



Georeferenced Aerial Survey and Asset Analysis of Doddajala Gram Panchayat

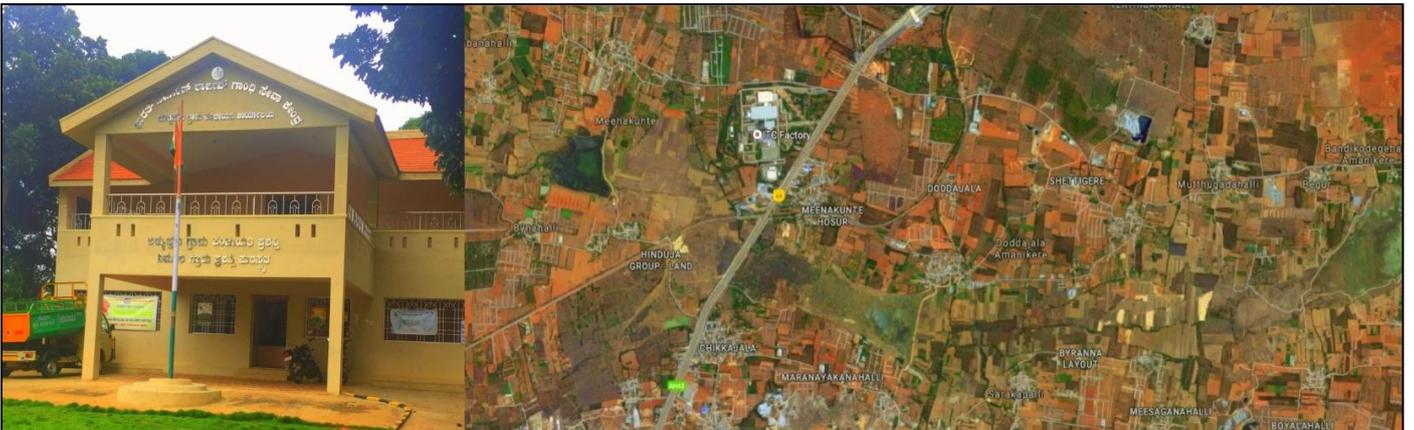


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Introduction

Doddajala village is located in Bangalore North Tehsil of Bangalore district in Karnataka, India. It is situated 30 km away from sub-district headquarter Bangalore North and 30 km away from district headquarter Bangalore.

The total geographical area of village is 305.42 hectares. There are about 400 houses in Doddajala village. Devanahalli is nearest town to Doddajala which is approximately 16 km away.

There are 7 Villages under Doddajala Panchayat:

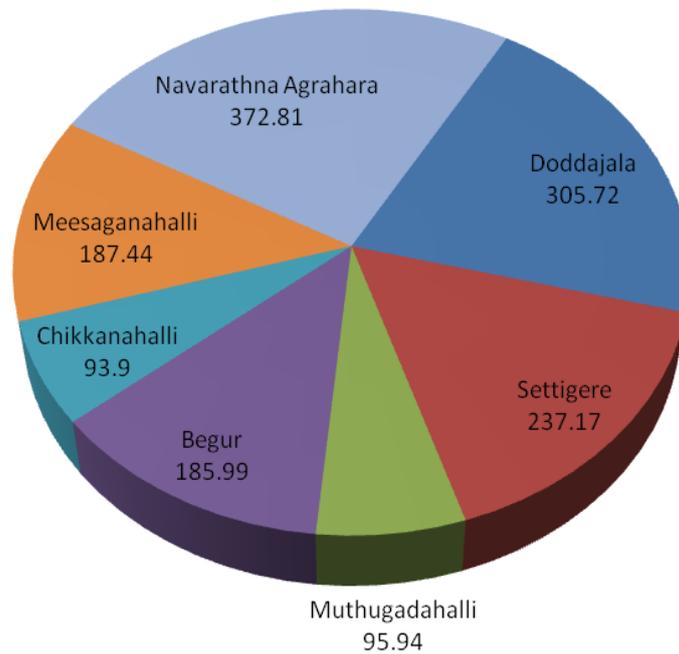
- Doddajala
- Navarathna Agrahara
- Settigere
- Muthugadahalli
- Begur
- Chikkanahalli
- Meesaganahalli



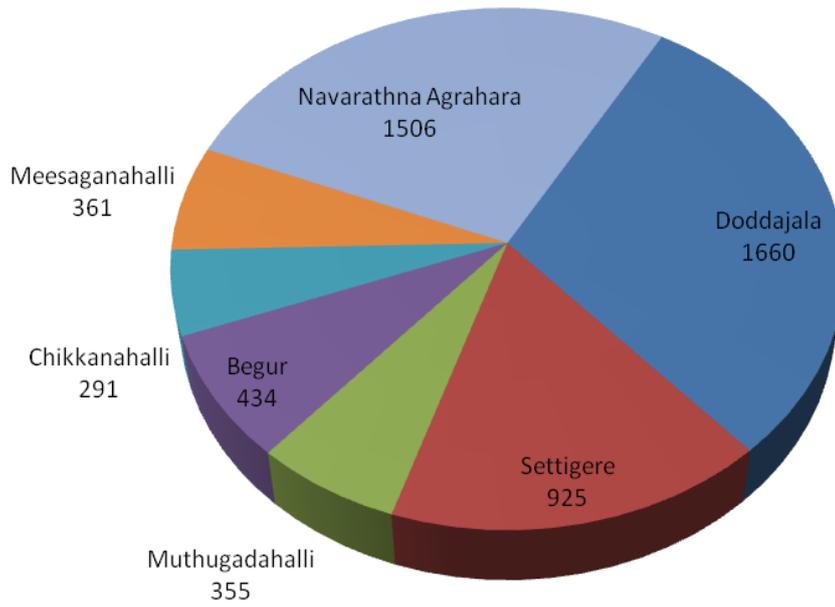
Figure 1 - Villages of Doddajala Gram Panchayat

Village	Total Area (Hectares)	Total Population
Doddajala	305.72	1660
Navarathna Agrahara	372.81	1506
Settigere	237.17	925
Muthugadahalli	95.94	355
Begur	185.99	434
Chikkanahalli	93.9	291
Meesaganahalli	187.44	361
Total	1478.97	5532

Village Area Wise Distribution (Acres)



Village Population Wise Distribution



Aerial Survey of Villages

Doddajala Gram Panchayat President Sri Mahesh Kumar assigned HUVIAIR Technologies to do an aerial survey of the village limits of each village in the Gram Panchayat. The objectives were:

- Capture a high resolution geo-tagged top view image of each village
- Place each geo-referenced image on Google Earth
- Measure the area of each village limits
- Mark all the Assets of each village
- Measure road lengths (Main roads, concrete roads, tar roads, kutcha roads)
- Analyze the data acquired

Doddajala

Doddajala is located in Bangalore North Tehsil of Bangalore district in Karnataka. It comes under Doddajala Panchayat and covers 305.72 Hectares of land. It has a total population of 1660.

Doddajala Layout

Images



Figure 2 - Doddajala Layout Image overlaid on Google Earth



Figure 3 - Doddajala Layout Standalone Image

Assets



Figure 4 - Doddajala Layout Assets

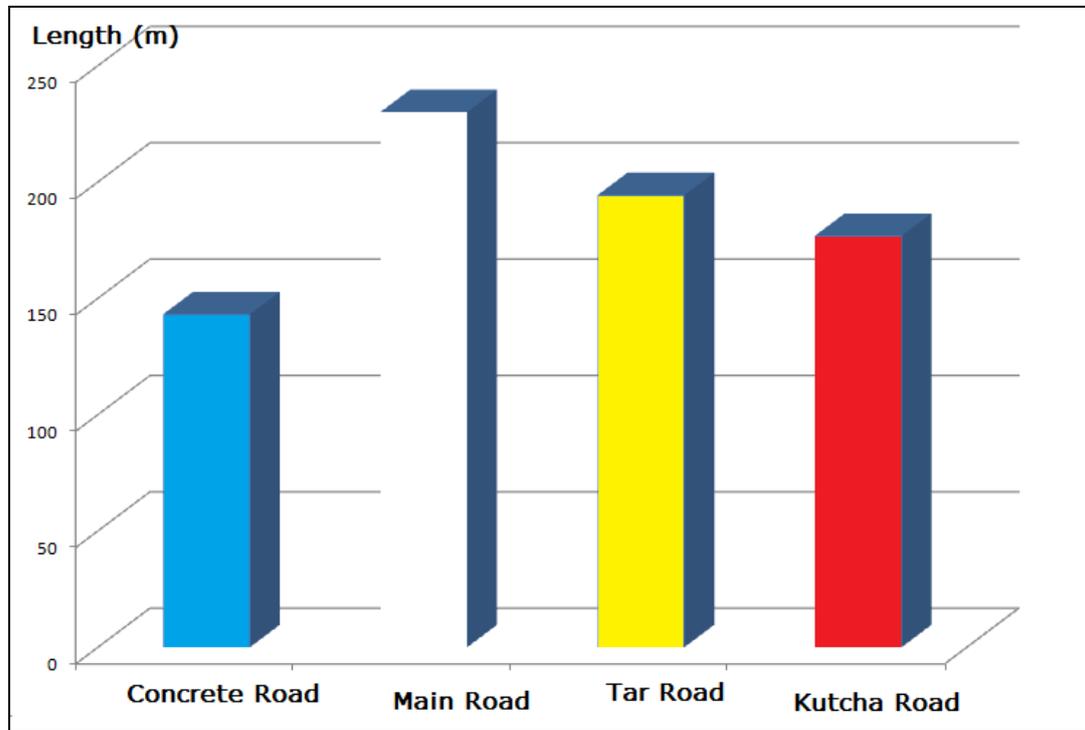
Assets	Quantity
Overhead tank	1
Mini tanks	3
Gram Panchayat Office	1
Godown	1
Purified drinking water plant	1

Measurements



Figure 5 - Doddajala Layout Measurements

Parameter	Calculation	Measurement
Boundary area		5.82 acres
Length of concrete road	$74.8+31.4+36.9$	143.1m
Length of Main Road		230m
Length of Tar road	$74.3+100+20$	194.3m
Length of Kutcha road	$81.4+29.7+93.2$	204.3m



Doddajala Village

Images



Figure 6 - Doddajala Village Image overlaid on Google Earth



Figure 7 - Doddajala Village Standalone Image

Assets



Figure 8 - Doddajala Village Assets

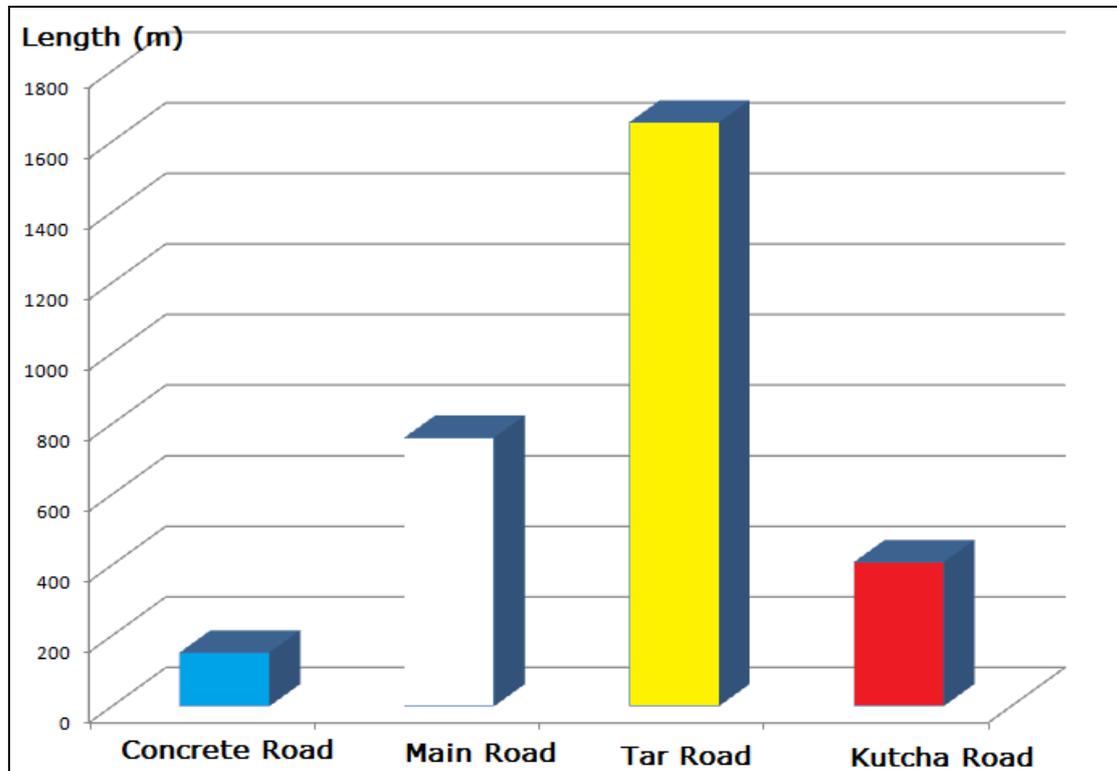
Assets	Quantity
Overhead tank	1
Mini tanks	3
Temple	7
School	2
Library	1
Panchayat Buildings	3
Hospital	1

Measurements



Figure 9 - Doddajala Village Measurements

Parameter	Calculation	Measurement
Boundary area		28.9 acres
Length of concrete road		152m
Length of Main Road	710+61	771m
Length of Tar road	249+253+76.3+139+46.5+76.1+141 +204+47.5+52.3+46.4+64+55.8+15.4 +56+102+29.6	1653.9m
Length of Kutcha road	166+35.6+140+44.7+21.8	408.1m



Navarathna Agrahara

Navarathna Agrahara is located in Bangalore North Tehsil of Bangalore district in Karnataka. It comes under Doddajala Panchayat and covers 372.81 Hectares of land. It has a total population of 1506.

Bhovipallya

Images



Figure 10 - Bhovipallya Image overlaid on Google Earth



Figure 11 - Bhovipallya Standalone Image

Assets



Figure 12 - Bhovipallya Assets

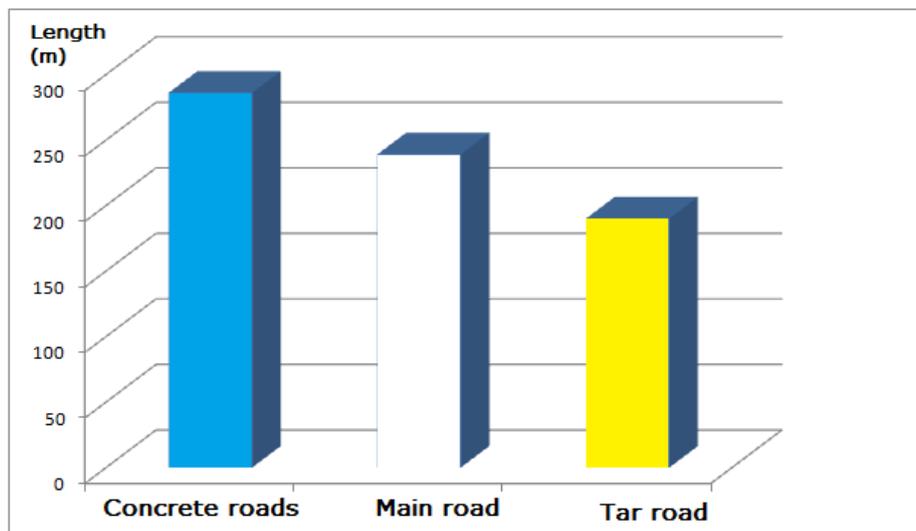
Assets	Quantity
Temple	1
Mini tanks	4
Public Toilet	1
School	1
Anganwadi	1

Measurements



Figure 13 - Bhovipallya Measurements

Parameter	Calculation	Measurement
Boundary area		5.63 acres
Length of concrete roads	$106+59.3+121$	286.3m
Length of Main Road		239m
Length of Tar road		190m



Navarathna Agrahara

Images



Figure 14 - Navarathna Agrahara Image overlaid on Google Earth



Figure 15 - Navarathna Agrahara Standalone Image

Assets

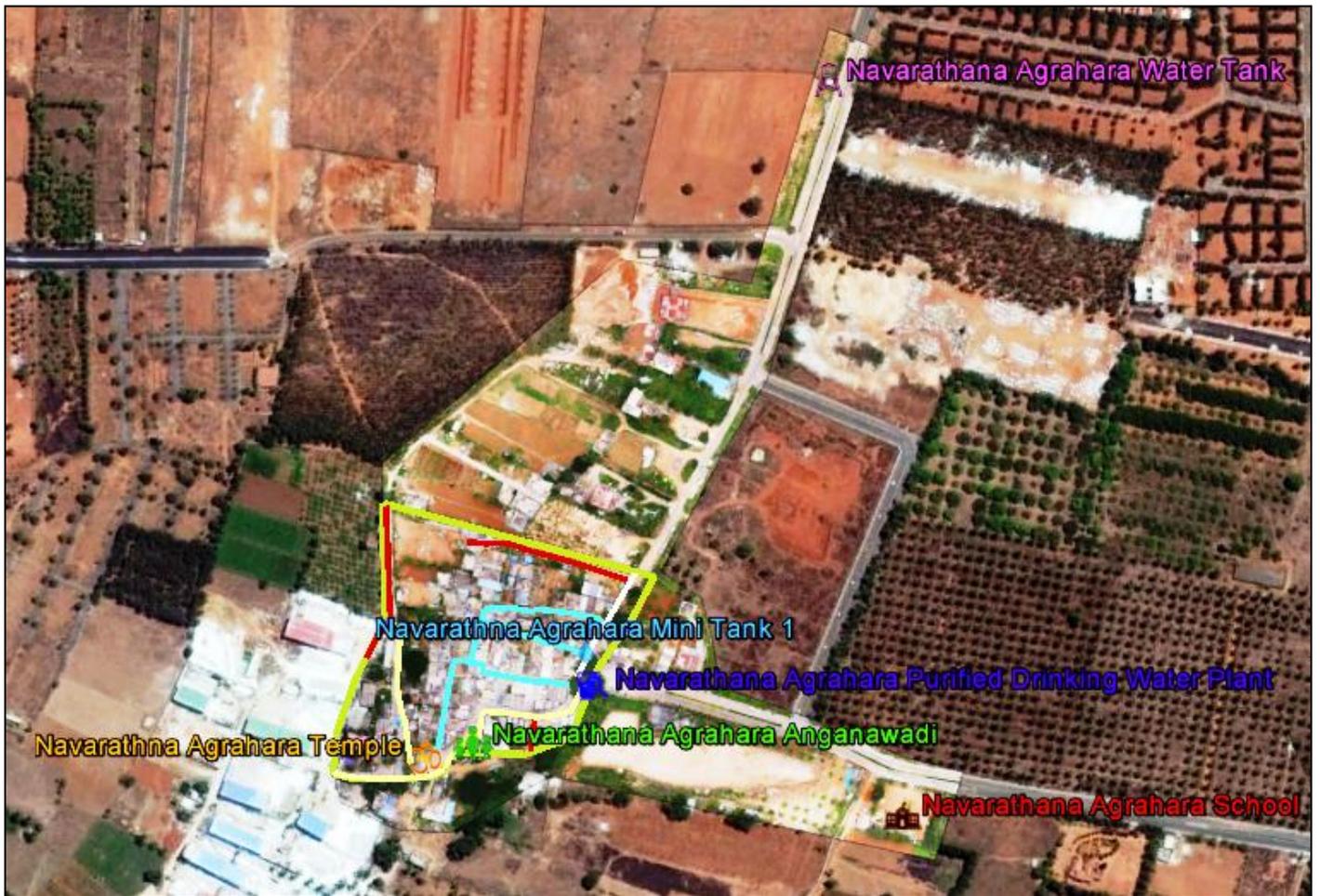


Figure 16 - Navarathna Agrahara Assets

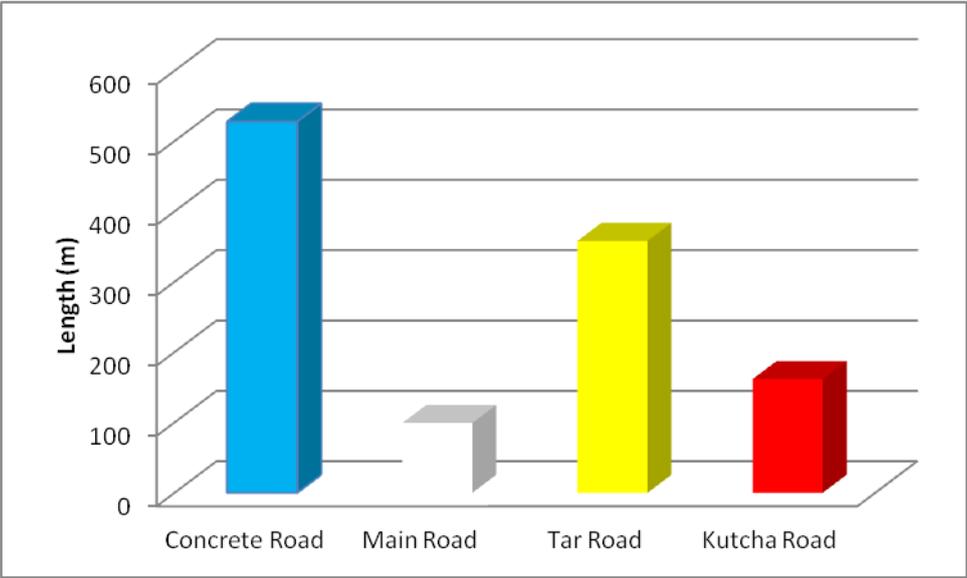
Assets	Quantity
Overhead tank	1
Mini tanks	1
Purified drinking water plant	1
School	1
Anganwadi	1
Temple	1

Measurements



Figure 17 - Navarathna Agrahara Measurements

Parameter	Calculation	Measurement
Boundary area		8.8 acres
Length of concrete road	$84.7+173+140+130$	527.7m
Length of Main Road		99.2m
Length of Tar road	$243+115$	358m
Length of Kutcha road	$134+27.6$	161.6m



Settigere

Settigere is located in Bangalore North Tehsil of Bangalore district in Karnataka. It comes under Doddajala Panchayat and covers 237.17 Hectares of land. It has a total population of 925.

Images



Figure 18 - Settigere Image Overlaid on Google Earth



Figure 19 - Settigere Standalone Image

Assets



Figure 20 - Settigere Assets

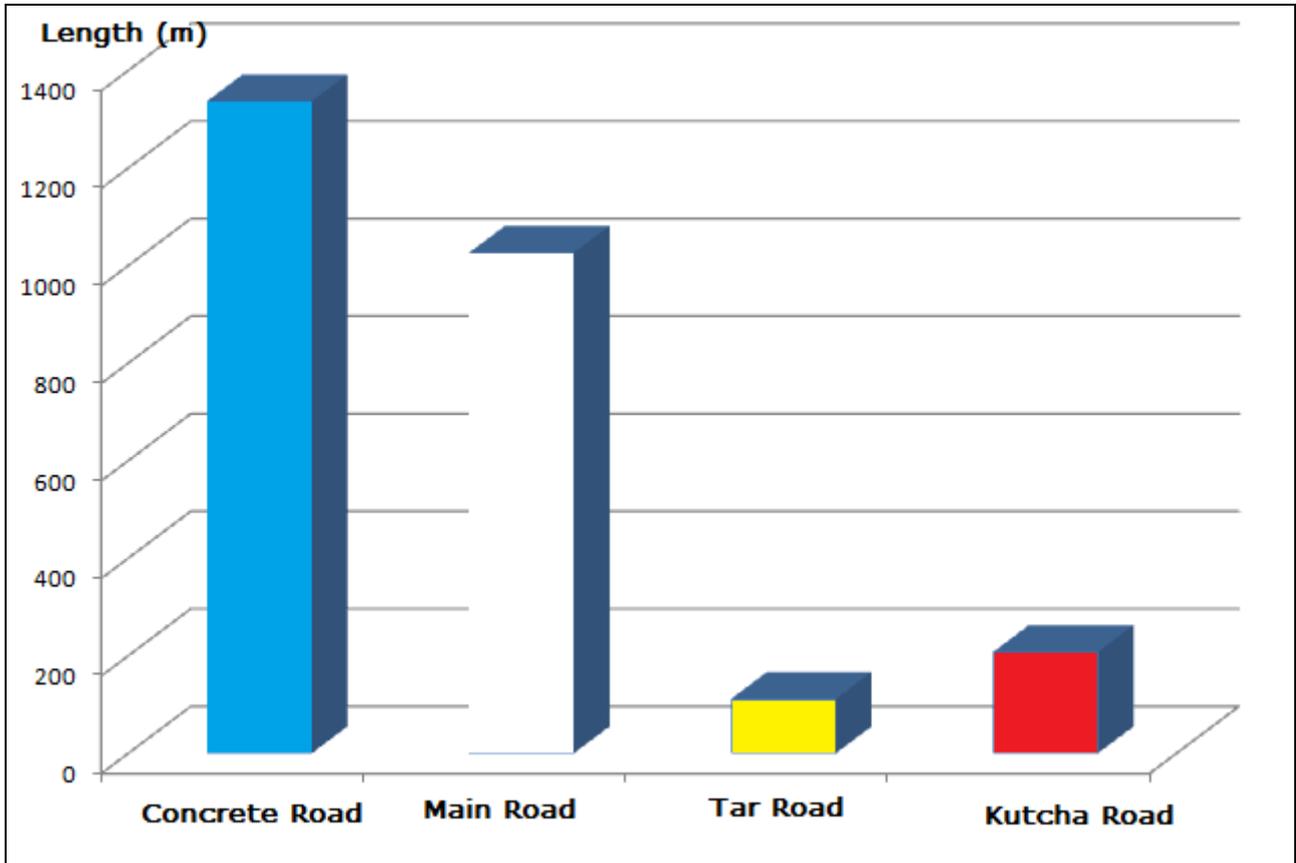
Assets	Quantity
Temple	3
Mini tanks	4
Overhead Tank	1
School	1
Purified drinking water plant	1
Anganwadi	1

Measurements



Figure 21 - Settigere Measurements

Parameter	Calculation	Measurement
Boundary area		22.4 acres
Length of concrete road	$36.9+17.9+37.5+48+122$ $+70.3+7+124+72.1+28$ $+14+40.4+273+66.9+107+22.4$ $+21+27.8+90.4+71.1+39.2$	1336.9m
Length of Main Road	539+487	1026m
Length of Tar road	43.4+68	111.4m
Length of Kutcha road	89.5+118	207.5m



Muthugadahalli

Muthugadahalli is located in Bangalore North Tehsil of Bangalore district in Karnataka. It comes under Doddajala Panchayat and covers 95.94 Hectares of land. It has a total population of 355 people.

Images



Figure 22 - Muthugadahalli Image overlaid on Google Earth



Figure 23 - Muthugadahalli Stand Alone Image

Assets



Figure 24 - Muthugadahalli Assets

Assets	Quantity
Temple	1
Mini tanks	3
Overhead Tank	1
School	1
Purified drinking water plant	1
Government Building	1
Dairy	1

Measurements

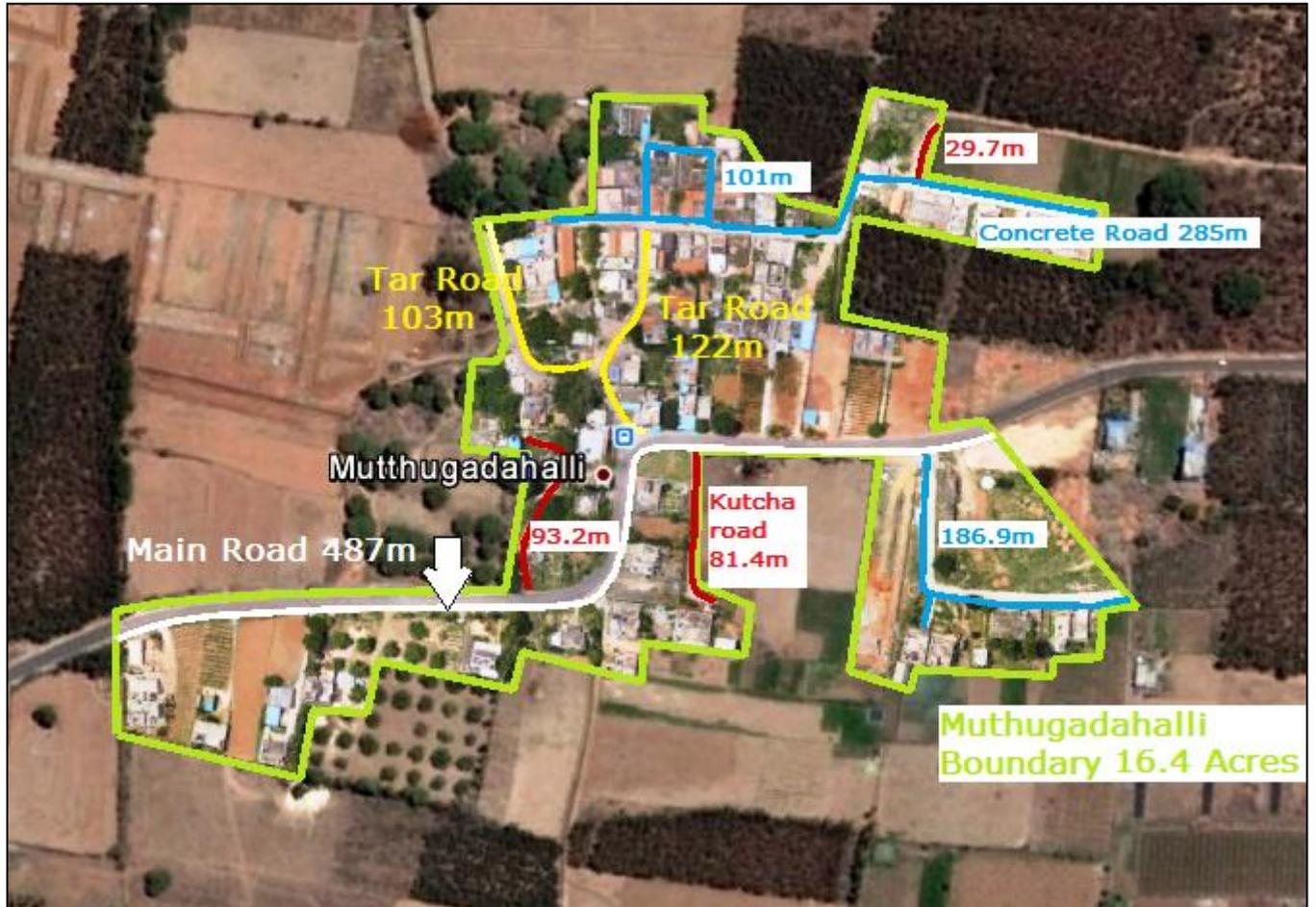
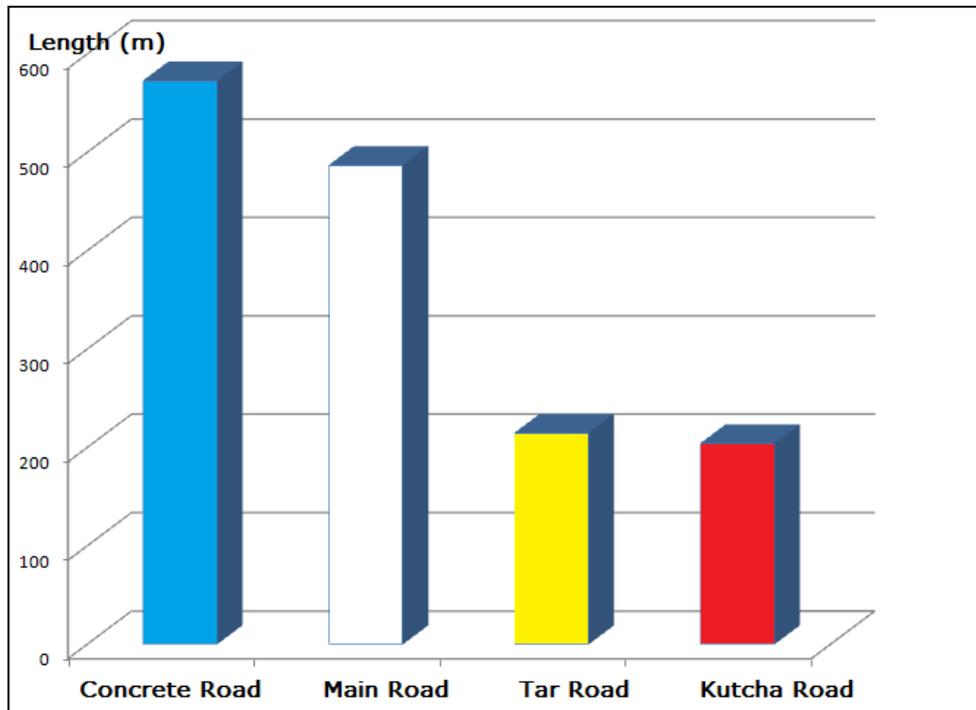


Figure 25 - Muthugadahalli Measurements

Parameter	Calculation	Measurement
Boundary area		16.4 acres
Length of concrete road	$101+285+170+16.9$	572.9m
Length of Main Road		487m
Length of Tar road	$112+103$	215m
Length of Kutchra road	$81.4+29.7+93.2$	204.3m



Begur

Begur is located in Bangalore North Tehsil of Bangalore district in Karnataka. It comes under Doddajala Panchayat and covers 185.99 Hectares of land. It has a total population of 434 people.

Images



Figure 26 - Begur Image overlaid on Google Earth



Figure 27 - Begur Standalone Image

Assets



Figure 28 - Assets in Begur

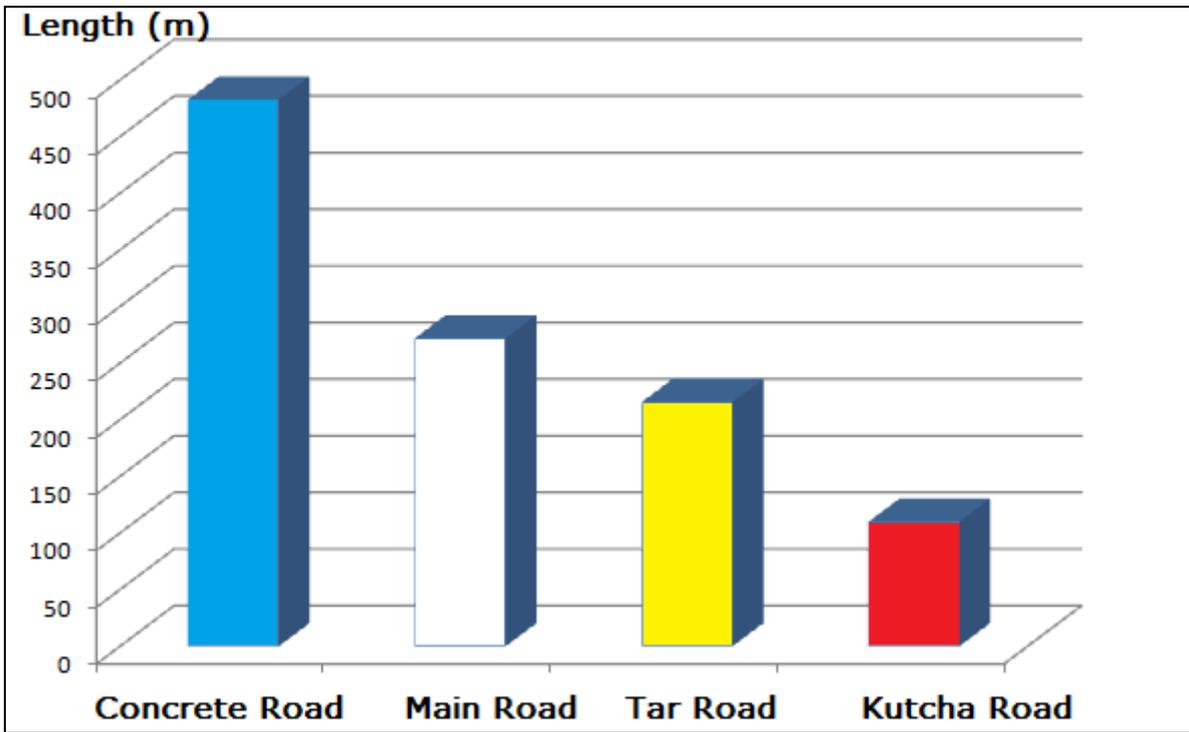
Assets	Quantity
Temple	2
Mini tanks	4
Anganwadi	1
School	1

Measurements



Figure 29 - Muthugadahalli Measurements

Parameter	Calculation	Measurement
Boundary area		10.5 Acres
Length of concrete road	$230+40.3+49.8+113+22.8+26.8$	482.7m
Length of Main Road		272m
Length of Tar road	$195+20.6$	215.6m
Length of Kutcha road	$76+24$	110m



Chikkanahalli

Chikkanahalli is located in Bangalore North Tehsil of Bangalore district in Karnataka. It comes under Doddajala Panchayat and covers 93.90 Hectares of land. It has a total population of 291.

Images



Figure 30 - Chikkanahalli Image overlaid on Google Earth



Figure 31 - Chikkanahalli Standalone Image

Assets



Figure 32 - Chikkanahalli Assets

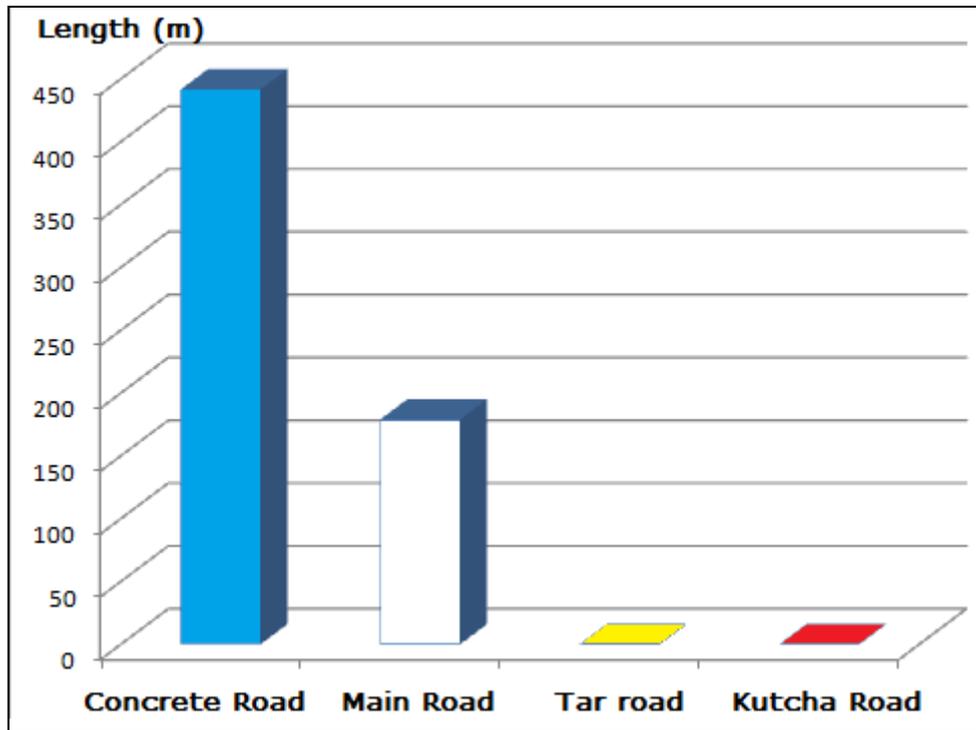
Assets	Quantity
Temples	2
Mini tanks	3
Anganwadi	1
Purified Drinking Water Plant	1
School	1

Measurements



Figure 33 - Chikkanahalli Measurements

Parameter	Calculation	Measurement
Boundary area		4.57 acres
Length of concrete road	$341+17.8+39.9+42.9$	441.6m
Length of Main Road		179m
Length of Tar road		0
Length of Kutcha road		0



Meesaganahalli

Meesaganahalli is located in Bangalore North Tehsil of Bangalore district in Karnataka. It comes under Doddajala Panchayat and covers 187.44 Hectares of land. It has a total population of 361.

Images



Figure 34 - Meesaganahalli Image overlaid on Google Earth



Figure 35 - Meesaganahalli Standalone Image

Assets



Figure 36 - Meesaganahalli Assets

Assets	Quantity
Temples	1
Mini tanks	5
Overhead Tank	1
Purified drinking water plant	1
School	1
Anganwadi	1

Measurements

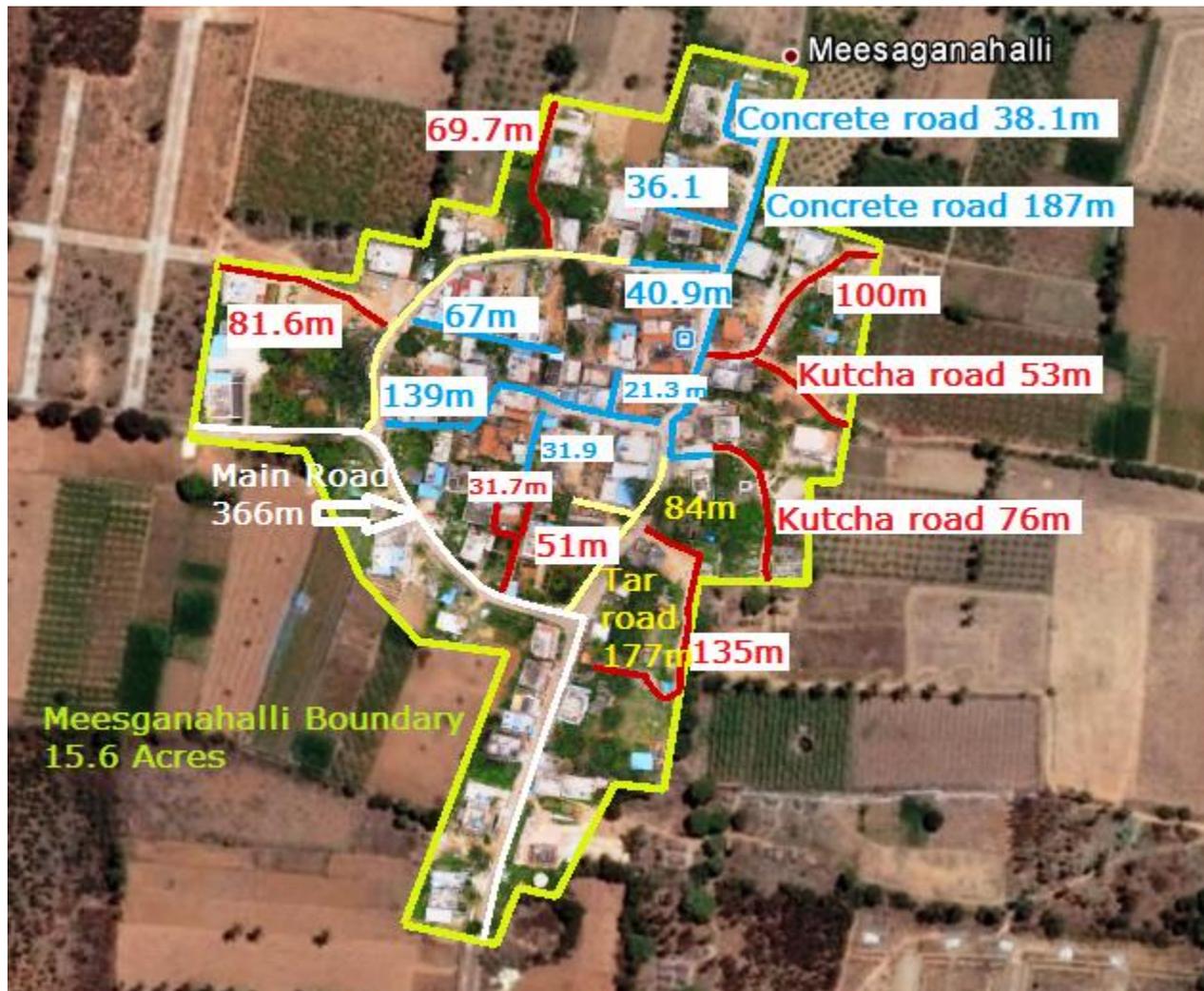
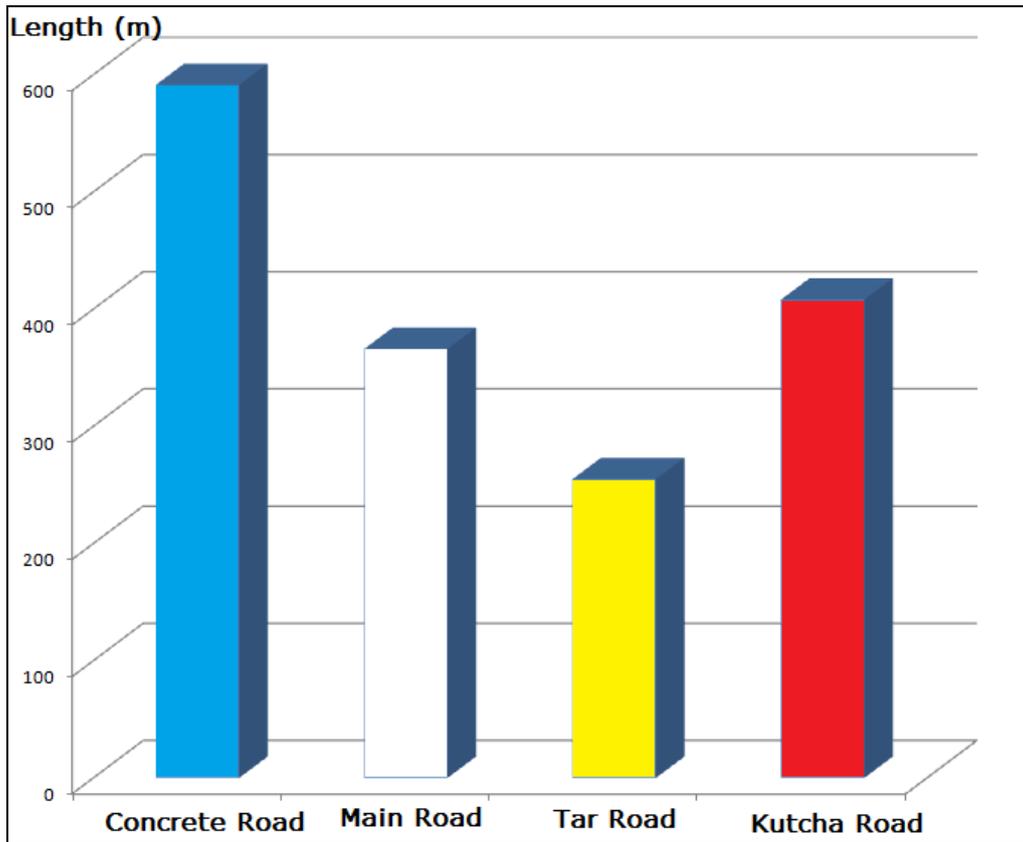


Figure 37 - Meesaganahalli Measurements

Parameter	Calculation	Measurement
Boundary area		15.6 acres
Length of concrete road	$38.9+187+139+40.9+36.1+21.3+67+31.9+29.2$	591.3m
Length of Main Road		366m
Length of Tar road	$171+84$	255m
Length of Kutcha road	$51+31.7+100+53+75.6+81.6+69.7+135$	408.1m



About Huviair

Huviair Technologies is an Unmanned Aerial Vehicles services company based in Bengaluru. We have expertise in doing aerial surveys and capturing aerial videos/images to produce quality outputs as required by our clients. Our services are used by clients from various sectors like real estate developers, corporates, renewable energy developers, mining/quarrying industries, oil and gas sector, NGOs, farmers, planters, Government local bodies, public sector units etc.

HUVIAiR believes in delivering solutions to customer tailored to their needs, with a clear focus on quick turnaround time and providing unmatched value for money. Its founders have a mix of experience in Photogrammetry, Computer Vision, Surveying, Computer Technology, Manufacturing and Renewable Energy.