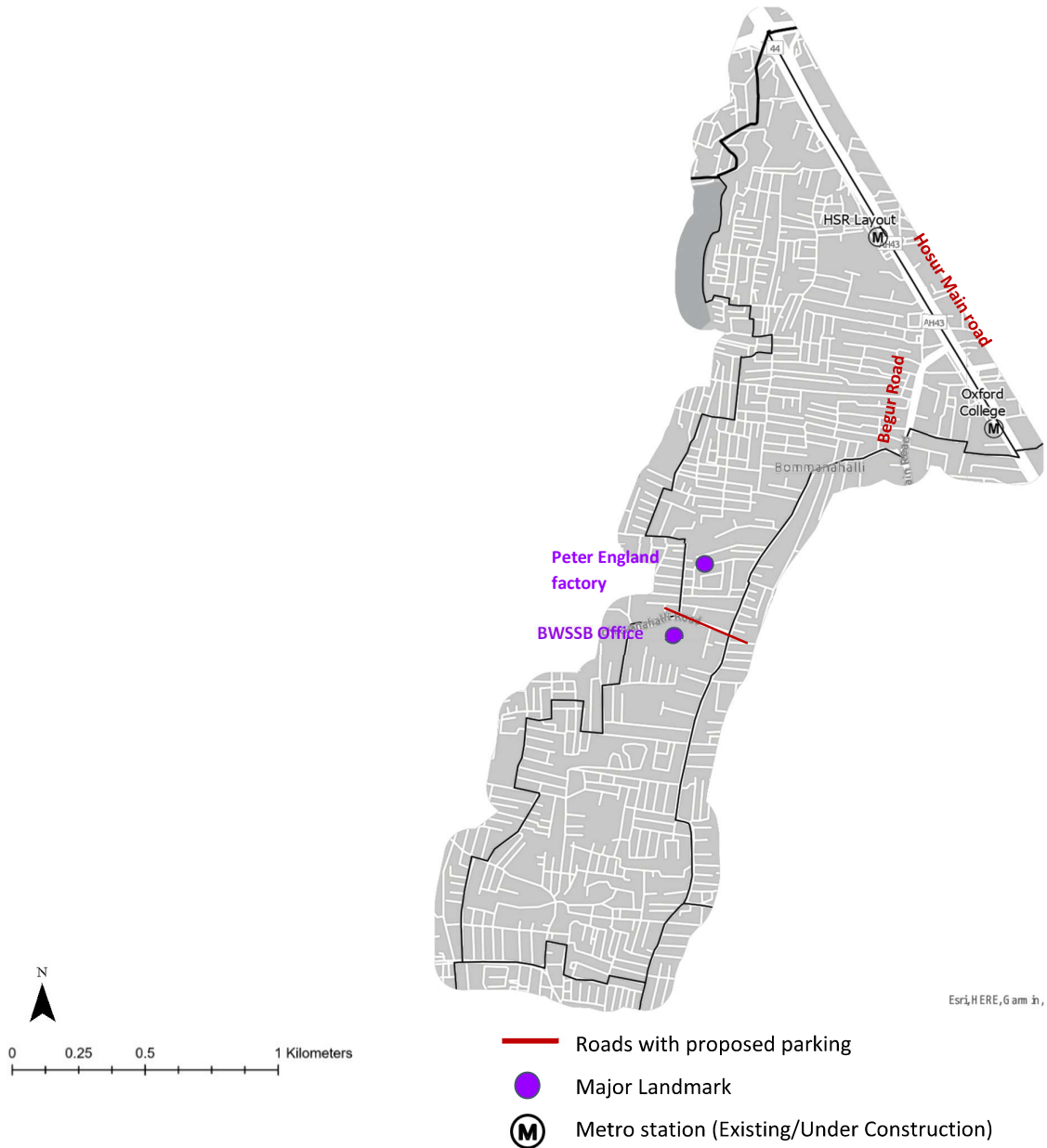


Figure 9 Map showing roads attraction points and proposed parking for Bommanahalli ward

Ward 188 - Bilekahalli ward

- Area: 4.2 sqkm
- Population density: 5,284 person/sqkm
- Arterial roads/ Sub arterial: Bannerghatta Road
- Major landmarks: Madivala Lake, IIM Bangalore

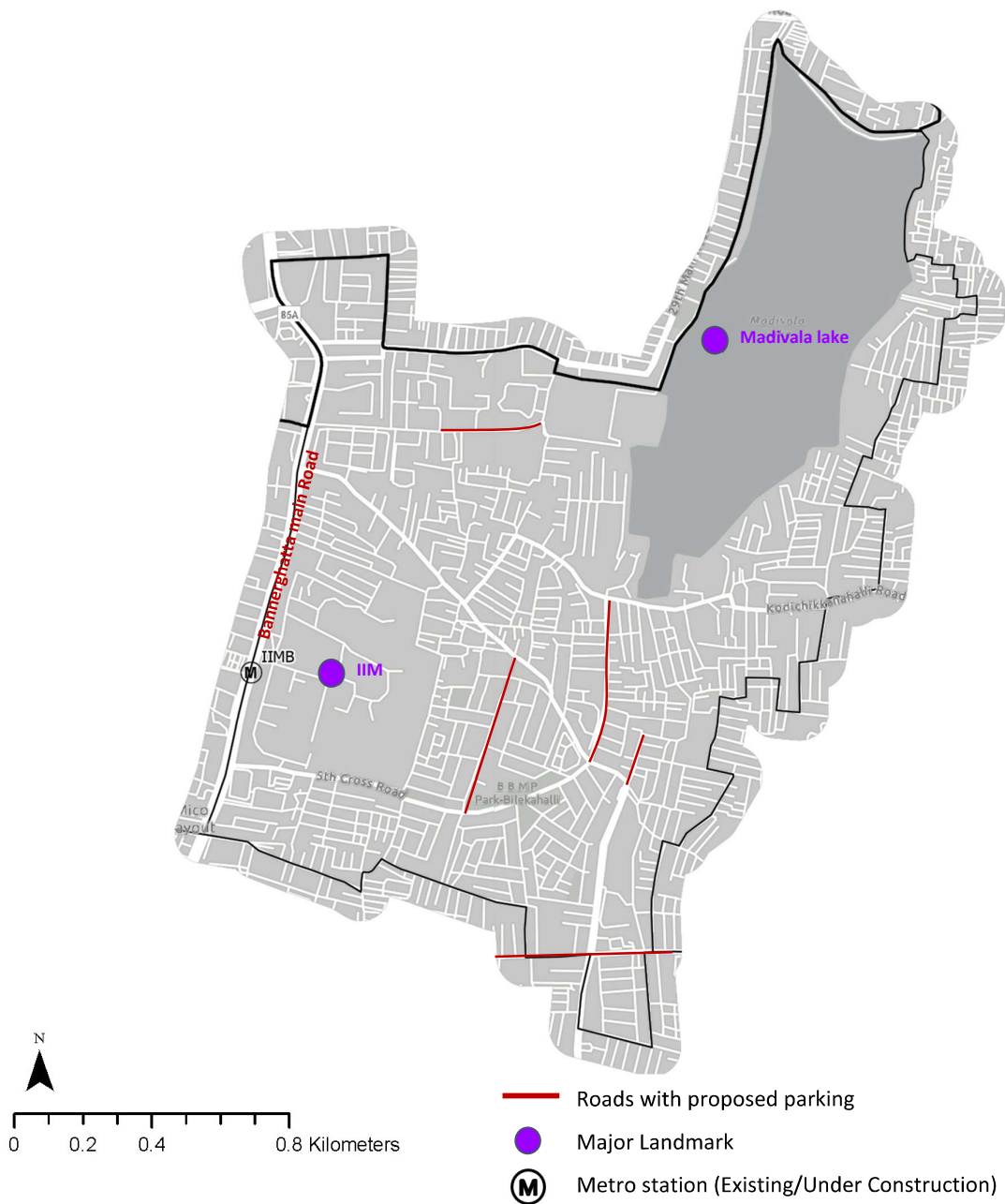


Figure 10 Map showing roads attraction points and proposed parking for Bilekahalli ward

Ward 189 - Hongasandra ward

- Area: 2.1 sqkm
- Population density: 10675 person/sqkm
- Arterial roads/ Sub arterial: Begur main road, Hosur road, Garvebhavipalya road
- Major landmarks: Oxford institute, Salarpuria Greenage residential area

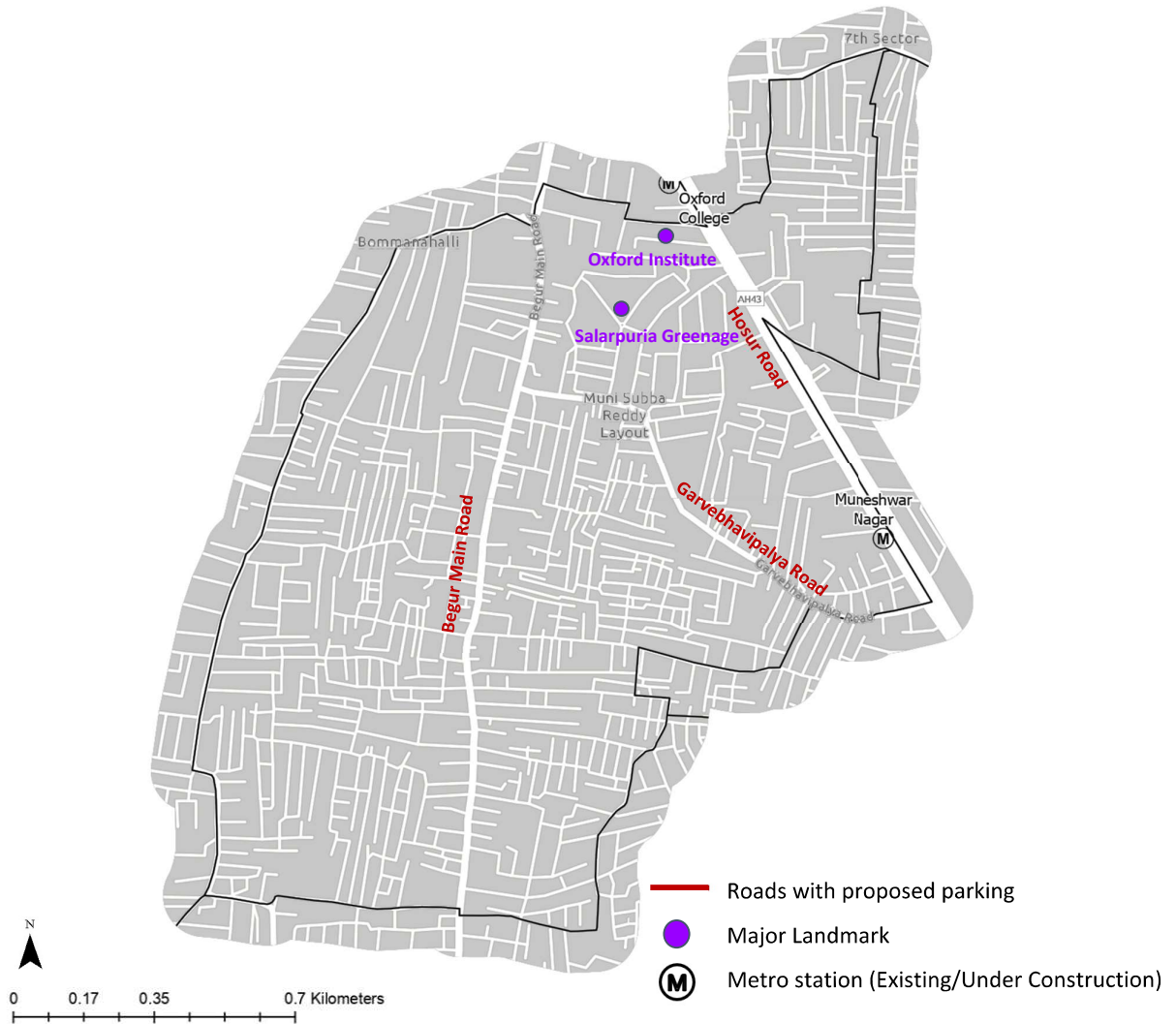


Figure 11 Map showing roads attraction points and proposed parking for Hongasandra ward

Ward 186 - Jaragamahalli ward

- Area: 1.3 sqkm
- Population density: 17,922 person/sqkm
- Arterial roads/ Sub arterial: Kanakapura Road, ORR, Puttenahalli main road
- Major landmarks: Jaraganahalli Park, Sarakki kere

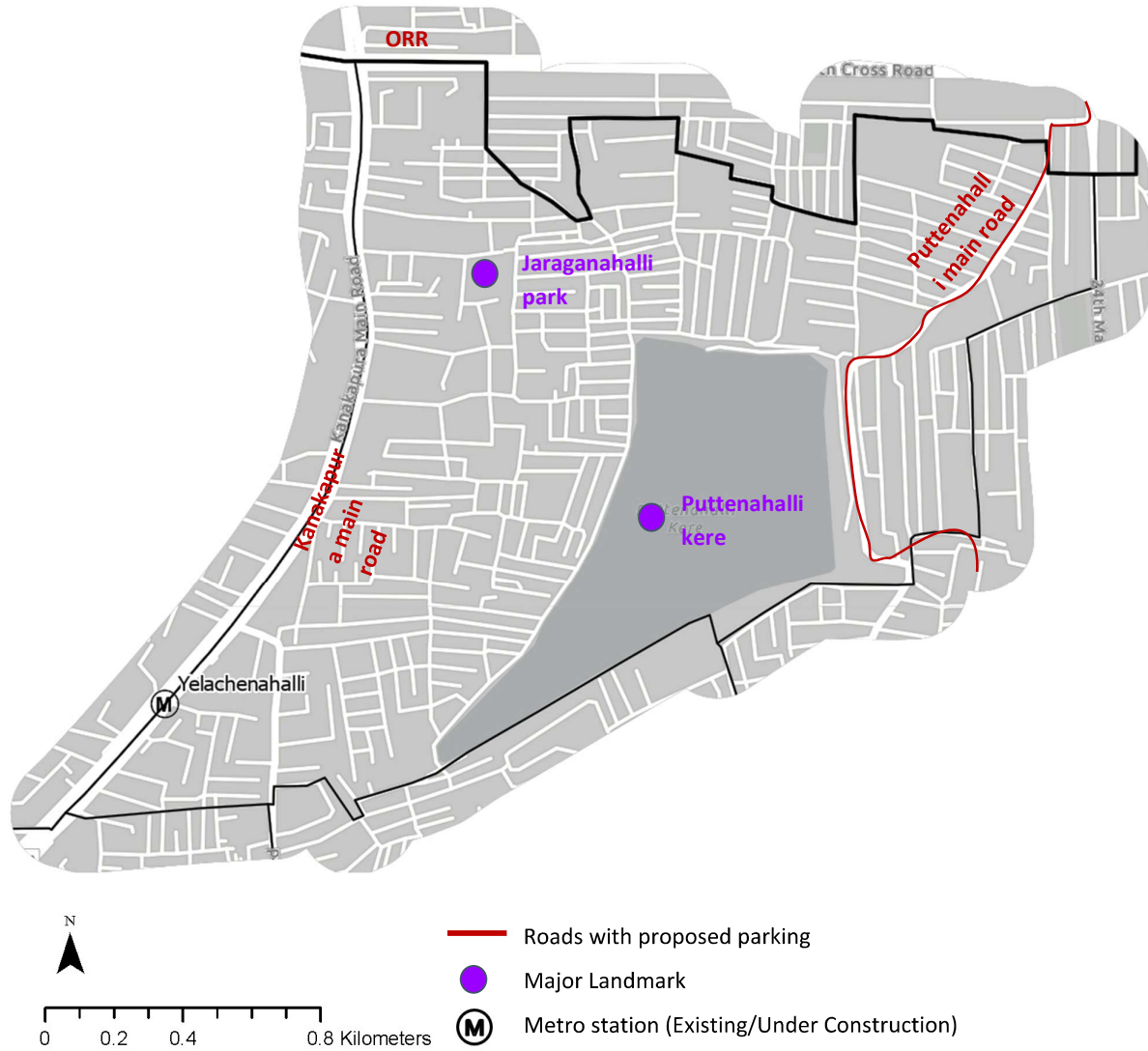


Figure 12 Map showing roads attraction points and proposed parking for Jaragamahalli ward

Ward 187 - Puttenahalli ward

- Area: 2.8 sqkm
- Population density: 7,208 person/sqkm
- Arterial roads/ Sub arterial: Bannerghatta main Road, Puttenahalli main road
- Major landmarks: Arekere Mini Forest, MLR Convention Centre

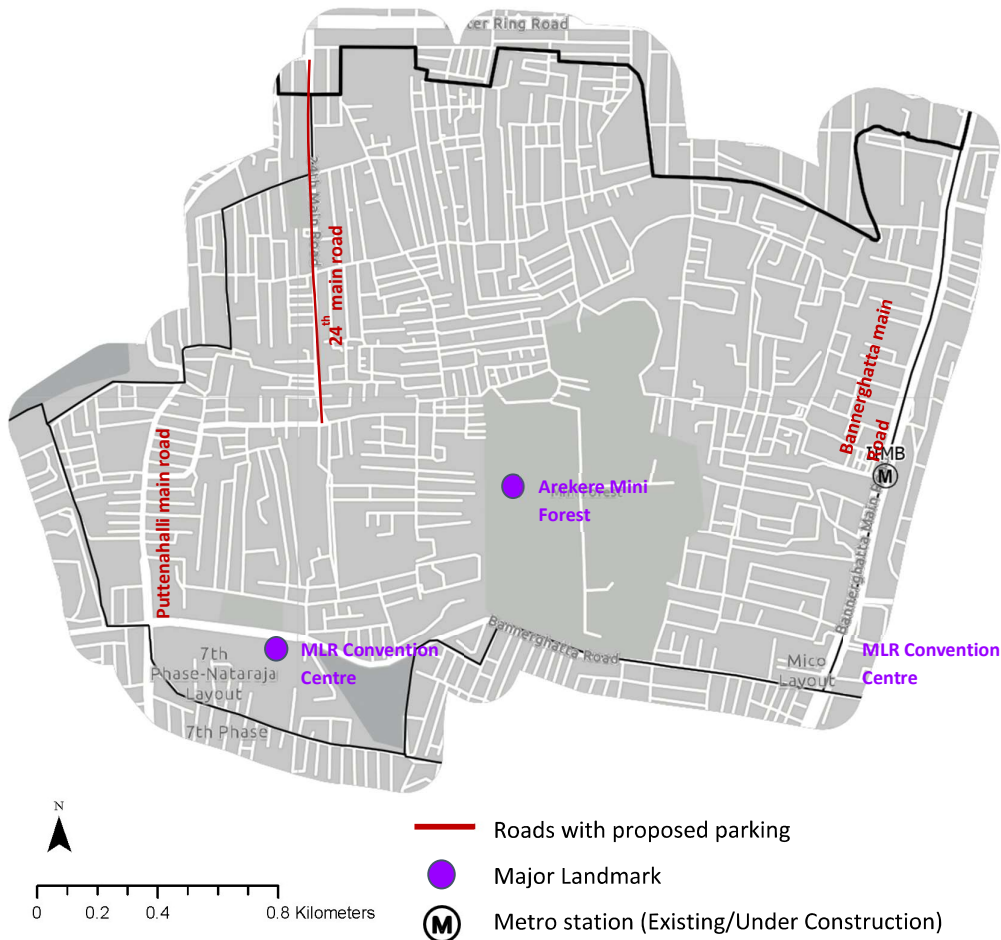


Figure 13 Map showing roads attraction points and proposed parking for Puttenahalli ward

Ward 193 - Arakere ward

- Area: 6.4 sqkm
- Population density: 3876.4 person/sqkm
- Arterial roads/ Sub arterial: Bannerghatta road, Begur Hulimavu road, Hulimavu main road
- Major landmarks: Arkere, Hulimavu lake

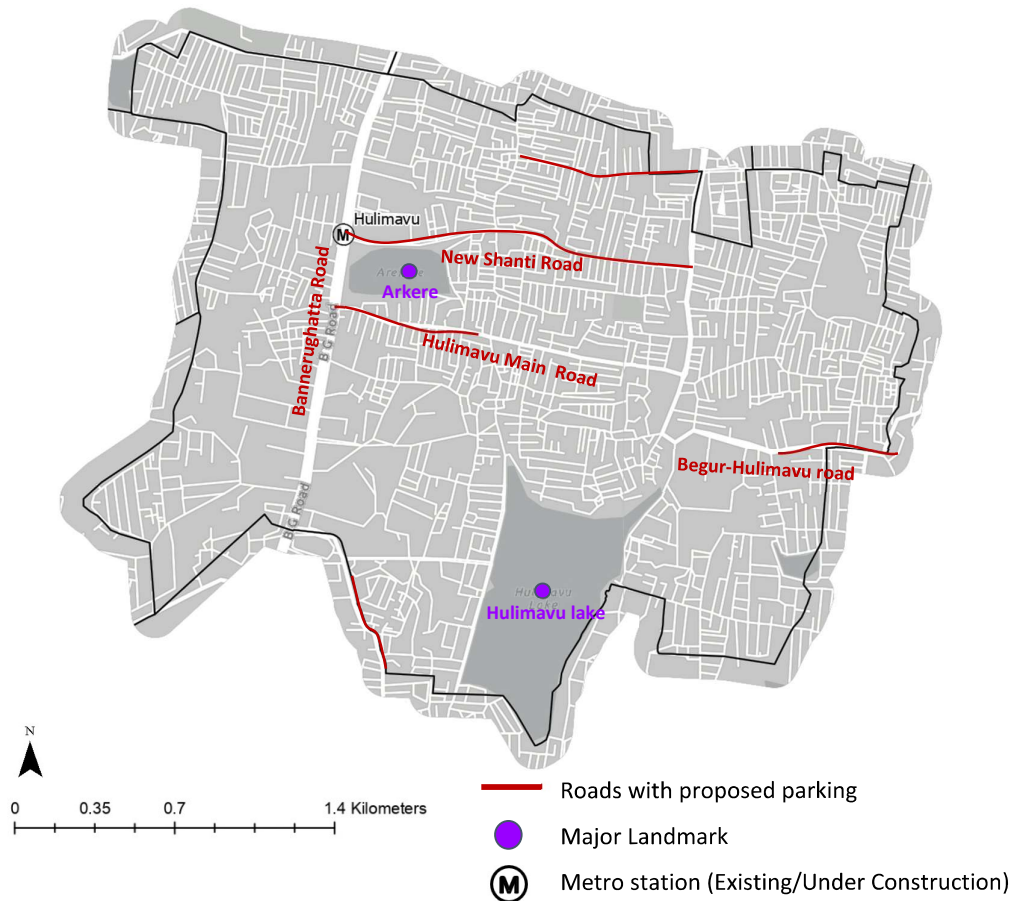


Figure 14 Map showing roads attraction points and proposed parking for Arakere ward

Ward 191 - Singasandra ward

- Area: 9.4 sqkm
- Population density: 2272.8 person/sqkm
- Arterial roads/ Sub arterial: Hosur road, Hosa road, Amrutha college main road
- Major landmarks: Hosa lake

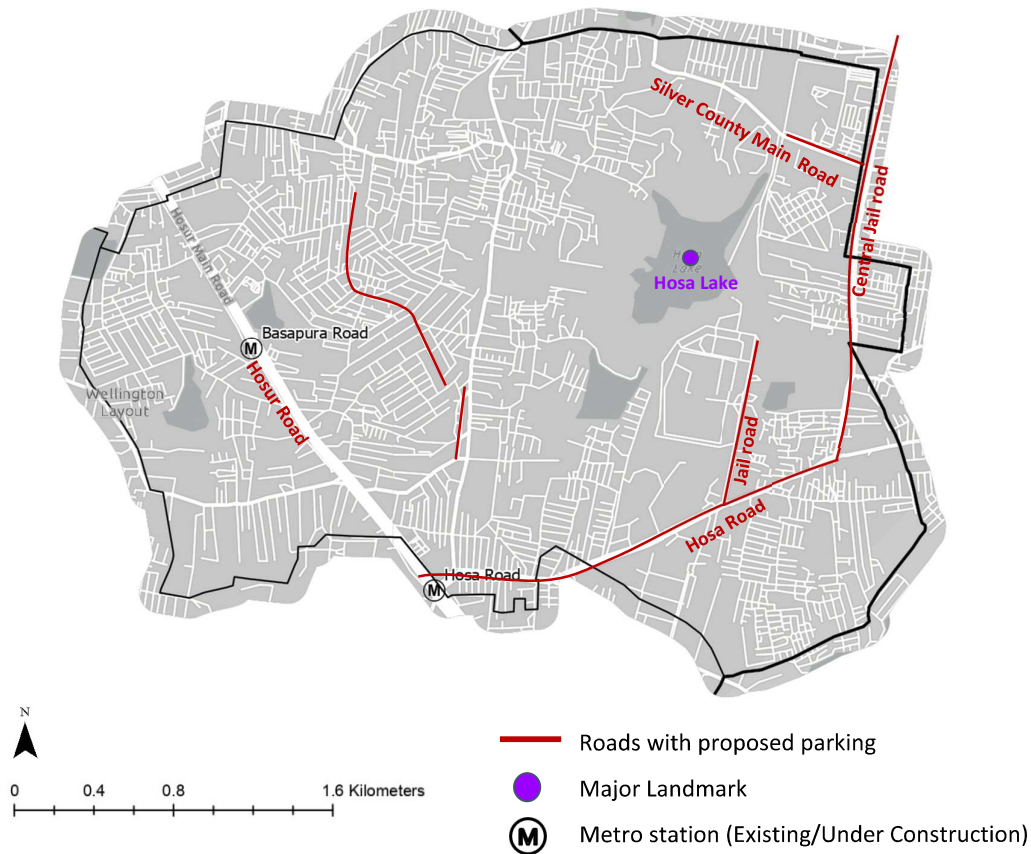


Figure 15 Map showing roads attraction points and proposed parking for Singasandra ward

Ward 192 - Begur ward

- Area: 18.9 sqkm
- Population density: 1025.9 person/sqkm
- Arterial roads/ Sub arterial: Bannerghatta road, Hosur road , NICE ring road, Begur Koppa road, Begur Lake road,
- Major landmarks: Begur lake, Akshyanagar lake

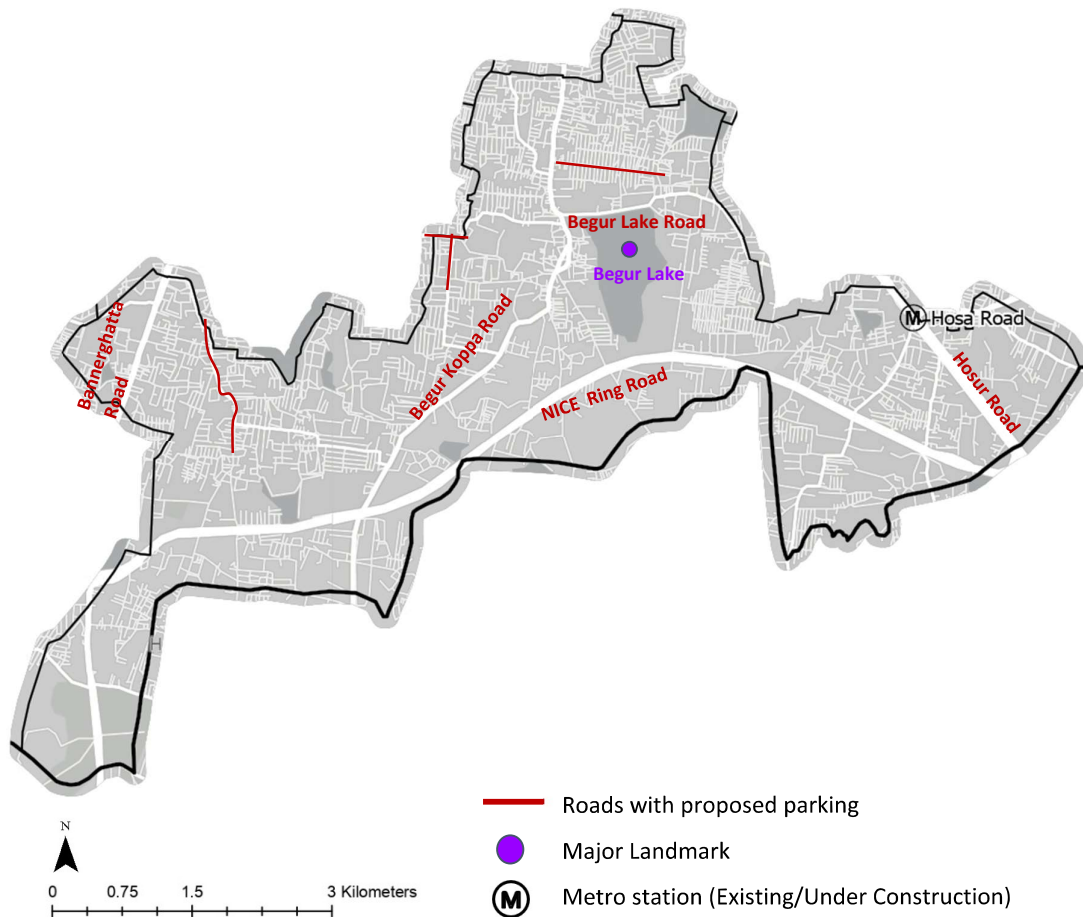


Figure 16 Map showing roads attraction points and proposed parking for Begur ward

Ward 194 - Gottigere ward

- Area: 6.3 sqkm
- Population density: 3,416 person/sqkm
- Arterial roads/ Sub arterial: Bannerghatta main road, Kothur main road, Amruth nagar main road, NICE road
- Major landmarks: BWSSB water tank, BMTC Depot, Gottigere tank

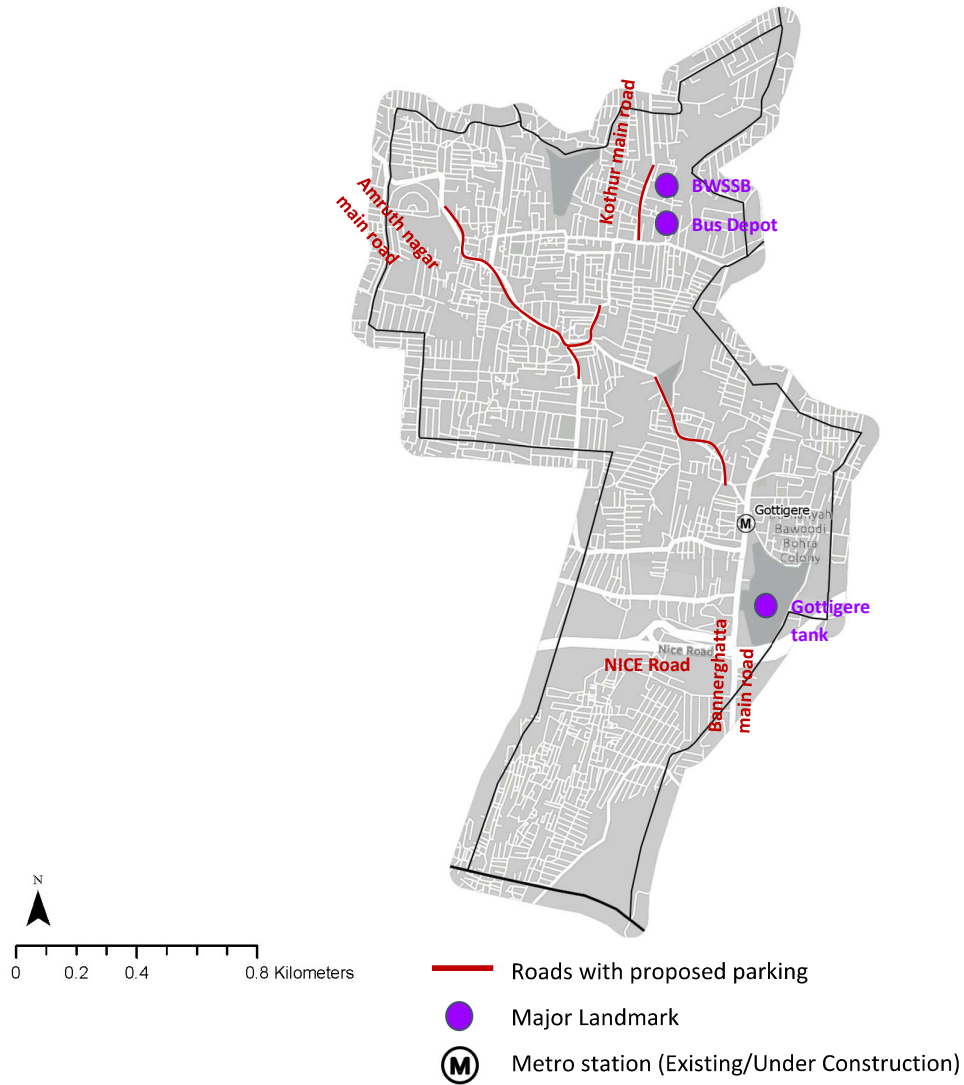


Figure 17 Map showing roads attraction points and proposed parking for Gottigere ward

Ward 195 - Konanakunte ward

- Area: 3.38 sqkm
- Population density: 5,970 person/sqkm
- Arterial roads/ Sub arterial: Kothnur main road
- Major landmarks: Chanchaghatta lake

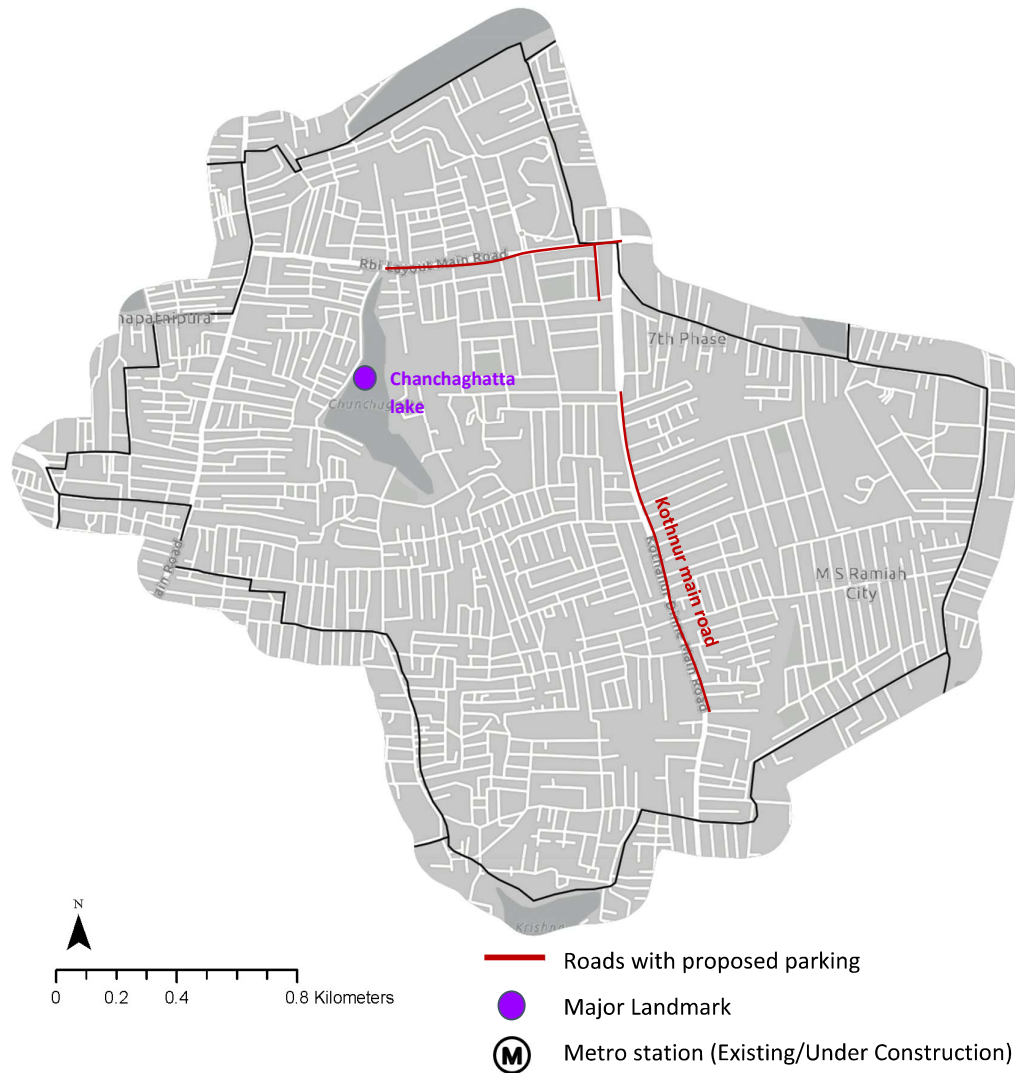


Figure 18 Map showing roads attraction points and proposed parking for Konanakunte ward

Ward 196 - Anjanapura ward

- Area: 12.06 sqkm
- Population density: 1,748 person/sqkm
- Arterial roads/ Sub arterial: NICE road, Amruth nagar main road
- Major landmarks: KPTCL office, Avalahalli kere

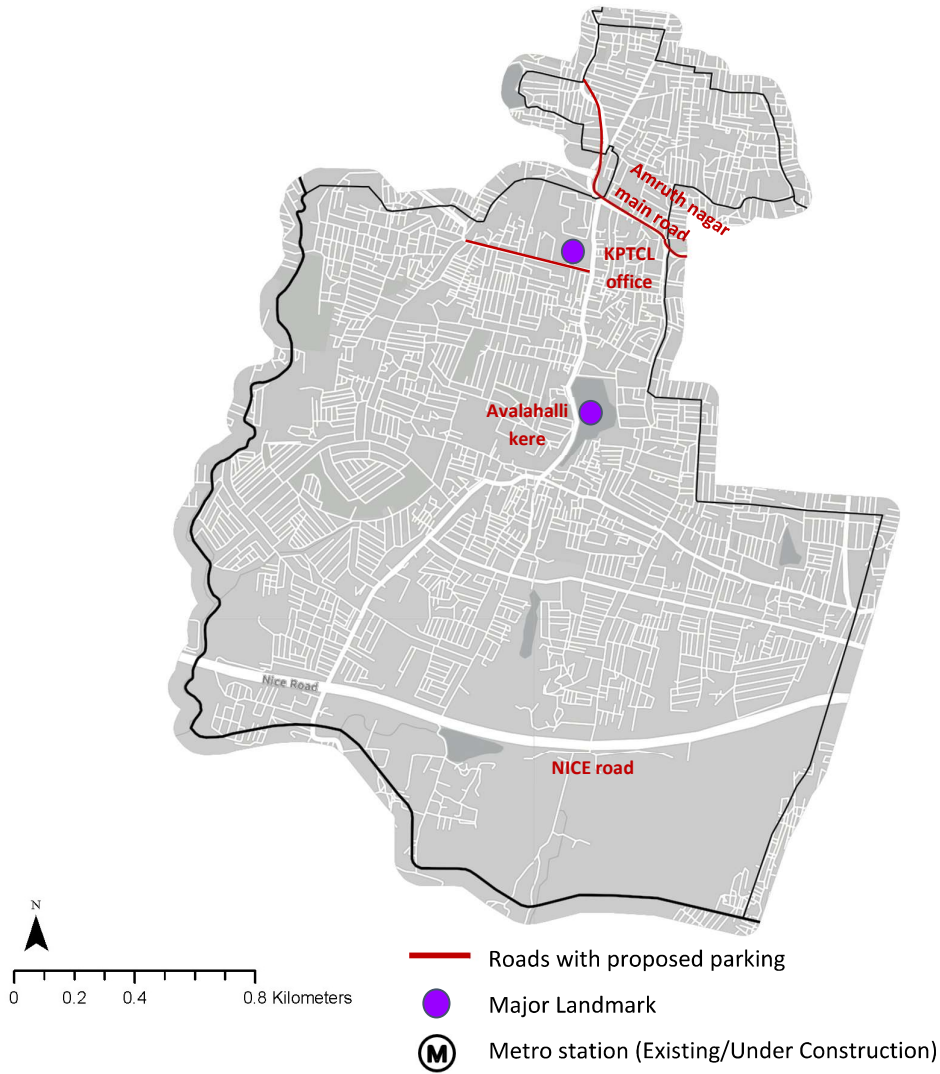


Figure 19 Map showing roads attraction points and proposed parking for Anjanapura ward

Ward 184 - Uttarahalli ward

- Area: 9.1 sqkm
- Population density: 2400 person/sqkm
- Arterial roads/ Sub arterial: NICE road, Dr. Vishnuvardhan Road, Subramanyapura main road, 80 ft road
- Major landmarks: Uttarahalli Lake, Uttarahalli Post Office, Sri Convention Centre

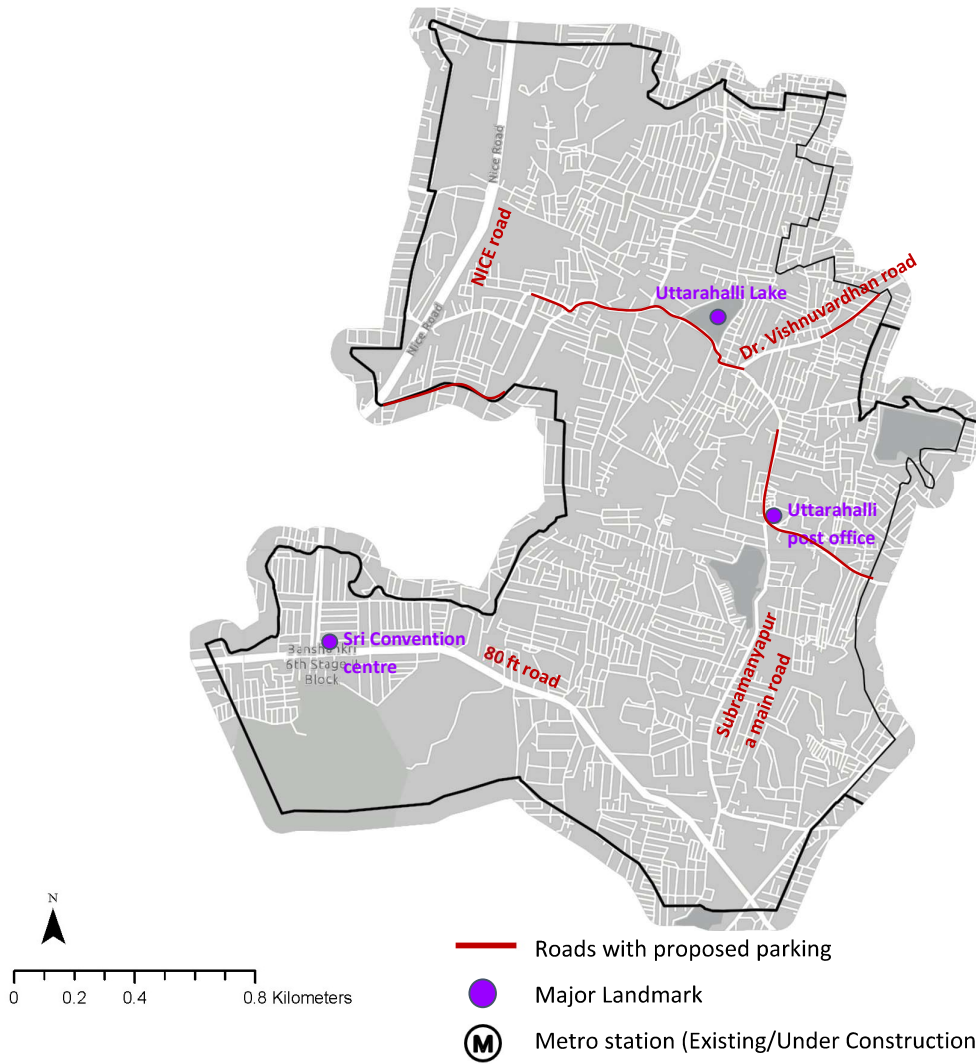


Figure 20 Map showing roads attraction points and proposed parking for Uttarahalli ward

Ward 185 - Yalachenahalli ward

- Area: 1.6 sqkm
- Population density: 17721.5 person/sqkm
- Arterial roads/ Sub arterial: Pipeline Road, Outer Ring road, Kanakapura Main Road
- Major landmarks: Annayappa kere



Figure 21 Map showing roads attraction points and proposed parking for Yalachenahalli ward

Ward 197 - Vasanthapura ward

- Area: 5.3 sqkm
- Population density: 4,626 person/sqkm
- Arterial roads/ Sub arterial: Kanakapura Road, Amruth nagar main road, Konankunte- Uttarahalli main road, Dr. Vishnuvardham road
- Major landmarks: Sai baba temple, Shankara Studio

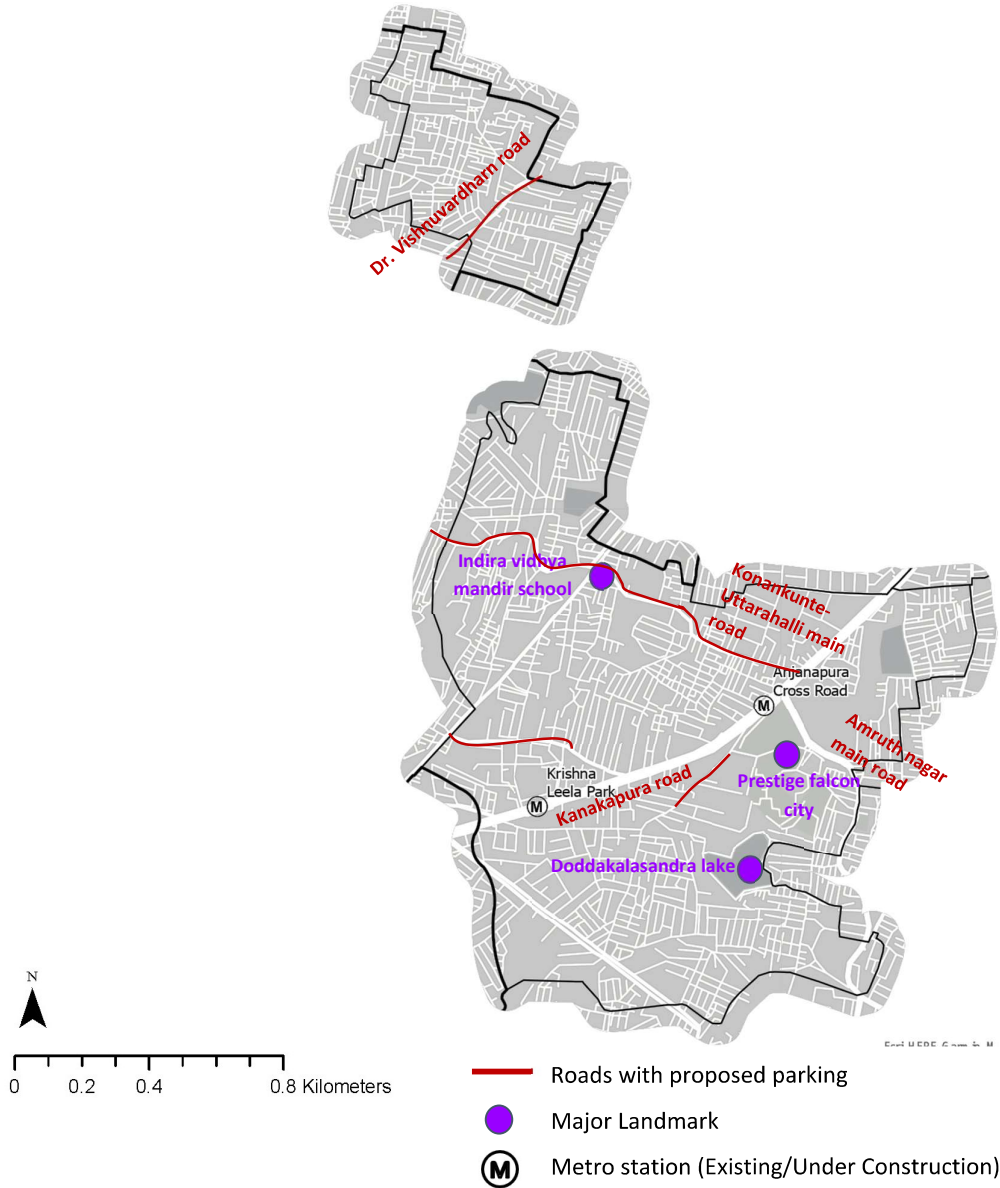


Figure 22 Map showing roads attraction points and proposed parking for Vasanthapura ward

5.2 Annexure 2 - Stake-holder meeting

Minutes of the meeting to brief regarding Area Parking Plan, BBMP Bommanahalli Zone on 26th April 2022 at 11:30 AM at the BBMP Office, Bommanahalli, Bangalore.

List of Attendees:

1. Mr. K.V. Shashi Kumar, Chief Engineer, Bommanahalli Zone, BBMP
2. Mr. Pramod Kumar, Executive Engineer, Bommanahalli Zone, BBMP
3. Mr. Hanumanth Rayappa, Assistant Executive Engineer, BBMP
4. Mr. Anjanappa C. T., Assistant Executive Engineer, BBMP
5. Mr. Raghunandan Manthri, Assistant Executive Engineer, BBMP
6. Mr. Srinivasa, Assistant Executive Engineer, BBMP
7. Mr. Sundraiah , Assistant Executive Engineer, BBMP
8. Mr. Neelakantiah , Assistant Executive Engineer, BBMP
9. Mr. Ramegowda, Assistant Engineer, BBMP
10. Mr. Rajagopala Babu, Assistant Engineer, BBMP
11. Mr. Umesh, Assistant Engineer, BBMP
12. Mr. Ramegowda, Assistant Engineer, BBMP
13. Mr. Nrasimha Murthy Naik, Assistant Engineer, BBMP
14. Mr. Shivkumar, Assistant Engineer, BBMP
15. Mr. Cheluvvaraju S, Assistant Engineer, BBMP
16. Mr. Maruthi, Assistant Engineer, BBMP
17. Mr. M. J. Kumar, Assistant Engineer, BBMP
18. Mr. Narendra Kumar, Assistant Engineer, BBMP
19. Mr. Venkataramanappa, Assistant Engineer, BBMP
20. Mr. Thimmaiah, Assistant Engineer, BBMP
21. Richa Pandey, Sr. Transport Planner, DULT
22. Shalini Choudhary, Asst. Transport Planner, DULT

- The Chief Engineer, Bommanahalli Zone, BBMP welcomed the attendees to the meeting and requested the Directorate of Urban Land Transport [DULT] to present the context of the meeting and brief on the parking plan prepared for the South Zone, BBMP.
- The Senior Transport Planner, DULT provided a brief on the parking policy 2.0 that has been approved by the Government of Karnataka [GoK]. It was mentioned that GoK has directed DULT to prepare Area Parking Plan for each BBMP zone in line with the directives of Parking Policy 2.0.
- DULT informed that the policy prescribes that a committee be constituted under the Zonal

Commissioner, BBMP with representatives from Traffic police and jurisdictional RTO for each zone to assist/monitor in preparation and implementation of the Area parking plan for the respective BBMP Zones.

- The Chief Engineer, BBMP informed that the new Joint Commissioner shall be joining the office next month and hence the task force meeting can be scheduled as per further communication with the new Joint Commissioner.
- The Senior Transport Planner, DULT requested that the parking plans for each ward be discussed with the respective ward engineers, traffic police and RTO before the Task Force meeting. The feedback and suggestions received can be further incorporated into the plans to finalize and present it the task force meeting that shall be commenced under the chairmanship of the Joint commissioner, BBMP Bommanahalli Zone.
- The CE, BBMP, Bommanahalli Zone, suggested that the plan should be verified by the concerned ward engineers and the jurisdictional traffic police for each ward to ensure that the plan is practical for implementation. Accordingly, it was directed that Executive Engineers of each ward and the traffic police review the draft APP separately and put forth their opinion before the committee meeting.
- The CE, BBMP, Bommanahalli Zone, ended the meeting with a vote of thanks.

**Proceedings of the meeting to finalize Area Parking Plan under the Chairmanship of Joint
Commissioner, BBMP Bommanahalli Zone on 22nd July 2022 at 11:00 PM at the BBMP
Zonal Office, Dasarahalli, Bangalore.**

List of Attendees

1. Mr. H E Krishnamurthy, Joint Commissioner, Bommanahalli Zone, BBMP
2. Mr. Sheshadri Y N, Executive Engineer, BBMP, Bommanahalli Zone
3. Mr. B S Srinivas, ACP Traffic, South Sub-Division, Bangalore
4. Mr. B Shiva Shankar Reddy, ACP, Traffic, South-East Sub-Division, Bangalore
5. Mr. Ravi D. AEE, Ward no. 174-HSR Layout, BBMP, Bommanahalli Zone
6. Mr. Raghunandan Mantri, AEE, Ward no.193-Arkere, Bommanahalli Zone
7. Mr. Anjanappa C T, AEE, Ward no. 175-Bommanahalli, Bommanahalli Zone
8. Mr. Santhosh Kumar, AEE (TA to CE, Bommanahalli Zone
9. Mr. D Sundaraiah, AEE, Ward no. 176-Anjanapura, Bommanahalli Zone
10. Mr. Shanmukh Hadagad, Senior Inspector, RTO, Electronic City
11. Mr. Shamanth Kuchangi, Technical Head, DULT
12. Ms. Richa Pandey, Sr. Transport Planner, DULT
13. Ms. Shalini Choudhary, Asst. Transport Planner, DULT

1. The Joint Commissioner, Bommanahalli Zone, BBMP welcomed the attendees to the meeting and requested the Directorate of Urban Land Transport (DULT) to present the details of the ward-level consultations carried out with the Bangalore Traffic Police on the parking allocation plans prepared for the Bommanahalli zone of BBMP.
2. The Technical Head, DULT informed that the consultations with relevant Traffic Police officials were completed in all the 16 wards of the Bommanahalli zone and site visits were also carried out as necessary. It was informed that:
 - A total of 79 non-residential roads (parking locations) were reviewed by the relevant Traffic Police. Out of the 79 roads (parking locations), comments for revision were received for 13 roads (parking locations) for no-parking or provision of only 2-wheeler parking. Two roads (Arkere main road, shell petrol pump side and Cave temple road) in ward 193-Arkere were suggested to provide parking on. For the remaining 66 parking locations, the traffic police agreed with the DULT proposed plan.
 - DULT had further reviewed the 13 roads and incorporated necessary corrections in the parking allocation plans for those roads.
3. The Senior Transport Planner, DULT presented ward-wise parking allocation plans for all 16 wards showcasing the input provided by the traffic police and the modifications agreed

- in the revised parking allocation plan (annexed to this proceedings).
4. The Assistant Commissioner of Police, South, suggested providing only 2-wheeler parking on 5th Main Road and 24th Main Road of HSR-Ward 174 due to traffic intensity in peak hours on these roads. DULT officials agreed to the same.
 5. As all the stake holders present in the meeting agreed with the revised parking allocation plan, the Joint Commissioner, Bommanahalli Zone, BBMP directed DULT to finalize the parking allocation plan incorporating the above comment and proceed with the preparation of detailed designs.
 6. The meeting concluded with a vote of thanks.


 Joint Commissioner
 Bommanahalli Zone, BBMP

In the meeting held with Joint Commissioner, Bommanahalli zone, on 26.05.2022, it was directed to get feedback from Traffic Police on Area Parking Plan for 16 wards of Bommanahalli zone, prepared by DULT. As per directions, detailed consultations with the officials have been completed and the road-wise feedback has been noted down. The feed back from consultations with AEEs of ward nos. 184, 185, 197 (of Uttara Halli sub-division) are also presented here.

Ward 174 - HSR

S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	5 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
2	14 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	19 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
4	24 th main road	No comments.	No comments. Parking	Accepted.

		Parking as per APP was accepted.	as per APP was accepted.	
5	27 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
6	7 th cross	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
7	17 th cross	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
8	22 nd cross	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 175 - Bommanahalli				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Virat Nagar main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
2	6 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	7 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
4	9 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
5	Bhagat Singh main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
6	Kodichikkanahalli	No comments.	No comments. Parking	Accepted.

	main road	Parking as per APP was accepted.	as per APP was accepted.	
7	12 th B main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
8	Sir M V Main Road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 184 - Uttarahalli				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Arehalli main road	No comments. Parking as per APP was accepted, except no-parking is recommended near petrol pump	Accepted. Parking as per plan.	Accepted.
2	Uttarahallipoornapra gna road	No comments. Parking as per APP was accepted.	Accepted. Parking as per plan.	Accepted.
3	29 th main road	No comments. Parking as per APP was accepted.	Accepted. Parking as per plan.	Accepted.
4	Dr. Vishnuwardhan road	No comments. Parking as per APP was accepted.	Four-wheeler parking near ShantiSagar to be replaced by two-wheeler parking	Accepted.
5	Konankunte-uttarahalli main road	No comments. Parking as per APP was accepted.	Near the junction, as the road gets narrow, it was suggested not to provide parking.	Accepted.
6	Subhramanyapura main road- near Gubbala school	It was recommended to eliminate the parking provisioned	It was recommended to eliminate the parking provisioned by DULT.	As suggested, parking eliminated from this location.

		by DULT.		
7	80ft road	No comments. Parking as per APP was accepted.	Accepted. Parking as per APP.	Accepted.
8	Hindustan Granite road	No parking was recommended	Accepted. Parking as per APP.	As suggested, parking eliminated from this location.
Ward 185 - Yalachenahalli				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	RV road	No Parking was recommended	No Parking was recommended	As suggested, parking eliminated from this location.
2	7 th main road near Yelachenahalli kere	No comments. Parking as per APP was accepted.	Accepted. Parking as per plan.	Accepted.
3	11 th crossroad near the alpine school	No comments. Parking as per APP was accepted.	Accepted. Parking as per plan.	Accepted.
Ward 186 - Jaraganahalli				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Puttenahalli main road	No comments. Parking as per APP was accepted.	-	Accepted.
2	1 st crossroad (kanakapura main road)	No parking was recommended due width constrained.	-	As suggested, parking eliminated from this location.
3	24 th main road	No comments. Parking as per APP was accepted.	-	Accepted.
Ward 187 - Puttenahalli				

S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Puttenahalli main road	Additional parking can be provided near Brigade Millennium	Additional parking can be provided near Brigade Millennium	Suggestions will be considered in revised plans after rationalization.
2	24 th main road	Auto parking can be provisioned near Sobha Tulip apartment	Auto parking can be provisioned near Sobha Tulip apartment	Suggestions will be considered in revised plans after rationalization.
3	22 nd main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
4	18 th crossroad	No parking was recommended	No parking was recommended	As suggested, parking eliminated from this location.
5	3 rd main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
6	4 th crossroad	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 188 - Bilekahalli				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Devarachikkanahalli main road	No parking was recommended	No parking was recommended	As suggested, parking eliminated from this location.
2	5 th main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	Sir M Visvesvaraya Marg	Parking from Vatsalya clinic to near junction can	Parking from Vatsalya clinic to near junction can be provisioned	Suggestion will be considered in revised plans after

		be provisioned		rationalization.
4	4 th cross	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
5	Devarachikkanahalli main road (Dead end side)	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 189 - Hongasandra				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	No parking provided	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 190- Mangammanapalya				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Hosapalya main road	No-parking was recommended	No-parking was recommended	Accepted.
2	Kudlu Road	4-wheeler parking towards 3 rd cross-road was recommended to be removed	4-wheeler parking towards 3 rd cross-road was recommended to be removed	As suggested, parking eliminated from this location.
Ward 195- Konankunte				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	RBI layout main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
2	Kothnur main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.

Ward 193- Arakere				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	BDA 80ft main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
2	Hullimavu main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	BTS main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
4	Arekere main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
5	Begur main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
6	4th cross	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
7	Akshaya Nagar main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
8	Cave Temple Road	Suggested that parking can be provided	Suggested that parking can be provided	As the road has campuses abutting it and parking demand was nil at the time of the survey, parking is not provisioned
9	Arkere main road near shell petrol pump	Suggested that parking can be provided	Suggested that parking can be provided	Parking couldn't be provided due to the width of the road and proximity

				to junction
Ward 191- Singasandra				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Kudlu Road	No parking was recommended from 3 rd cross road to Haralur road	-	As suggested, parking eliminated from this location.
2	14 th cross road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	Haralur road	No parking was recommended	No parking was recommended	As suggested, parking eliminated from this location.
4	60ft main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
5	Hosa road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
6	Jail road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
7	Central jail road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
8	Choodasandra road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 192- Begur				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Doddakammanahalli	No comments.	No comments. Parking	Accepted.

	main road	Parking as per APP was accepted.	as per APP was accepted.	
2	Begur koppa road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	Begur Hullimavu road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
4	Akshaya Nagar main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
5	Hosa road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
6	Vishwapriya Nagar – 1 st main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 194- Gottigere				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Amruth Nagar main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
2	Kotthnur main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	BG road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
4	Bannerghatta main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
5	Kothur main road	No comments.	No comments. Parking	Accepted.

		Parking as per APP was accepted.	as per APP was accepted.	
Ward 196- Anjanapura				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Amruthnagar main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
2	Anjanapura main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
Ward 197- Vasanthpura				
S. No.	Street Name	BTP's Comment	BBMP's comment	DULT Action
1	Vasanthpura main road	No comments. Parking as per APP was accepted.	No parking before bus stop	Accepted.
2	Kanakapura main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
3	Ganapathi main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
4	11 th cross road (RMS international)	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.
5	AmruthNagar main road	No comments. Parking as per APP was accepted.	No comments. Parking as per APP was accepted.	Accepted.

5.3 Annexure 3 – Typical Signage

Following is the typical signage for various modes as coded in detailed drawings. A detailed Parking Signage Manual has been prepared by DULT which shall be shared subsequently.



FOUR WHEELER PARKING
P1



TWO WHEELER PARKING
P2



PARKING (PWD)
P3



PICK-UP AND DROP-OFF
P4



SCHOOL BUS
PICK-UP AND DROP-OFF
P5



LOADING/
UNLOADING ZONE
P6



AUTO STAND
P7



SMMS PARKING
P8



TRIN TRIN HUB
P9



shaping the way cities move

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