



M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL

UMC
URBAN MANAGEMENT CENTRE

Sanitation Mapping

Sambalpur

Volume - V (Ward –27, 29, 30, 31, 32, 33, 34 & 35)

2019-20

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Data from this Slum atlas can be used and quoted with due acknowledgment to the Urban Management Centre and the MISAAL program.

All photographs by UMC



The Urban Management Centre (UMC) is a not-for-profit organization, that works towards professionalizing urban management in India and worldwide. UMC provides technical assistance and support to city governments and facilitates change through peer-to-peer learning processes. It enhances the capacity of city governments by providing expertise and ready access to innovations on good governance implemented in India and abroad. UMC extensively works in the areas of urban water and sanitation, heritage management, planning, urban health, municipal finance, urban management, urban transportation and institutional restructuring. UMC is a legacy organization of International City/County Management Association (ICMA) and hence is also known as ICMA-South Asia since 1997. For more information, visit our website:

www.umcasia.org



Launched in June 2018, 'Moving India towards Sanitation for All' (MISAAL) aims to achieve Open Defecation Free (ODF) and its sustenance in four cities; Ahmedabad, Porbandar, Sambalpur and Jodhpur. The Program is funded by USAID. The program, focuses on developing mechanisms, tools, systems and capacities for authorities to sustain ODF, ODF+ status; building capacities of community through engagement and behaviour change by MISAAL sanitation committees.



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Acknowledgment

This atlas is the result of a successful collaborative effort between the Urban Management Centre (UMC), Sambalpur Municipal Corporation and Centre for Advocacy and Research (CFAR) to document and represent data from various slums in Sambalpur. Through it we have captured the thirteen indicators of demography and social setting, along with the core WASH indicators of slums. The maps within this atlas will be helpful for national & state government officials, sector professionals and NGOs to identify and analyse last mile gaps in service delivery in order to plan improvements.

The maps were created by the UMC team by collecting data through household surveys in 93 slums in Sambalpur from July to October 2019. The atlas provides details related to water, sanitation and hygiene at the household level, the study of which will enable decision making for investment, planning, management and improving the quality of services in the mapped neighborhoods.

The spatial data has been displayed over ESRI's satellite image on Arc GIS software. The size, shape and placement of polygons is for representational purposes only, and has not been verified by any ground measurement. All the data collected and represented here is based on the verbal responses of slum-dwellers. We also have a chapter on how to read Slum atlas and maps. This is help the reader for easy understanding of the same. In case you require any additional information, you can get in touch with us at info@umcasia.org.

We sincerely thank our respondents, community members, the CFAR team, and officials from the Sambalpur Municipal Corporation for sharing information about the WASH indicators with us. We would also like to thank our team, Anurag Anthony, Jay Shah, Krunal Parmar, Meghna Malhotra, Muzakkir Bheda, Nayan Deshmukh, Nikita Popat, Swati Mishra, Ukti Naik, and Zia-ur-Rehman for helping us in collating all the information comprehensively to make this atlas.

Manvita Baradi

Director, Urban Management Centre

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Background

Every year, millions of people die from diseases associated with inadequate hygiene and sanitation. Besides its health consequences, sanitation has environmental, economic and social implications, especially in the case of vulnerable groups like women, young girls and disabled people.

In India, for many years after independence, the issue of urban sanitation – traditionally subsumed under water supply projects – was not given sufficient policy attention and received a minor share of resources. Before the 2000s, the initiatives were majorly piece-meal interventions that could not fully address the complexity of the problems of informal settlements in urban areas. With the launch of Swachh Bharat Mission (SBM), its linkage to Atal Mission for Rejuvenation and Urban Transformation (AMRUT) and Smart City, focused on the provision of household, community and public toilet facilities. In addition to that improvements in solid waste management, smart management of water supply and sewerage systems and using advanced information technology (IT) tools were used to enhance data led decision making.

In the present context, when the population growth of towns/ cities is increasing manifolds and the settlements are growing haphazardly the process of city sanitation planning becomes very critical. The local authority requires updated information on available sanitation systems in order to assess the demand – supply gap which becomes the base for future planning of sanitation facilities up to the last mile.

UMC has developed this ‘Slum Atlas’ with an objective to provide a comprehensive spatial representation to decision makers.

Some of the indicators includes.

1. House ownership
2. Number of floors in the building
3. Household size (no. of persons in each household)
4. Elderly citizen (above 65 years of age)
5. Household with PWD (Person with Disability)
6. Household part of SHG
7. Source of water in the household
8. Access to toilet
9. IHHL functionality (Individual Household Latrine)
10. IHHL Connectivity
11. Grey Water disposal
12. Solid waste disposal

These maps are being used by UMC to initiate community led participatory settlements improvement plan preparation by the MISAAL settlement committees. These maps are shaping up the MSC’s and community’s ideas for clinic improvements in their settlements whole at the same time enabling civic authorities to improve services.



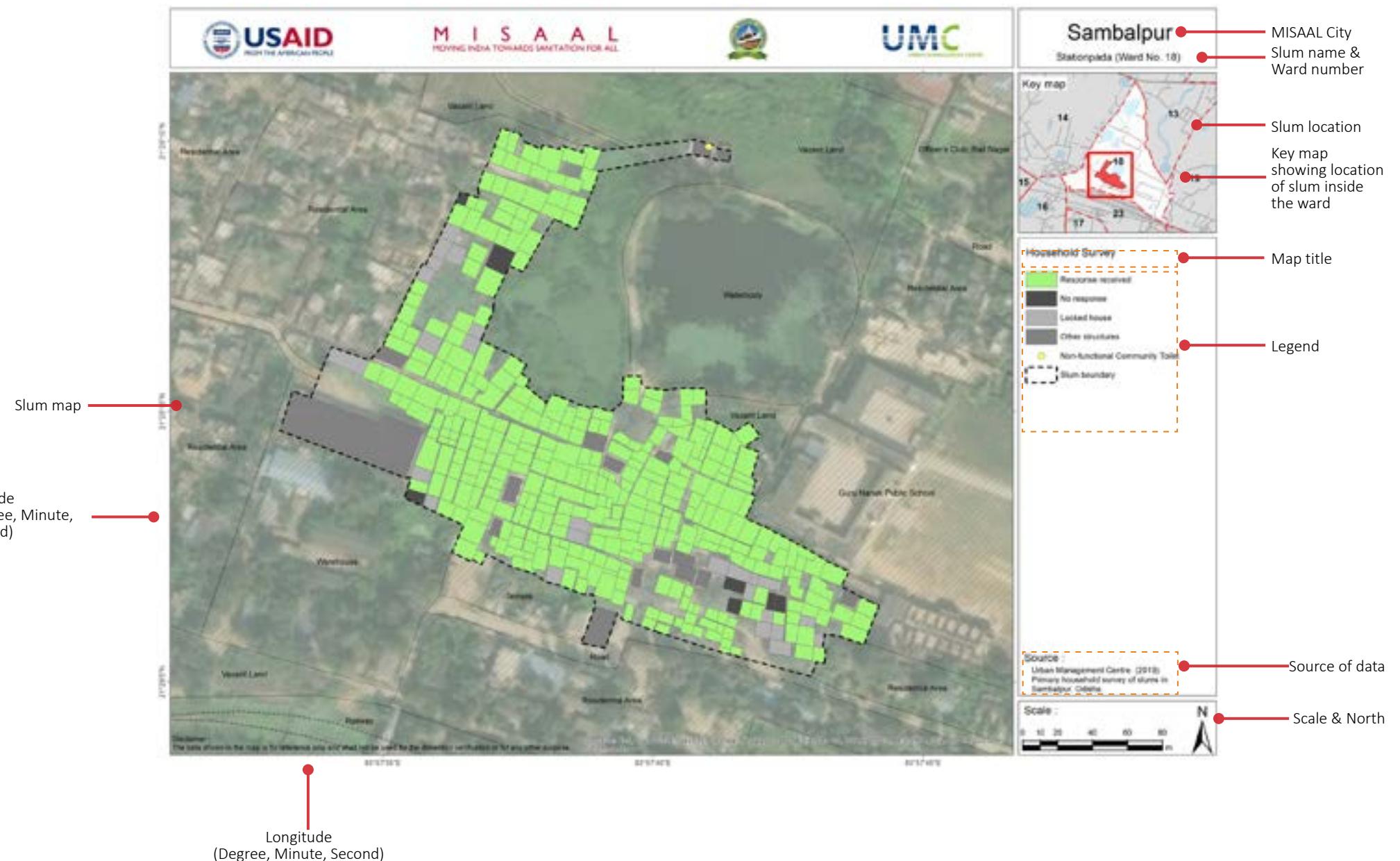
Reading this Slum atlas

This atlas presents data on 12 critical parameters related to water, sewerage & sanitation, solid waste management and demographics for a total of 93 MISAAL slums of Sambalpur.

These thematic maps were prepared to represent data collected during field survey 2019-20. The size and shape of the households (HHs) drafted/represented here is only a schematic representation of the HH's property.

- The legend is on the right side of the maps helps in reading maps and the same symbology presented here followed across all slums. The legend indicates the category wise representation of the collected data.
- On the right-hand side of the map, we can find the name of the city, slum name and ward number. Below this, a keymap shows the location of the slum in the ward. The map title, legend, source of information and scale of the map can be found below the keymap.
- The dotted line on the map represents the slum boundary and every block within the boundary represents a household and other structures.
- In the sample map provided on the next page, the legend represents access to toilets. The green-colored households have access to IHHL, yellow-colored have access to public/community toilet and the red households do not have access to toilet.
- The grey polygons on the map include households that refused to respond to our enumerators, house locked, were inhabited and were used for non-residential purposes.
- DMS (Degree-Minute-Second) markings have been provided on the map to aid field navigation during visits.

How to read maps



MISAAL Cities

What is MISAAL

UMC is implementing the “Moving India towards Sanitation for All” (MISAAL) program in cities of Ahmedabad, Jodhpur, Porbandar, and Sambalpur. Misaal is a Persian word and means ‘setting a precedence’. The program aims to establish a precedence for scalable and replicable sanitation solutions for Indian cities by providing support to city and state governments till June 2021.

MISAAL intervention is 4-pronged – 1. Sustain ODF; 2. Achieve ODF+; 3. BCC and IEC Dissemination; and 4. National Scale-up. It aims to showcase replicable and scalable models and tools.

The intervention would help city governments to use dynamic knowledge management database for making planning, operational, financial and management decisions. The learning from these 4 intervention cities will be replicated at the state and national levels through state-level teams and the city manager’s association.



About Sambalpur

Sambalpur is a Municipal Corporation in the state of Orissa, India. It is the headquarters and the largest town of Sambalpur district. Sambalpur Municipal Corporation has been notified, as per the notification no 32943/ HUD dated 15th November 2013 of Housing & Urban Development Department by a merger of old Sambalpur Municipality, old Burla NAC, old Hirahud NAC and seven Gram Panchayats(GPs) from Dhankauda block and five Gram Panchayats (GPs) from Maneswar block. The Sambalpur Municipal area of 303 sq. kms includes 33.66 sq. kms of old Sambalpur municipal area, 87.30 sqkms Old Burla NAC area and 49.02 sqkms of Hirakund area and other GPs.

Sambalpur lies on the bank of the river Mahanadi. The river flows to the west of the city and separates Burla from Sambalpur and Hirakud. The Hirakud Dam lies upstream of Sambalpur which is Asia's largest dam built across the Mahanadi river which is about 15 kilometres long. Behind the dam extends a lake, Hirakud Reservoir in the upstream. The city is also a hub to mining and hydro power generation and is a major industrial hub. The Sambalpur Municipal Corporation has a population of 3,35,761 lakhs Census 2011 with 78,803 households and 41 wards, 171 number of slums. The slum population is around 30%-35% of the total population of the city.

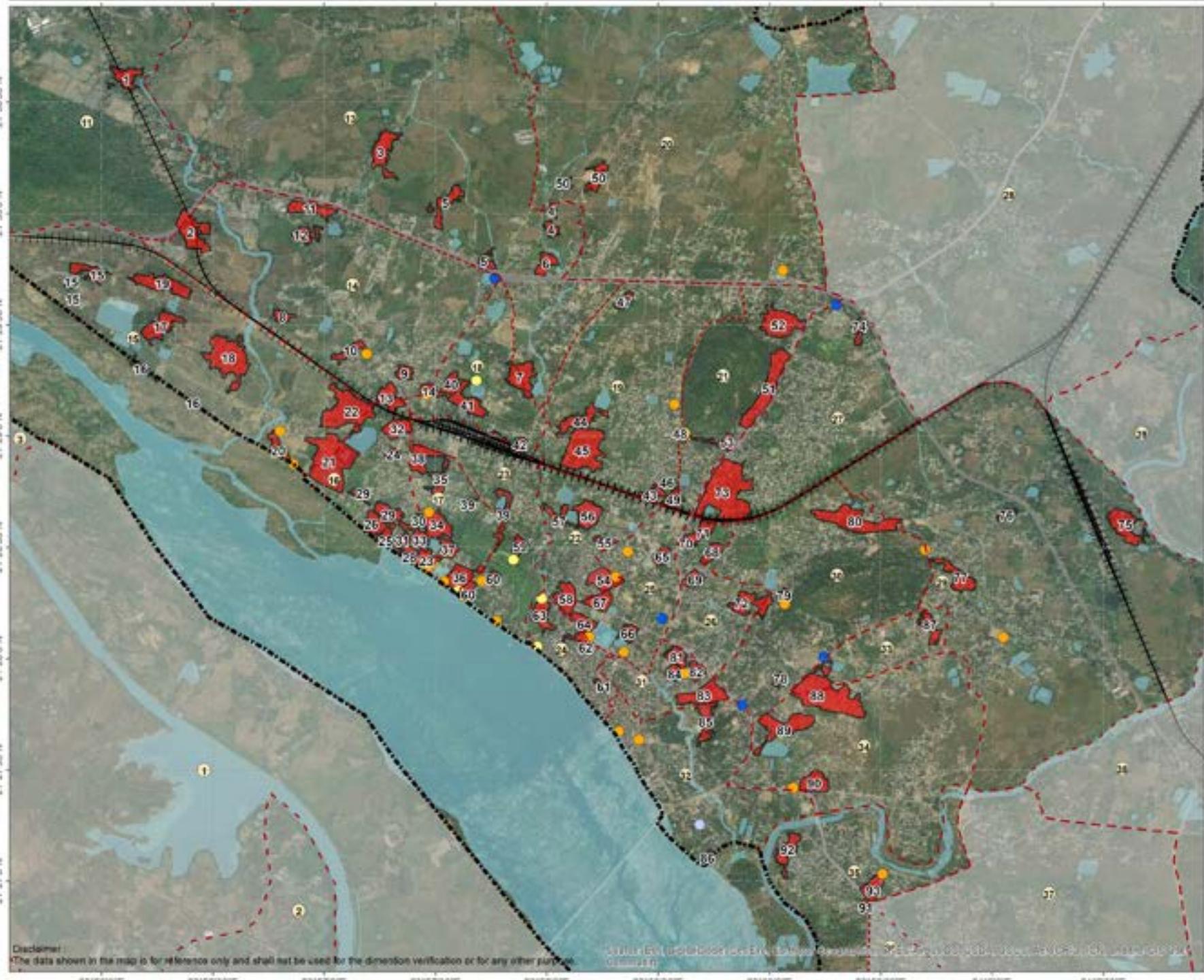
The Sambalpur Municipal Corporation (SMC) is headed by the municipal commissioner and the city administration is efficiently making efforts to improve the living condition and quality of life of people by improving urban basic services to its citizens. SMC has been able to achieve 50% piped water supply connections, 70% coverage of toilets, and 80% households covered by door to door waste collection services (Service Level Benchmark, 2018-19). To provide the citizens with a safe drinking water, the city has implemented infrastructure Under Atal Mission for Rejuvenation and Urban Transformation (AMRUT) mission and is providing safe disposal of waste-water through Fecal sludge management. The city has constructed Fecal Sludge Treatment Plant (FSTP) and is operational since 2018 and now this is being upscaled across the entire city. Sambalpur was recently declared ODF in December 2019 and is actively working on improving its public sanitation.

The city administration aspires to eliminate the last mile service delivery gaps. This slum atlas would assist the city government to identify the gaps precisely, plan improvements and implement them and provide a tool to monitor service delivery in slums on an ongoing basis.

Status at glance

MISAAL slums - Sambalpur

	Sambalpur
Total Household surveyed	13,646
Coverage of water supply connection	45% (HH)
Coverage of toilets	36 %
HHs dependent on PT/CT	14 %
HHs dependent on shared toilet	2 %
HHs with functional IHHL	96 %
HHs connected to sewer system	-
HHs connected with safe onsite sanitation system	27 %
HHs reporting backflow / choke up in sewers	-
HHs covered by door to door waste collection service	50 %


Base layers

- Non-functional Community Toilet
- Functional Community Toilet
- Non-functional Public Toilet
- Functional Public Toilet
- Slum
- National highway
- State highway
- ||||| Railway line
- Waterbody
- Ward boundary
- SMC boundary

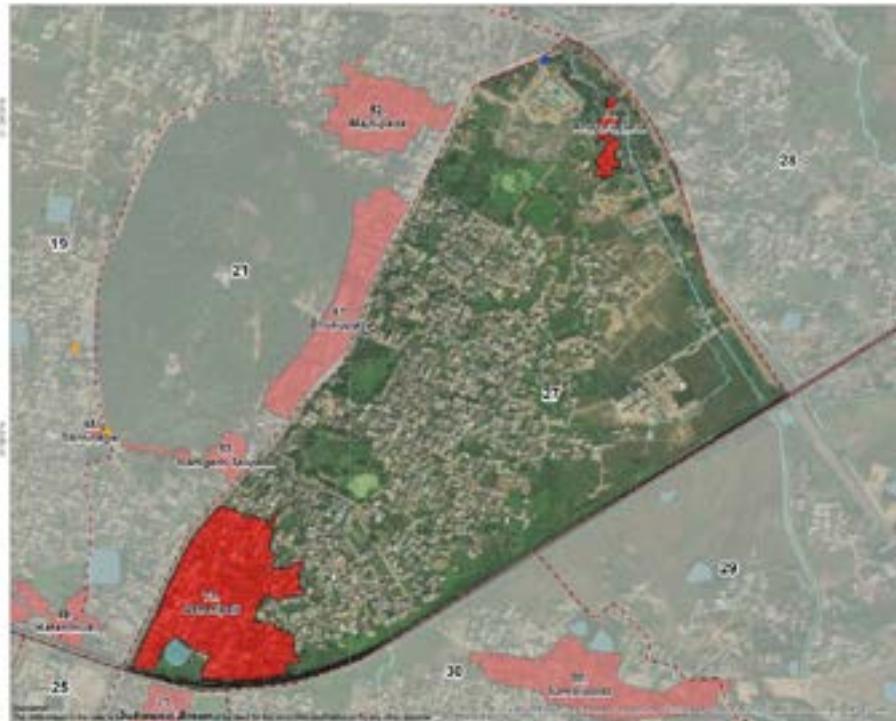
Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.



Ward - 27

Sambalpur

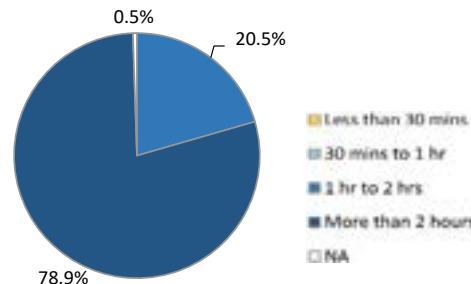
Ward name
27



1. Access to municipal water supply

	% of HHs with individual water tap connection	57%
	% of HHs satisfied with the quality of water supplied	100%

Duration of daily water supply



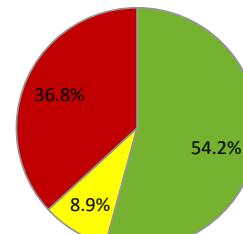
Number of slums

2

Total number of households in slums

450

2. Access to toilets



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit

% of HHs connected with safe disposal system for grey water

94%

23%

4. Solid waste management system



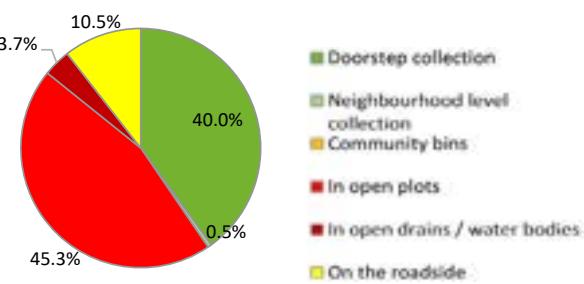
Total waste generation (kg)

245

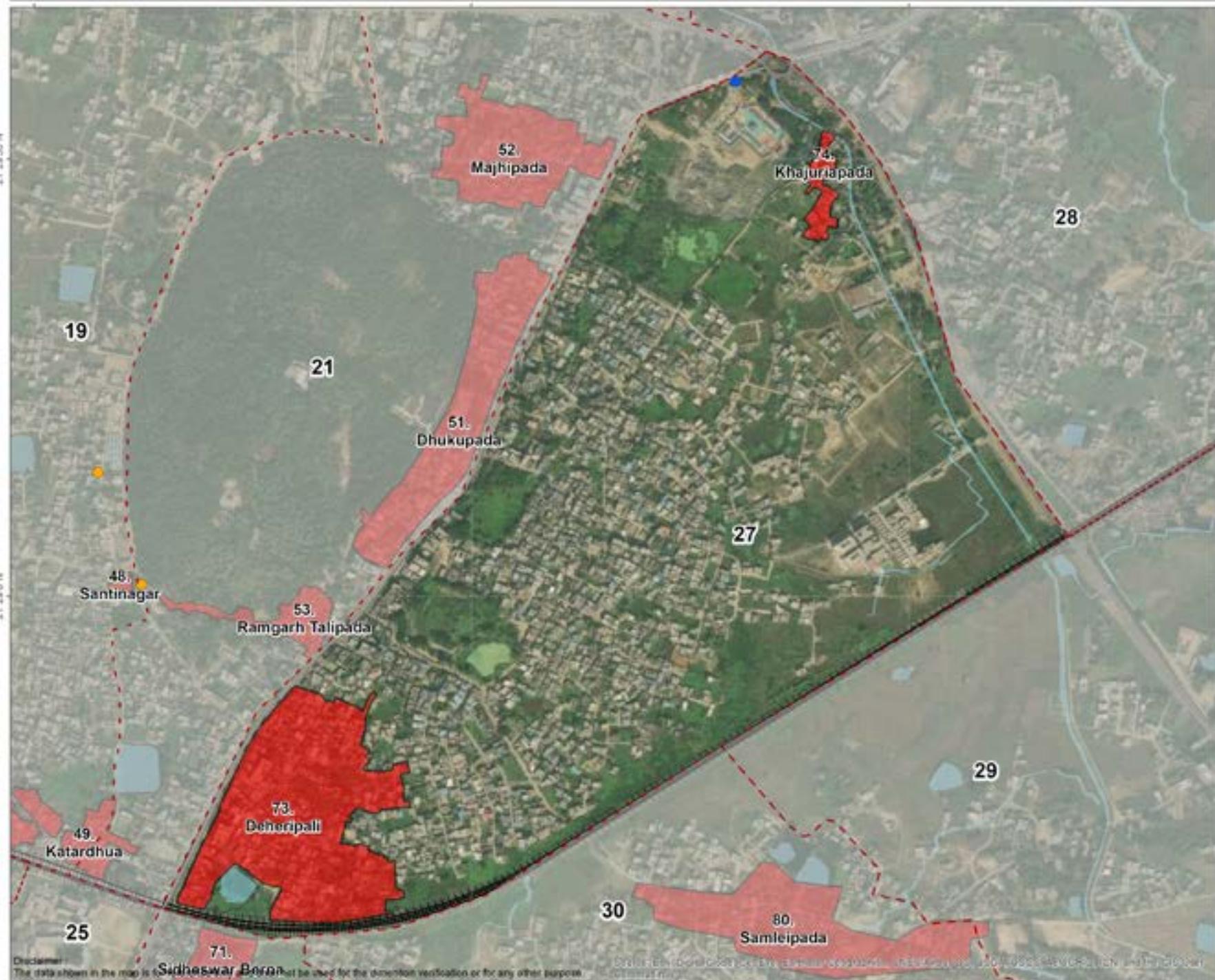
% of HHs segregating waste

12%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet


Base layers

- Functional Community Toilet
- Functional Public Toilet
- Slum
- National highway
- State highway
- ||||| Railway line
- Waterbody
- - - Ward boundary
- SMC boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
 0 100 200 400 m

Disclaimer : The data shown in the map is for reference only and cannot be used for the dimension verification or for any other purpose.



73. Deheripali

Sambalpur

Slum name
DEHERIPALI

Ward
27

Total number of households in the slum
364

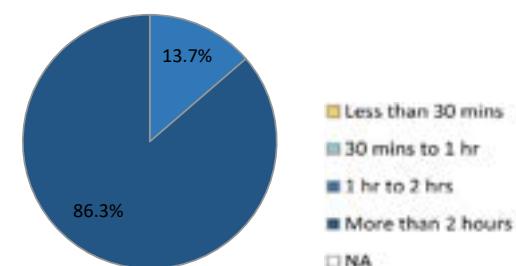
Approximate area of the slum
13.3 ha



1. Access to municipal water supply

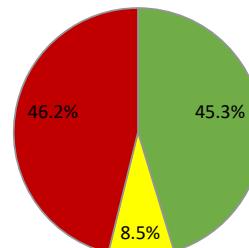
% of HHs with individual water tap connection
56%

Duration of daily water supply



% of HHs satisfied with the quality of water supplied
100%

2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit
91%

Number of HHs having IHHL
53

53

100%

Number of PT/CTs near the slum
-

-

Total number of persons dependent on PT/CTs
-

-

% of HHs connected with safe disposal system for grey water
18%

18%

4. Solid waste management system

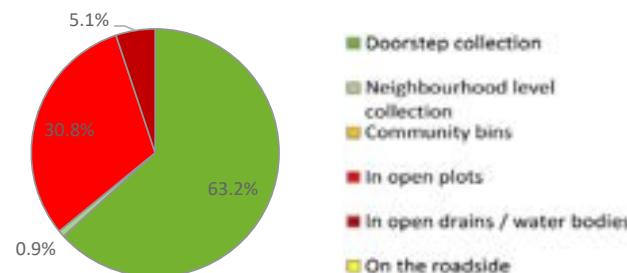


Total waste generation (kg)

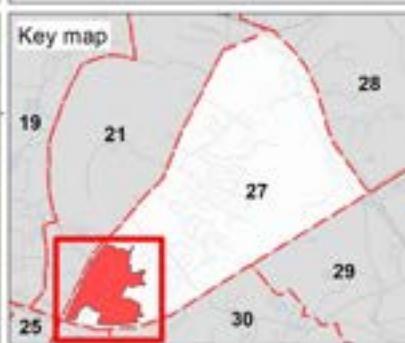
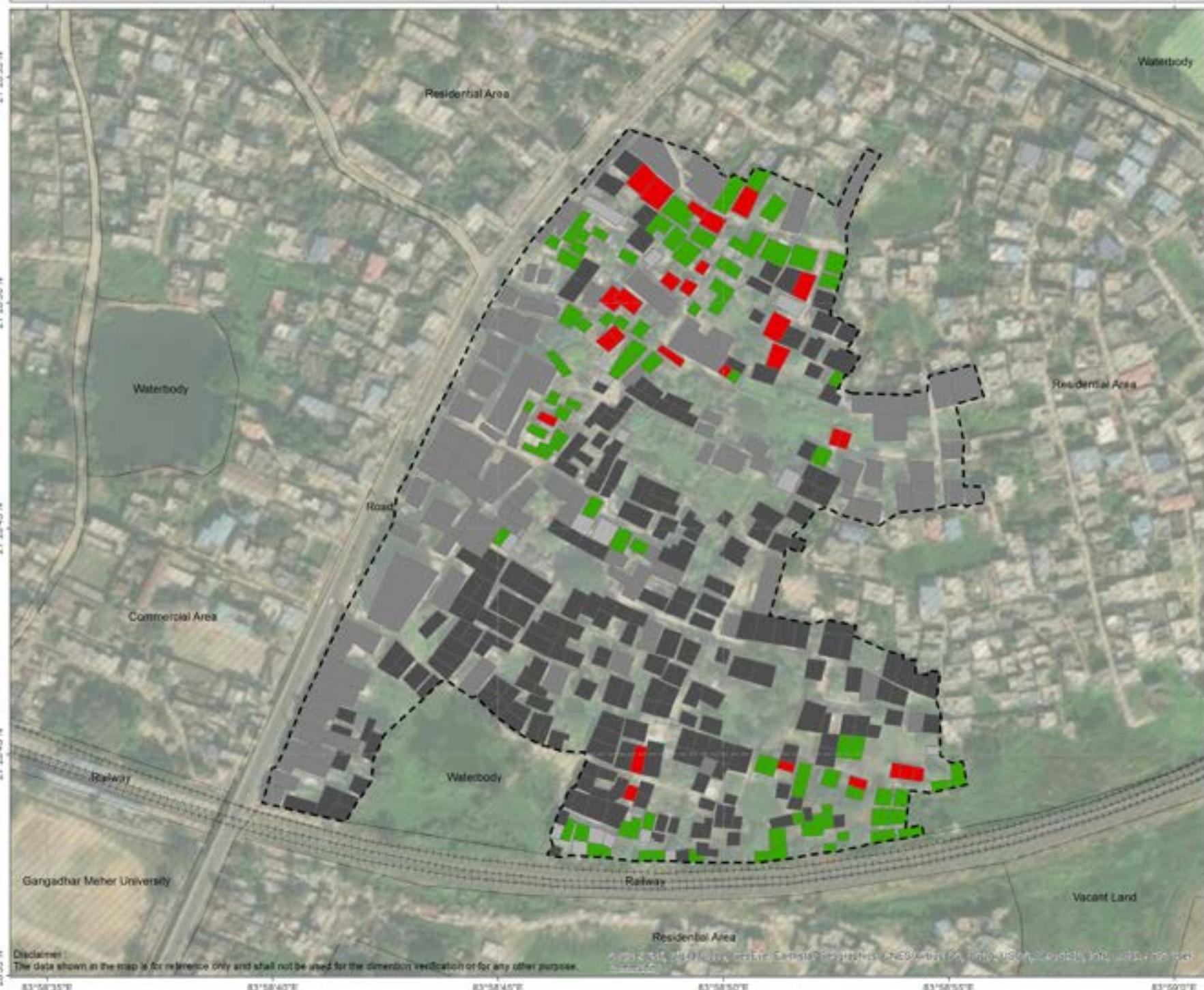
157

% of HHs segregating waste
17%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet





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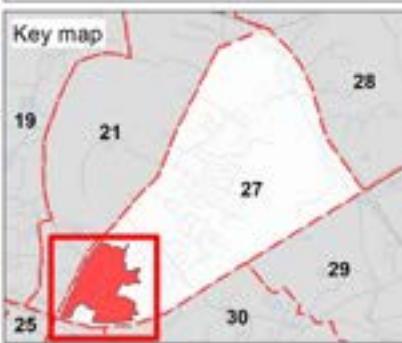
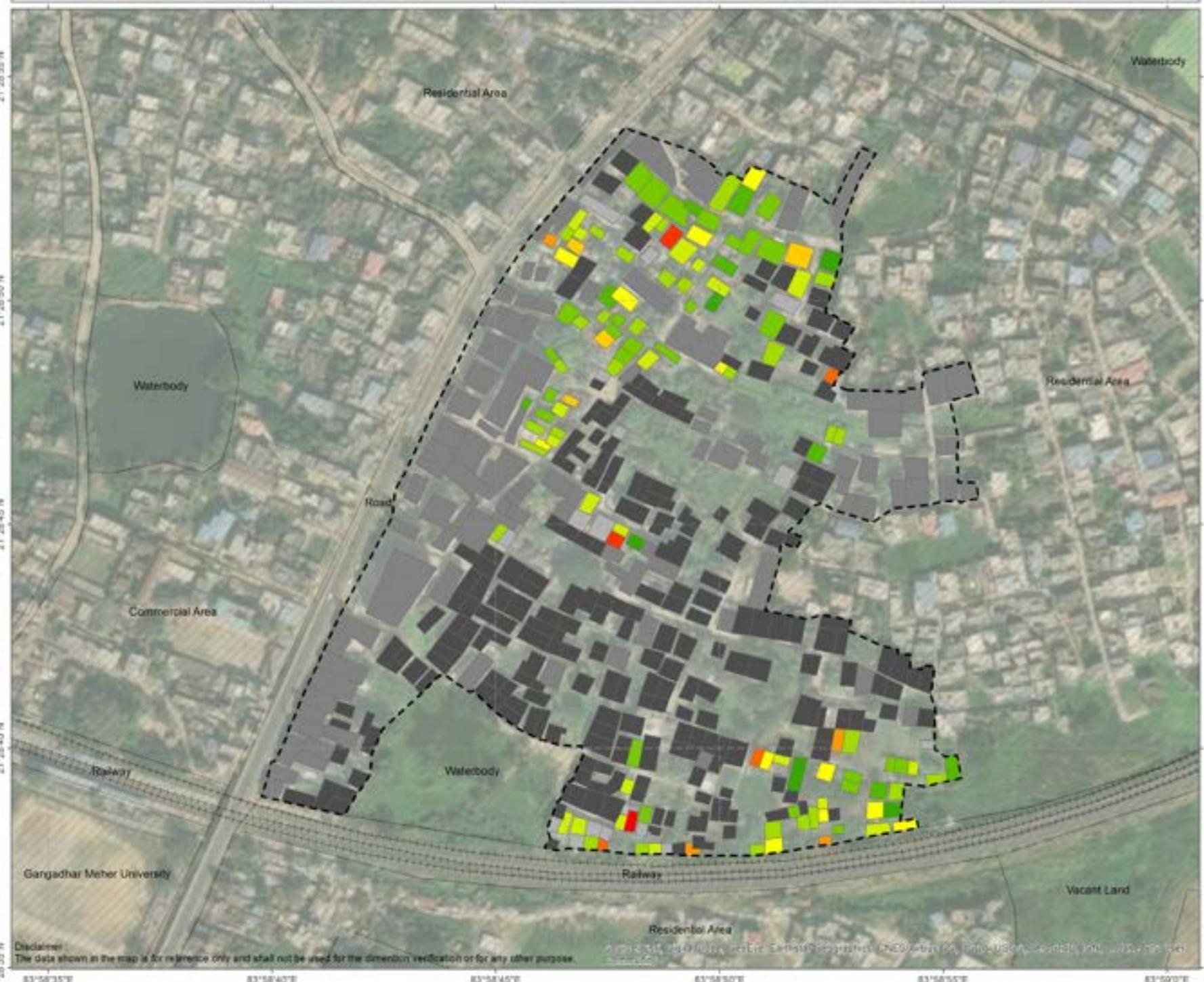


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Deheripali (Ward No. 27)

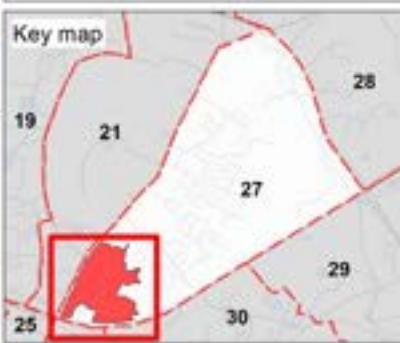
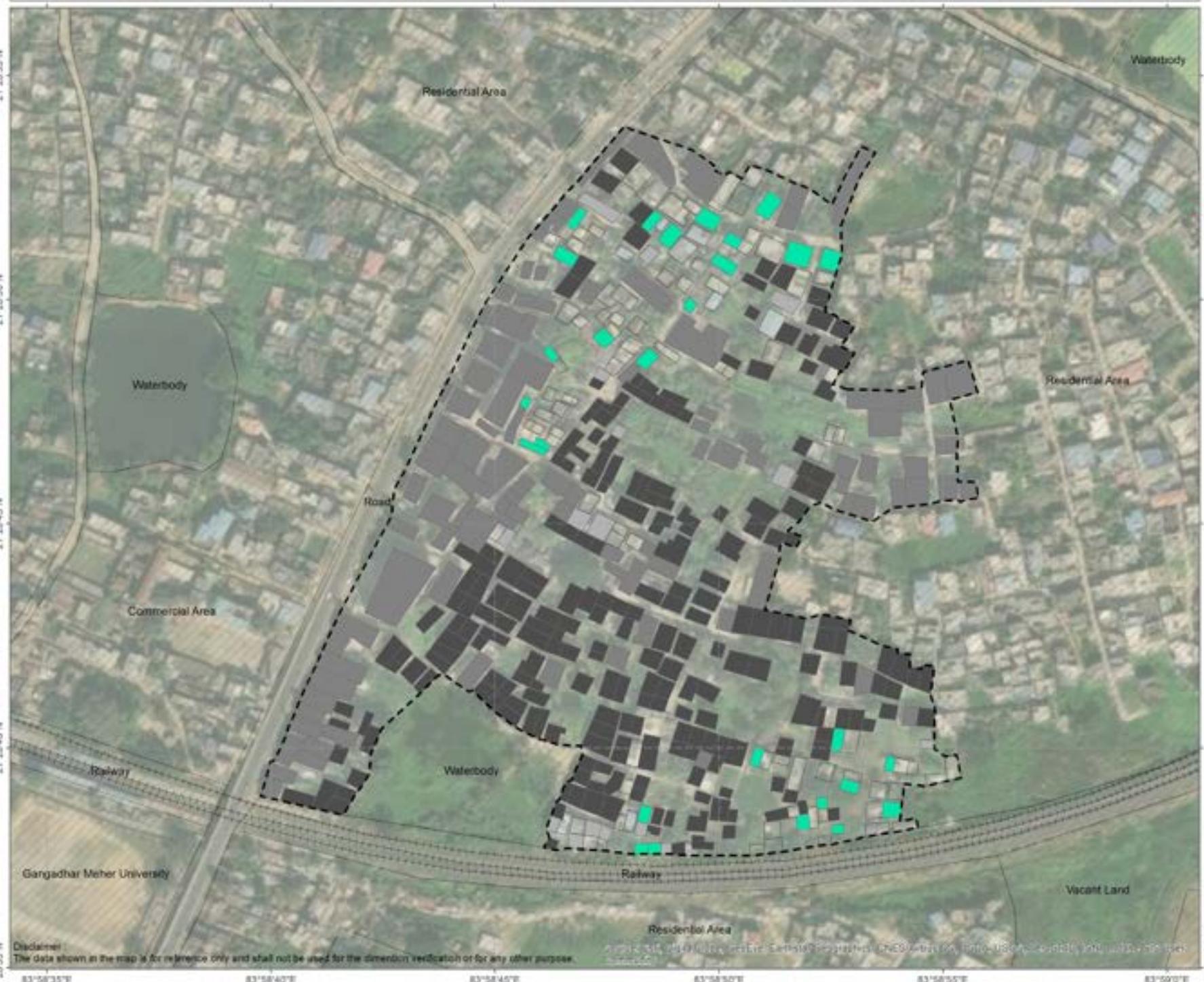




Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 80 120 m

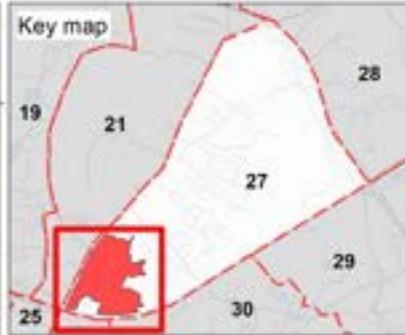
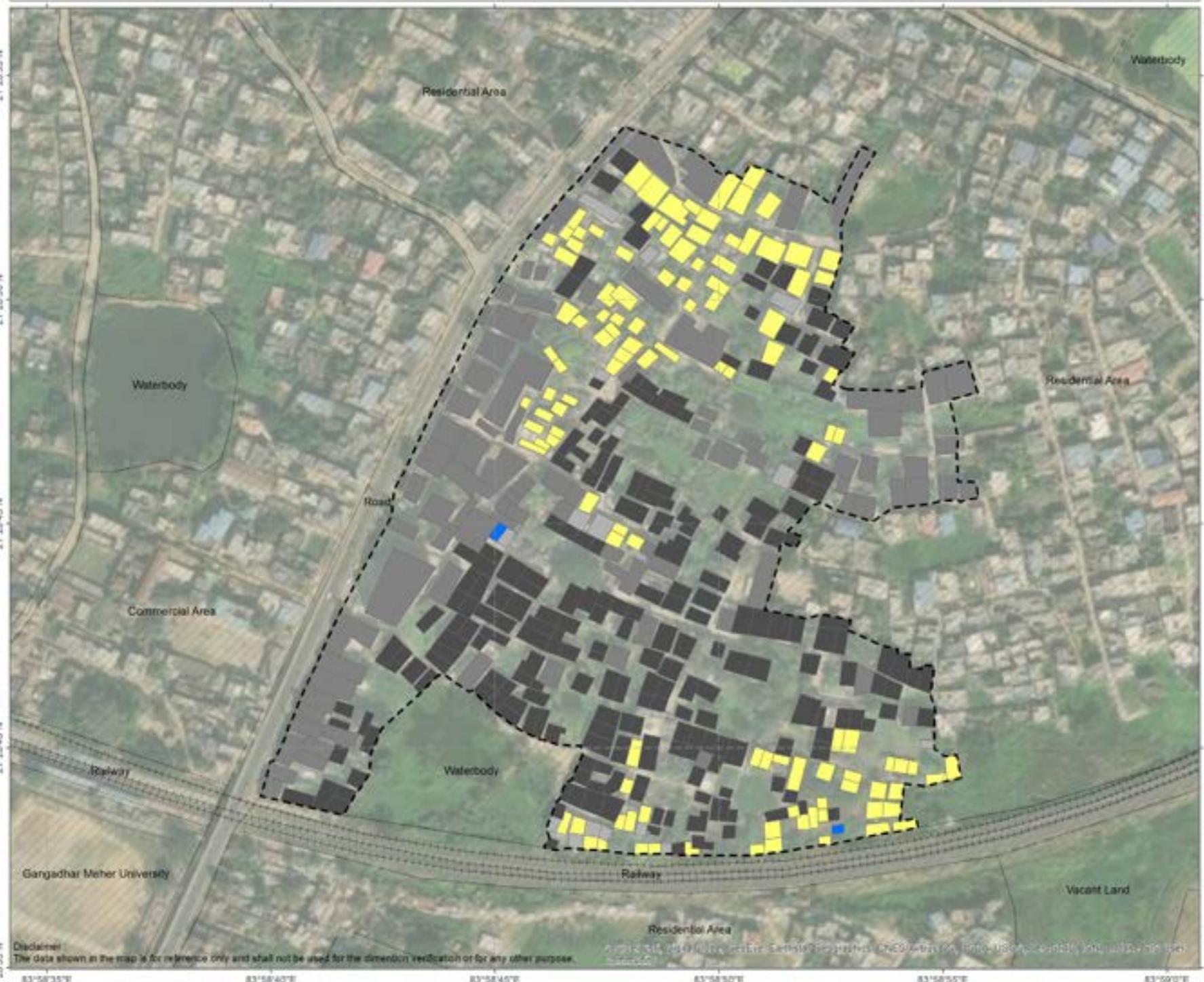




Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 60 80 100 120 m





Household with PWD*

- [Blue Box] Yes
- [Yellow Box] No
- [Dark Grey Box] No response
- [Light Grey Box] Locked house
- [Medium Grey Box] Other structures
- [Dashed Box] Slum boundary

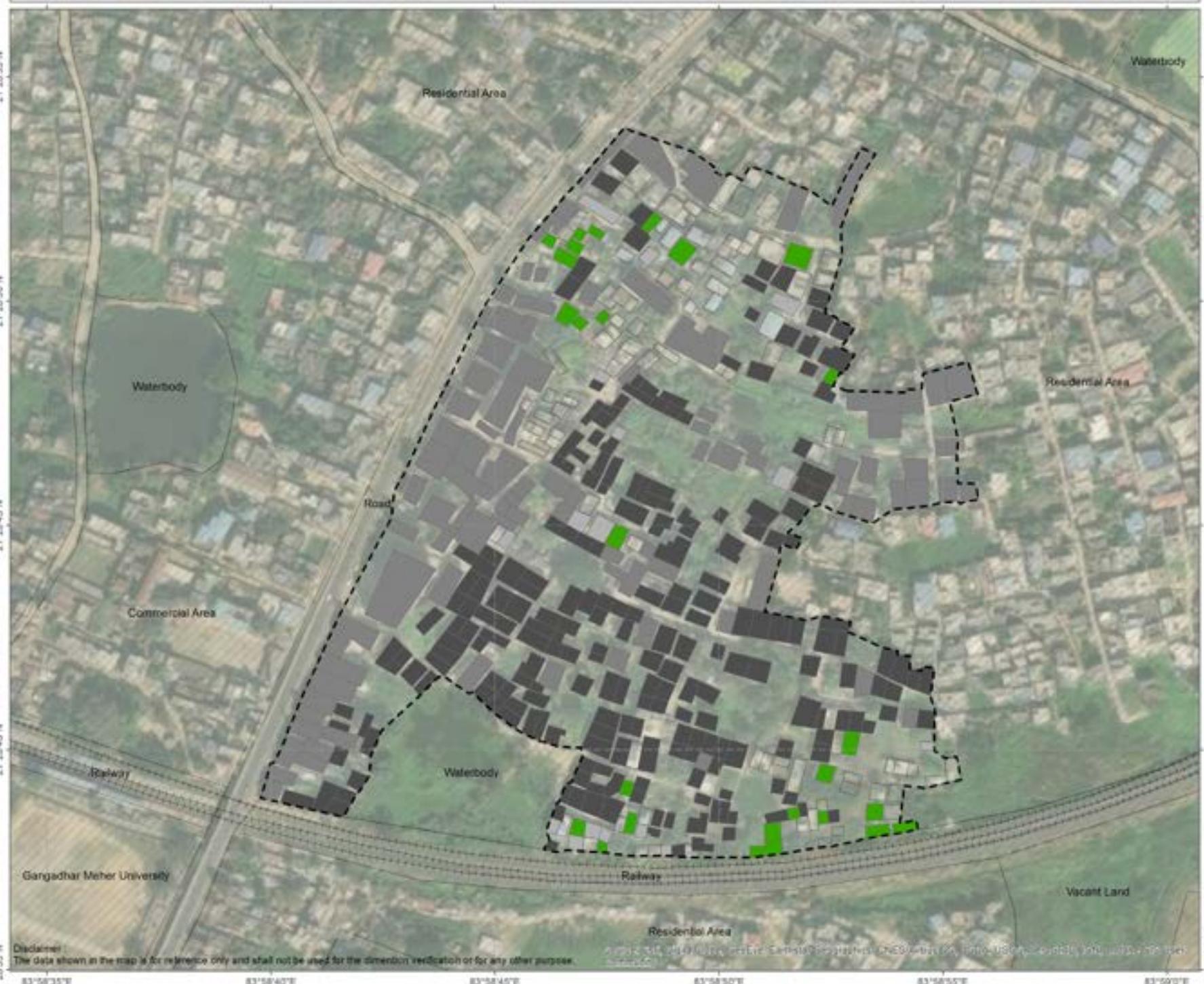
* Person with Disabilities

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 20 40 60 80 100 120
m

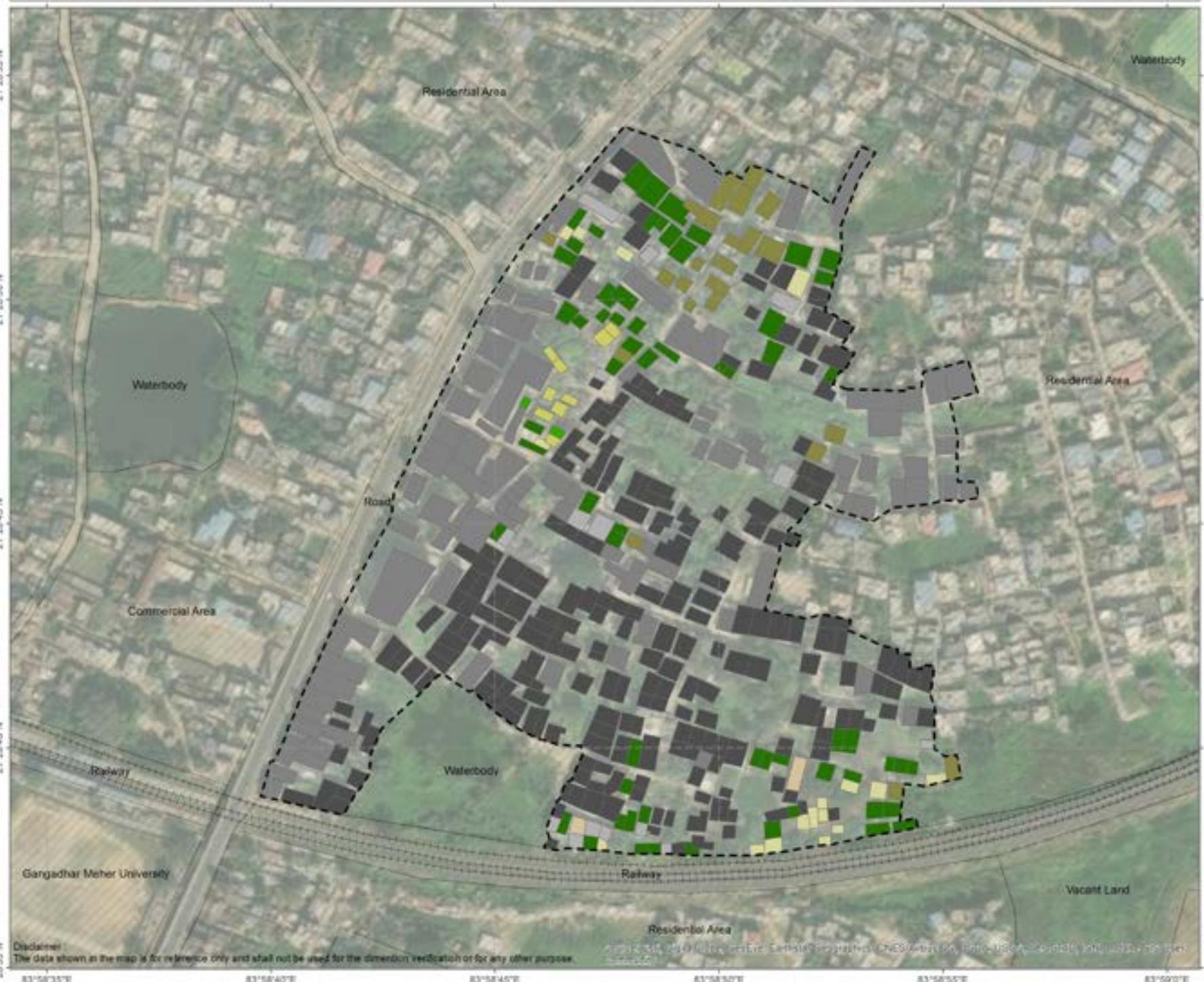




Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 80 120 m

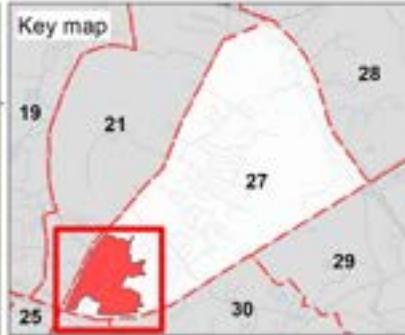
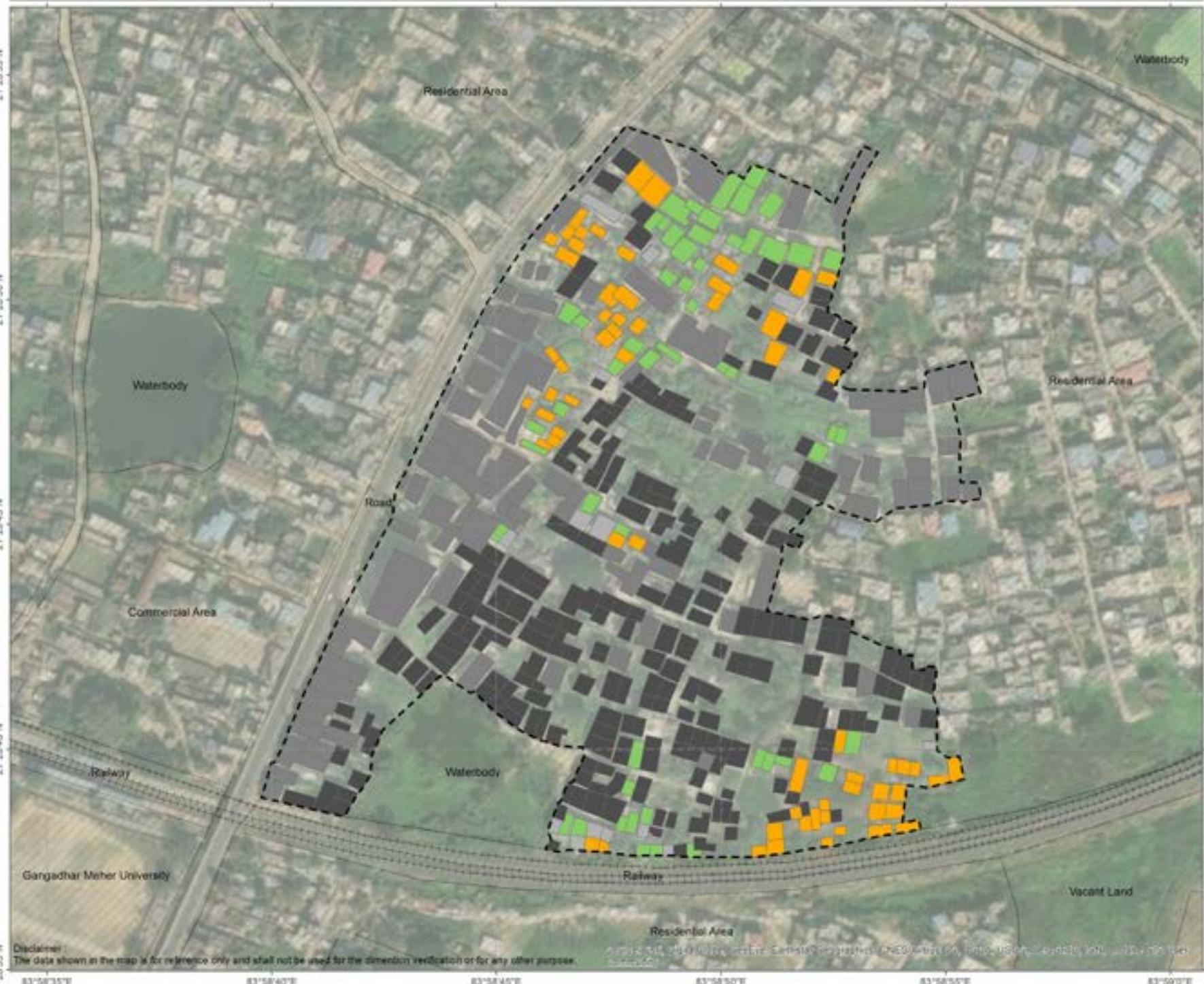




Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 80 120 m





Functionality of IHHL

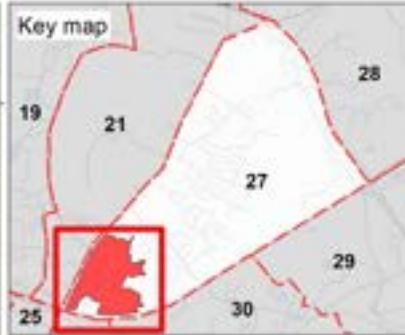
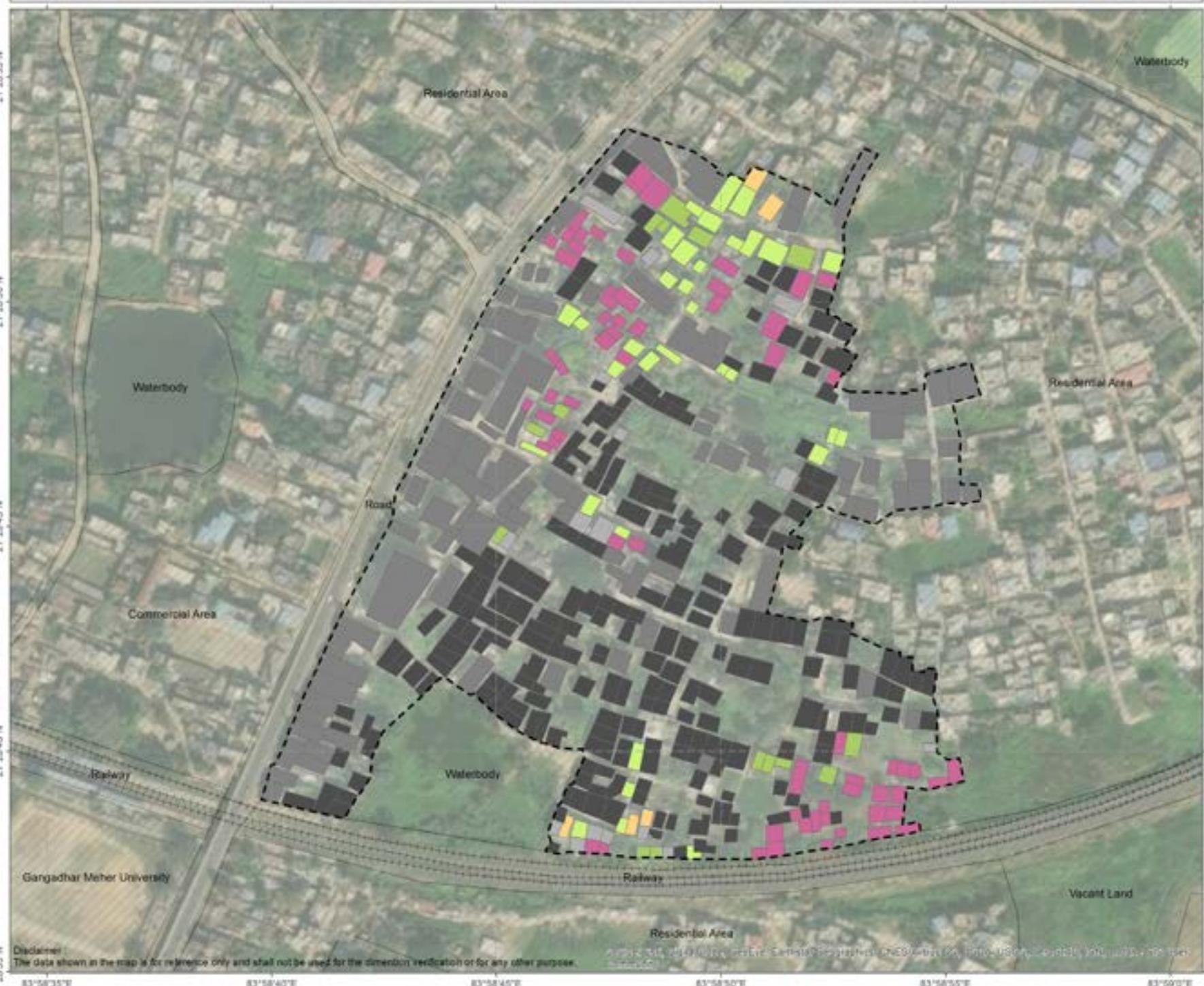
- [Green square] Yes
- [Orange square] No IHHL
- [Dark gray square] No response
- [Light gray square] Locked house
- [Medium gray square] Other structures
- [Dashed box icon] Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 60 80 100 120 m

Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.





IHHL connected to :

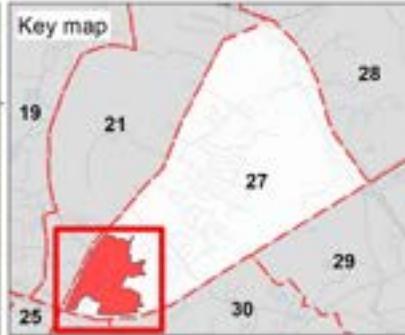
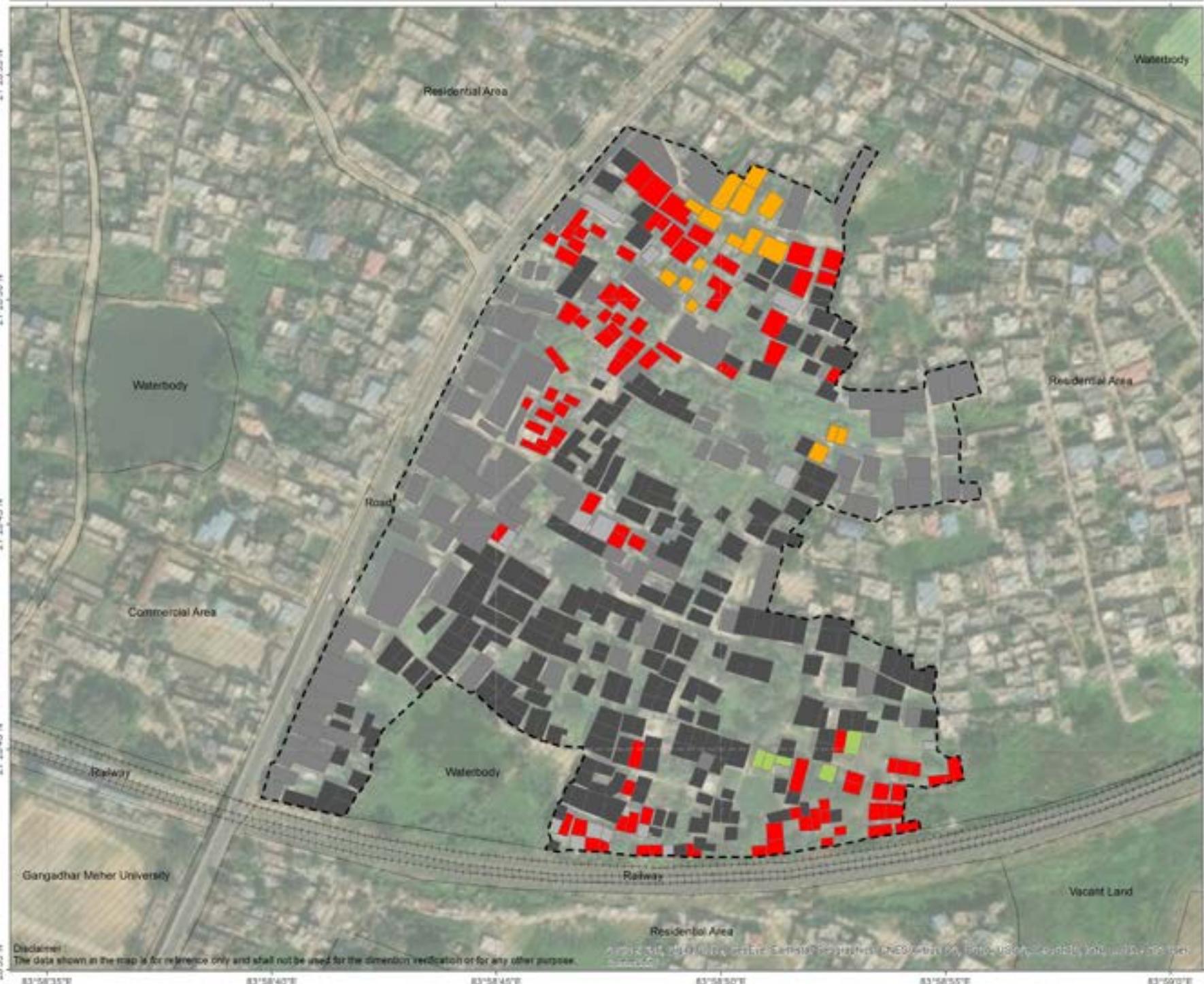
- Septic tank
- Soak pit
- Open drain
- No IHHL
- No response
- Locked house
- Other structures
- Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 60 80 100 120 m



Disclaimer :
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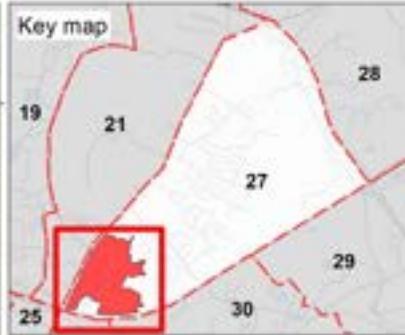
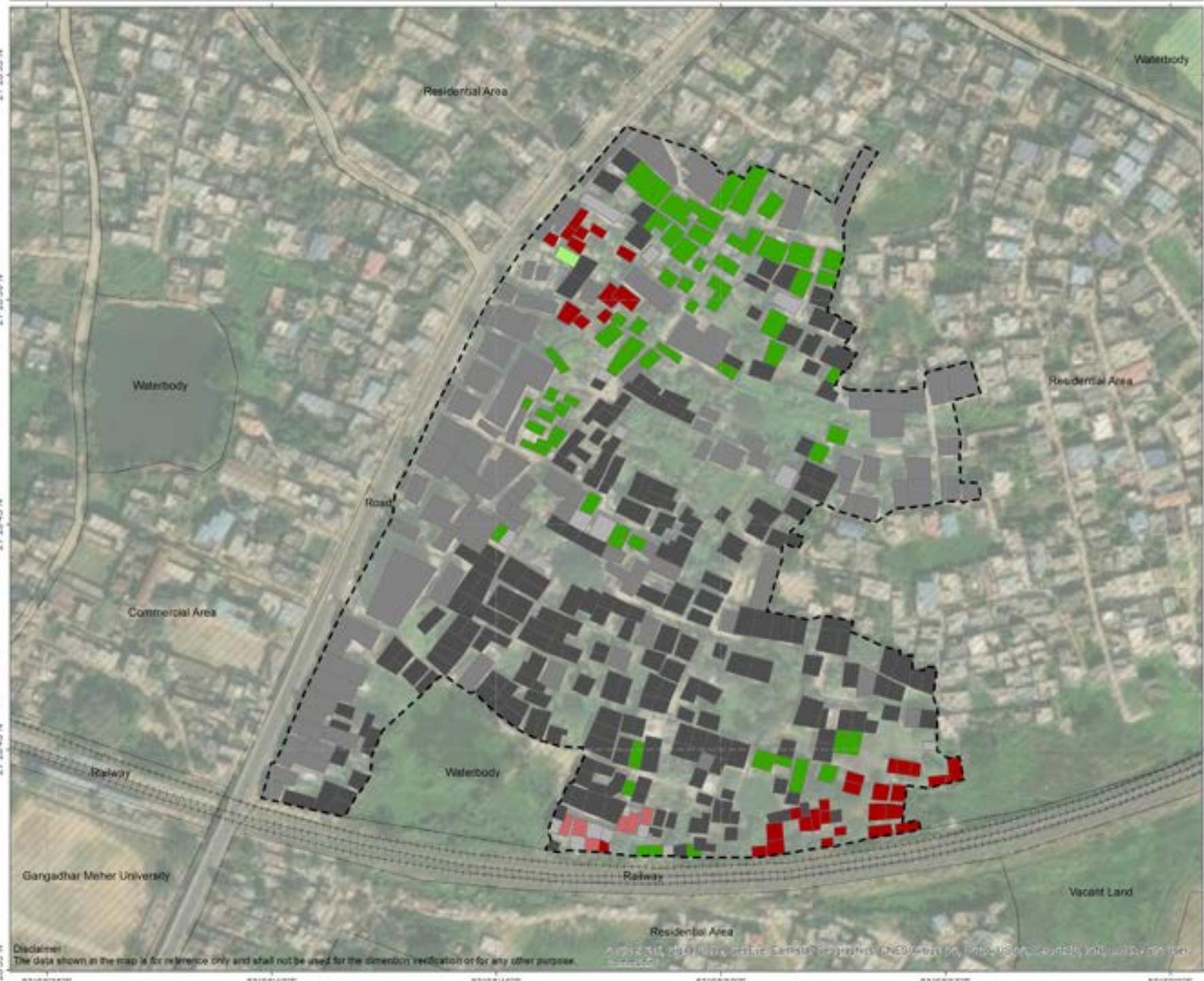
Grey water disposed to :

- [Green square] Septic tank
- [Orange square] Single pit
- [Red square] Open drain
- [Dark Grey square] No response
- [Light Grey square] Locked house
- [Medium Grey square] Other structures
- [Dashed box] Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 60 80 100 120 m





Household disposing solid waste to :

- [Green Box] D to D service
- [Light Green Box] Handover to municipal waste collector
- [Red Box] In open plot
- [Dark Red Box] In open drains/waterbody
- [Black Box] No response
- [Grey Box] Locked house
- [Dark Grey Box] Other structures
- [Dashed Box] Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 80 120 m

Disclaimer :
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74. Khajuriapada

Sambalpur

Slum name
KHAJURIAPADA

Ward
27

Total number of households in the slum
86

Approximate area of the slum
0.9 ha

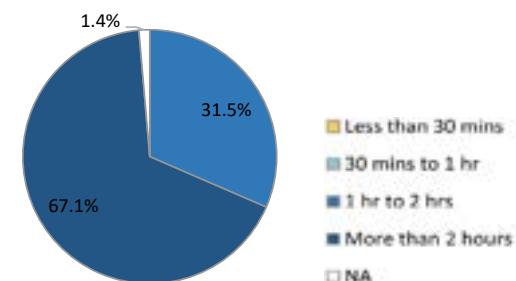


1. Access to municipal water supply

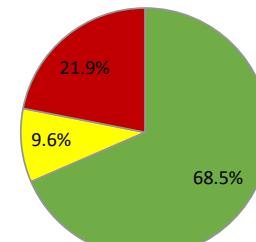
 % of HHs with individual water tap connection **59%**

% of HHs satisfied with the quality of water supplied **100%**

Duration of daily water supply



2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit

Number of HHs having IHHL **50**

% of functional IHHLs **100%**

Number of PT/CTs near the slum **1**

Total number of persons dependent on PT/CTs **-**

% of HHs connected with safe disposal system for grey water **32%**

4. Solid waste management system



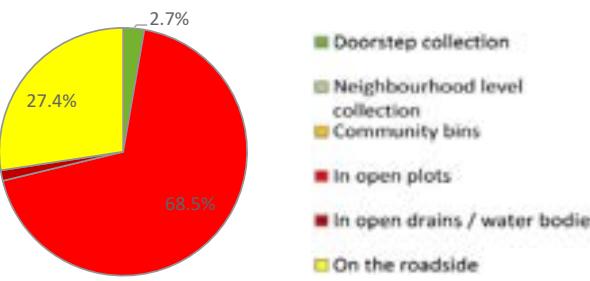
Total waste generation (kg)

88

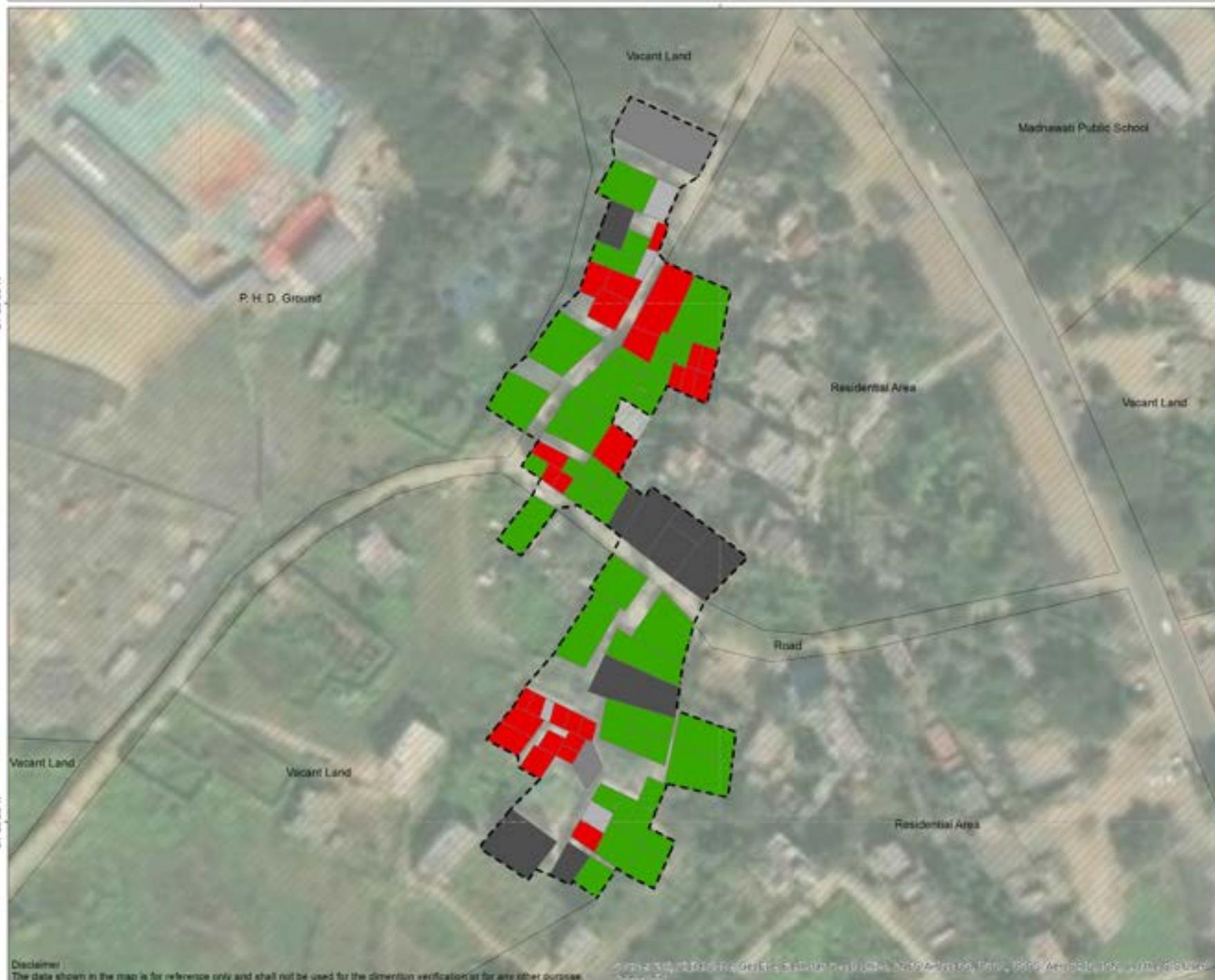
% of HHs segregating waste

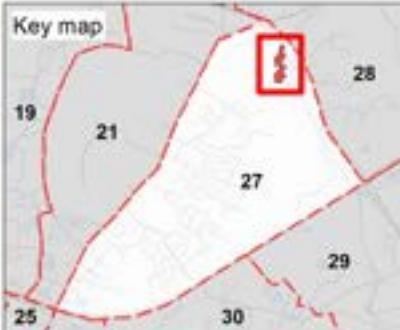
3%

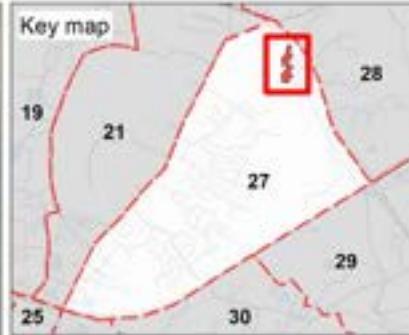
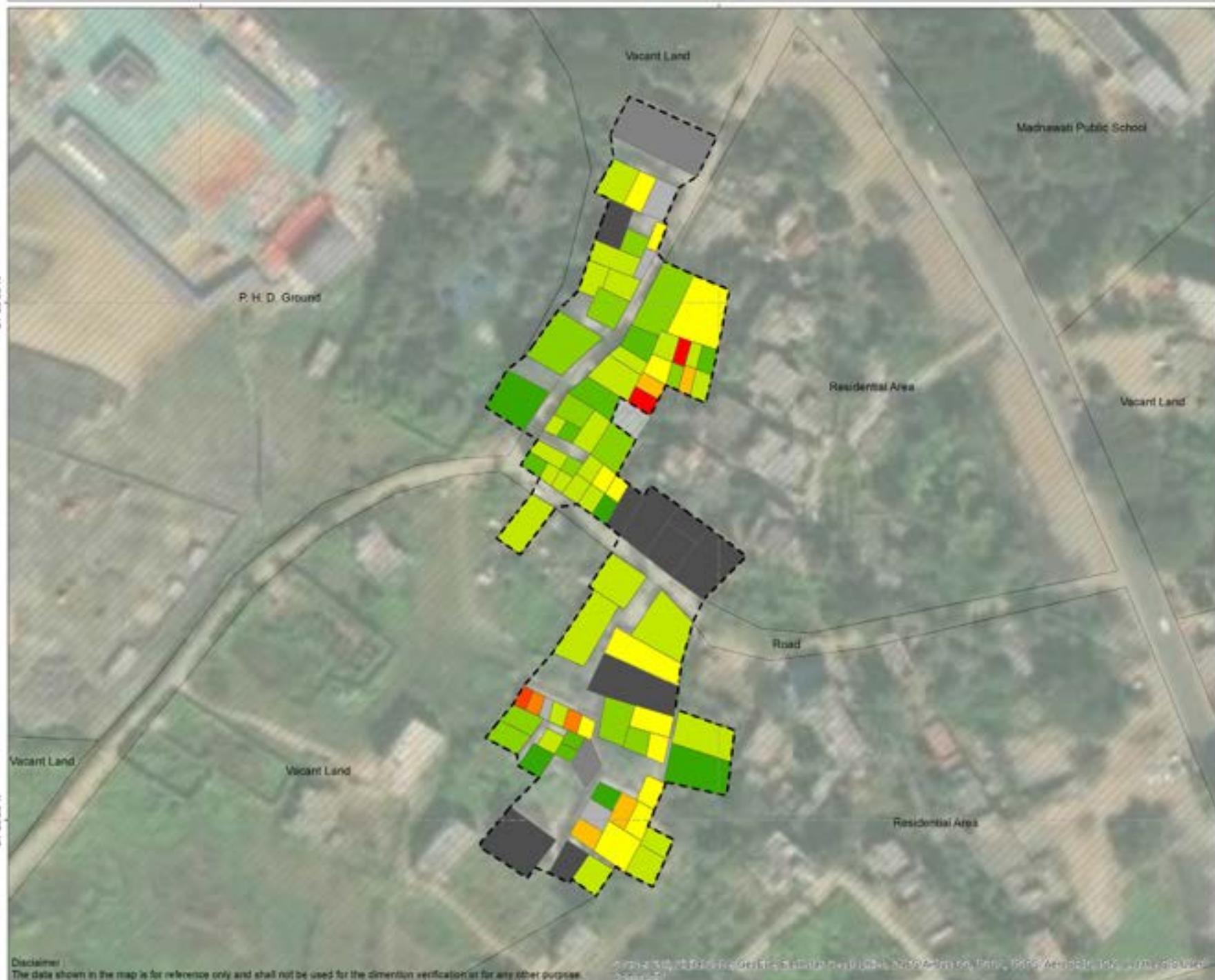
Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



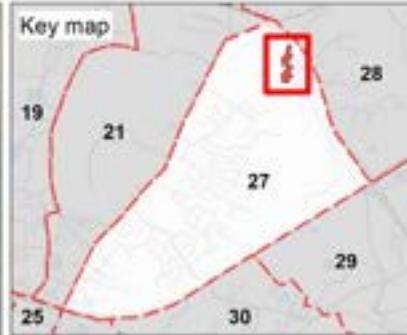
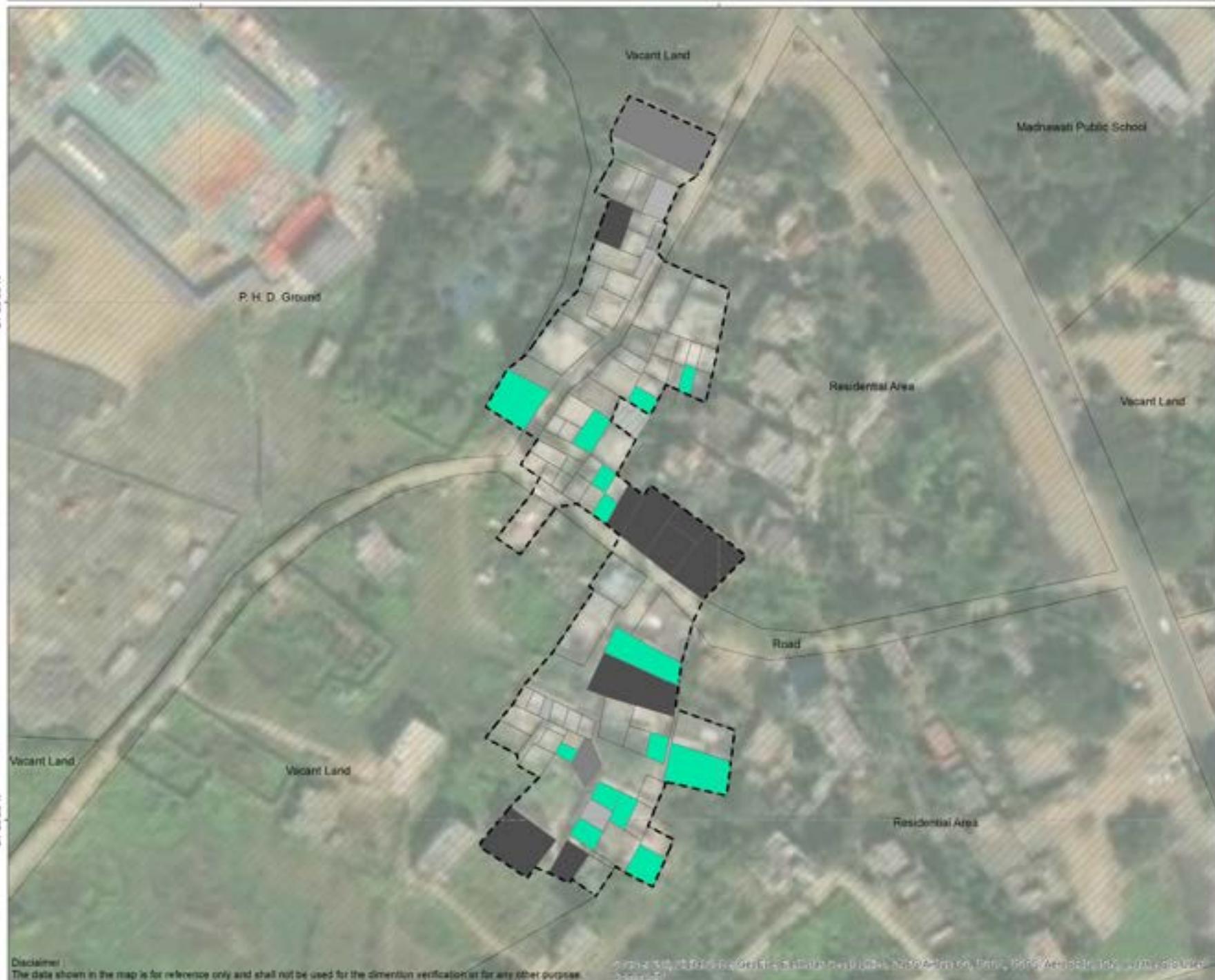



Household size

Source :

 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :

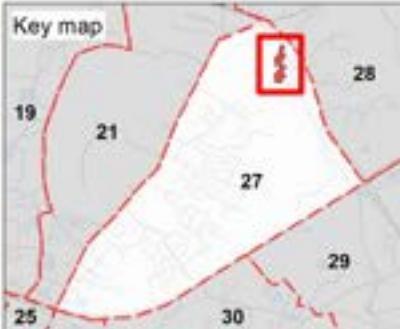
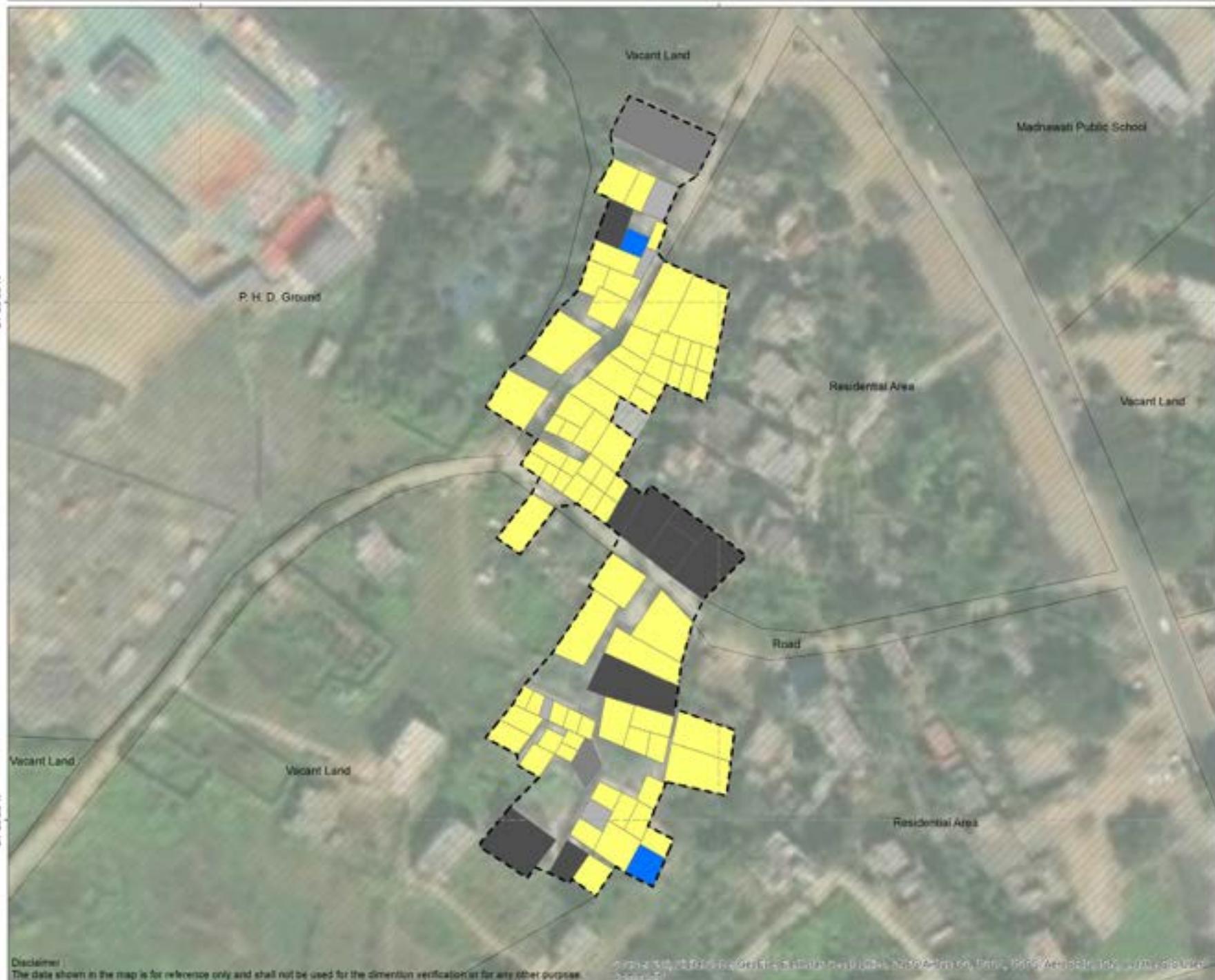


Elderly citizen

- | | |
|--|-------------------------|
| | HH have elderly citizen |
| | No response |
| | Locked house |
| | Other structures |
| | Slum boundary |

Source :

Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :

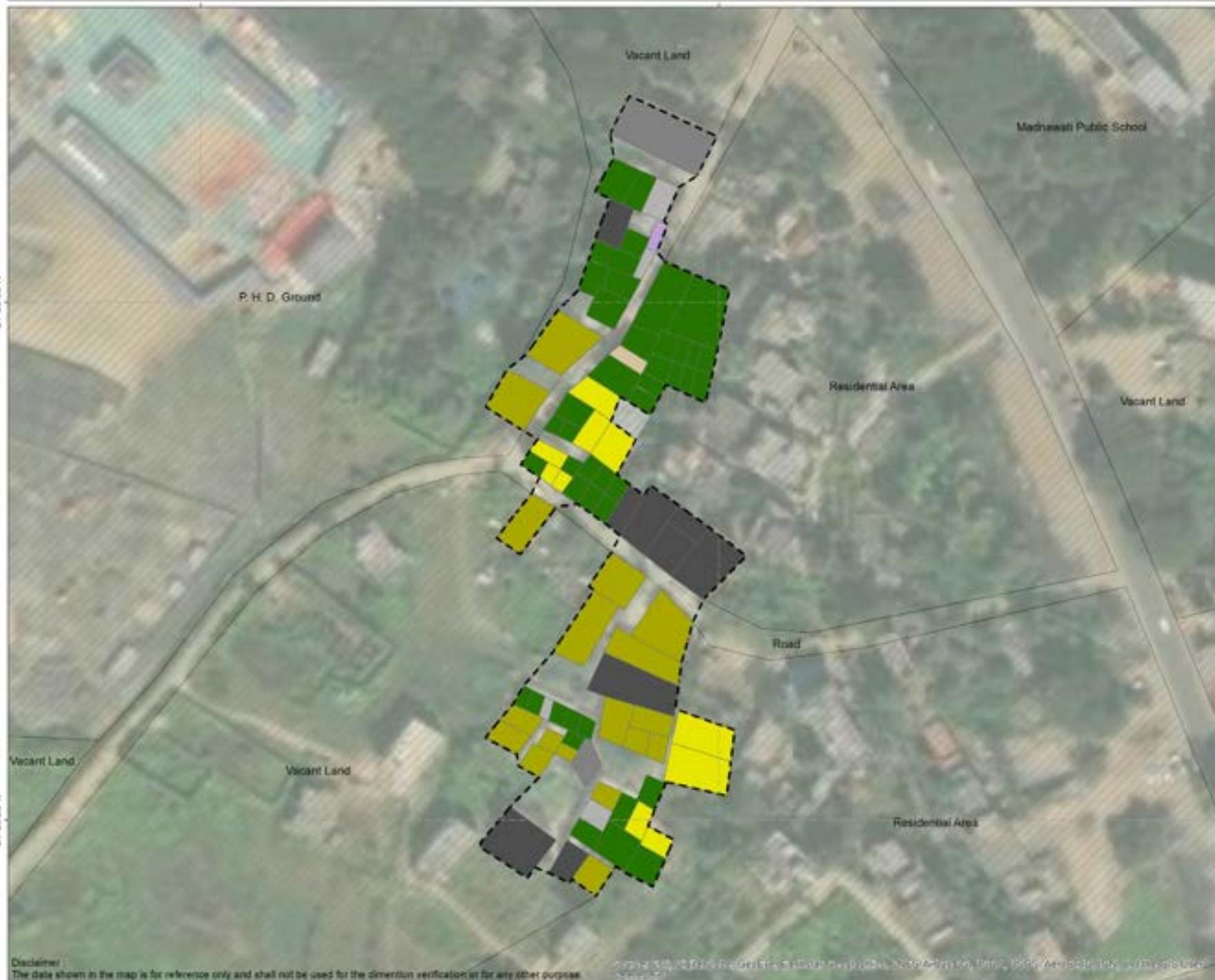





Source :
 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40 60



Source :
 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40 60





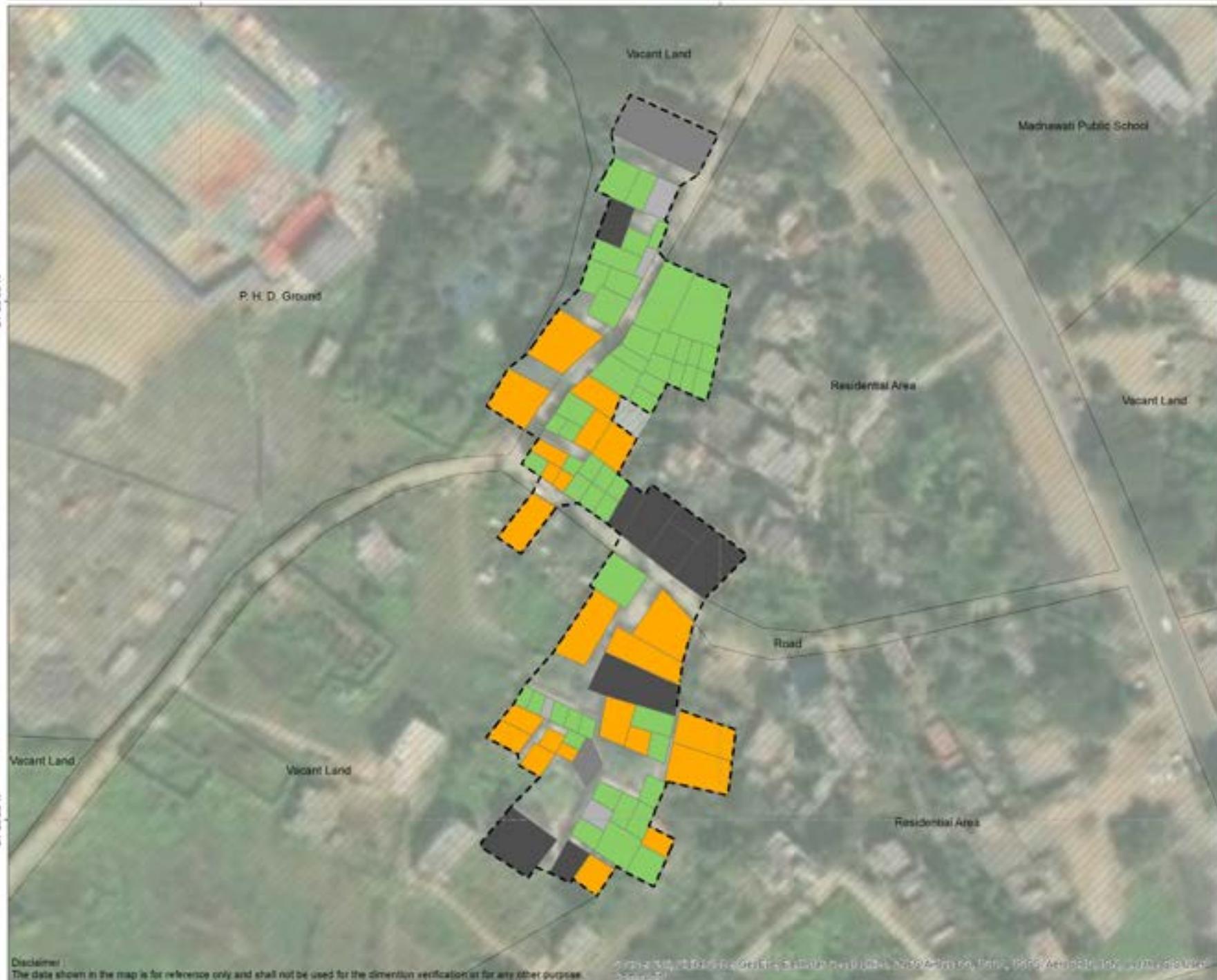

M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
URBAN MANAGEMENT CENTRE

Sambalpur

Khajuriapada (Ward No. 27)



Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :



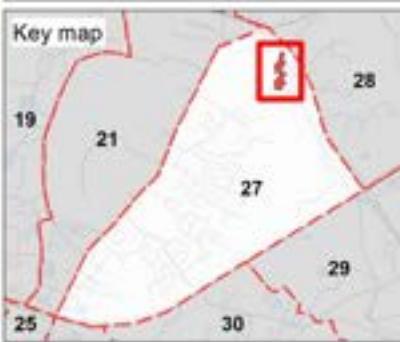
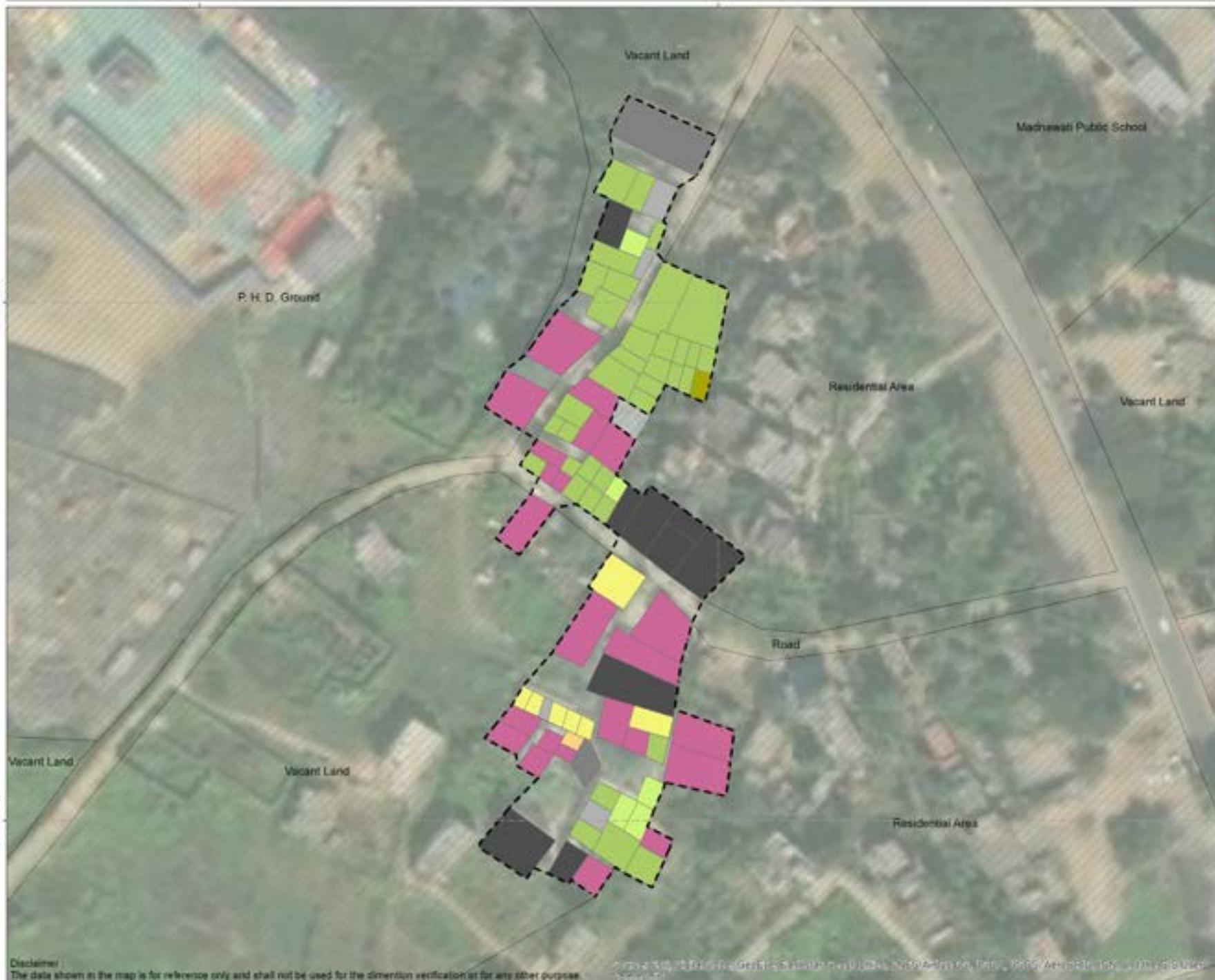
M I S A A L
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Khajuriapada (Ward No. 27)



IHHL connected to:

The legend consists of ten color-coded squares with their corresponding labels:

- Septic tank
- Twin pit
- Single pit / Soak pit
- Ring
- Open drain
- No connection for disposal
- Non-Functional IHHL
- No IHHL
- No response
- Locked house
- Other structures
- Slum boundary

Source:

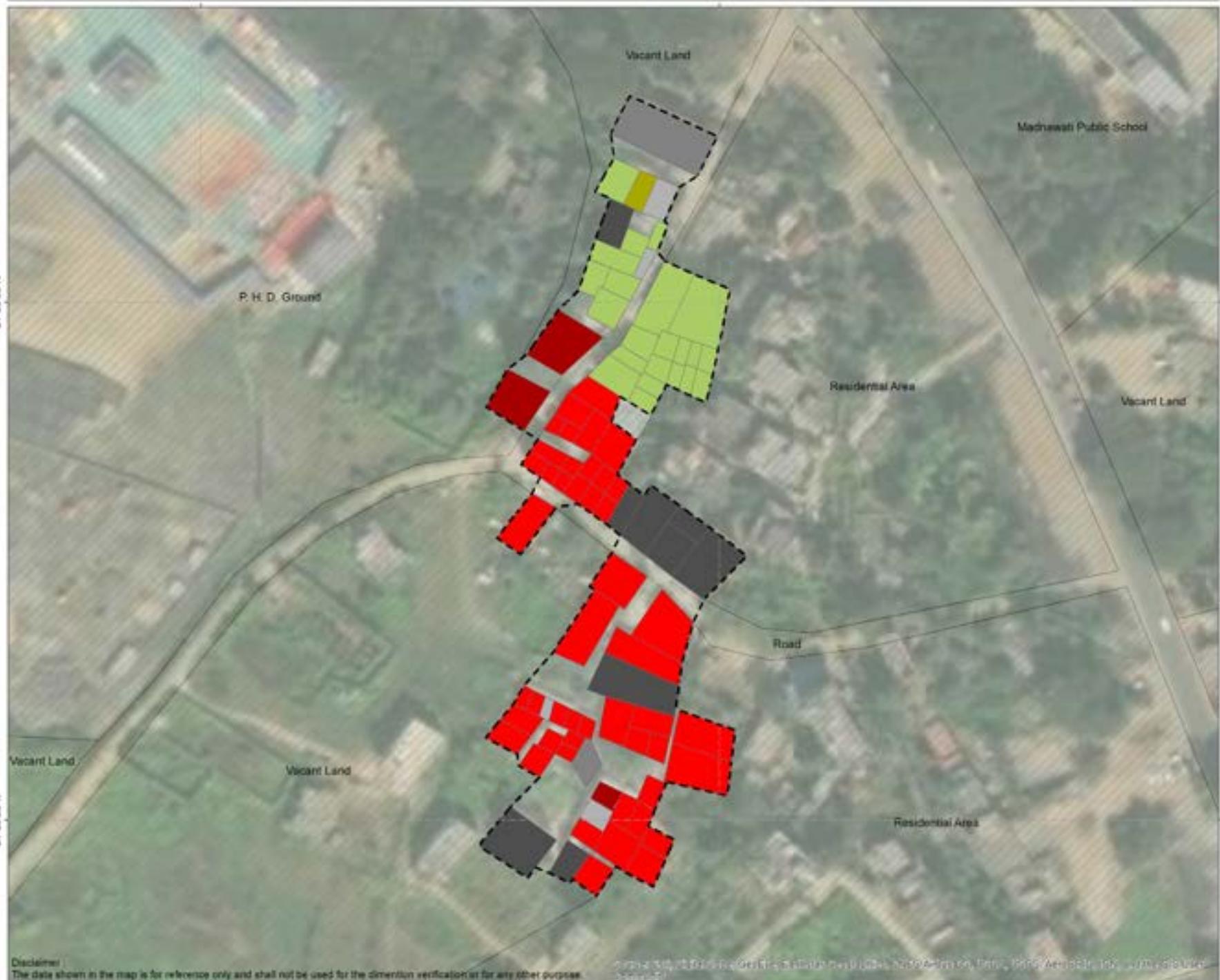
Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

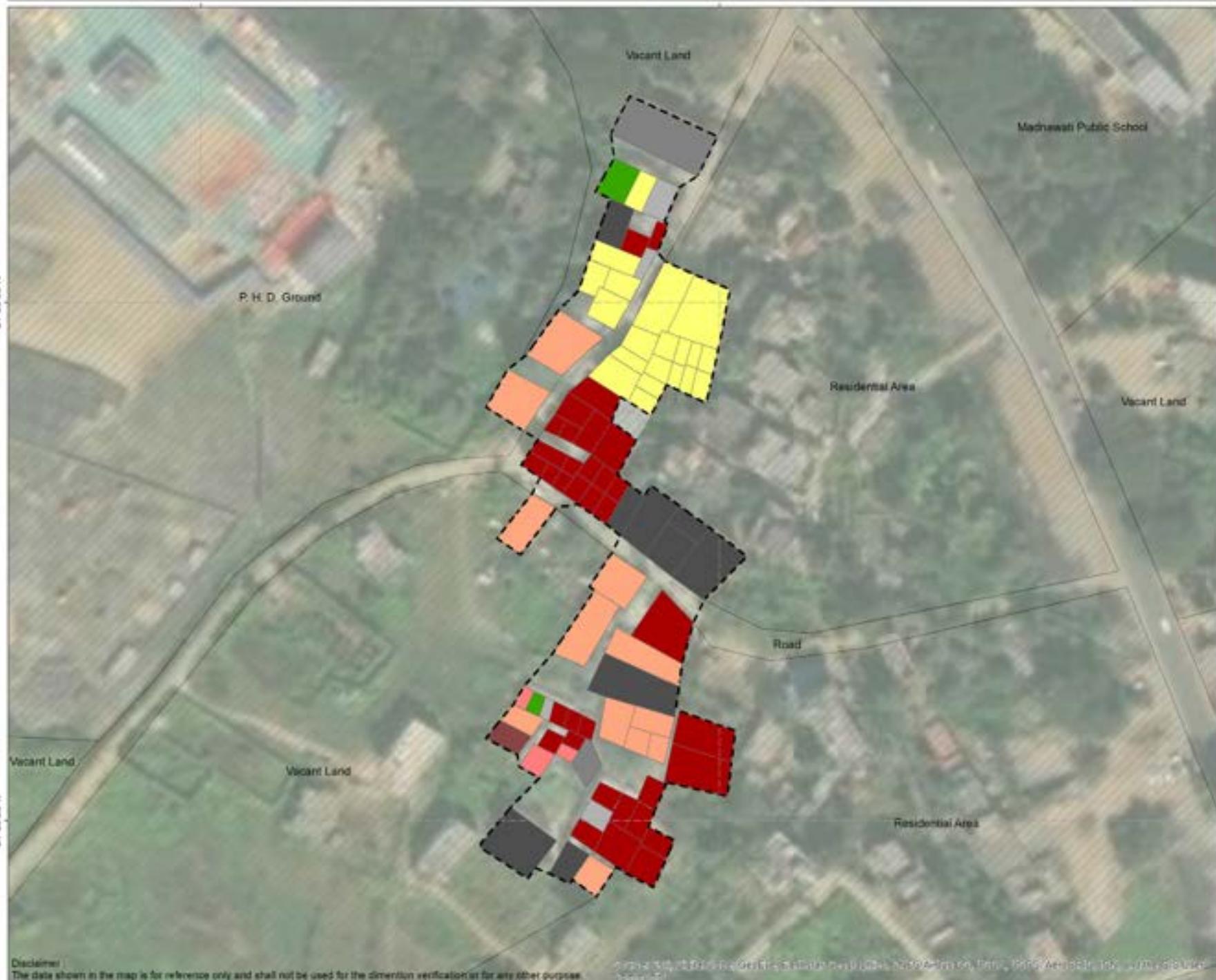
Scale



Chaitin-Gomberg

The data shown in the map is for reference only and shall not be used for the dimension verification at for any other purpose.

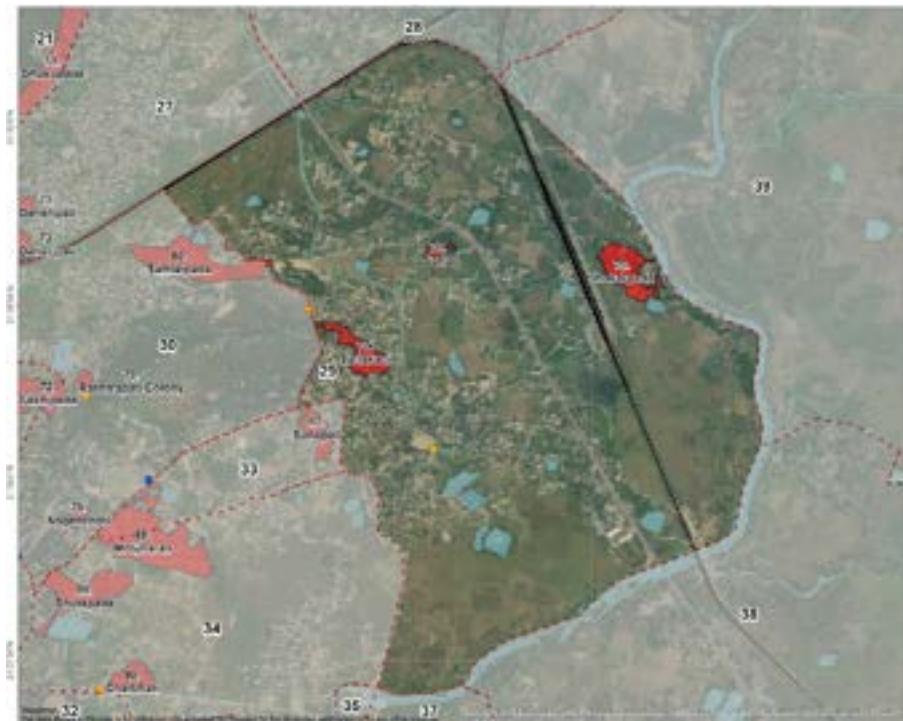




Ward - 29

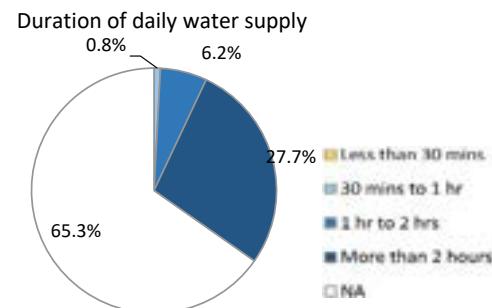
Sambalpur

Ward name
29



1. Access to municipal water supply

	% of HHs with individual water tap connection	4%
	% of HHs satisfied with the quality of water supplied	78%



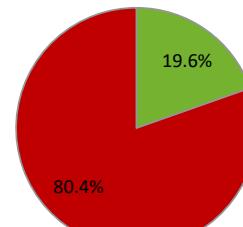
Number of slums

3

Total number of households in slums

384

2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL

70

% of functional IHHLs

94%

Number of PT/CTs near the slum

-

Total number of persons dependent on PT/CTs

2

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water

13%

% of IHHLs connected to septic tank/ soak pit/ twin pit

86%

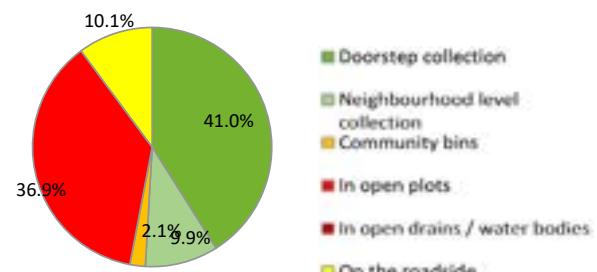
4. Solid waste management system



Total waste generation (kg)

450

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet

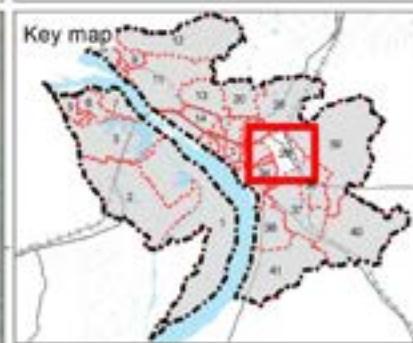
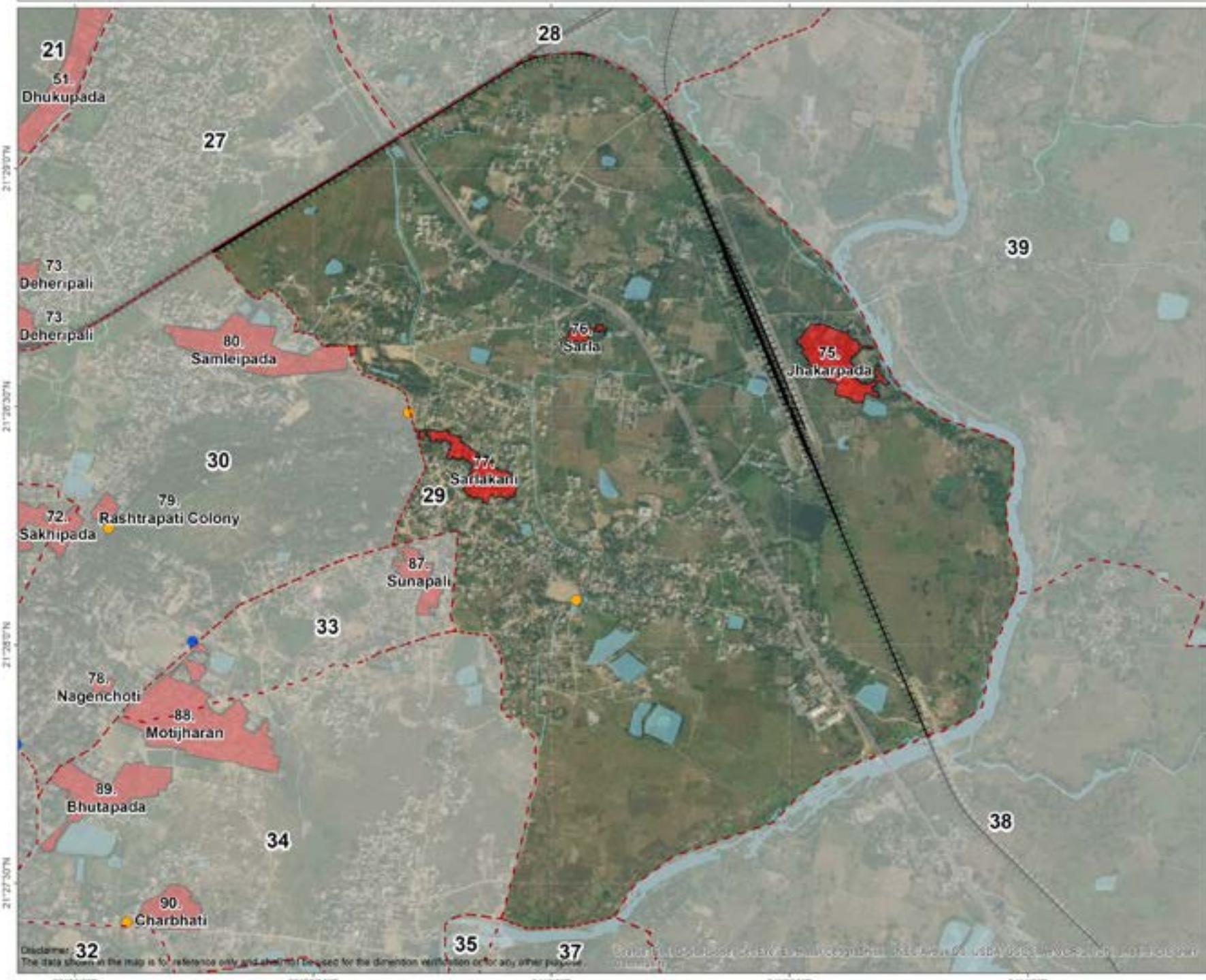


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MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
Urban Management Centre

Sambalpur



Base layers

- Functional Community Toilet
 - Functional Public Toilet
 - Slum
 - National highway
 - State highway
 - Railway line
 - Waterbody
 - Ward boundary
 - SMC boundary

Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 150 300 600

75. Jhakarpada

Sambalpur

Slum name
JHANKARPADA

Ward
29

Total number of households in the slum
84

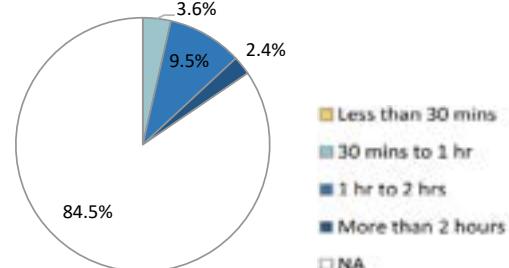
Approximate area of the slum
4.6 ha



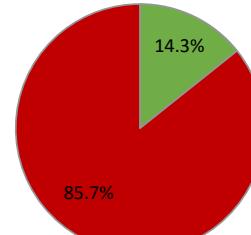
1. Access to municipal water supply

 % of HHs with individual water tap connection	11%
% of HHs satisfied with the quality of water supplied	64%

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **12**

% of functional IHHLs **83%**

Number of PT/CTs near the slum **-**

Total number of persons dependent on PT/CTs **2**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

% of IHHLs connected to septic tank/ soak pit/ twin pit **83%**

% of HHs connected with safe disposal system for grey water **30%**

4. Solid waste management system

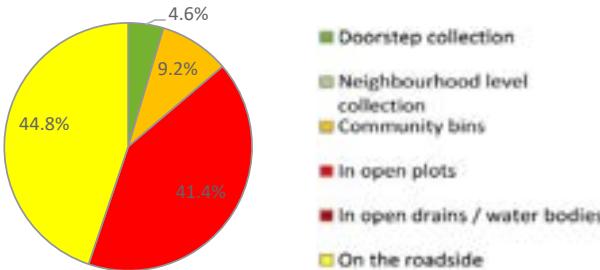


Total waste generation (kg)

114

% of HHs segregating waste **26%**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



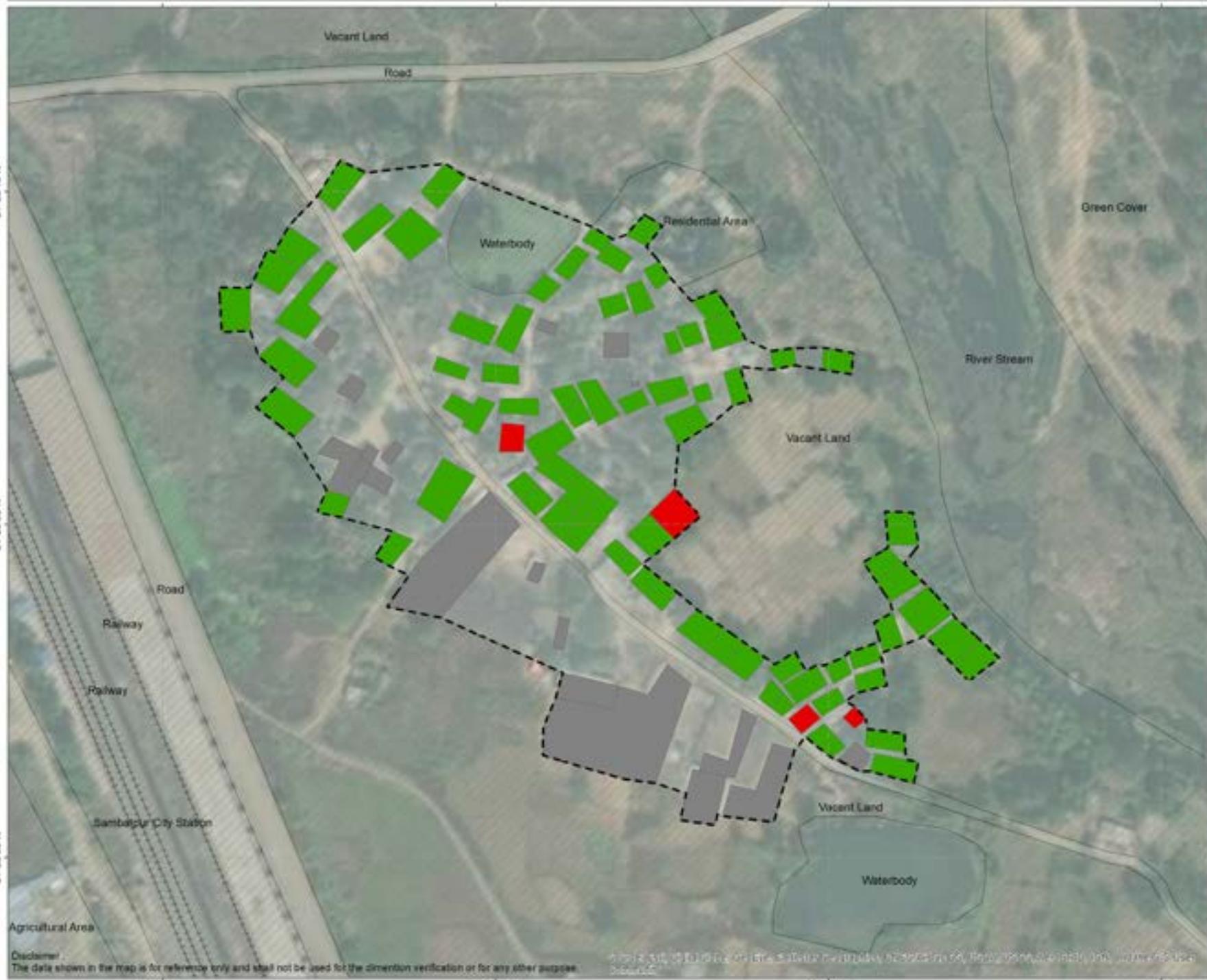
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Jhakarpada (Ward No. 29)

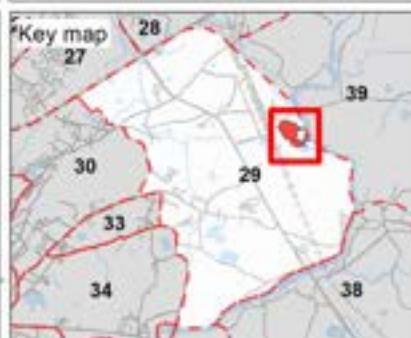
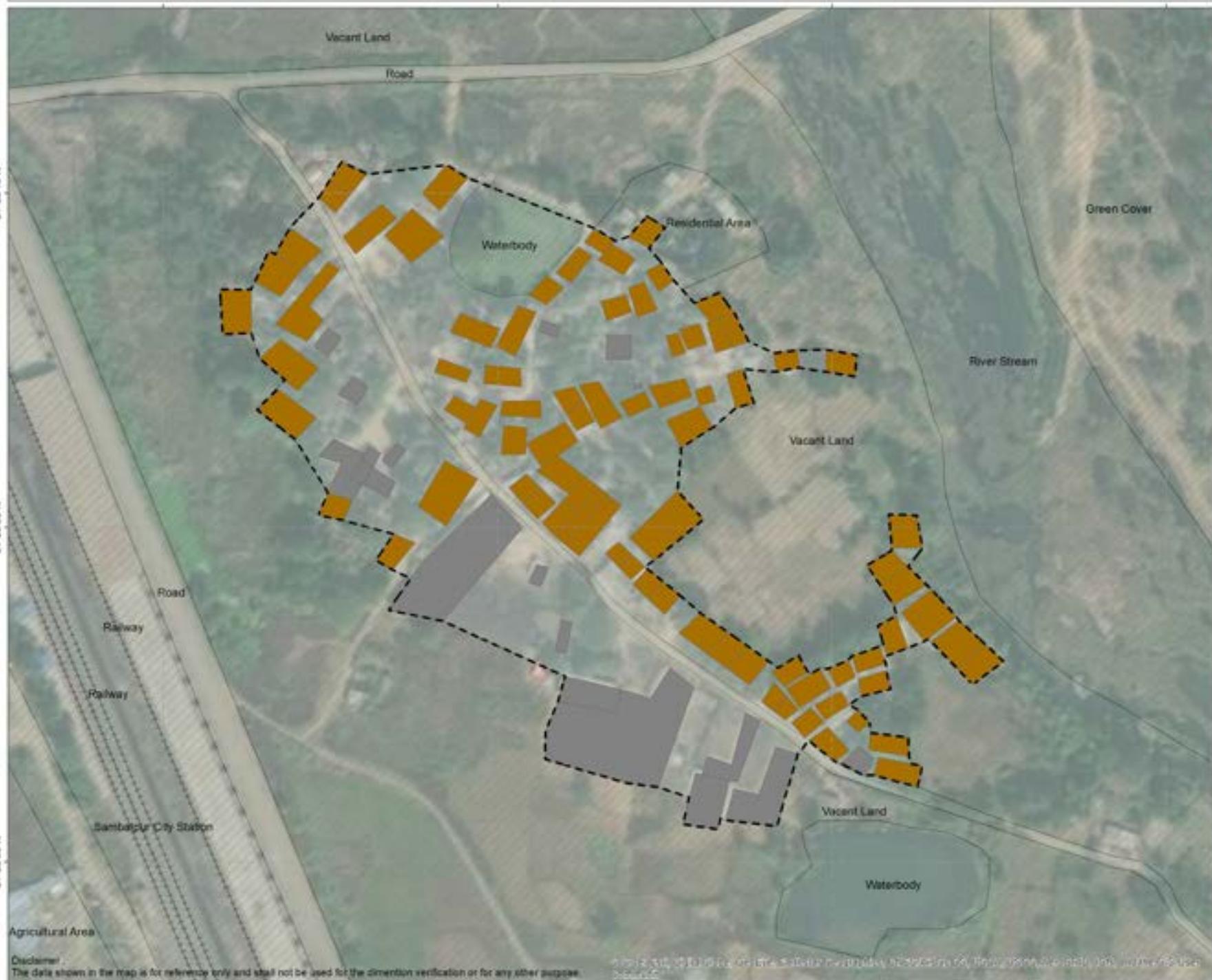


As per the verbal information provided by the respondents.

Source :
Urban Management Centre, (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale:





Number of floors in the building

- Ground floor
- Other structures
- Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 10 20 40 60 80 m





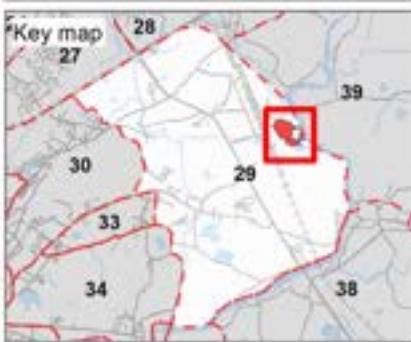
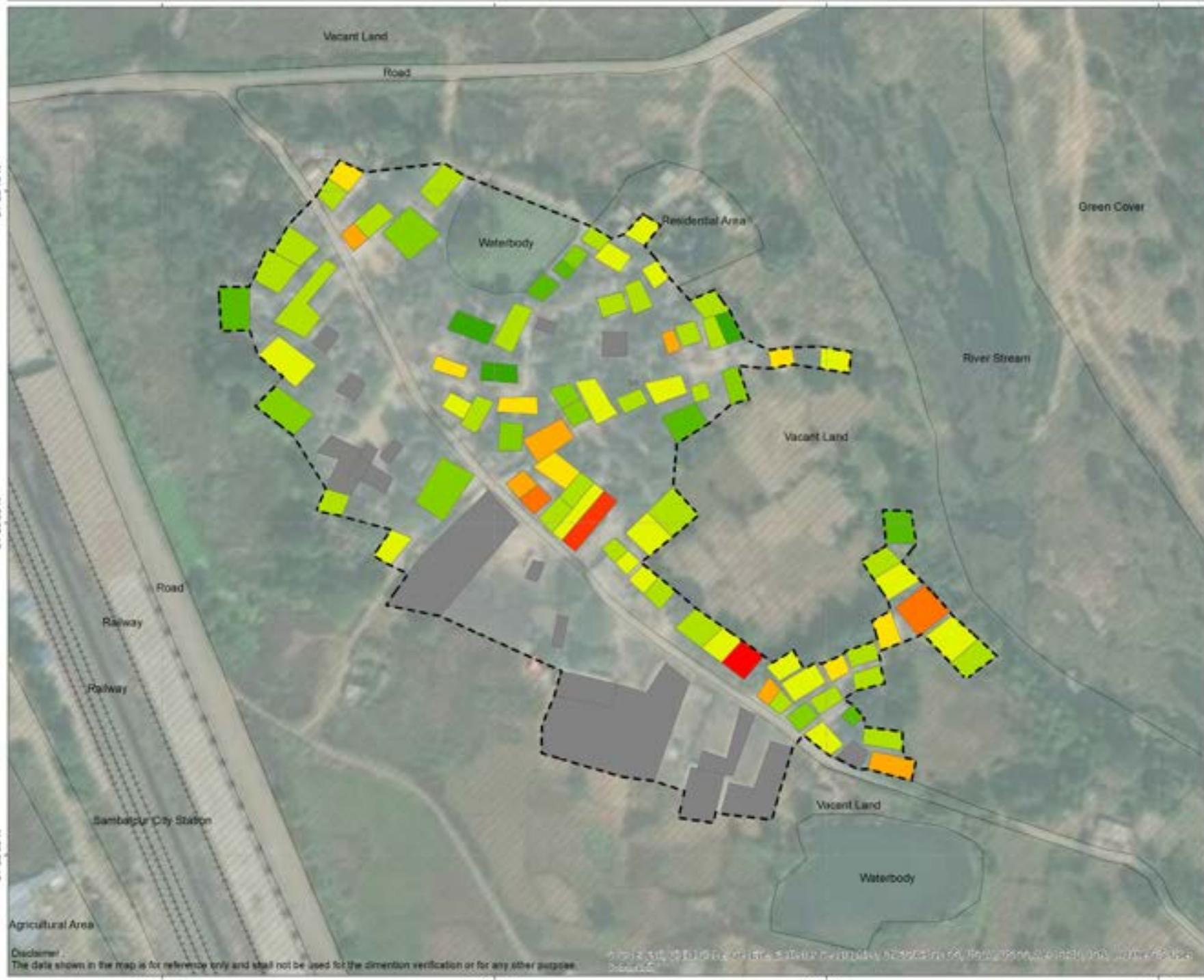
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



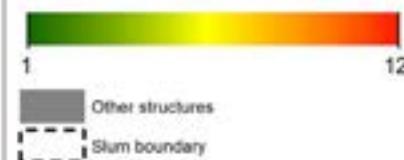
UMC
URBAN MANAGEMENT CENTER

Sambalpur

Jhakarpada (Ward No. 29)



Household size



Source :

Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



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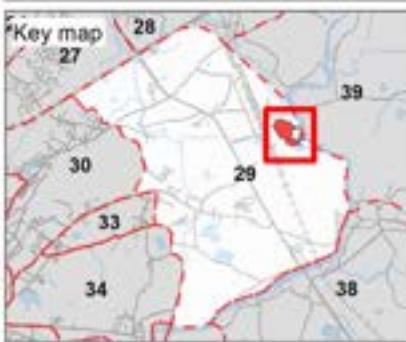
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Jhakarpada (Ward No. 29)



Elderly citizen

HH have elderly citizen
Other structures
Slum boundary

Source :

Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:

0 10 20 40 60 80





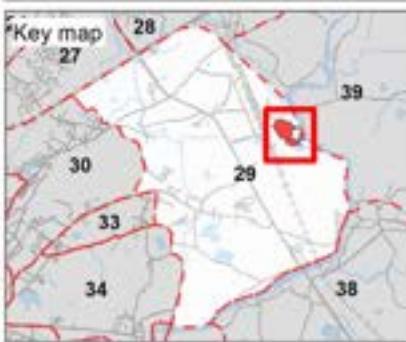
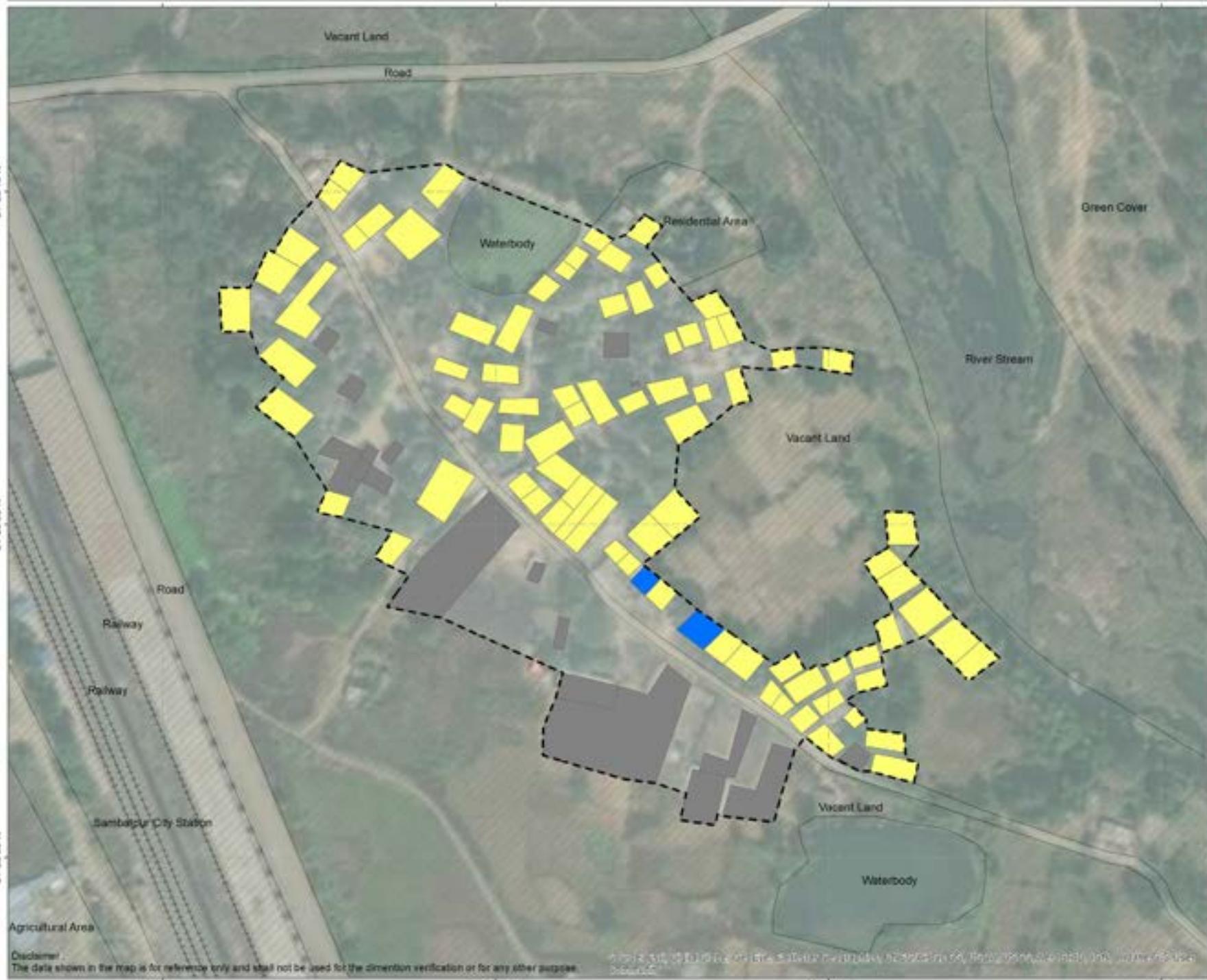
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Jhakarpada (Ward No. 29)



Household with PWD*

* Person with Disabilities

Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :

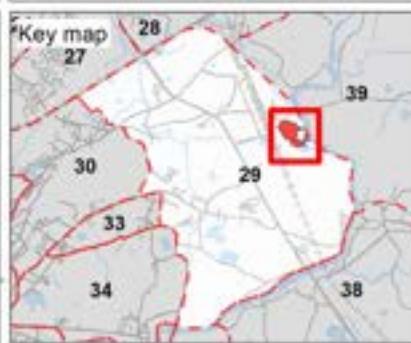
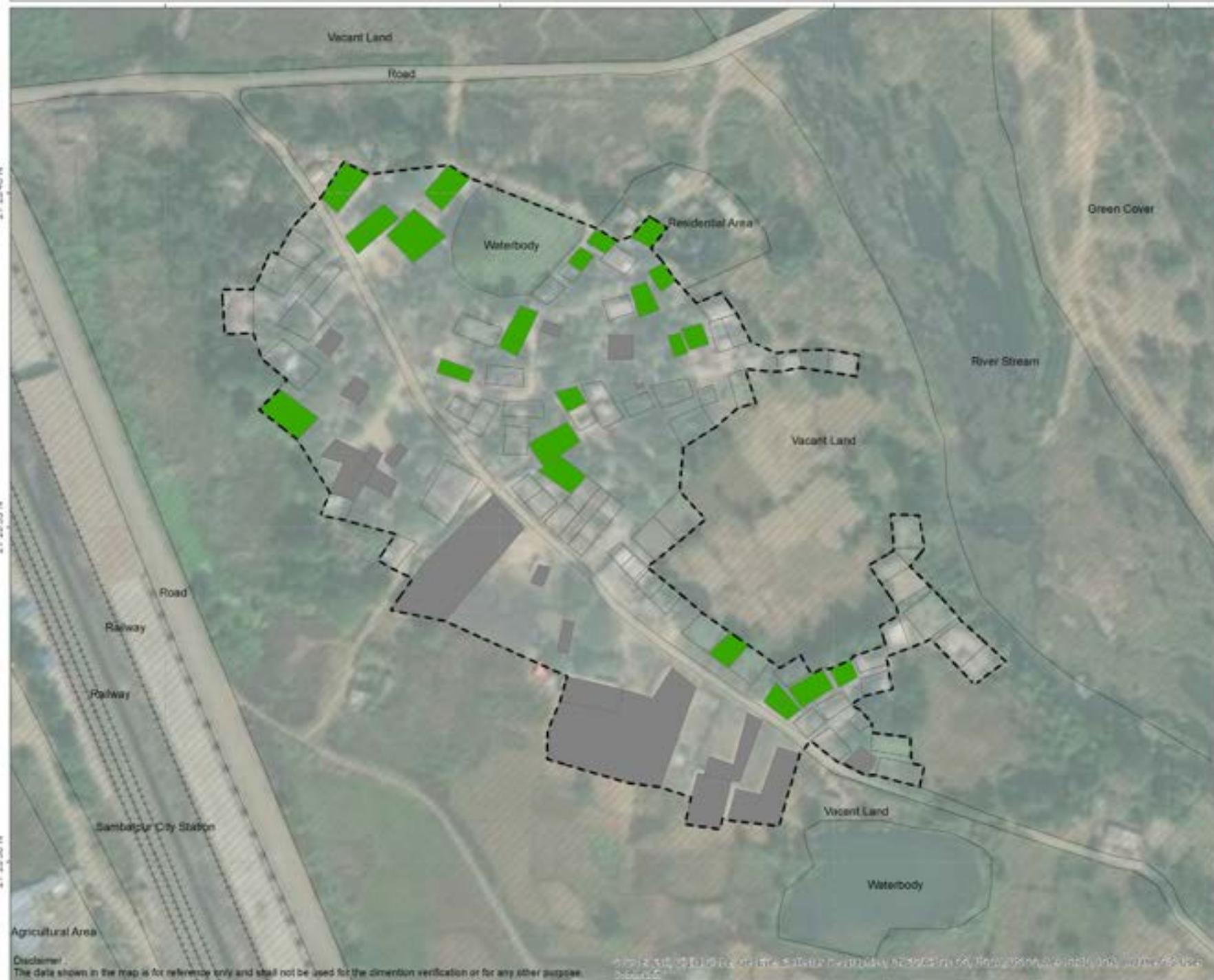
0 10 20 40 60



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第13章



Household part of SHG

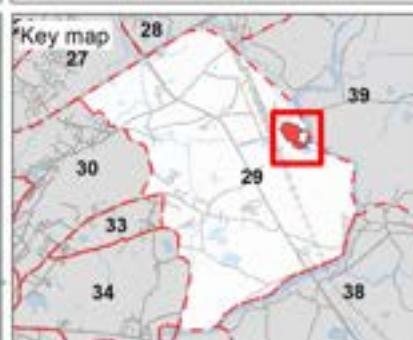
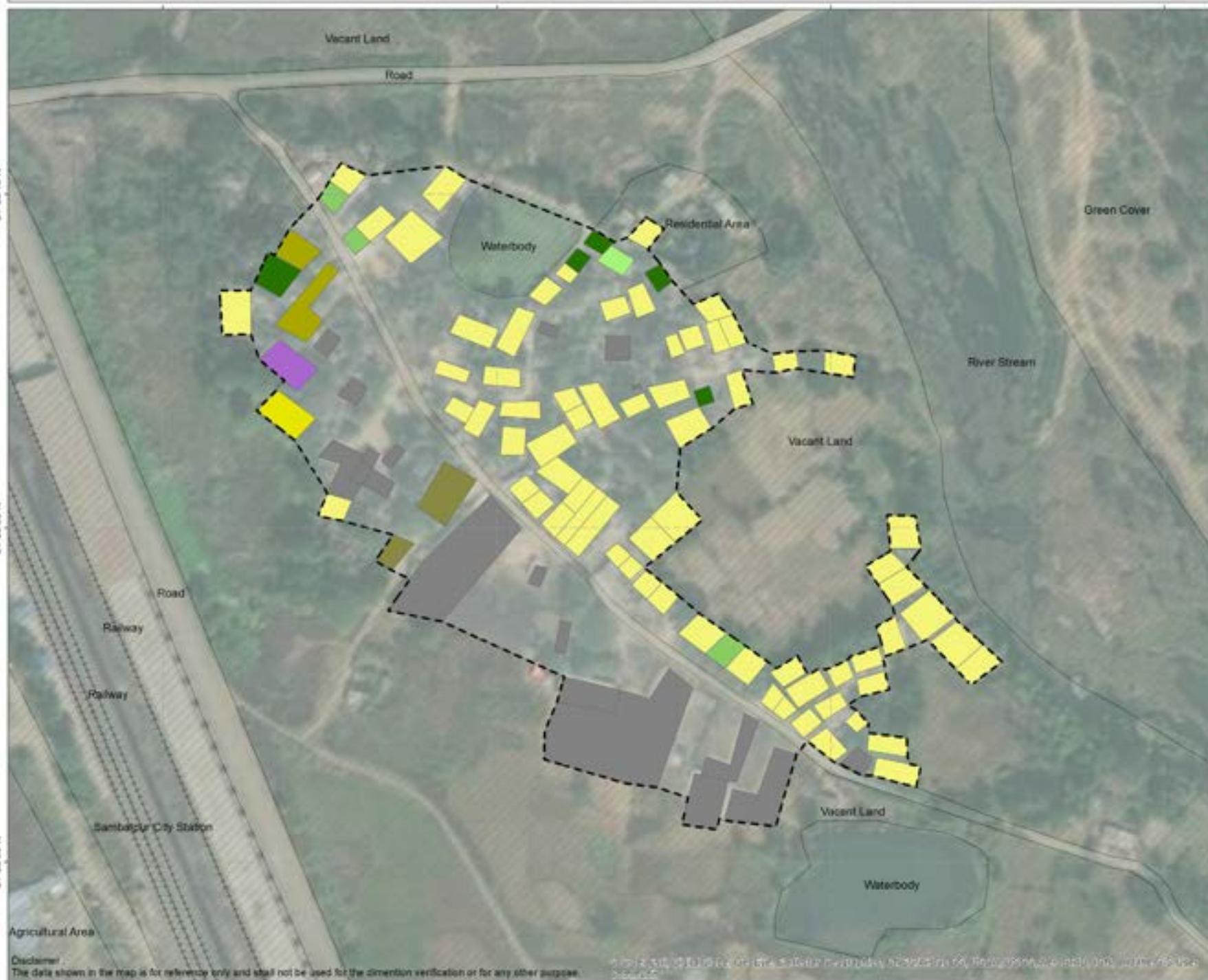
- Yes (Green)
- Other structures (Grey)
- Slum boundary (Dashed Line)

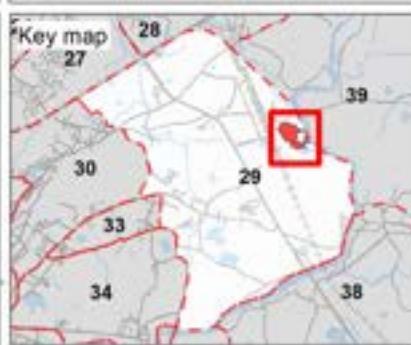
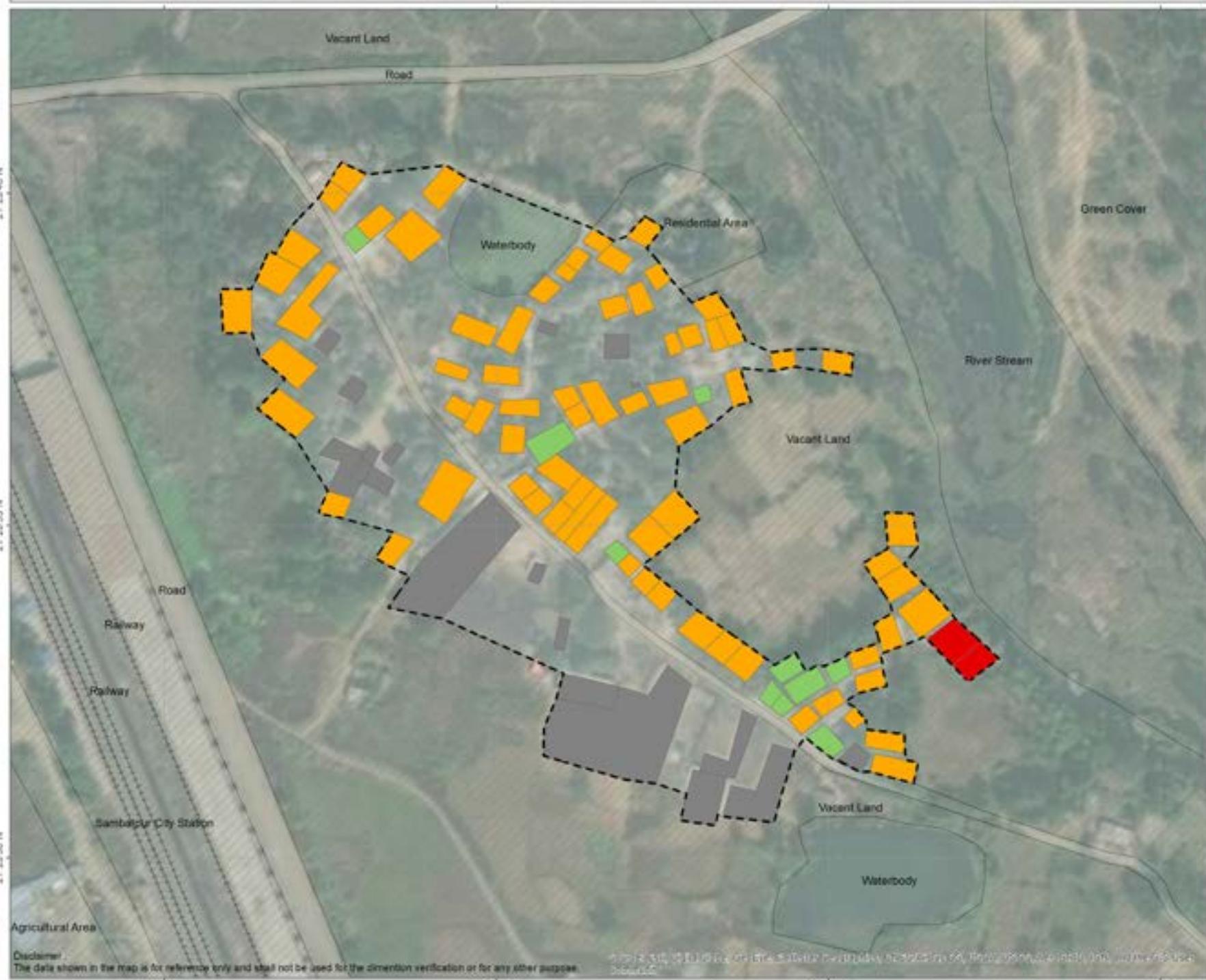
Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 10 20 40 60 80 m





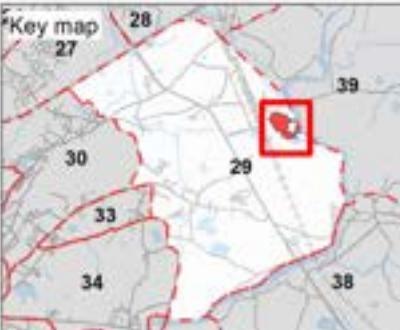
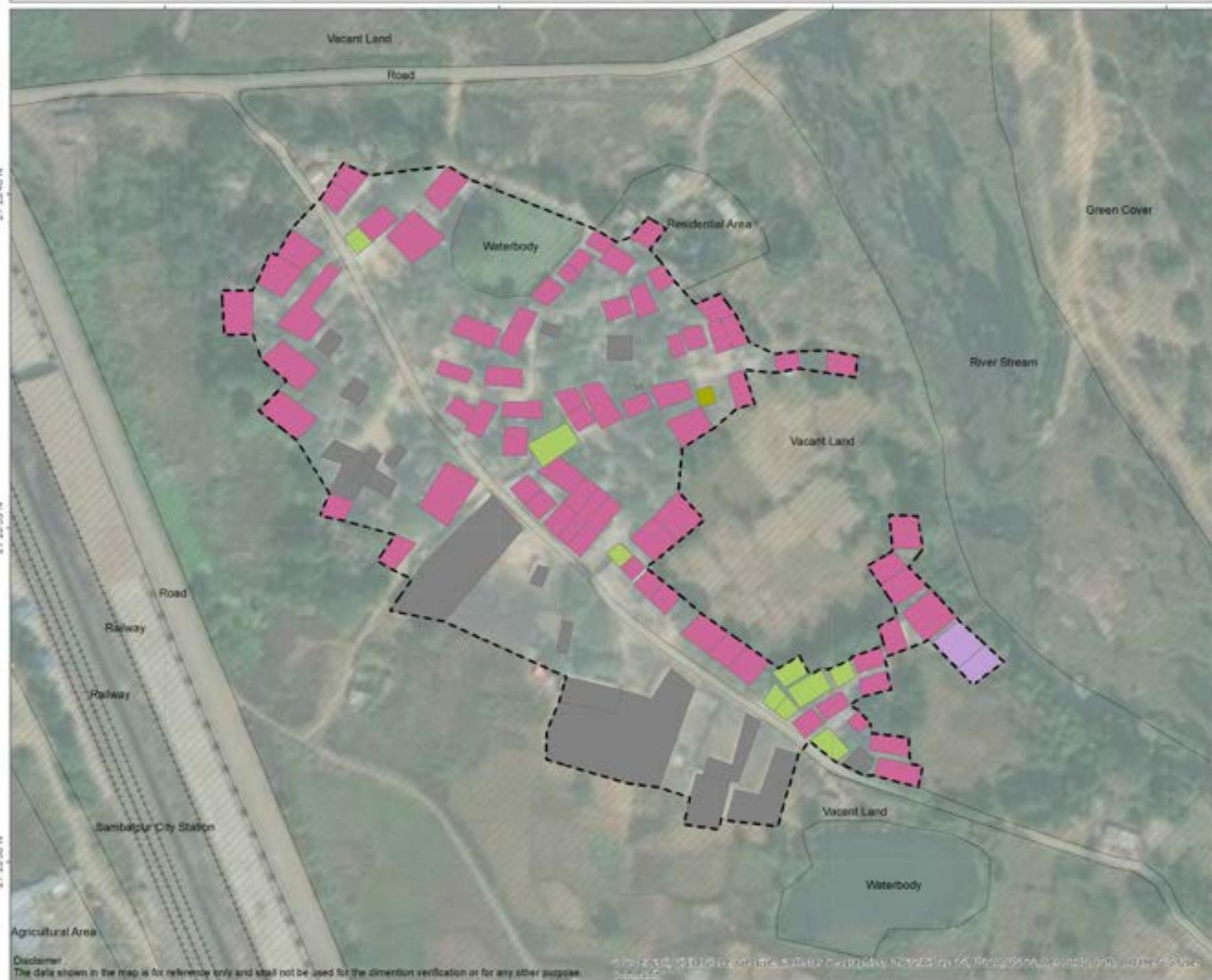

Functionality of IHHL

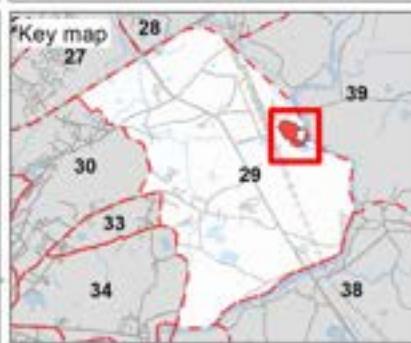
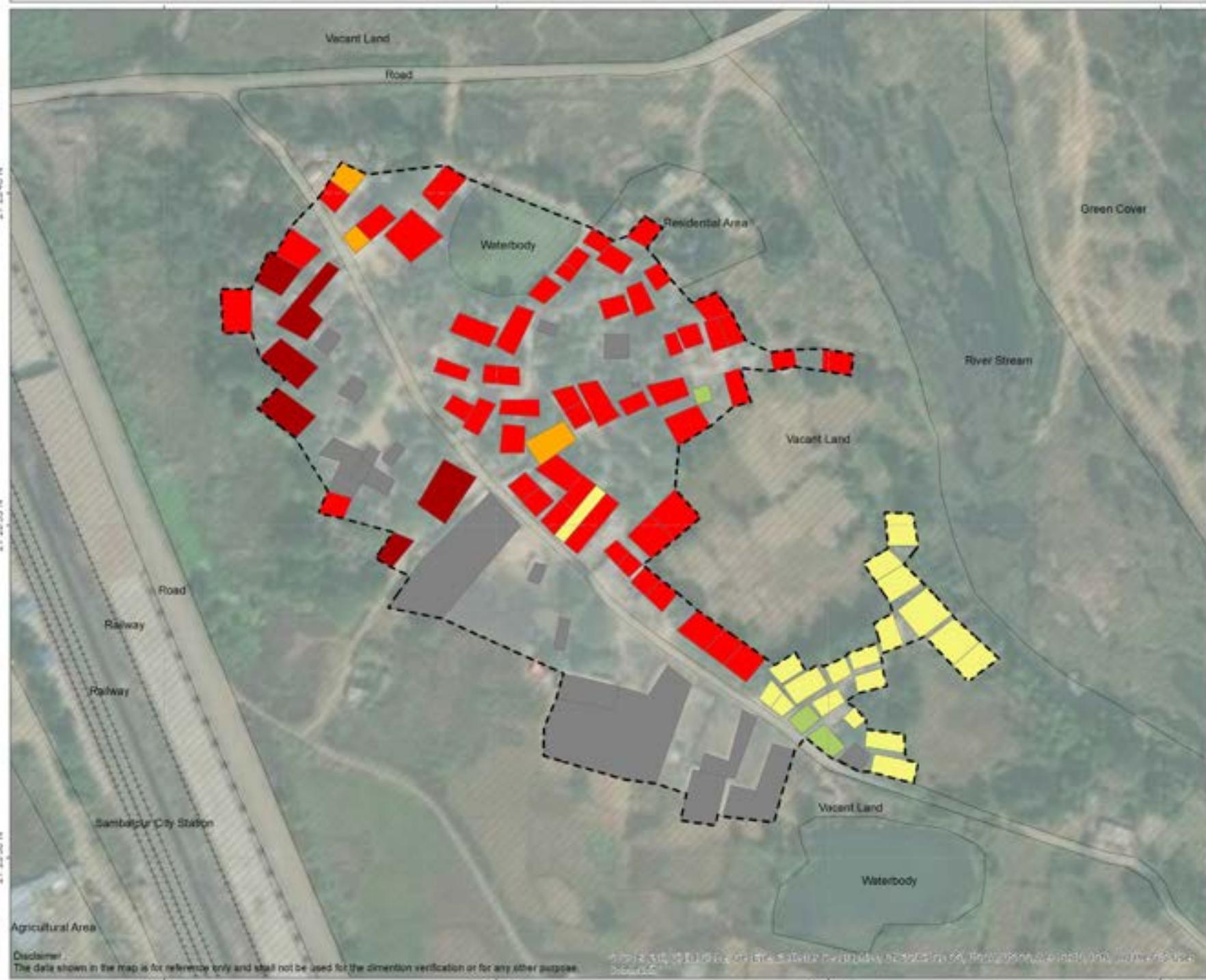
- [Green Box] Yes
- [Red Box] No
- [Yellow Box] No IHHL
- [Grey Box] Other structures
- [Dashed Box] Slum boundary

Source :
 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40 60 80 m







Grey water disposed to :

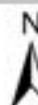
- Septic tank
- Twin pit
- Small pit (kundi) outside the house
- Open drain
- Water is let out on the streets
- Other structures
- Slum boundary

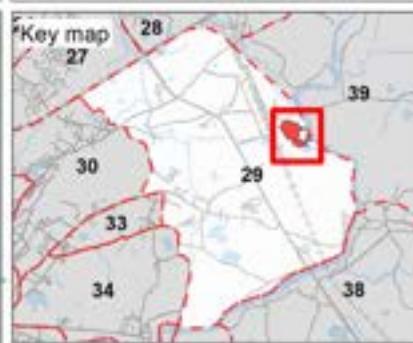
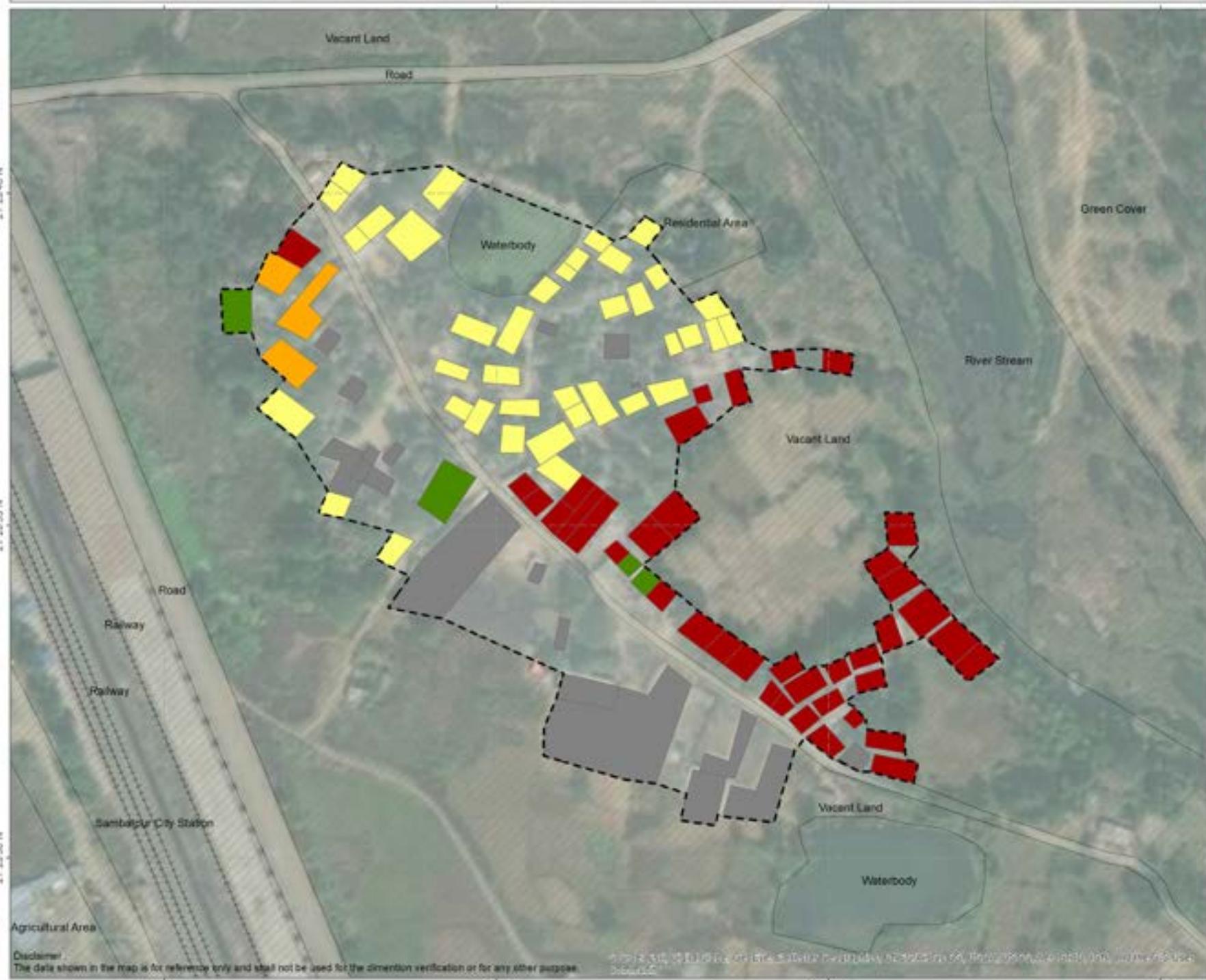
Source :

Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 10 20 40 60 80
m





Household disposing solid waste to :

- [Green square] D to D service
- [Orange square] Nearby community bin
- [Yellow square] On road side
- [Red square] In open plot
- [Grey square] Other structures
- [Dashed line] Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60 80 m



76. Sarla

Sambalpur

 Slum name
 SARLA

 Ward
 29

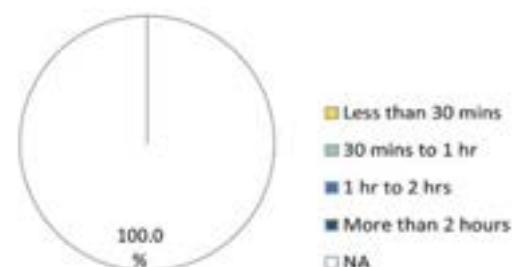
 Total number of households in the slum
 65

 Approximate area of the slum
 0.6 ha

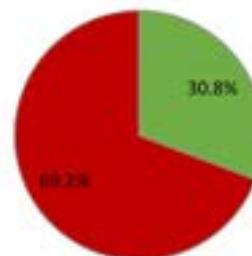

1. Access to municipal water supply

	% of HHs with individual water tap connection	3%
	% of HHs satisfied with the quality of water supplied	23%

Duration of daily water supply



2. Access to toilets


 Number of HHs having IHHL **20**

 % of functional IHHLs **100%**

 Number of PT/CTs near the slum **-**

 Total number of persons dependent on PT/CTs **-**

3. Access to safe wastewater disposal system


 % of IHHLs connected to sewers **-**

 % of IHHLs connected to septic tank/ soak pit/ twin pit **100%**

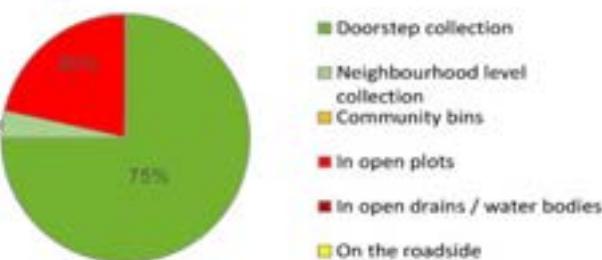
 % of HHs connected with safe disposal system for grey water **12%**

4. Solid waste management system

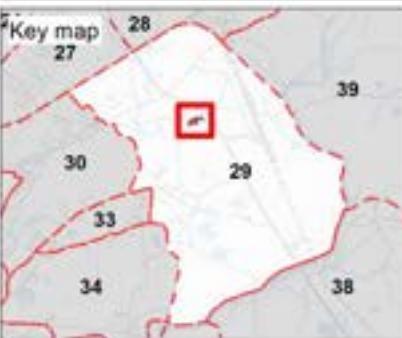
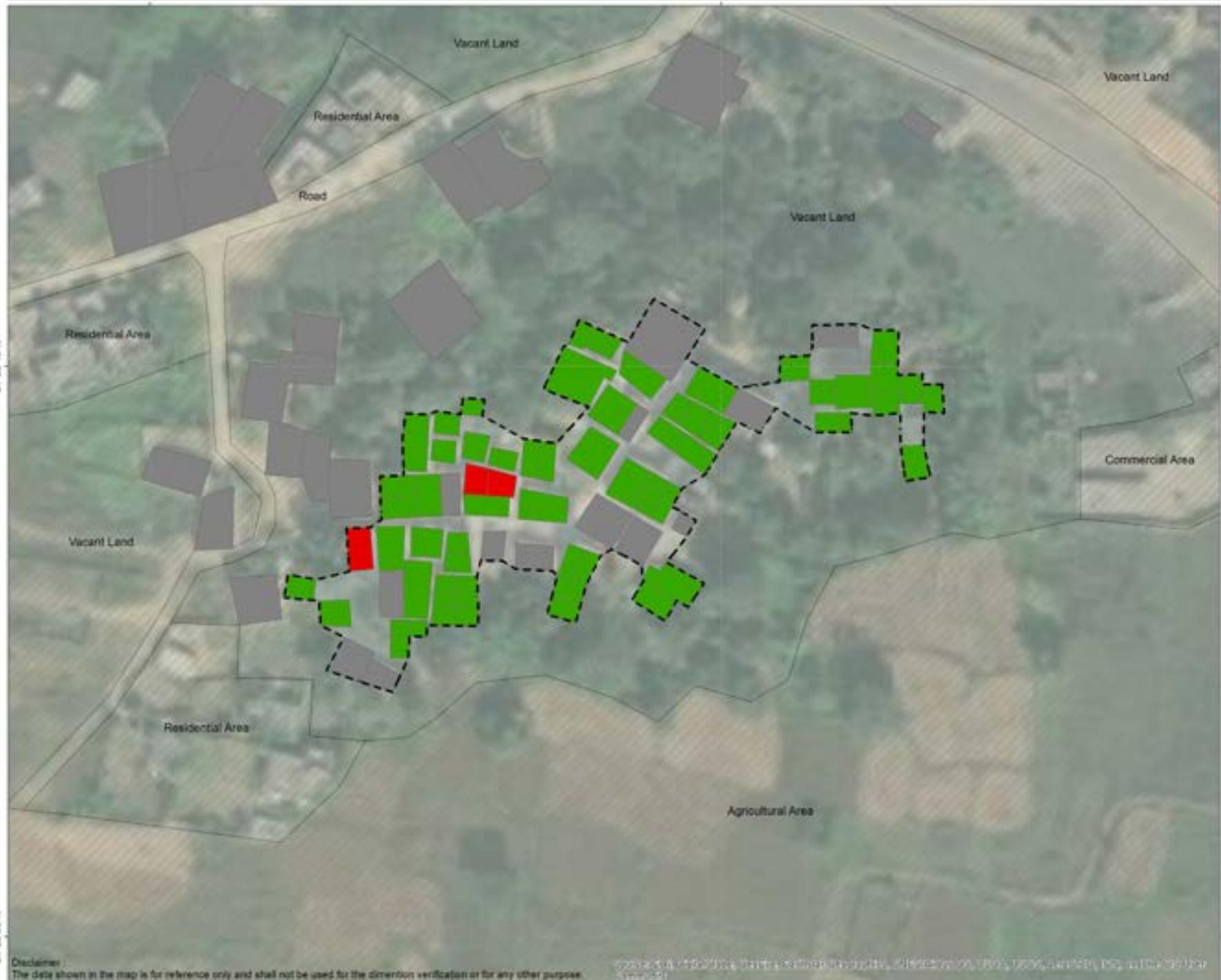

 Total waste generation (kg) **79**

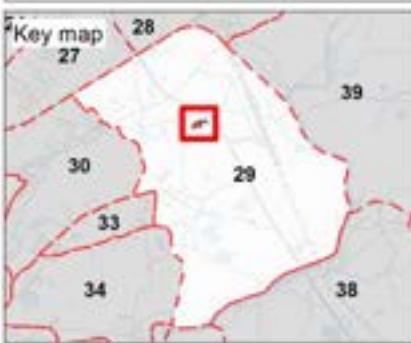
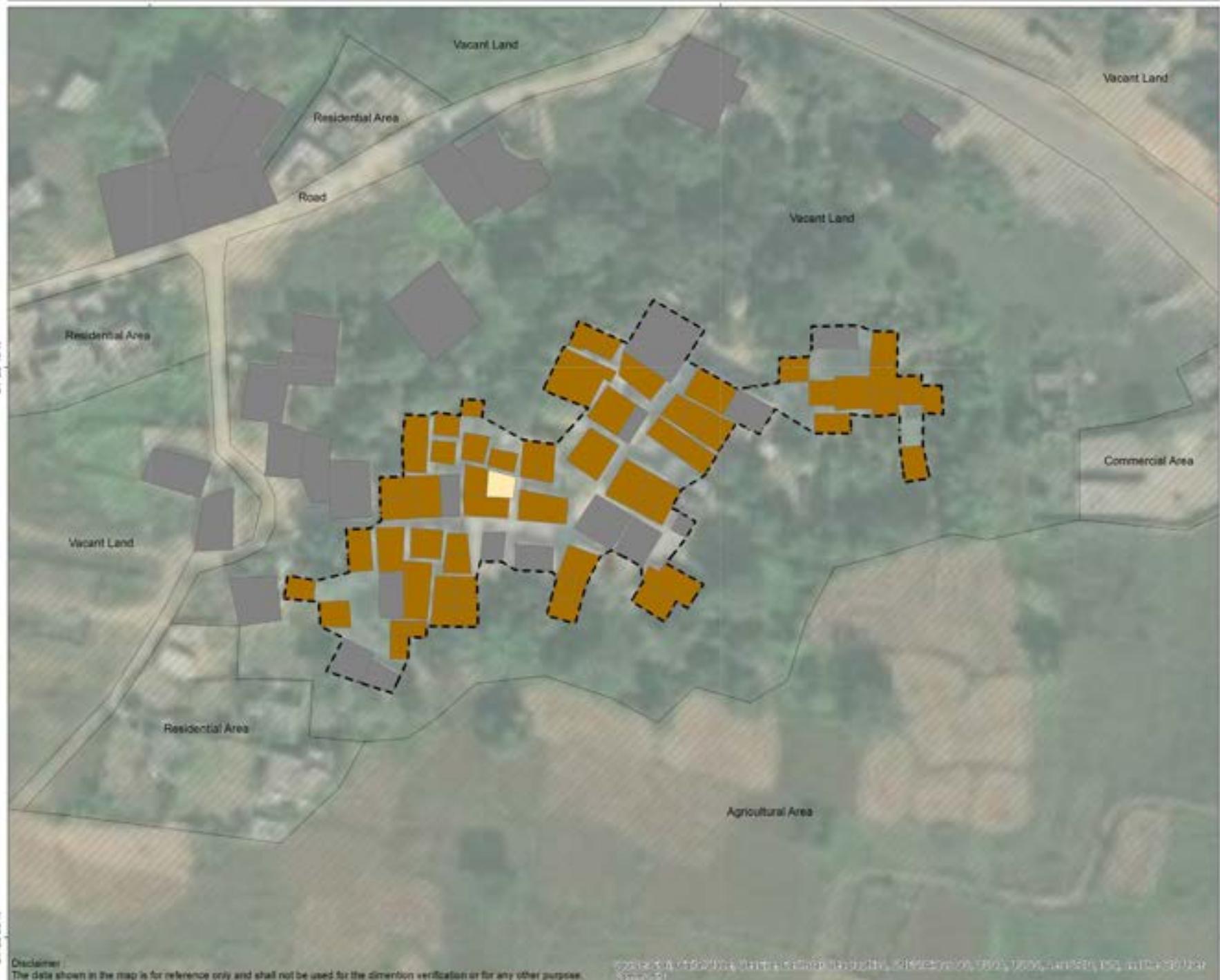
 % of HHs segregating waste **-**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet





Number of floors in the building

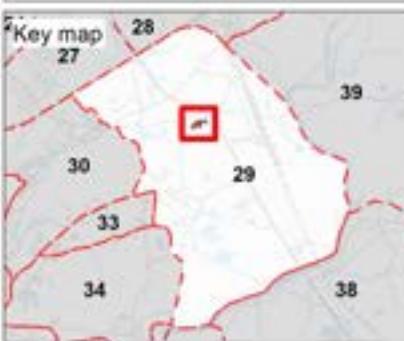
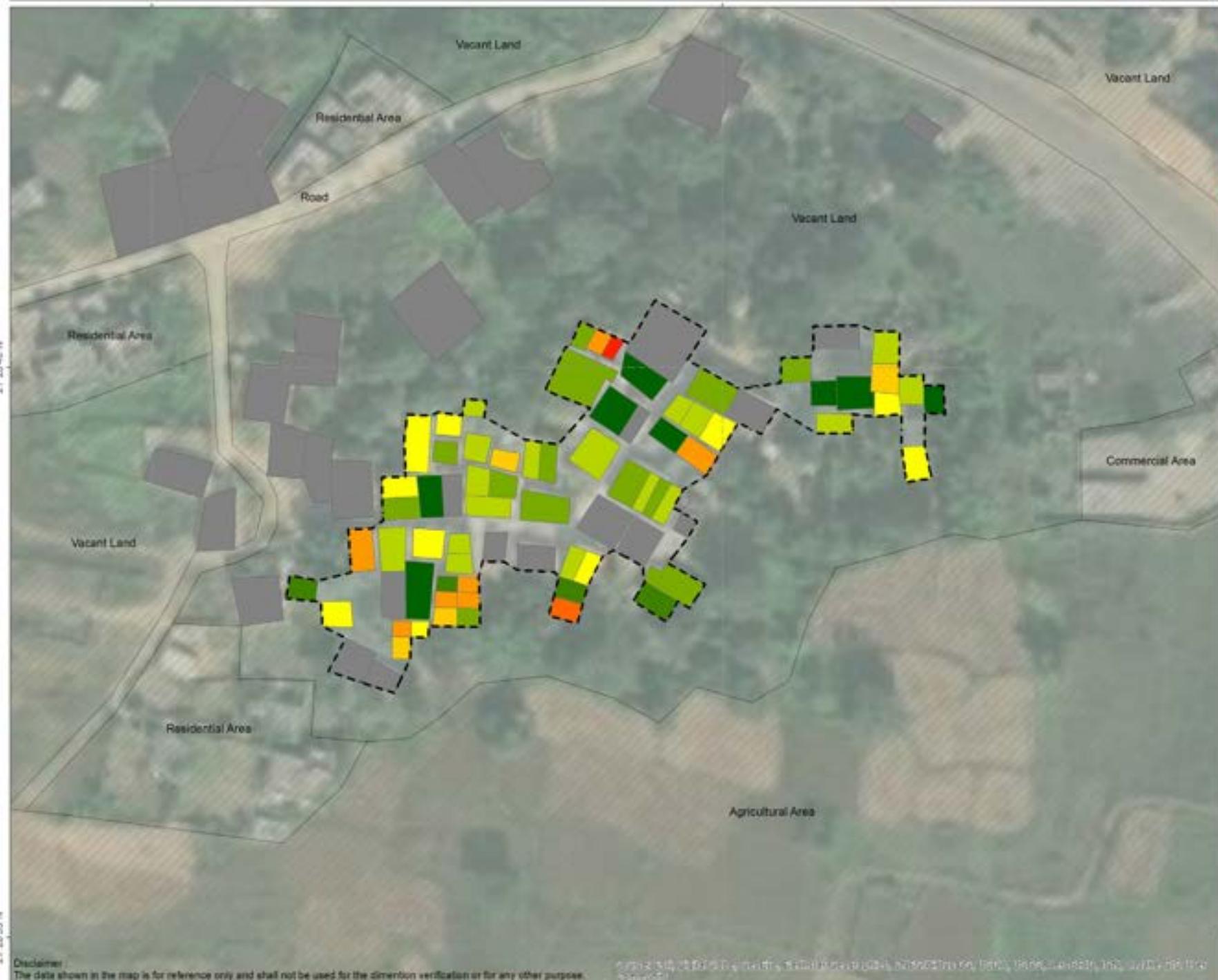
- Ground floor
- Ground floor + 1
- Other structures
- Slum boundary

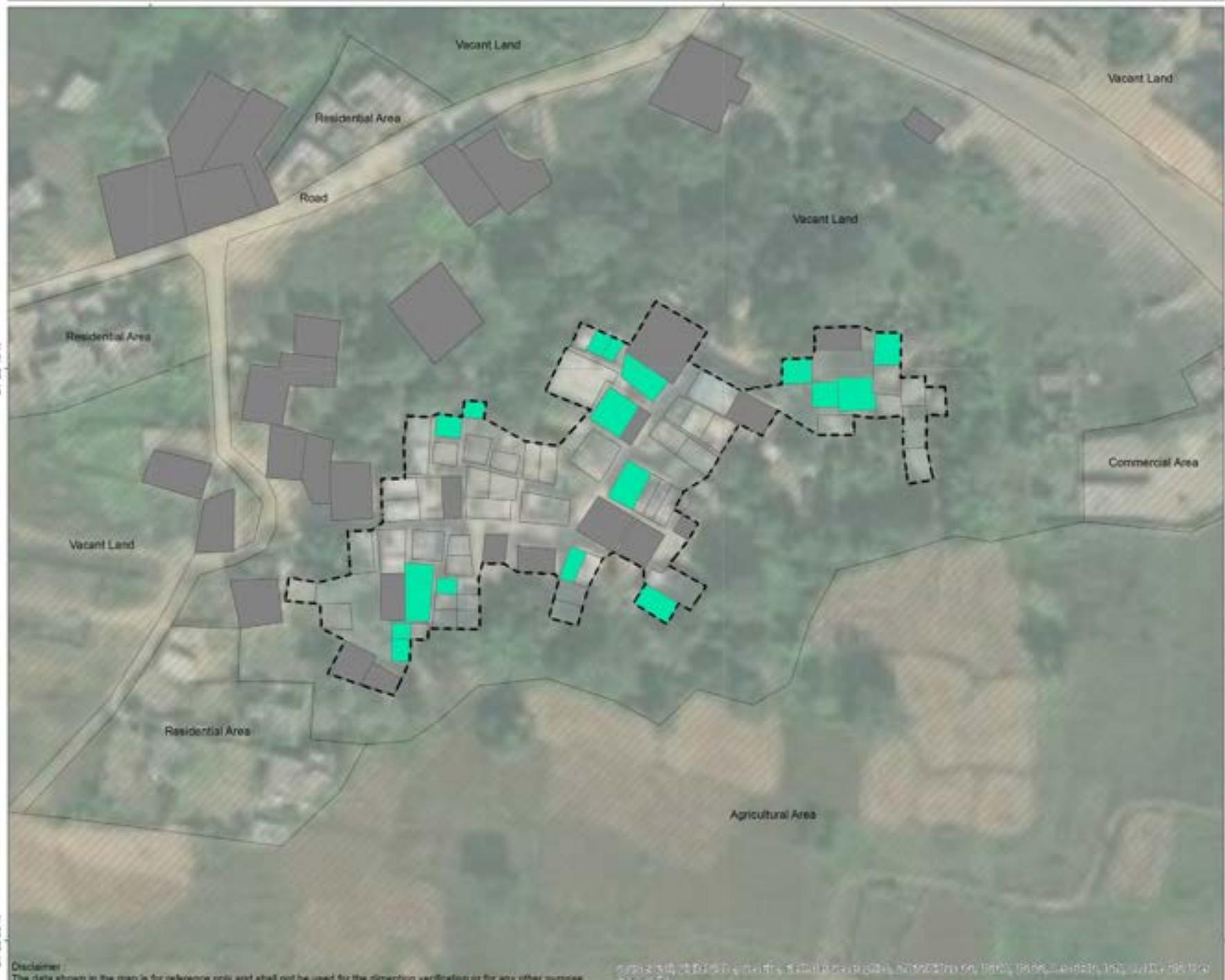
Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :



0 10 20 40 60 m

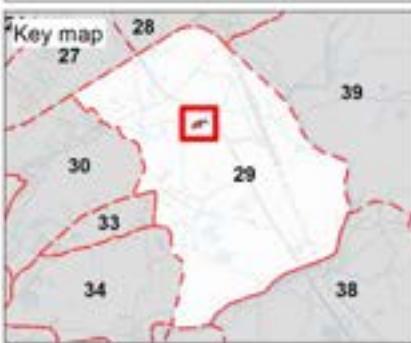
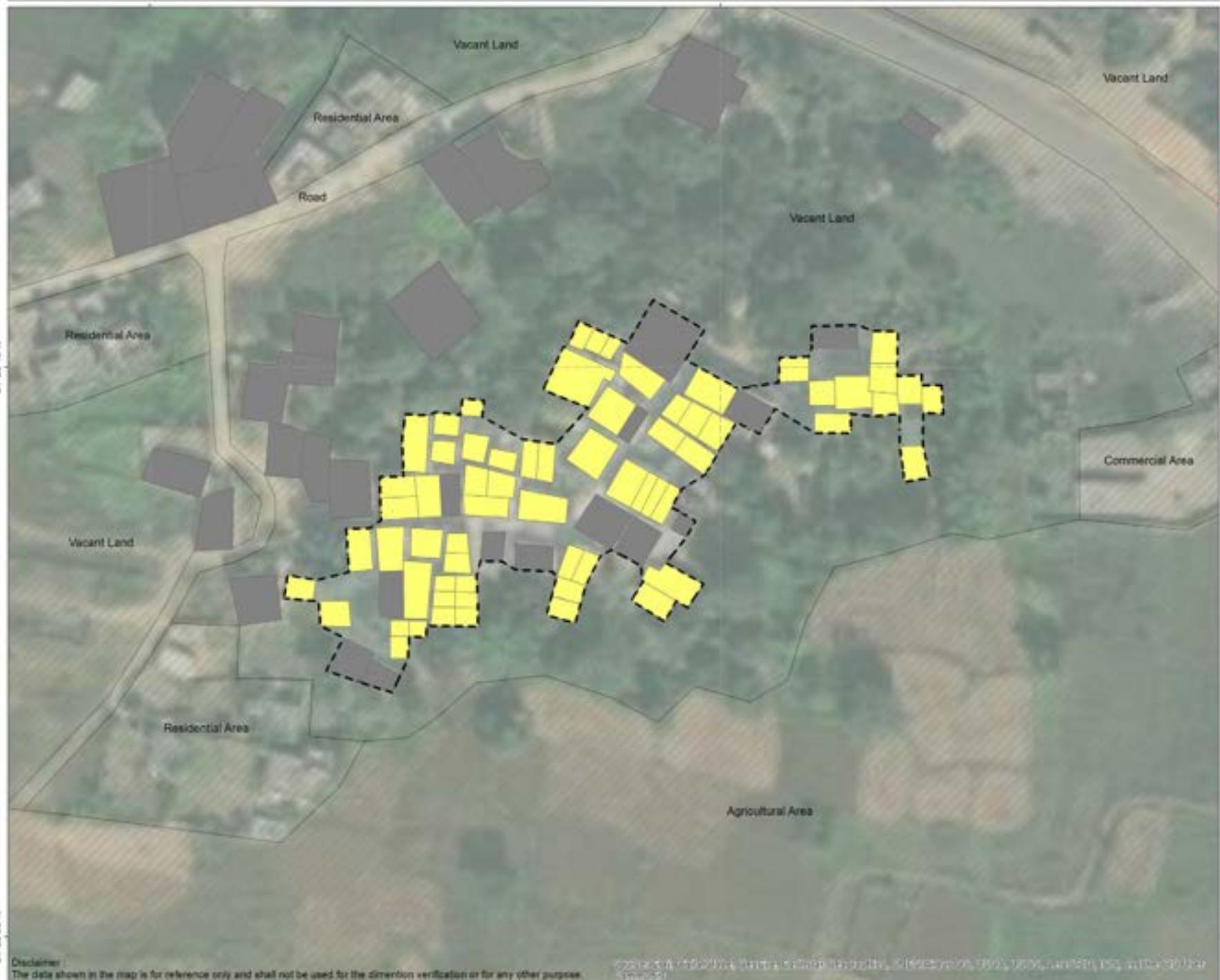




Source :
 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40 60 m





Household with PWD*

- No
- Other structures
- Slum boundary

* Person with Disabilities

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur. Odisha.

Scale :
0 10 20 40 60 m



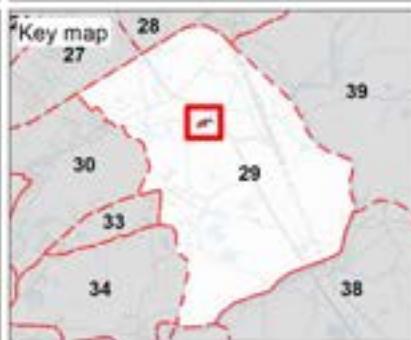
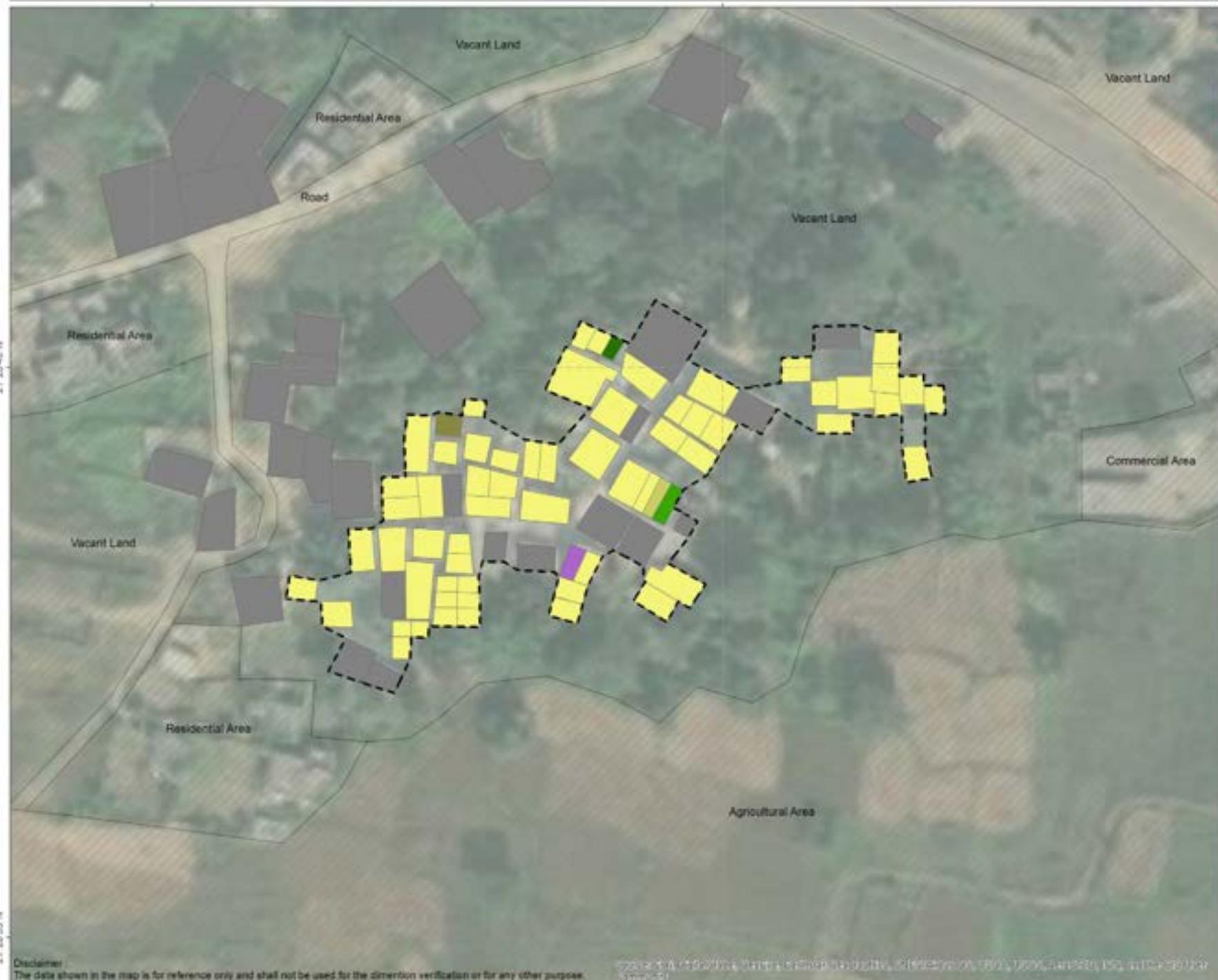
Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

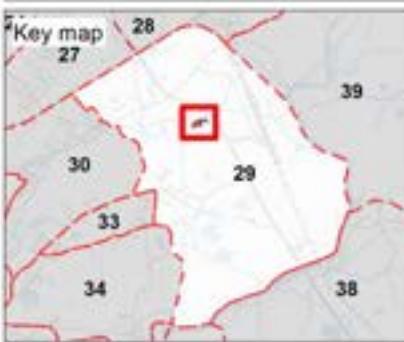
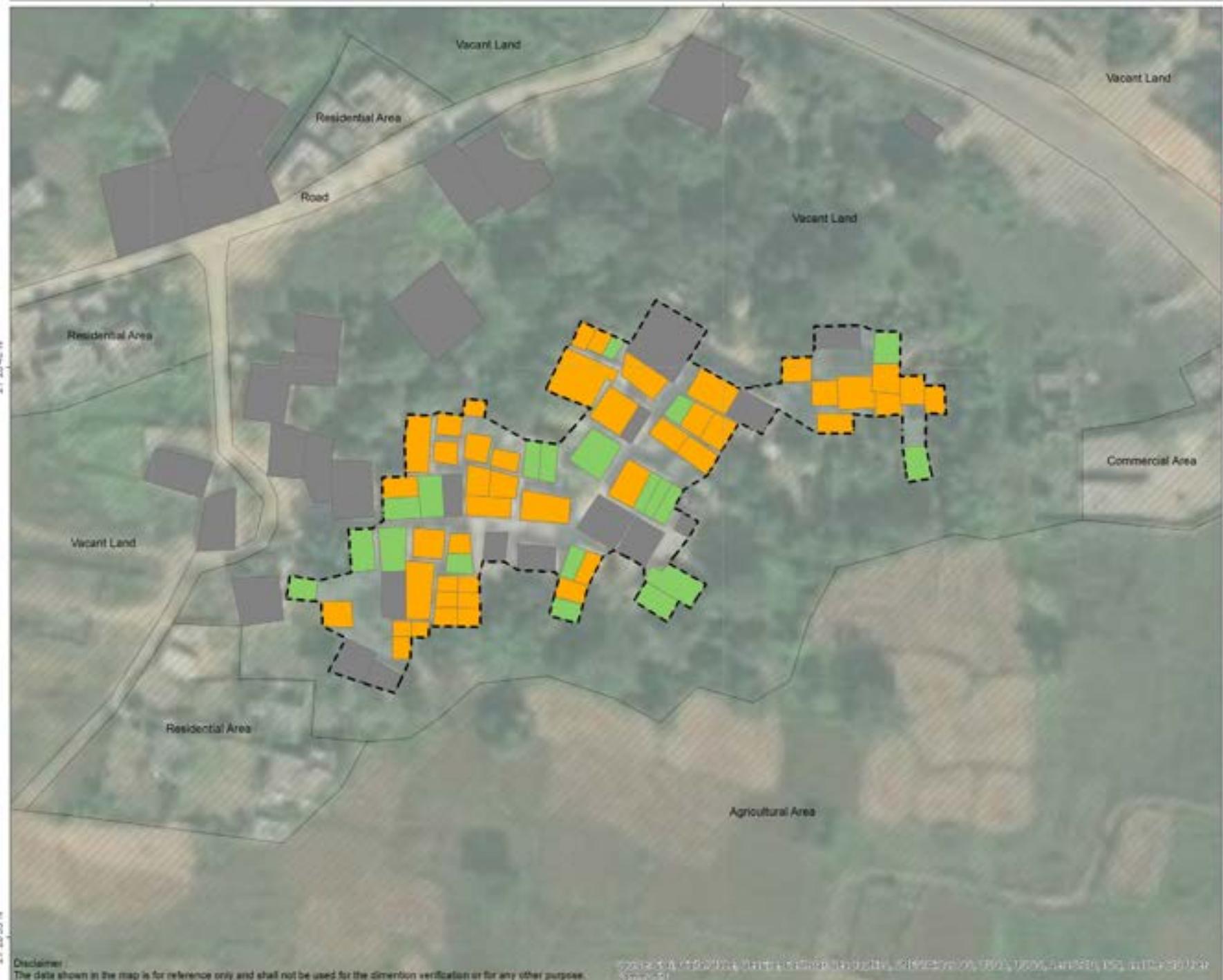
Scale :
 0 10 20 40 60 m

Disclaimer :
 The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

84°00'E

84°05'E



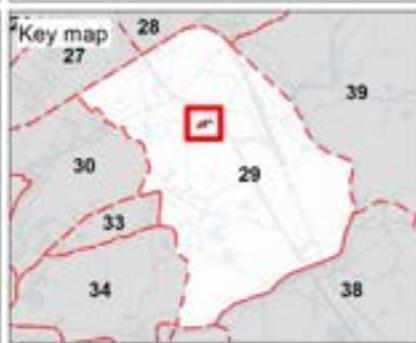
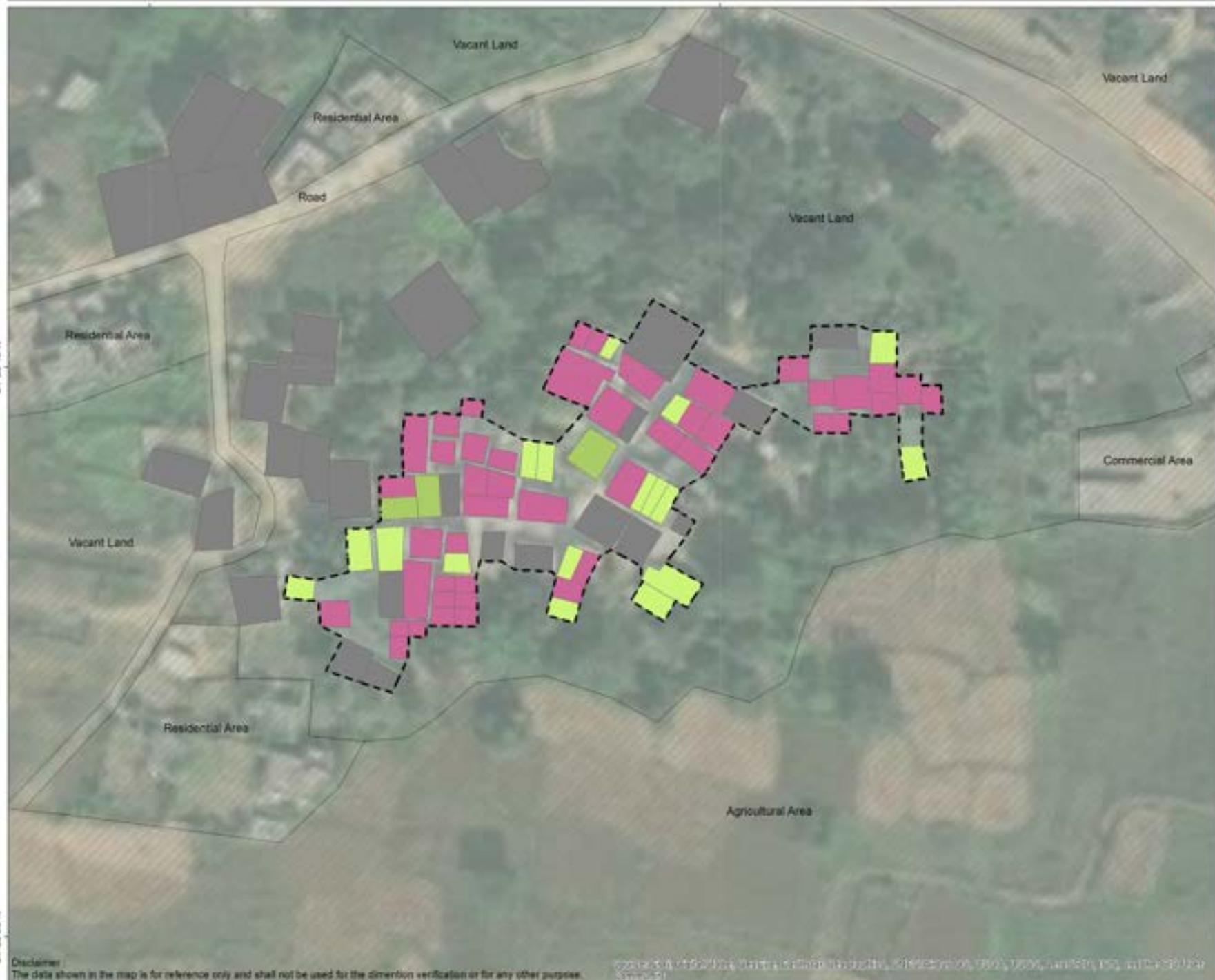

Functionality of IHHL

- [Green Box] Yes
- [Orange Box] No IHHL
- [Grey Box] Other structures
- [Dashed Box] Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale : 0 10 20 40 60 m

N

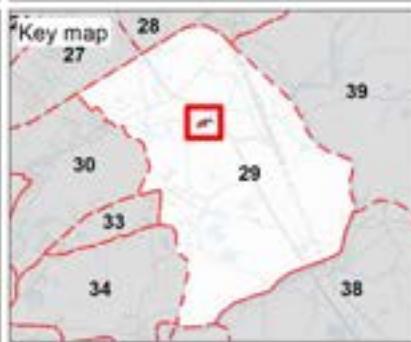
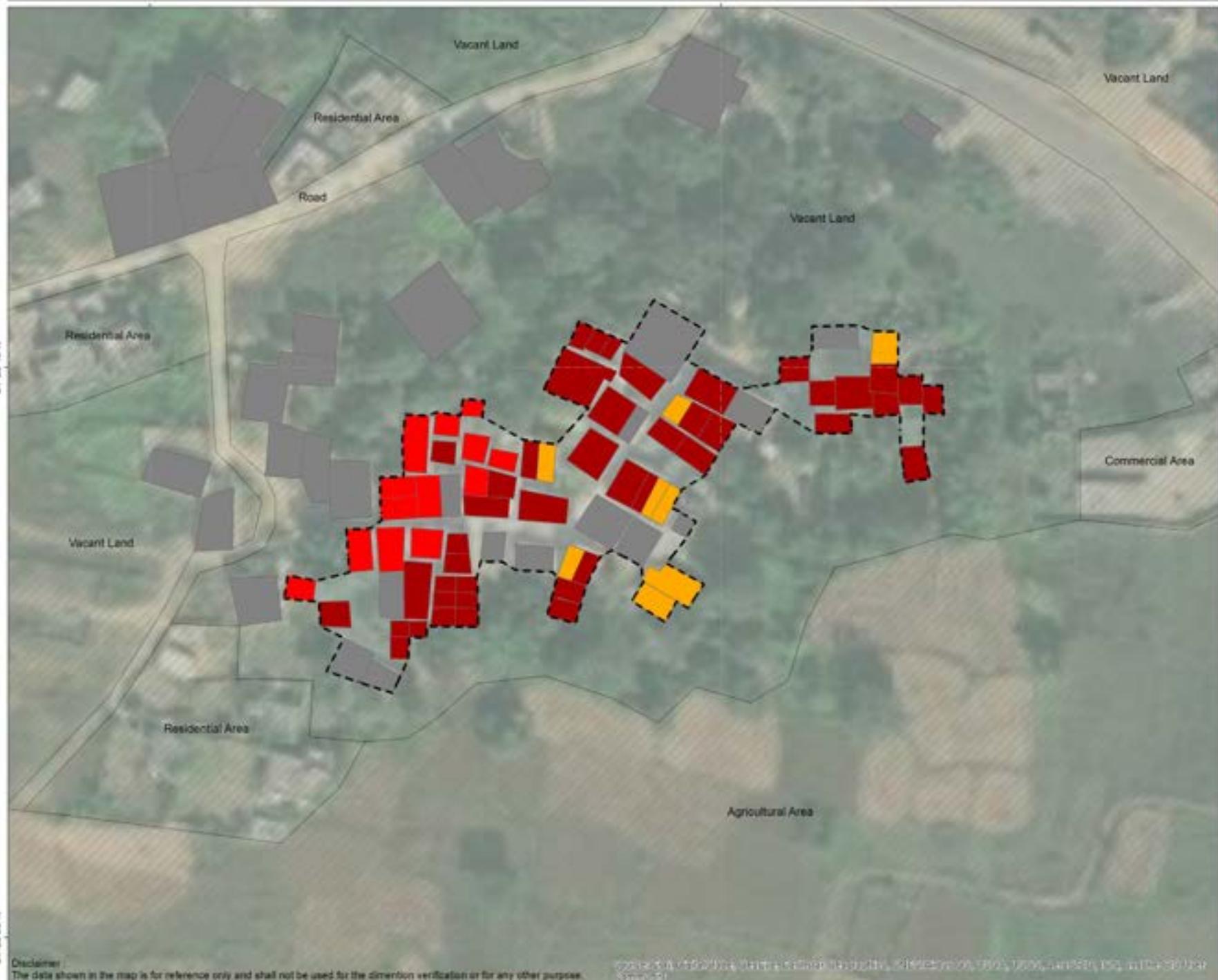


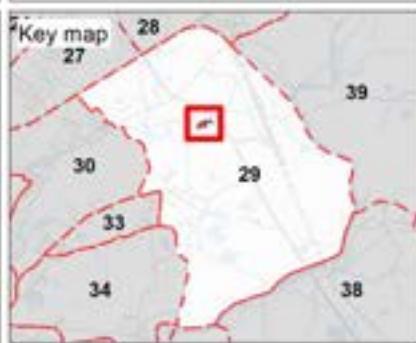
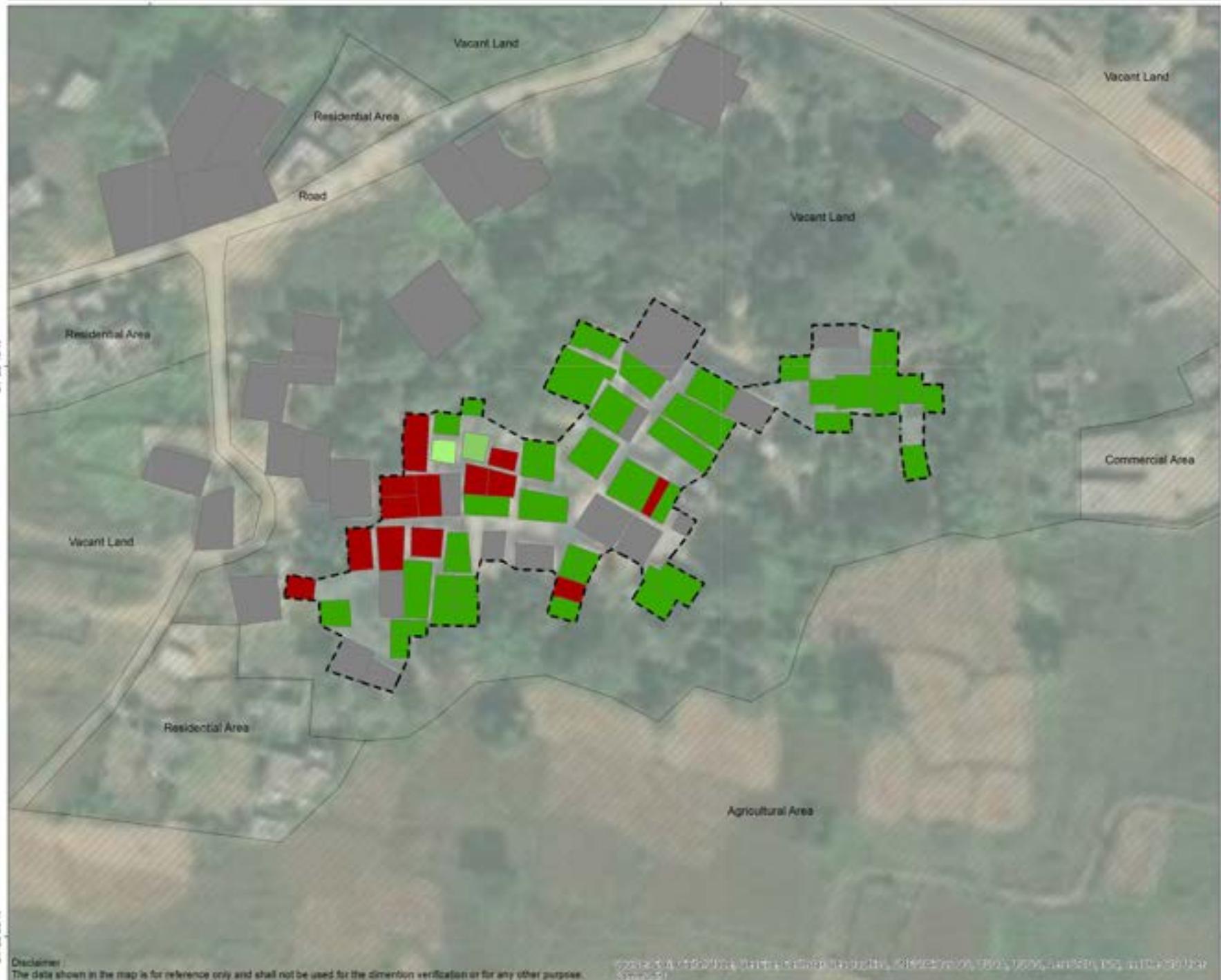
IHHL connected to :

- [Light Green Box] Septic tank
- [Yellow-green Box] Soak pit
- [Pink Box] No IHHL
- [Grey Box] Other structures
- [Dashed Box] Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60 m





Household disposing solid waste to :

- █ D to D service
- D to D service & Handover to municipal waste collector
- D to D service & In open plot
- █ In open plot
- █ Other structures
- Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60 m

77. Sarlakani

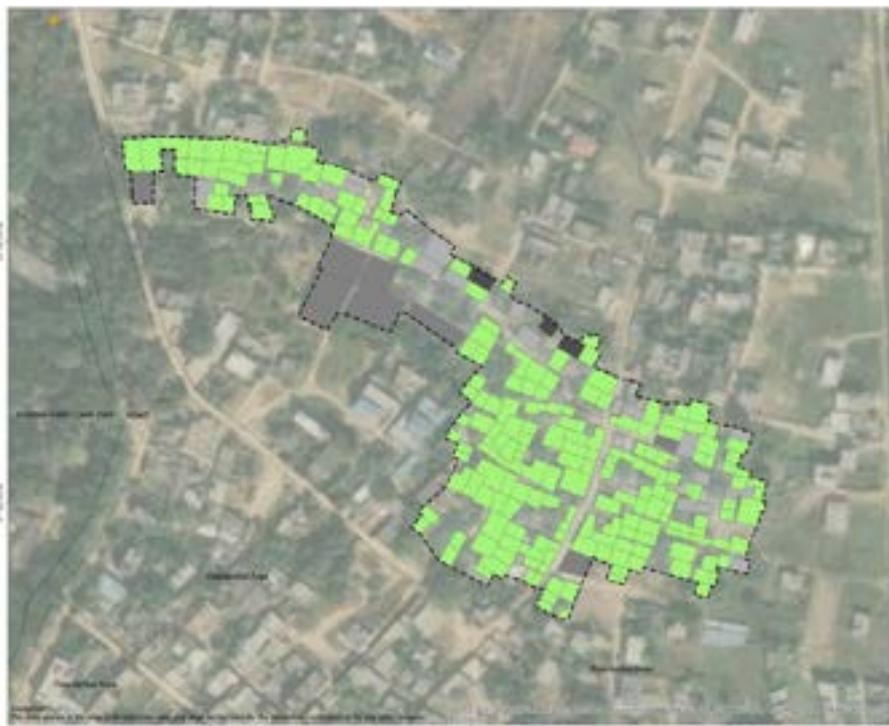
Sambalpur

Slum name
SARLAKANI (GANDHI COLONY)

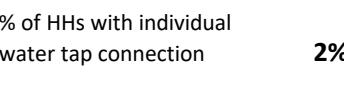
Ward
29

Total number of households in the slum
235

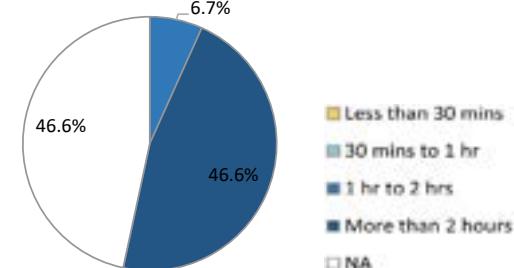
Approximate area of the slum
3.2 ha



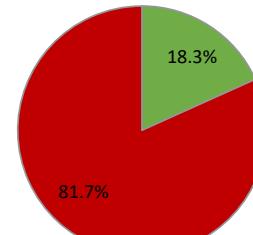
1. Access to municipal water supply

	% of HHs with individual water tap connection 2%
	% of HHs satisfied with the quality of water supplied 100%

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL
38

% of functional IHHLs
95%

Number of PT/CTs near the slum
-

Total number of persons dependent on PT/CTs
-

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water
7%

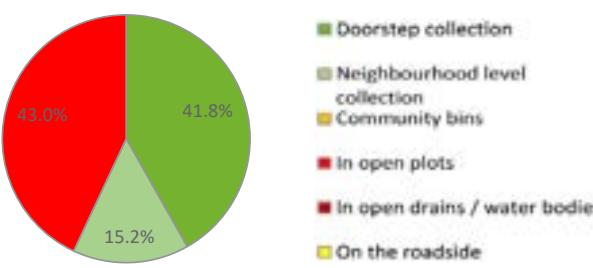
% of IHHLs connected to septic tank/ soak pit/ twin pit
79%

4. Solid waste management system

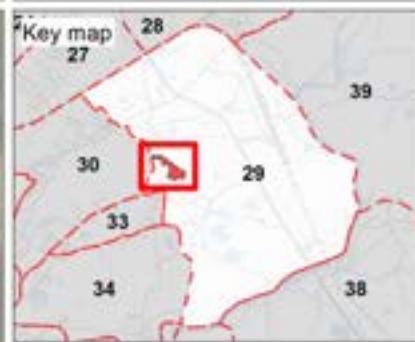
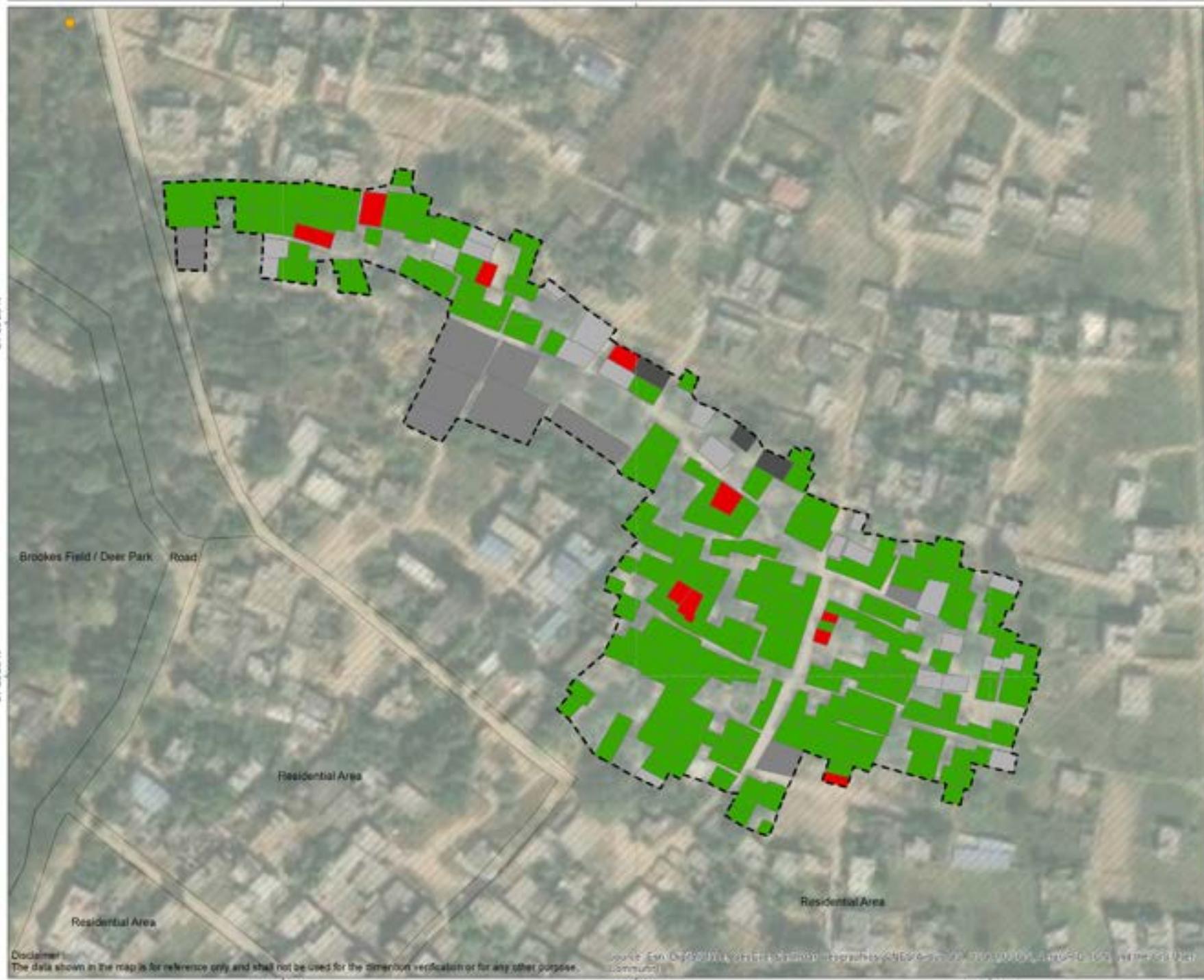


Total waste generation (kg)
257

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet


House ownership

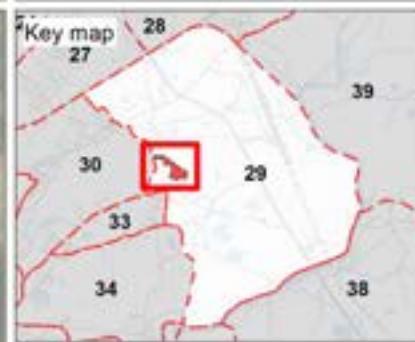
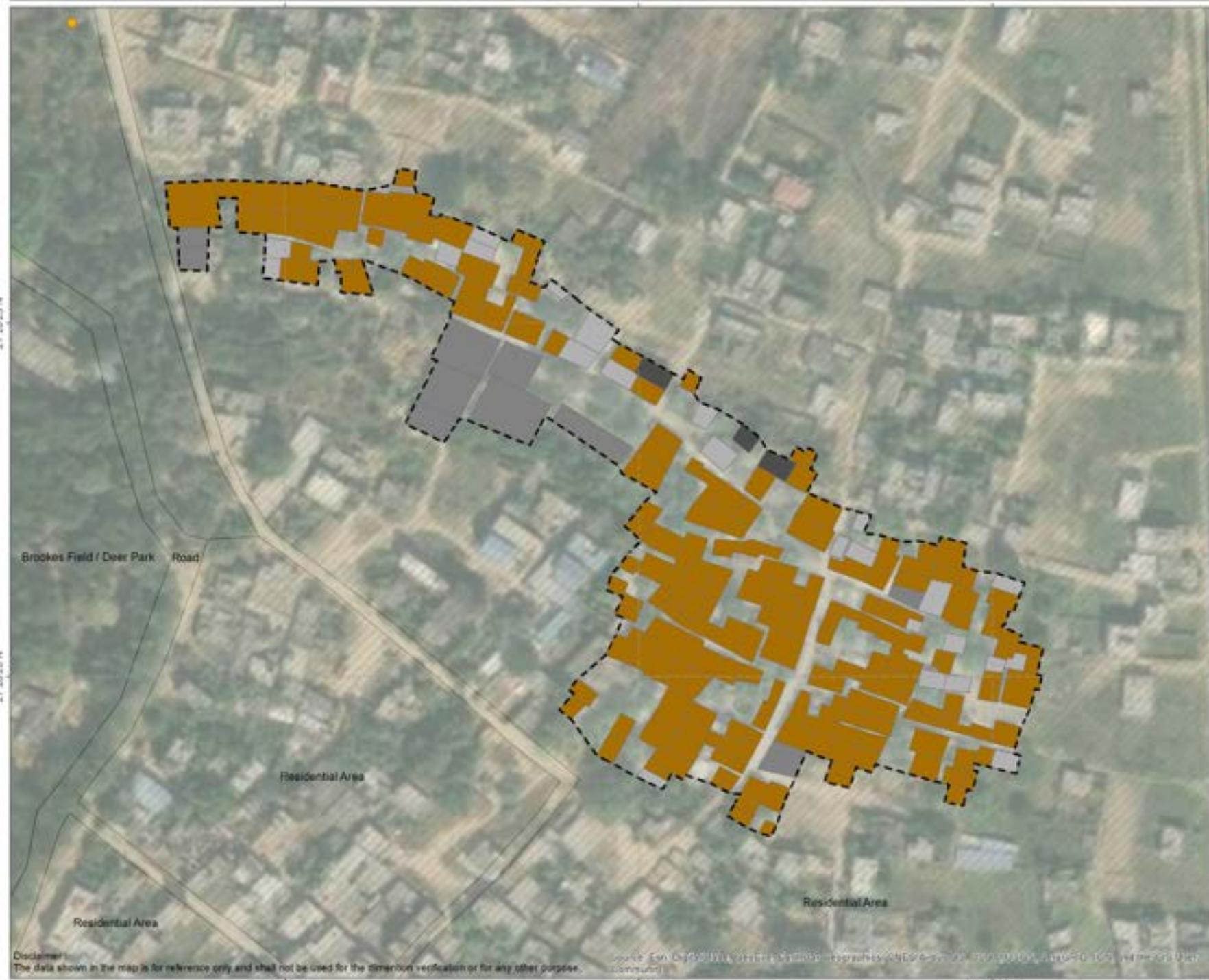
- Owned
- Rented
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

As per the verbal information provided by the respondents.

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
 0 10 20 40 60 80 m





Number of floors in the building

- Ground floor
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
 0 10 20 40 60 80 m





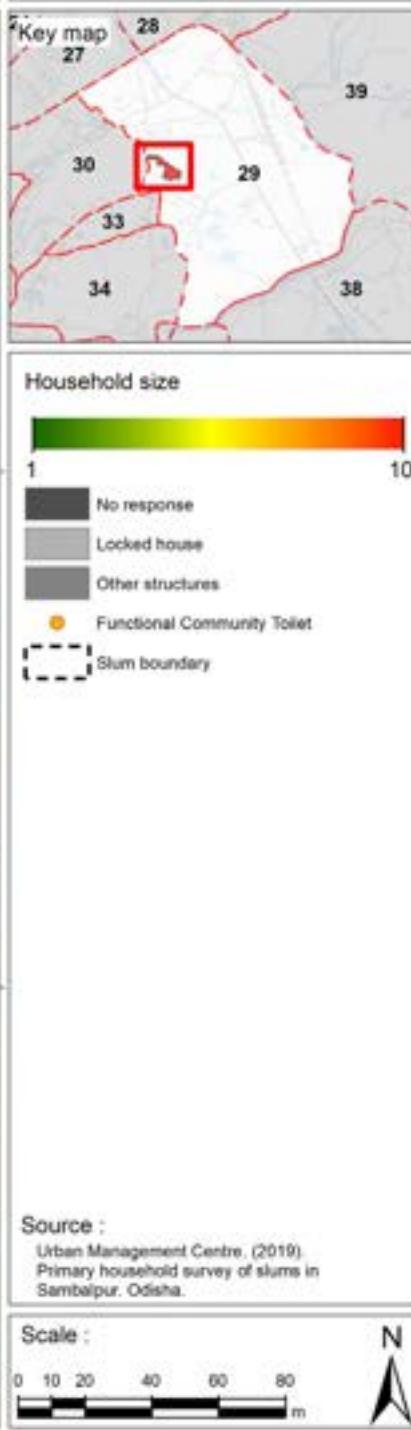
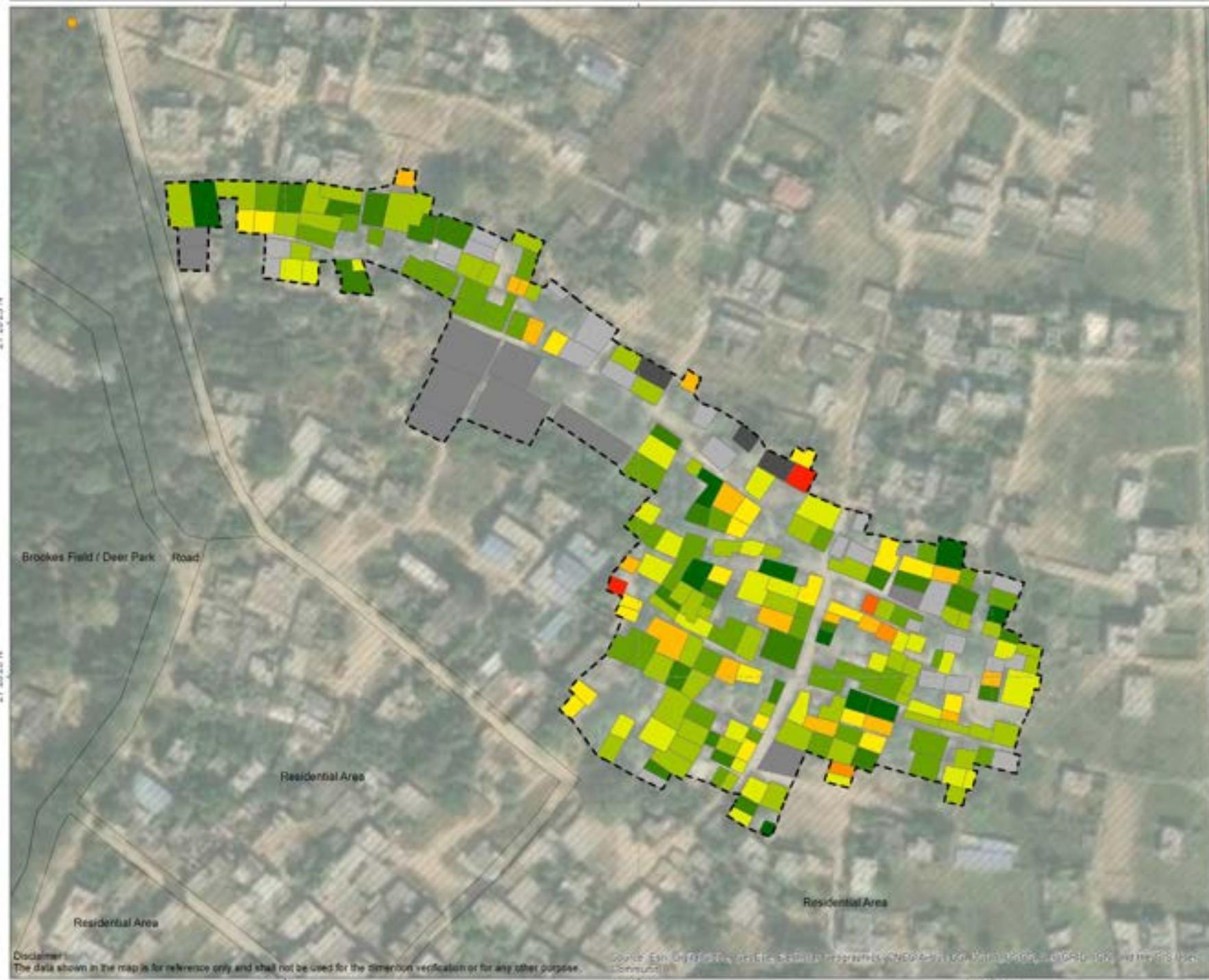
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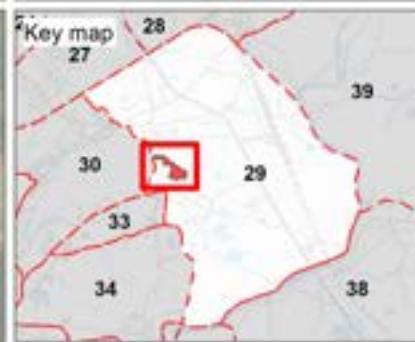
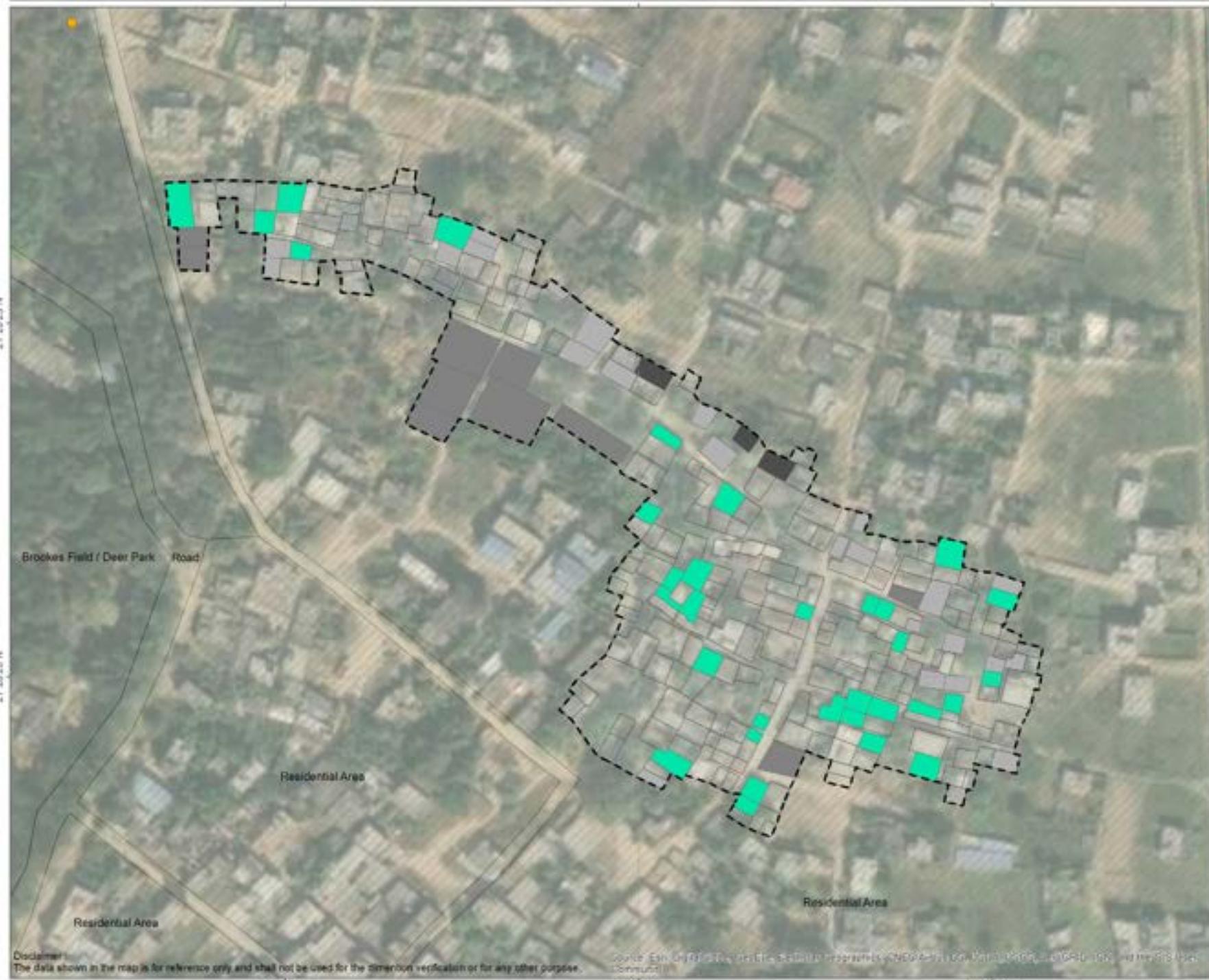


UMC
URBAN MANAGEMENT CENTER

Sambalpur

Sariakani (Ward No. 29)



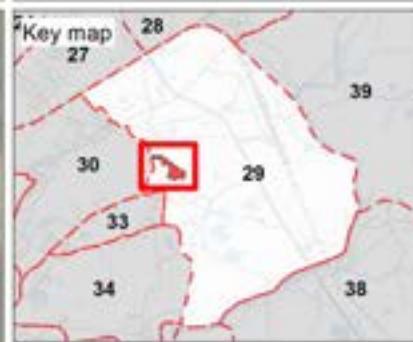
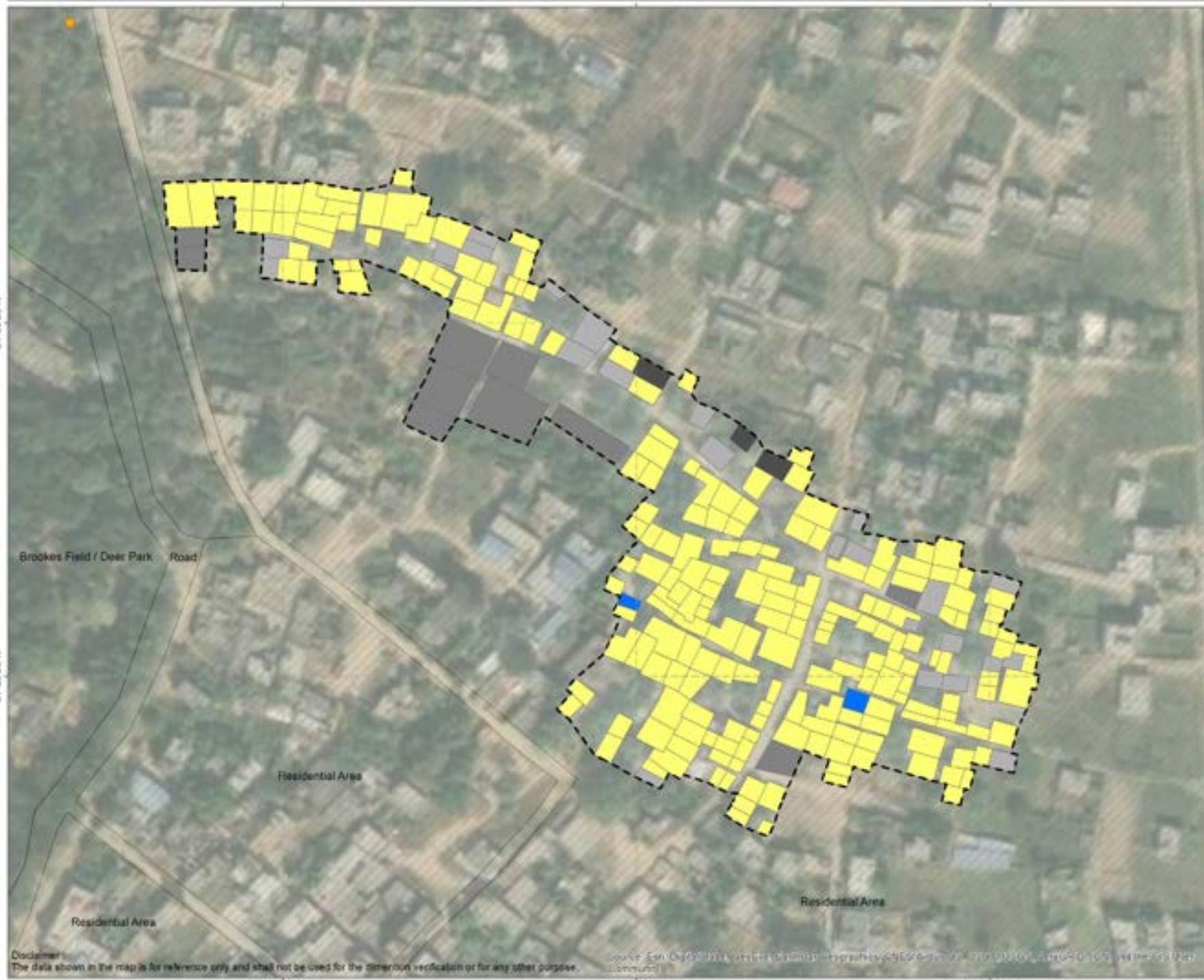

Elderly citizen

- HH have elderly citizen
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :

 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :

Household with PWD*

- Yes
- No
- No response
- Locked house
- Other structures
- Functional Community Toilet

Dashed box: Slum boundary

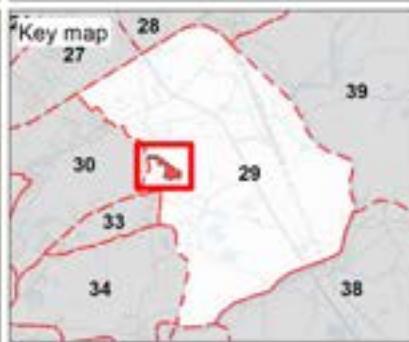
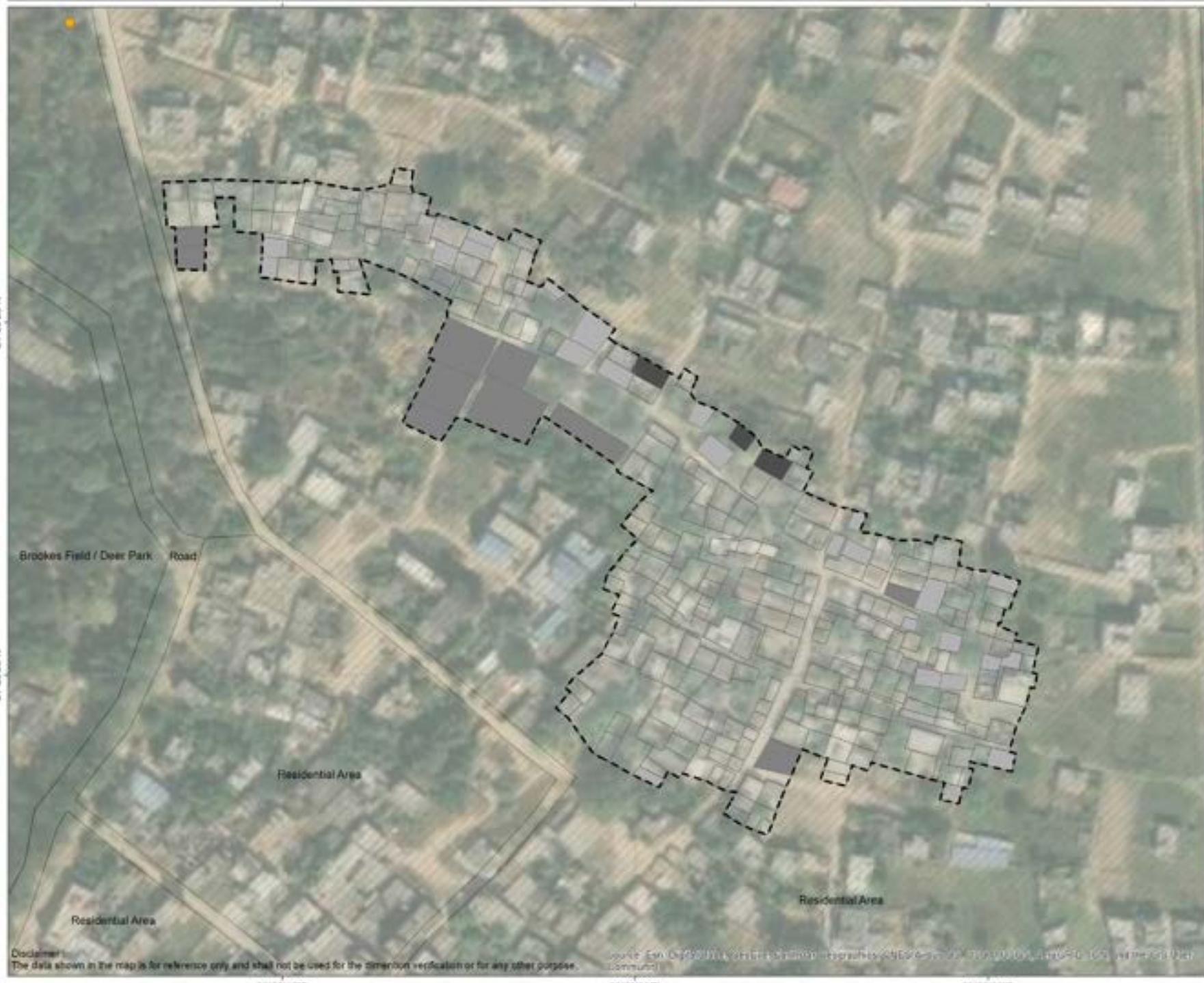
* Person with Disabilities

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :

0 10 20 40 60 80
m

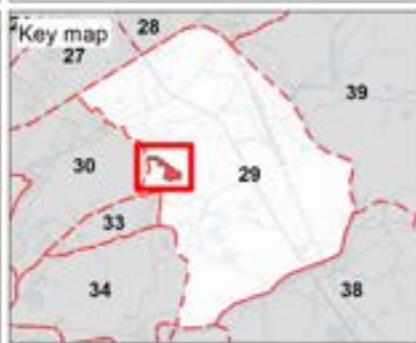
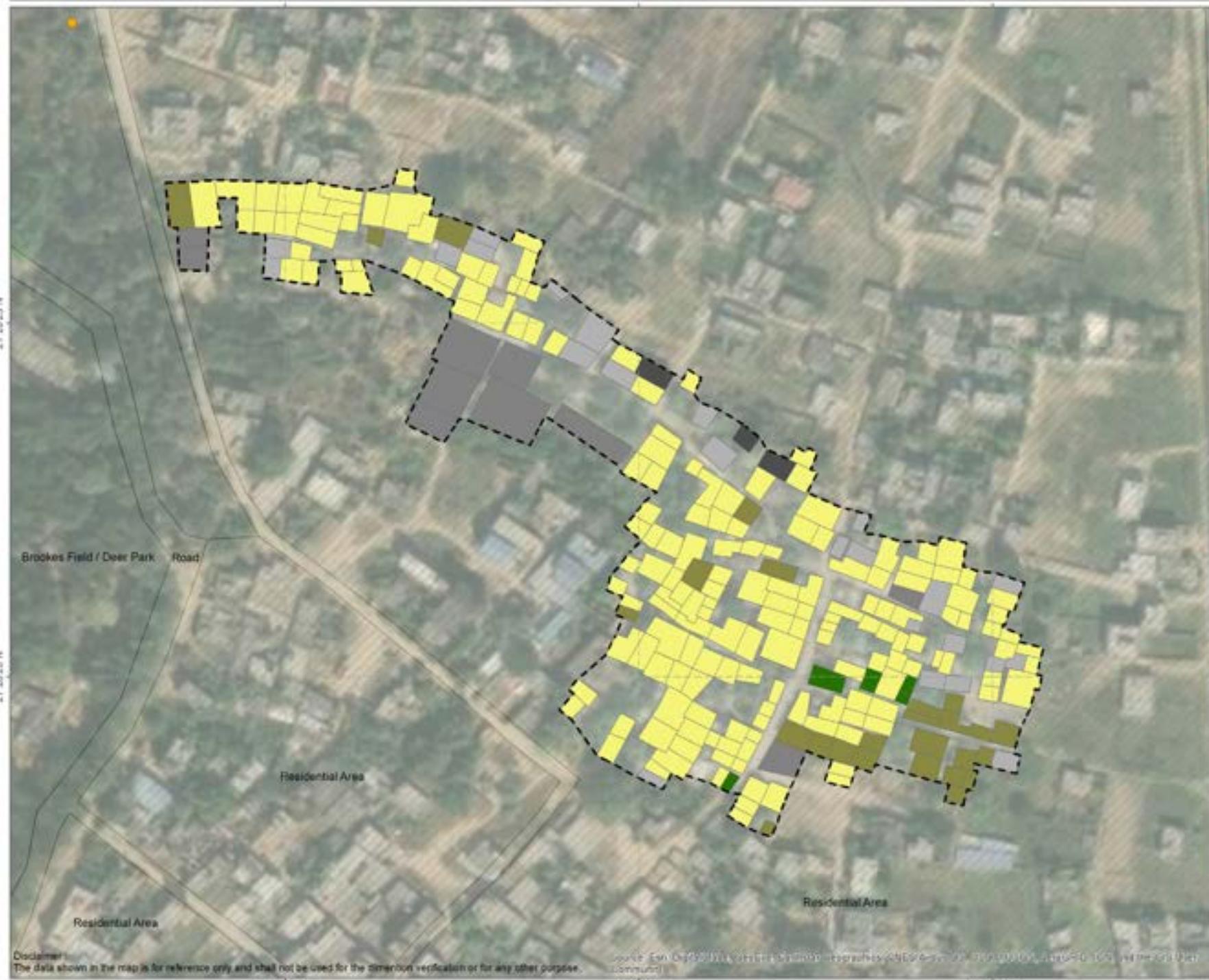



Household part of SHG

- No
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Scale :
 0 10 20 40 60 80 m





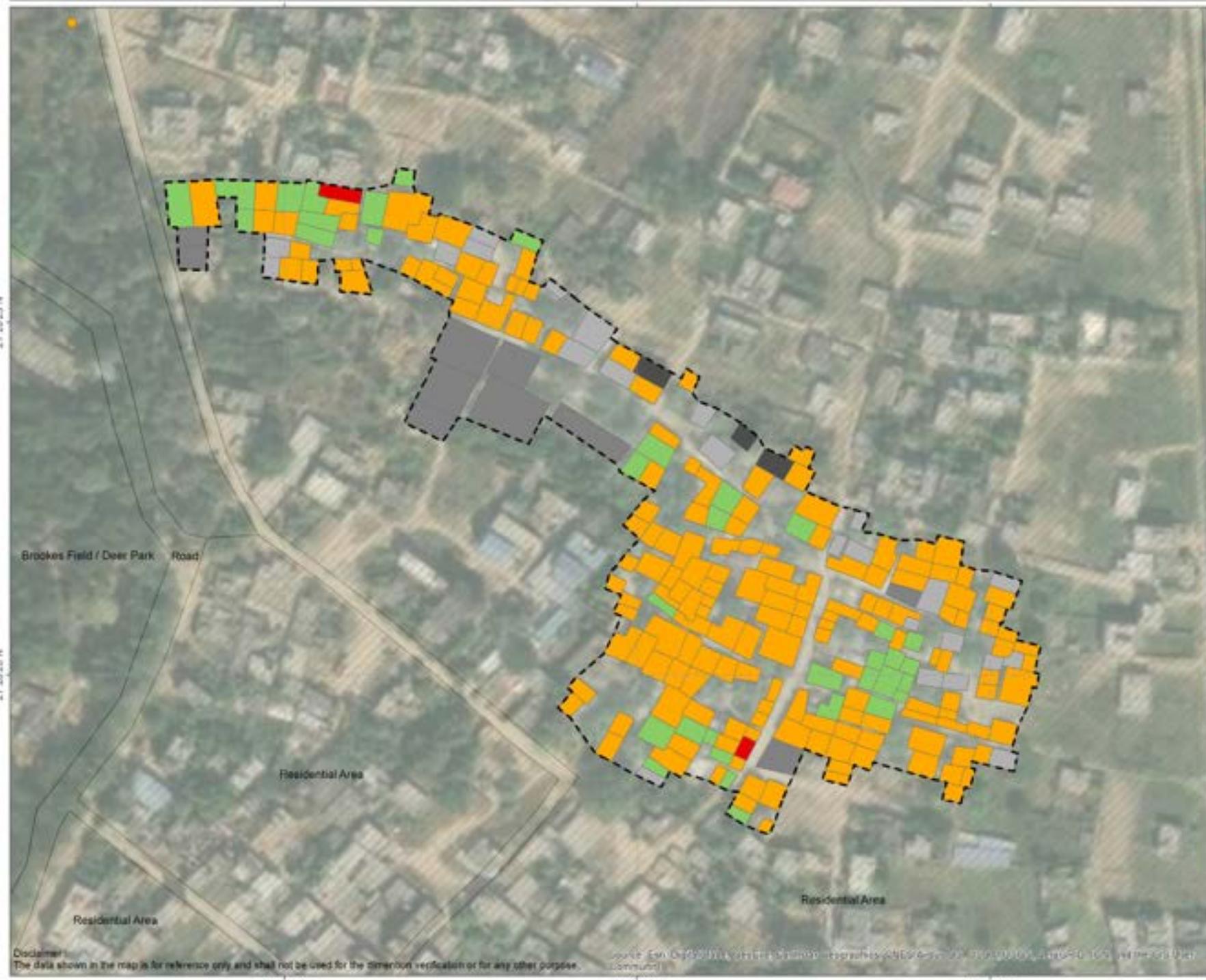
Source of water in household

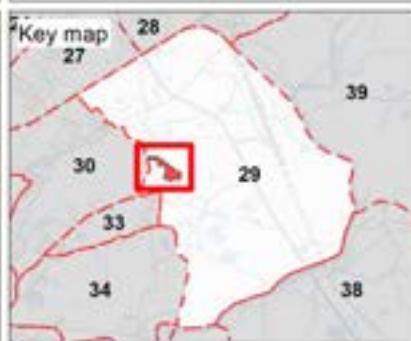
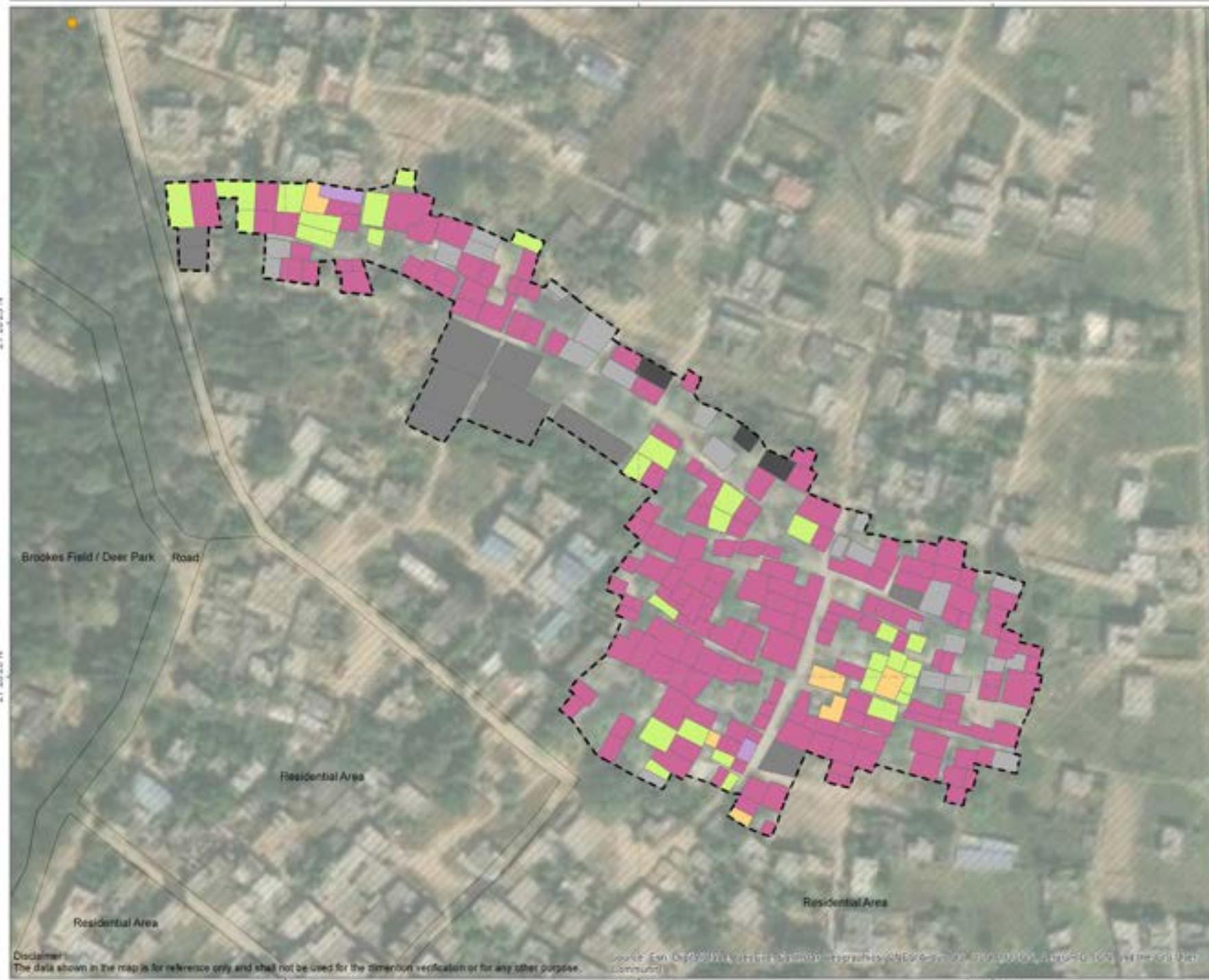
- Tap connection at home
- Stand post
- Hand pump
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur. Odisha.

Scale :
 0 10 20 40 60 80 m







IHHL connected to :

- Soak pit
- Open drain
- Non-Functional IHHL
- No IHHL
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur. Odisha.

Scale :
 0 10 20 40 60 80 m

Disclaimer:

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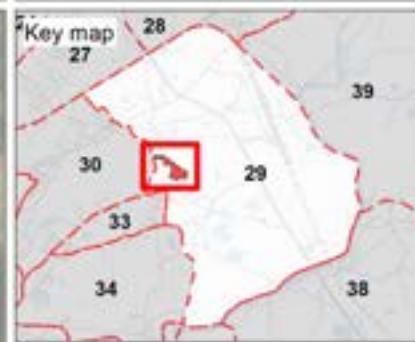
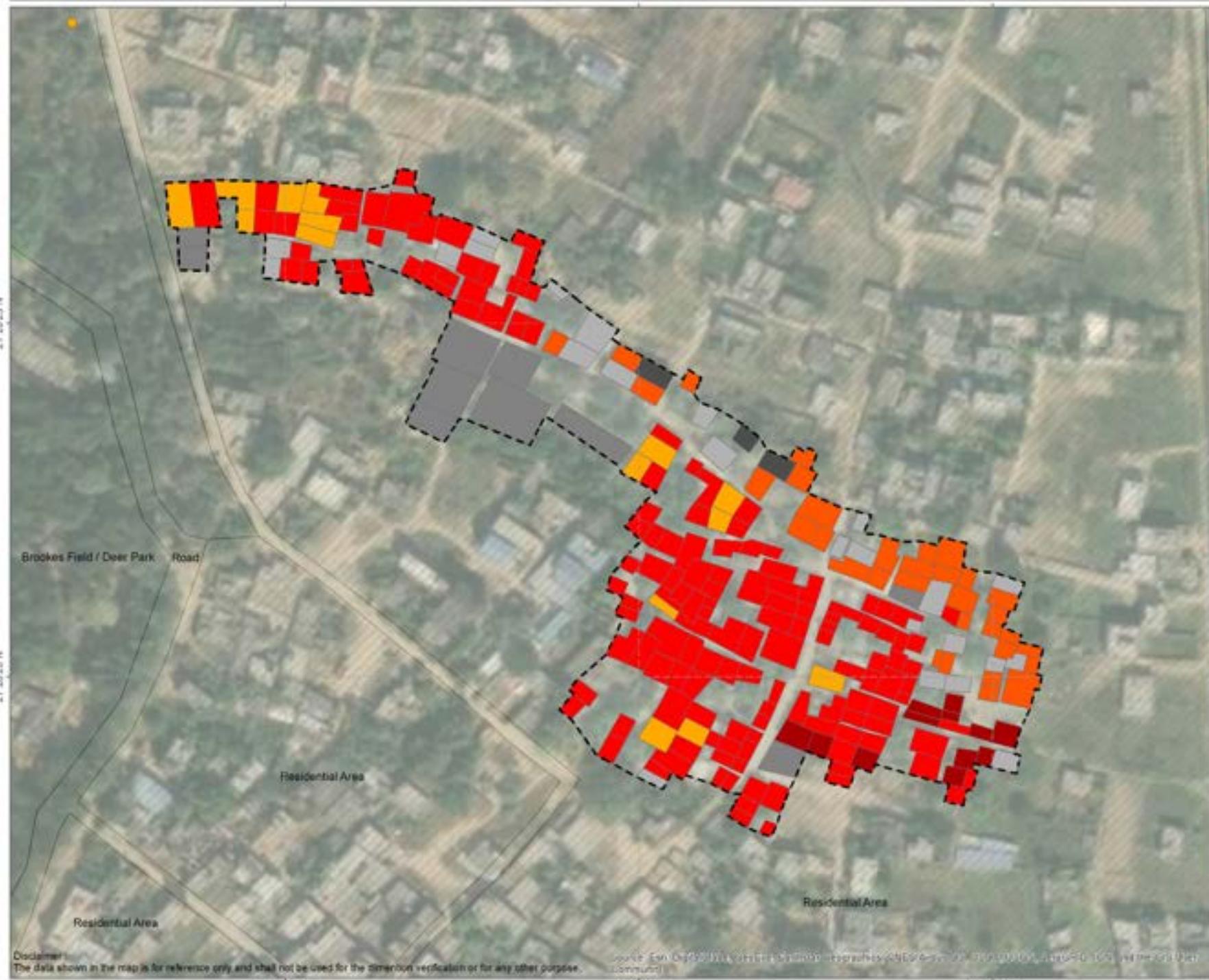
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

83°58'45.0"E

83°59'50.0"E

83°59'55.0"E





Grey water disposed to :

- Single pit
- Open drain
- Open plot
- Water is let out on streets
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
 0 10 20 40 60 80 m

Disclaimer:

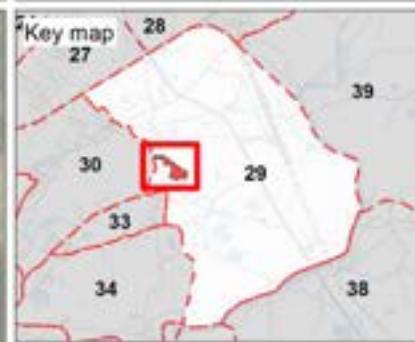
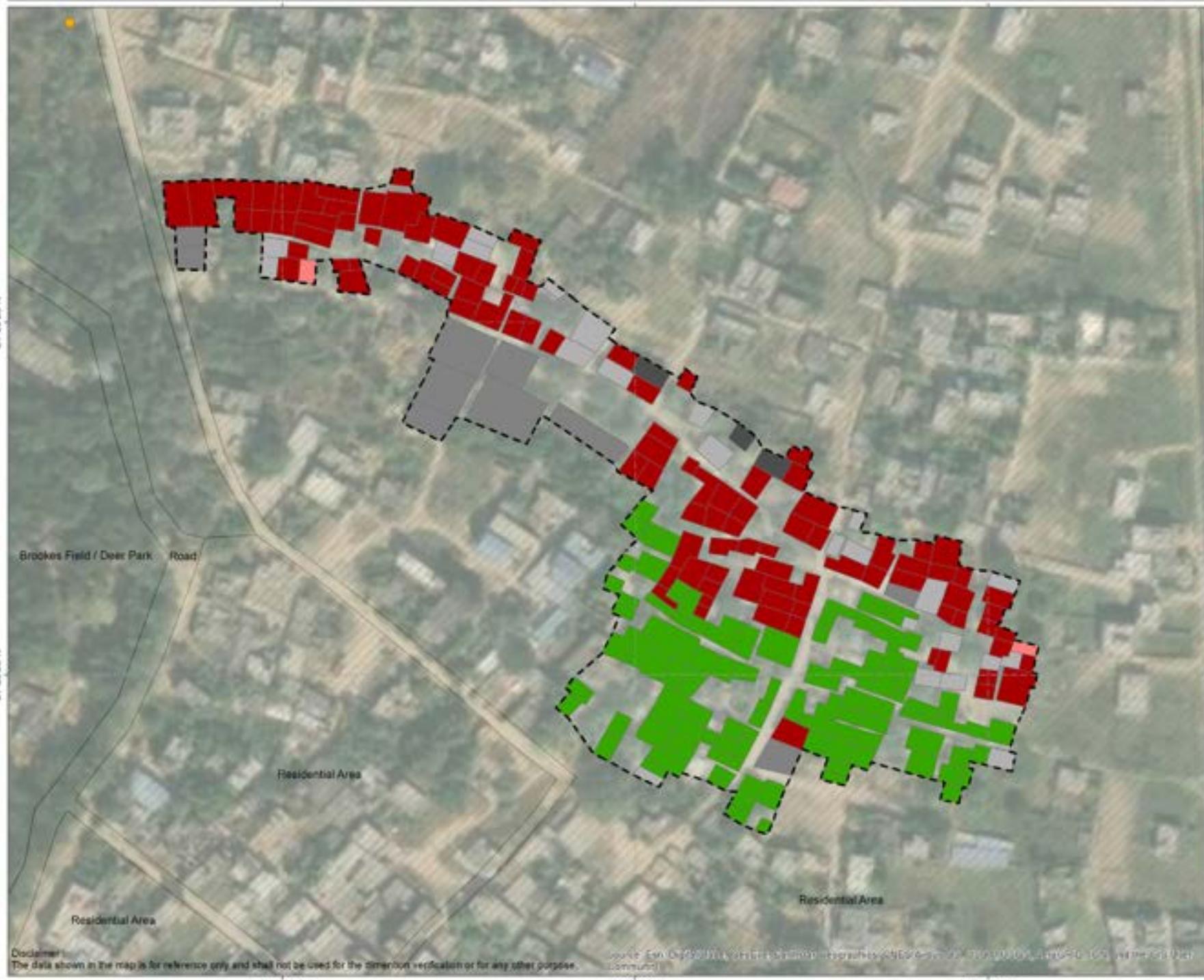
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

83°58'45"E

83°59'50"E

83°59'55"E

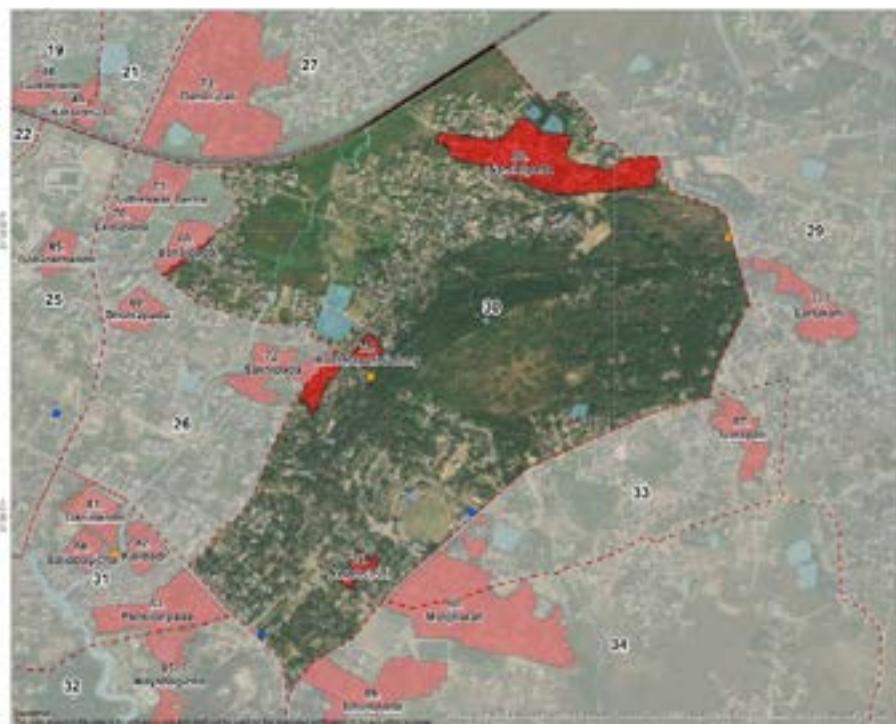




Ward - 30

Sambalpur

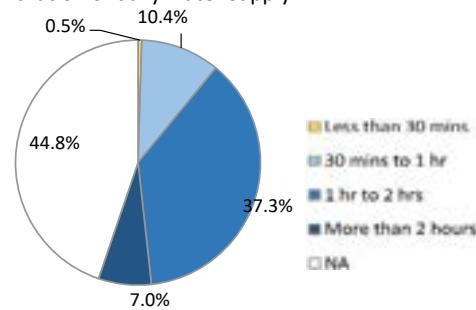
Ward name
30



1. Access to municipal water supply

	% of HHs with individual water tap connection	17%
	% of HHs satisfied with the quality of water supplied	97%

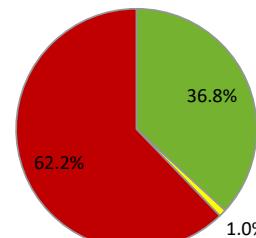
Duration of daily water supply



Number of slums
3

Total number of households in slums
218

2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL

74

% of functional IHHLs

100%

Number of PT/CTs near the slum

1

Total number of persons dependent on PT/CTs

-

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

-

% of IHHLs connected to septic tank/ soak pit/ twin pit

82%

% of HHs connected with safe disposal system for grey water

36%

4. Solid waste management system



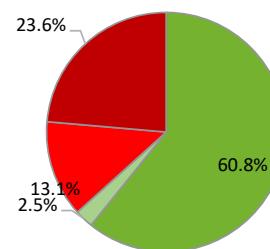
Total waste generation (kg)

258

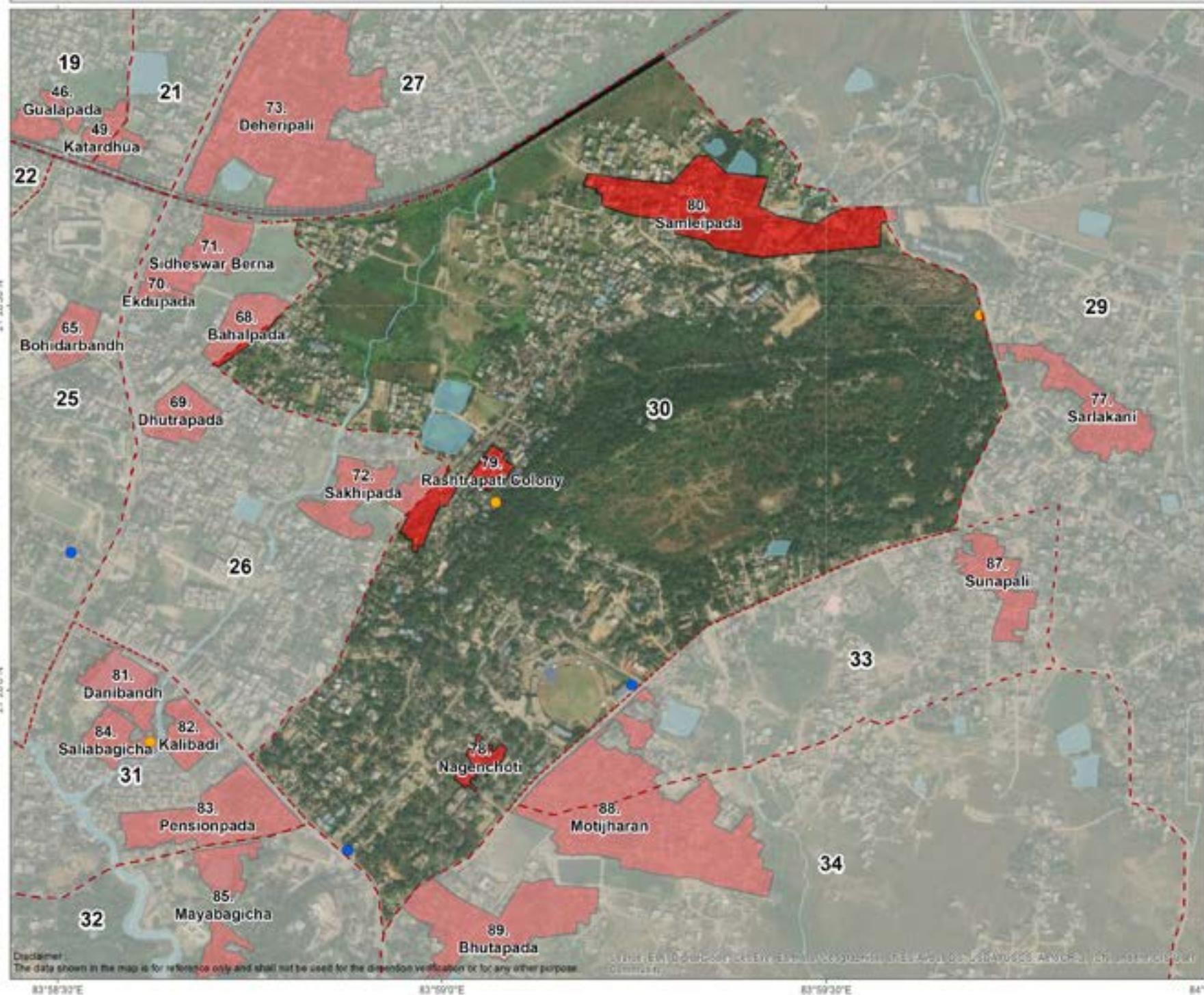
% of HHs segregating waste

16%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet


Base layers

- Functional Community Toilet
- Functional Public Toilet
- Slum
- National highway
- State highway
- |||| Railway line
- Waterbody
- Ward boundary
- SMC boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
 0 125 250 500 m



78. Nagenchoti

Sambalpur

Slum name

NAGENCHOTI

Ward

30

Total number of households in the slum

44

Approximate area of the slum

0.6 ha

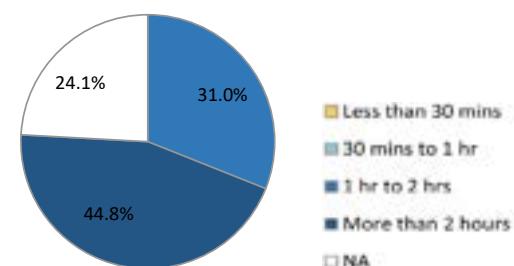


1. Access to municipal water supply

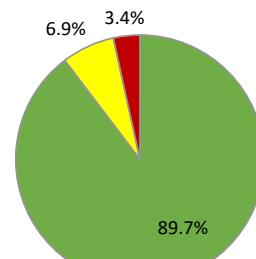
 % of HHs with individual water tap connection **76%**

% of HHs satisfied with the quality of water supplied **100%**

Duration of daily water supply



2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit

69%

% of HHs connected with safe disposal system for grey water

4. Solid waste management system



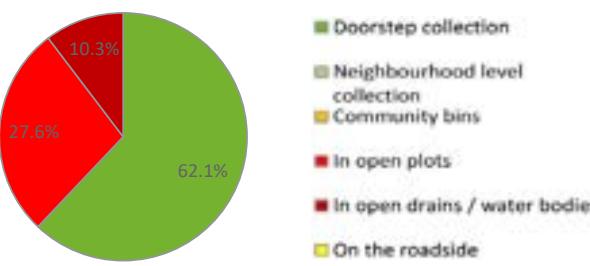
Total waste generation (kg)

38

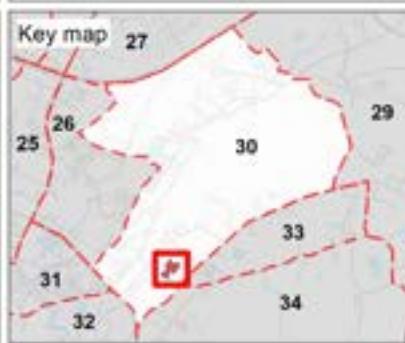
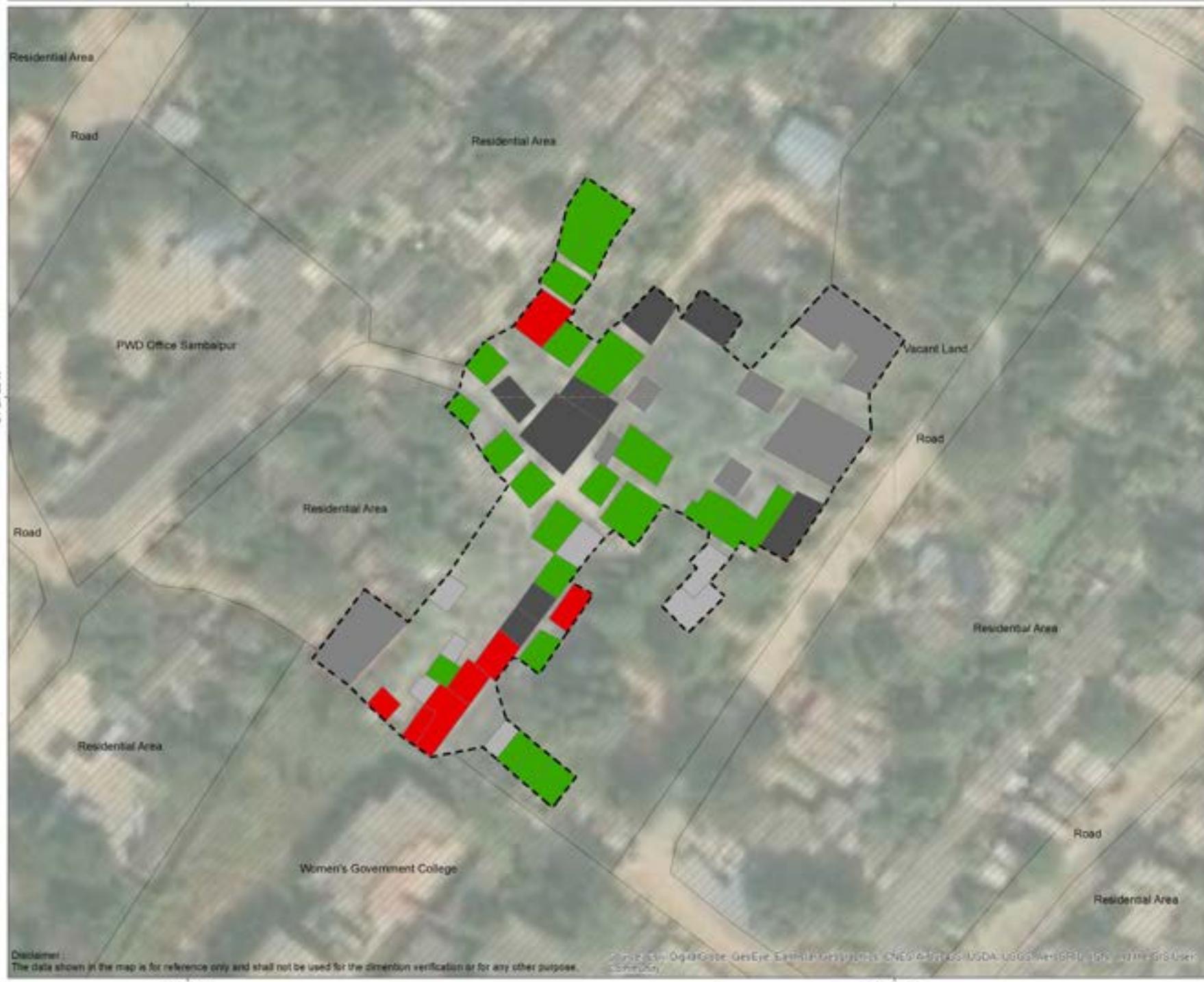
% of HHs segregating waste

7%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet


House ownership

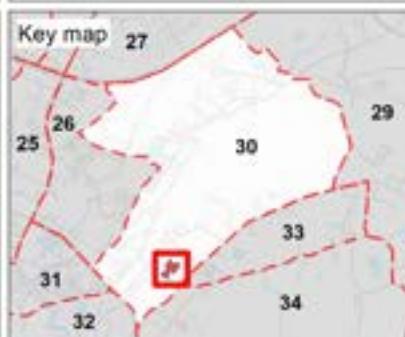
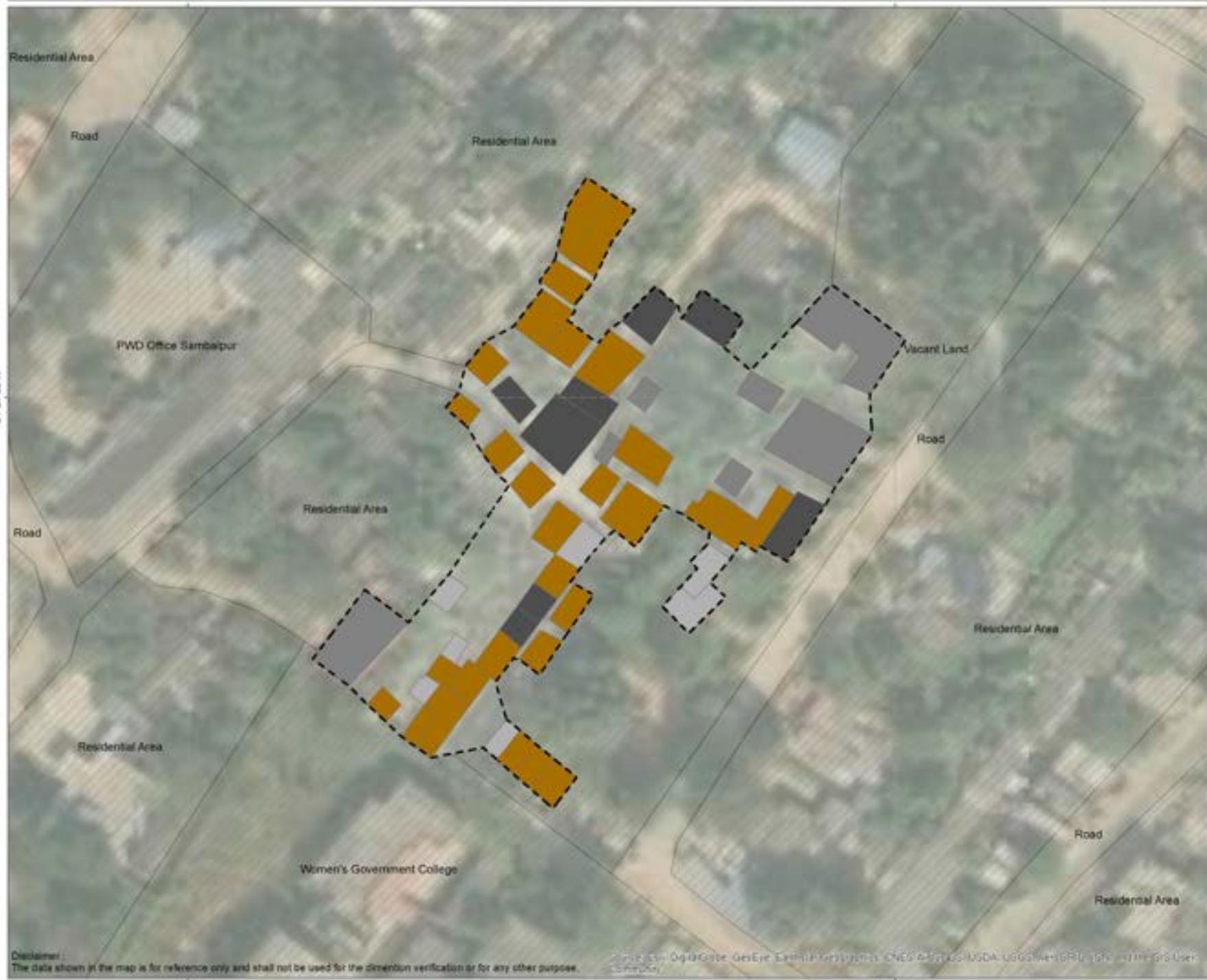
- Owned
- Rented
- No response
- Locked house
- Other structures
- Slum boundary

As per the verbal information provided by the respondents.

Source :
 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :





Number of floors in the building

- Ground floor
- No response
- Locked house
- Other structures
- Slum boundary

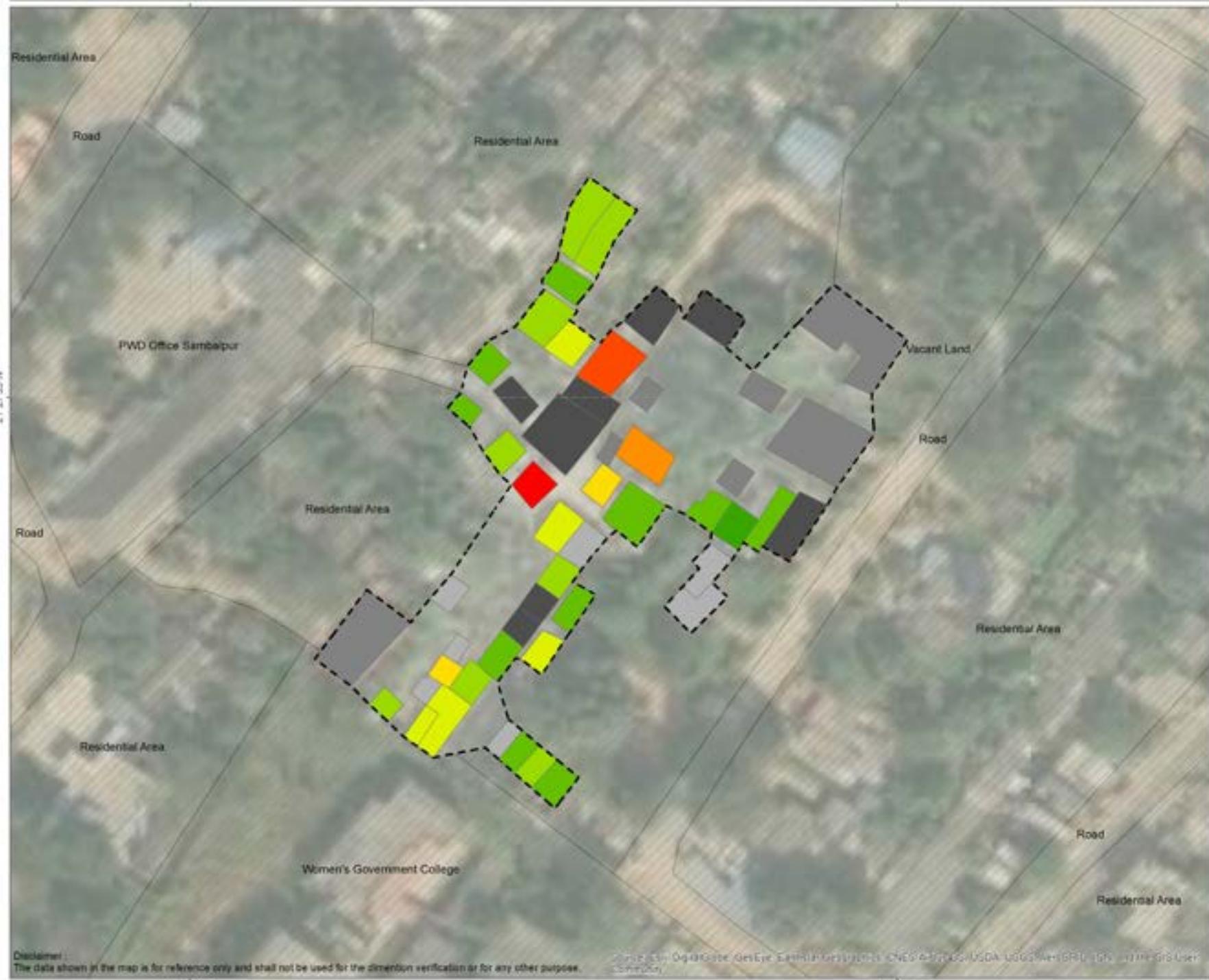
Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 m

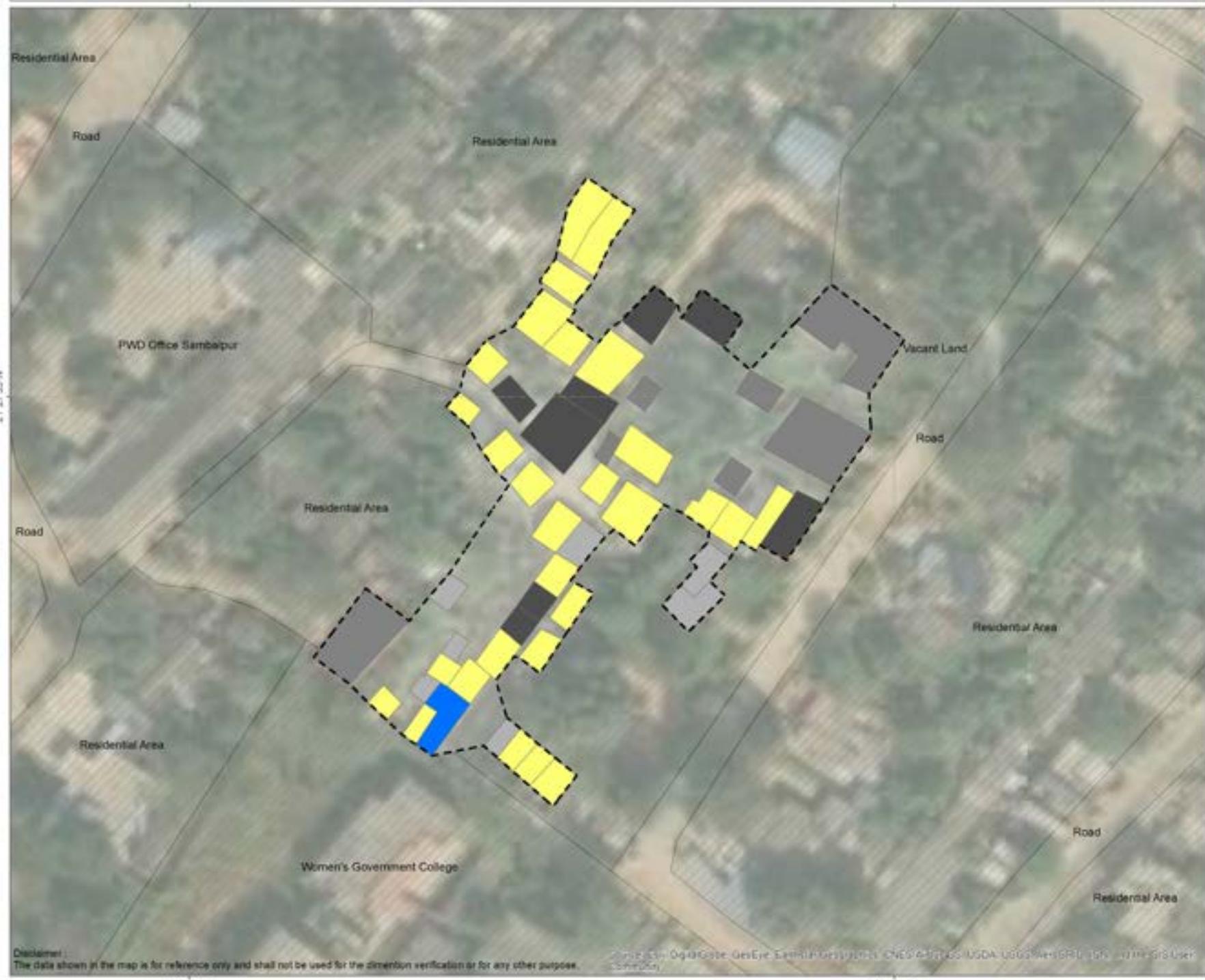
Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Digitized by Geospatial Earth Observation System, CSE, IIT-BHU, USGS, USGS-AFSC, USGS-NGA, ISRO, USGS-NGRDI, USGS-NGRDI User











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UMC
Urban Management Centre

Sambalpur

Nagenchoti (Ward No. 30)



Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale

A horizontal scale with numerical markings at 0, 10, 20, and 40. A solid black horizontal bar starts at the 0 mark and extends to approximately the 28 mark.



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.





M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
Urban Management Centre

Sambalpur

Nagenchoti (Ward No. 30)

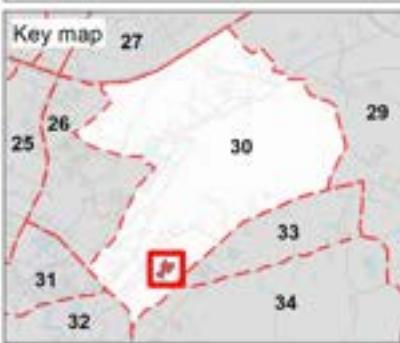
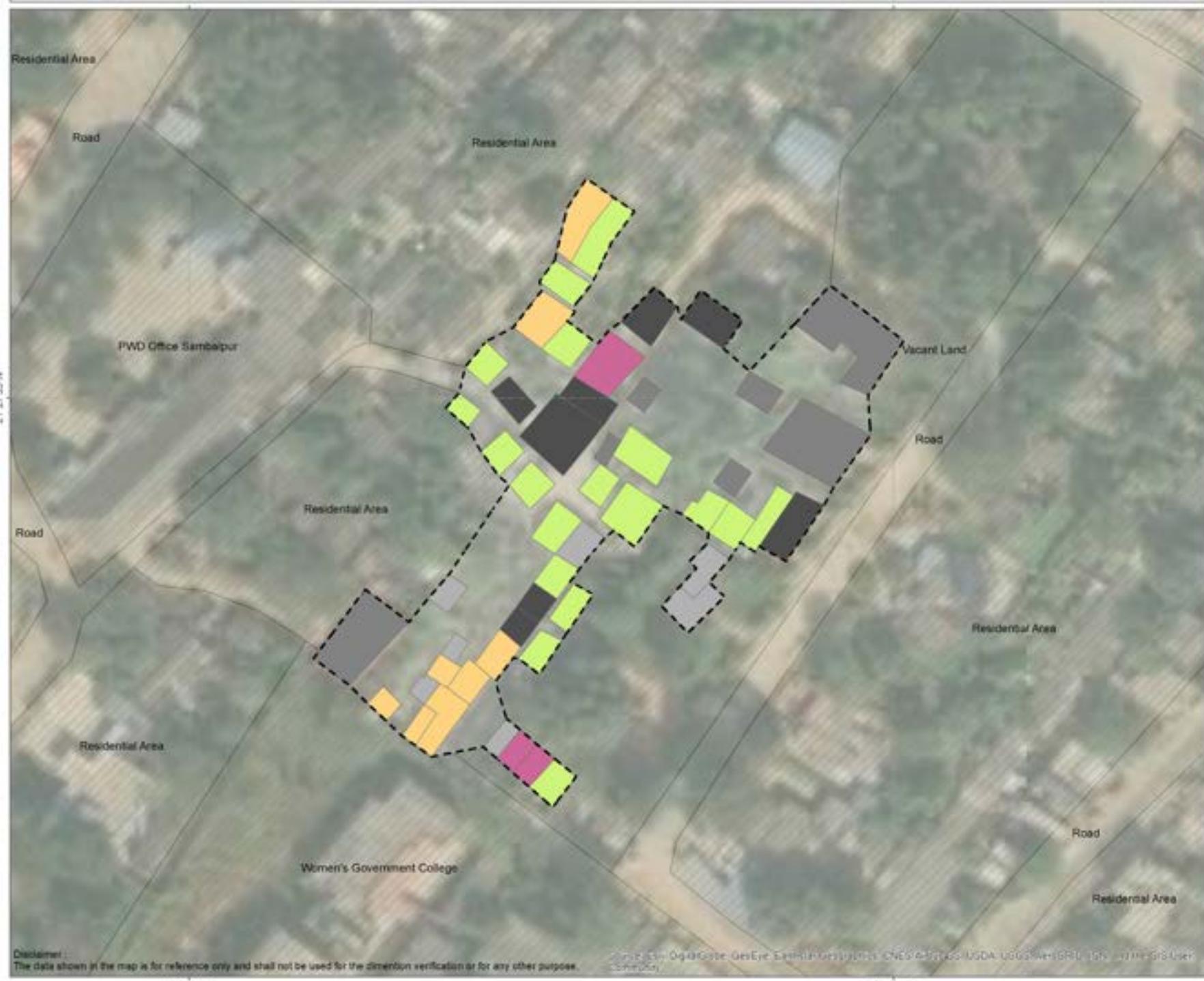


Source :
Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.





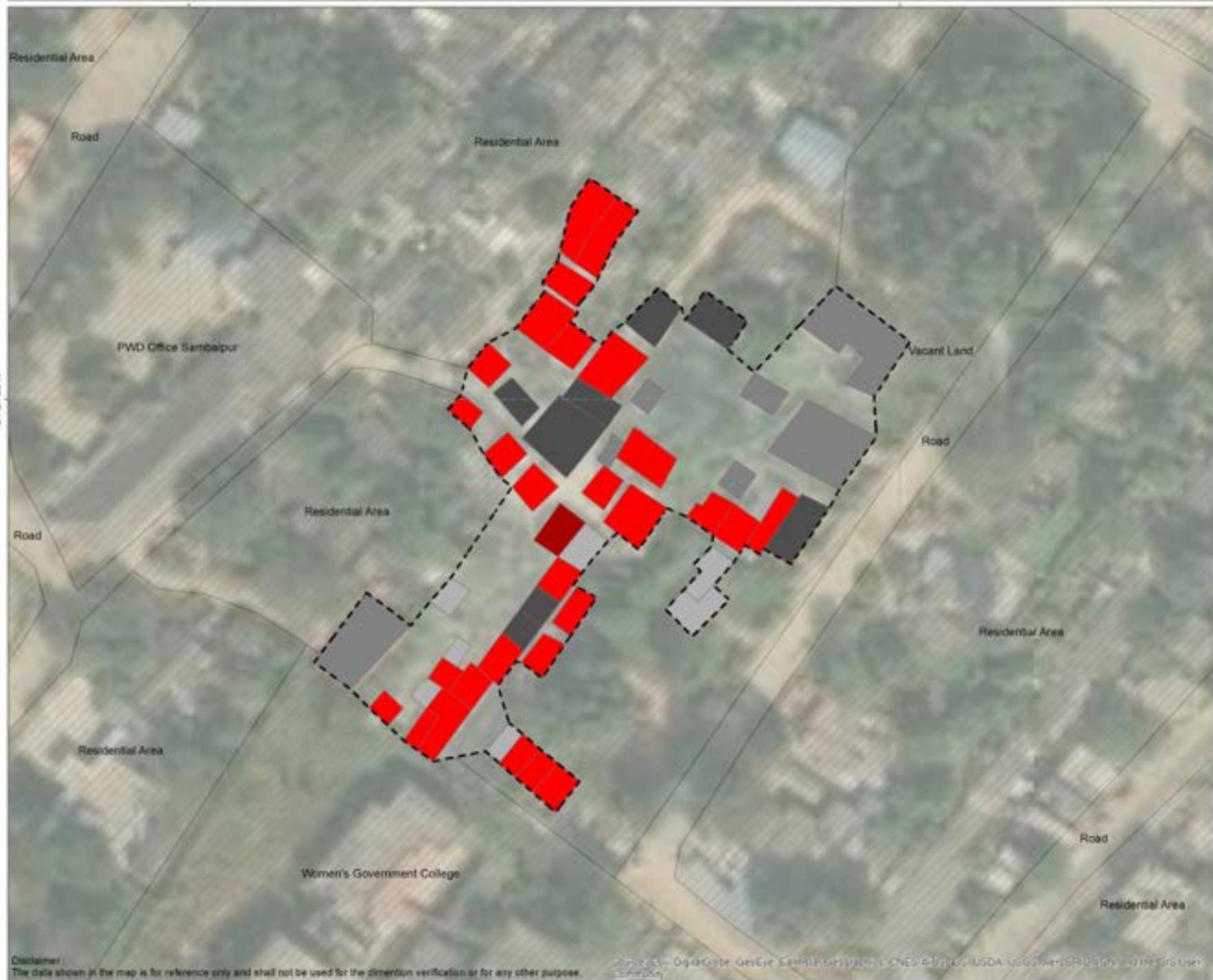
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
Urban Management Centre

Sambalpur

Nagenchoti (Ward No. 30)



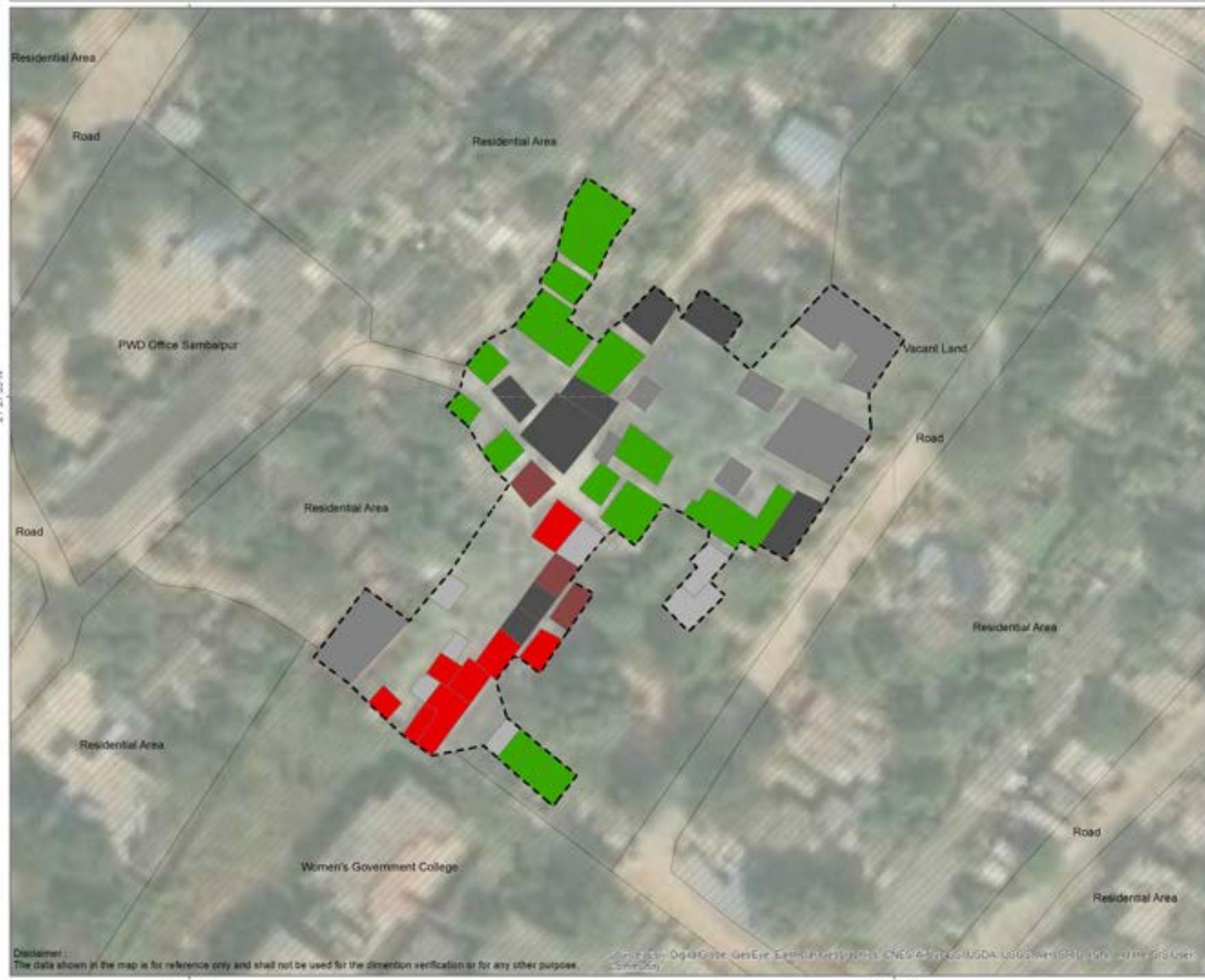
Source :
Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

A horizontal scale with numerical markings at 0, 10, 20, and 40. A thick black horizontal bar is positioned such that its left end aligns with the 10 mark and its right end aligns with the 40 mark, indicating a value of approximately 25.



79. Rashtrapati Colony

Sambalpur

Slum name

RASHTRAPATII COLONY

Ward

30

Total number of households in the slum

47

Approximate area of the slum

0.7 ha



1. Access to municipal water supply



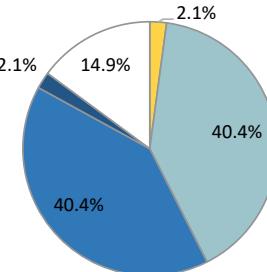
% of HHs with individual water tap connection

23%

% of HHs satisfied with the quality of water supplied

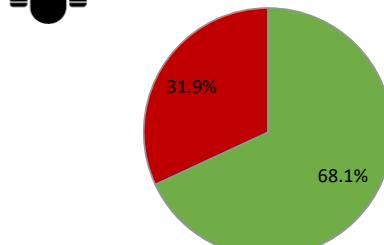
98%

Duration of daily water supply



- Less than 30 mins
- 30 mins to 1 hr
- 1 hr to 2 hrs
- More than 2 hours
- NA

2. Access to toilets



- IHHL
- Shared toilet
- PT/CT
- No access to toilet

Number of HHs having IHHL

32

% of functional IHHLs

100%

Number of PT/CTs near the slum

1

Total number of persons dependent on PT/CTs

-

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

-

% of IHHLs connected to septic tank/ soak pit/ twin pit

84%

% of HHs connected with safe disposal system for grey water

43%

4. Solid waste management system



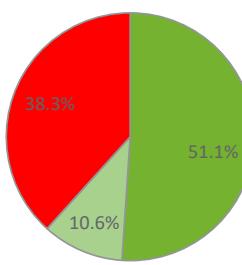
Total waste generation (kg)

53

% of HHs segregating waste

17%

Method of HH waste disposal



- Doorstep collection
- Neighbourhood level collection
- Community bins
- In open plots
- In open drains / water bodies
- On the roadside

HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



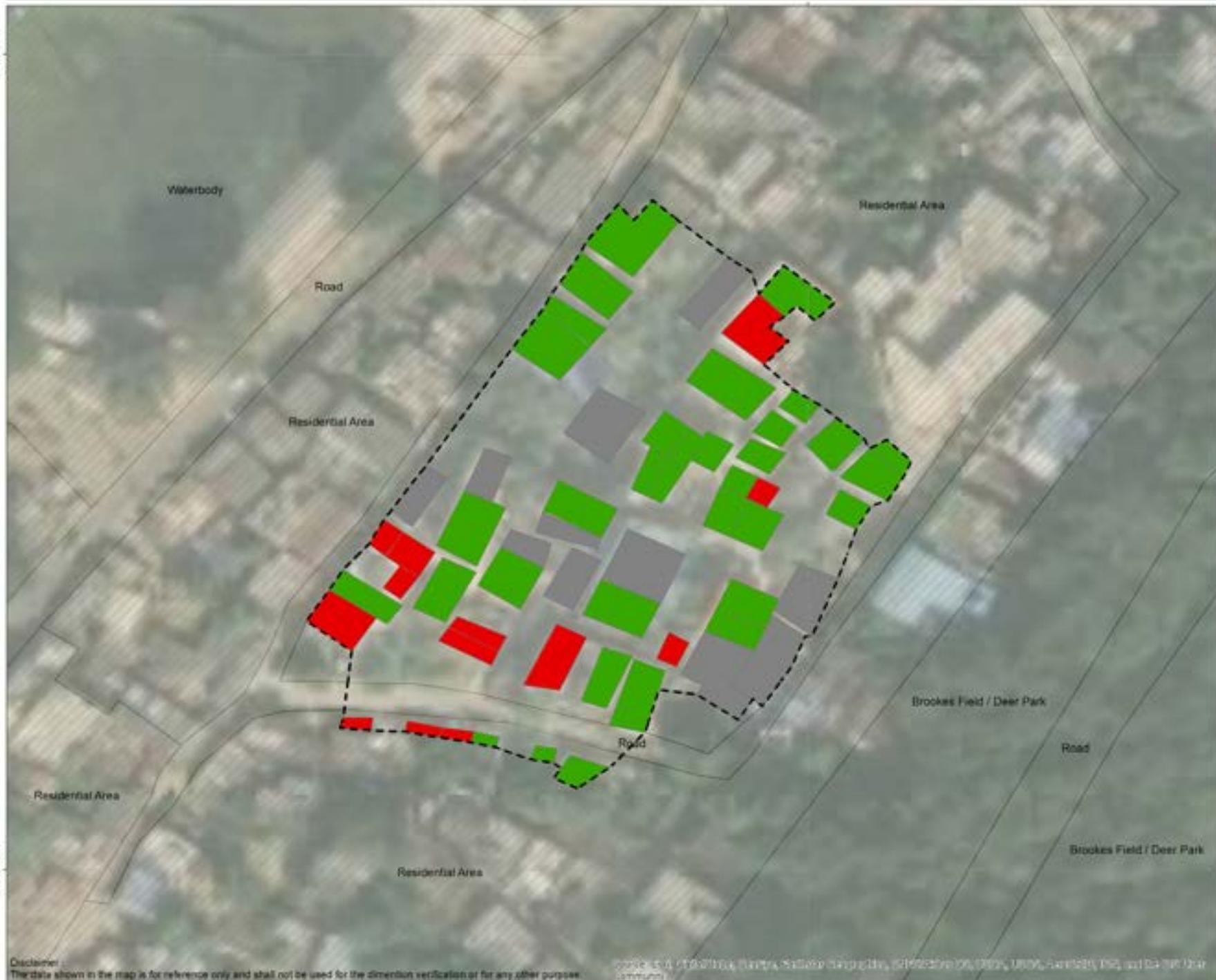
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Sambalpur

Rashtrapati Colony (Ward No. 30)



As per the verbal information provided by the respondents.

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :

Disclaimer: The date shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



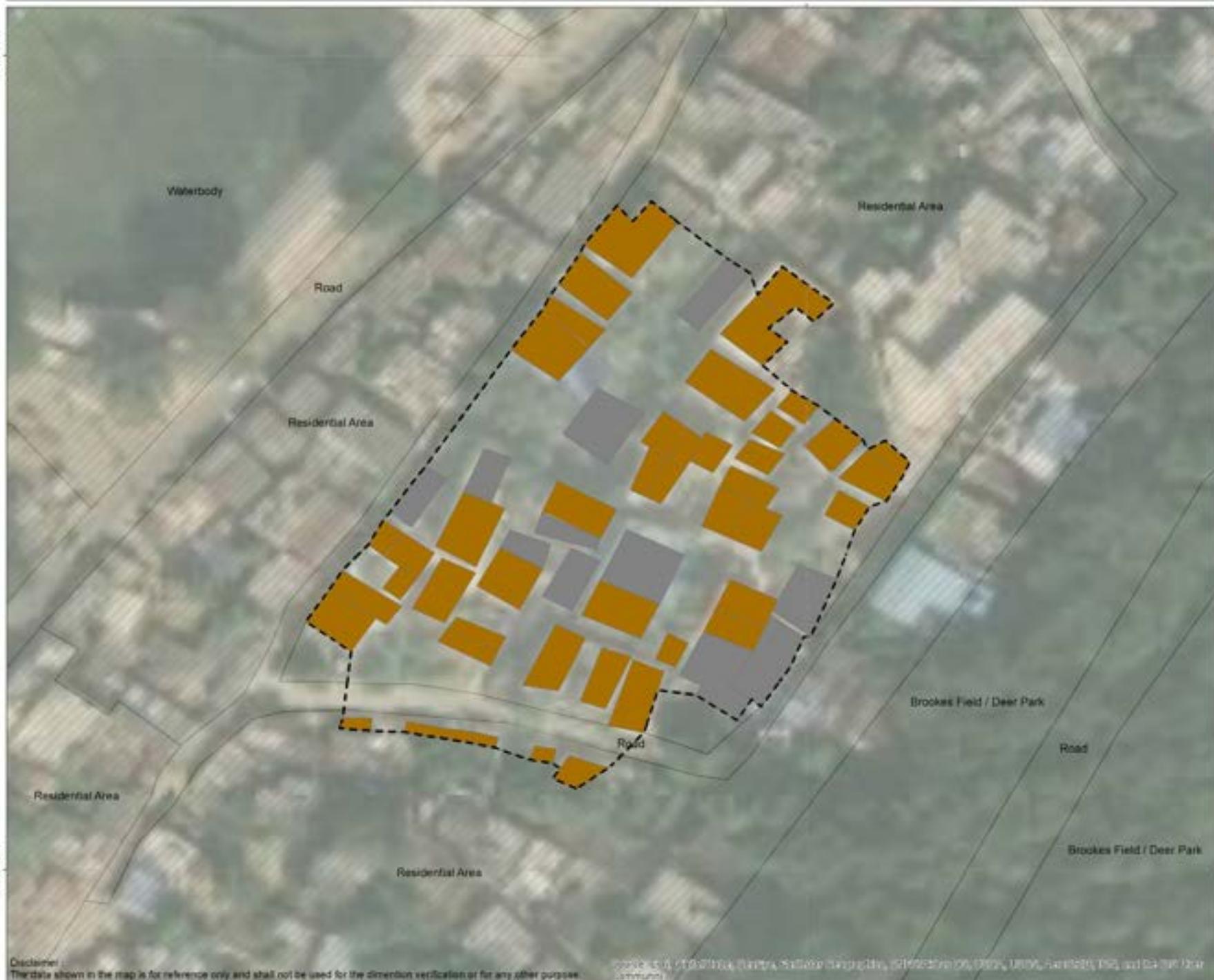
M I S A A L
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

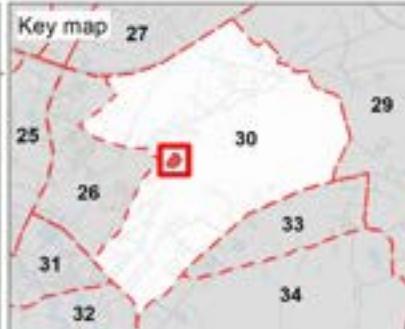
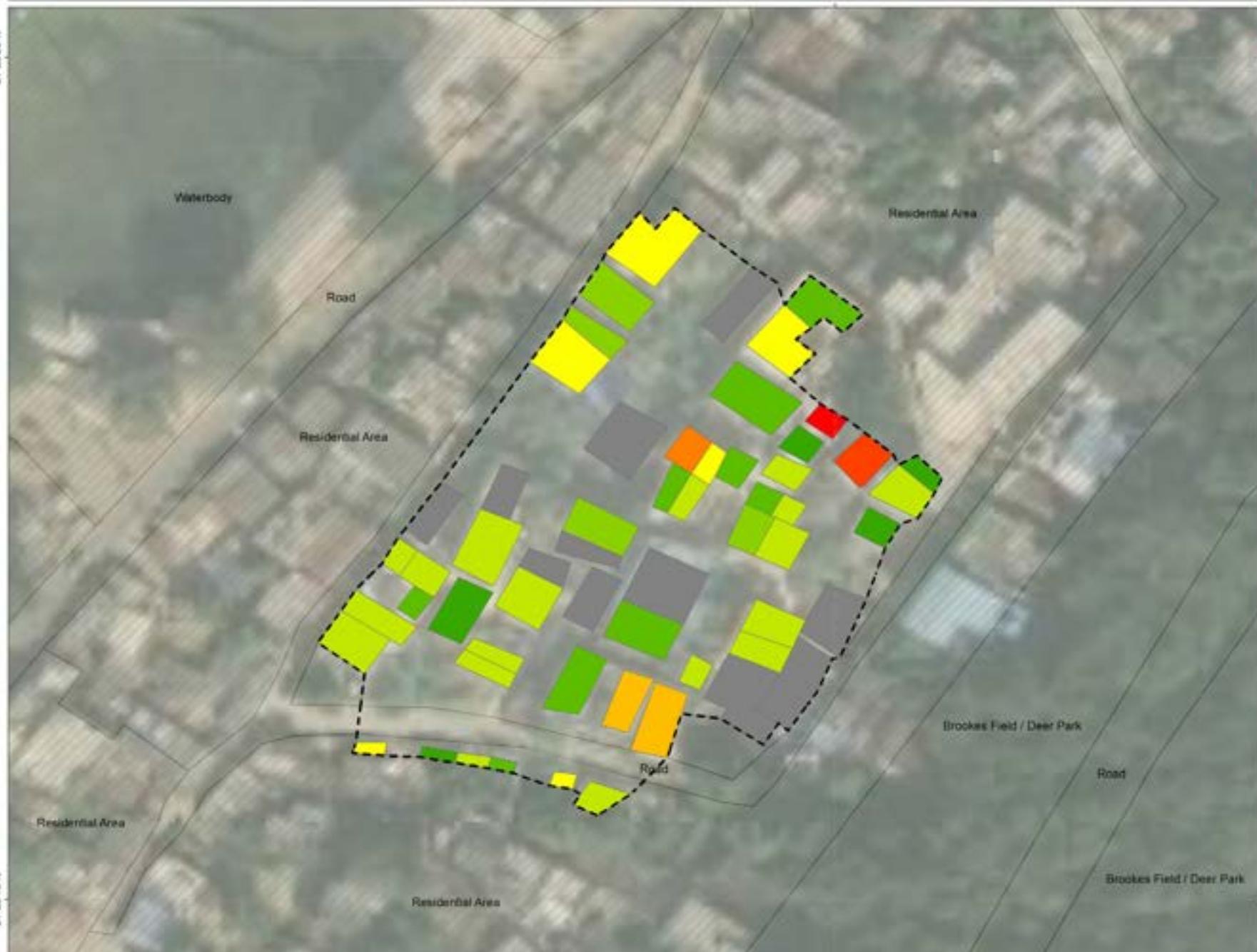
Rashtrapati Colony (Ward No. 30)



Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale:

Disclaimer: The date shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.


Household size

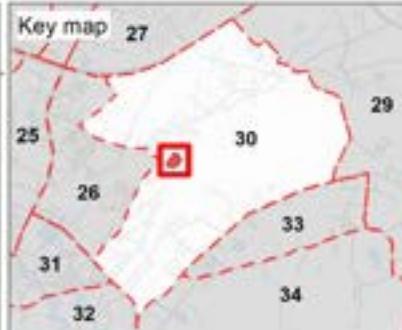
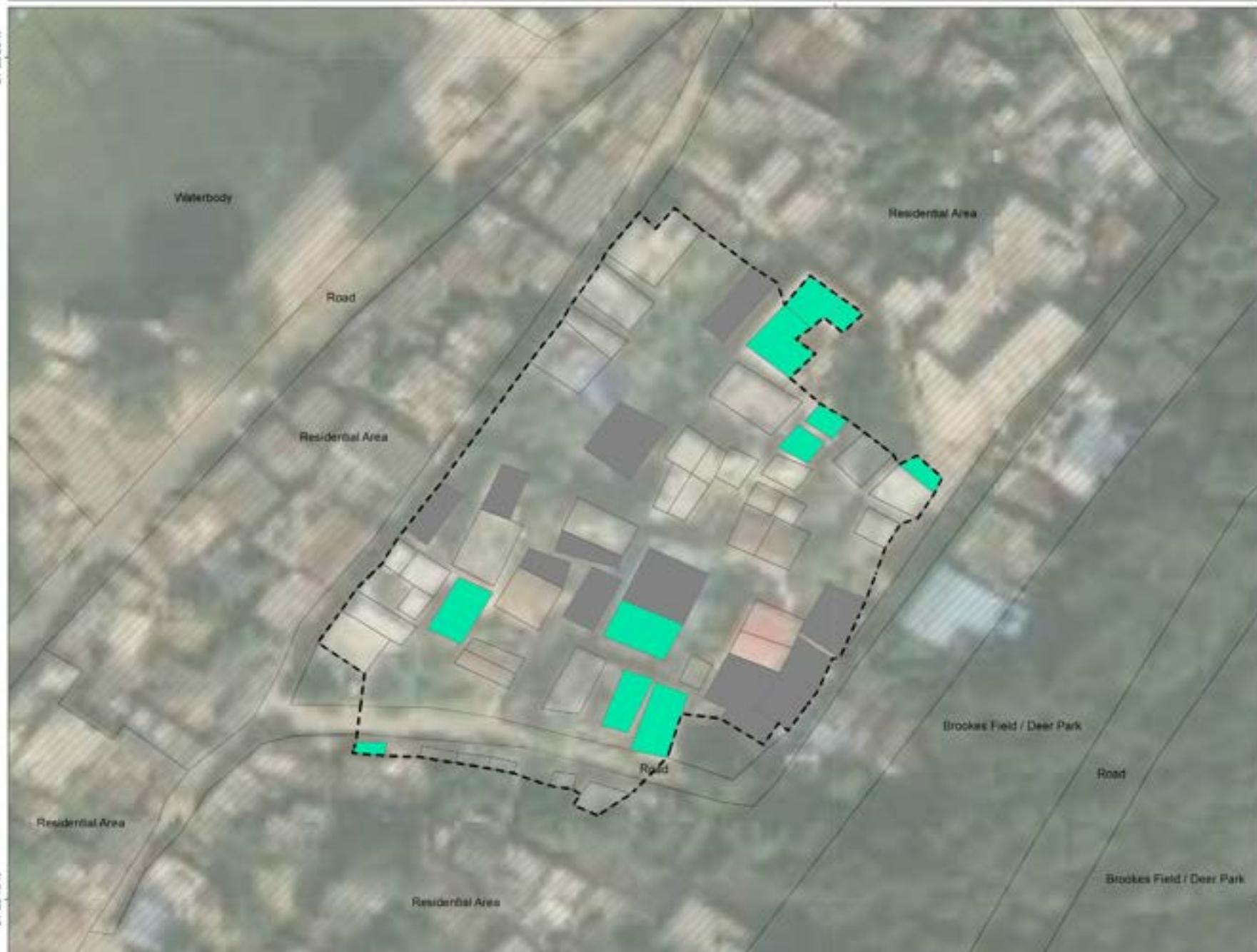

Other structures

Slum boundary

Source :

 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :



Elderly citizen

- HH have elderly citizen
- Other structures
- Slum boundary

Source :

Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :



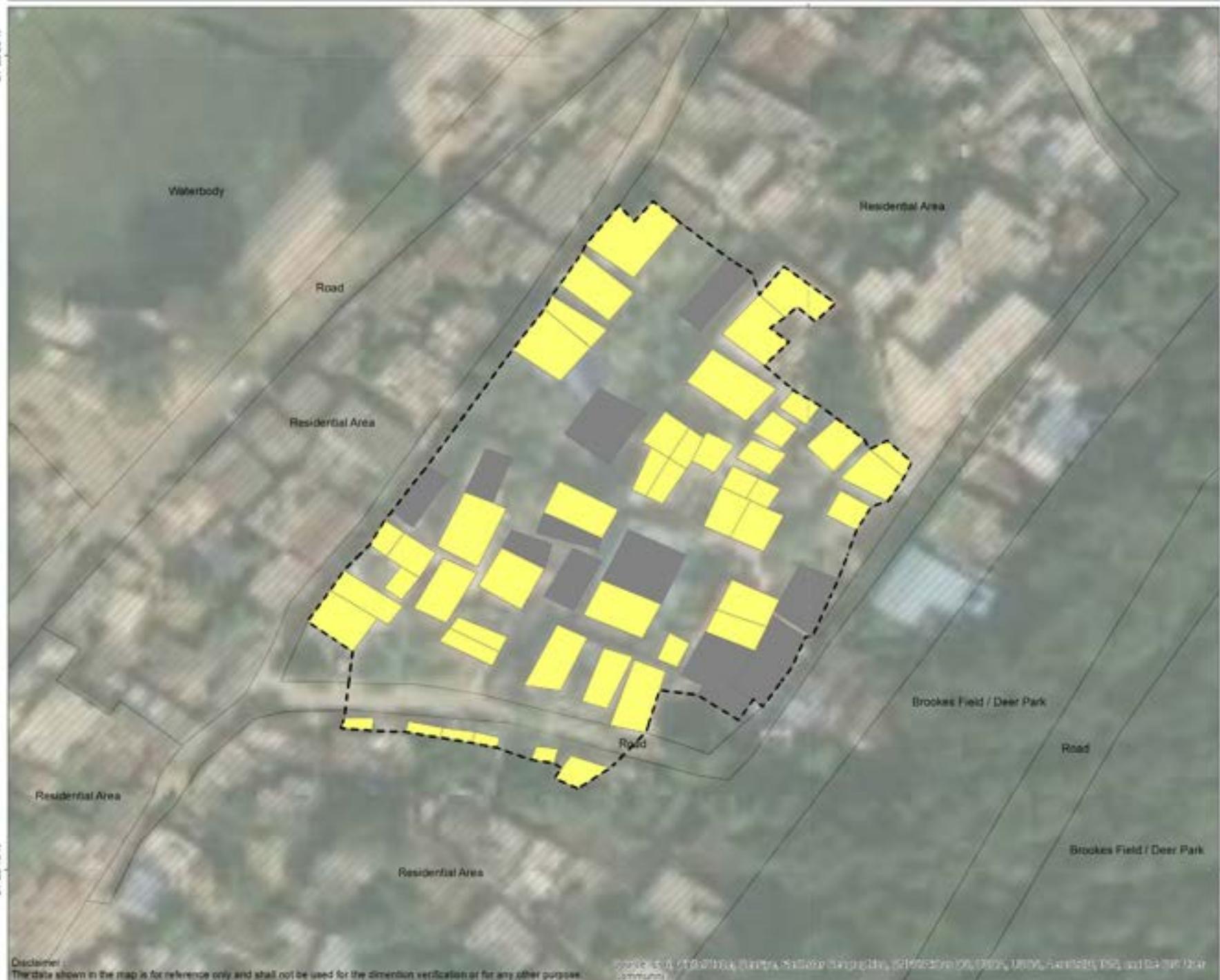

M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
URBAN MANAGEMENT CENTER

Sambalpur

Rashtrapati Colony (Ward No. 30)



Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale:

Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Rashtrapati Colony (Ward No. 30)



Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale:

Disclaimer: The date shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



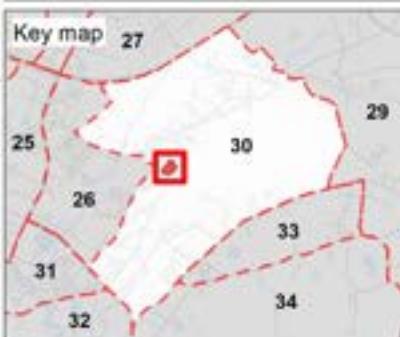
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Rashtrapati Colony (Ward No. 30)



Source of water in household

The legend consists of seven entries, each with a colored square followed by a label:

- Tap connection at home
- Stand post
- Hand pump
- Fetching water from neighbourhood
- Nearby water bodies
- Other structures
- Slum boundary

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :

0 10 20 40



Disclaimer: The date shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

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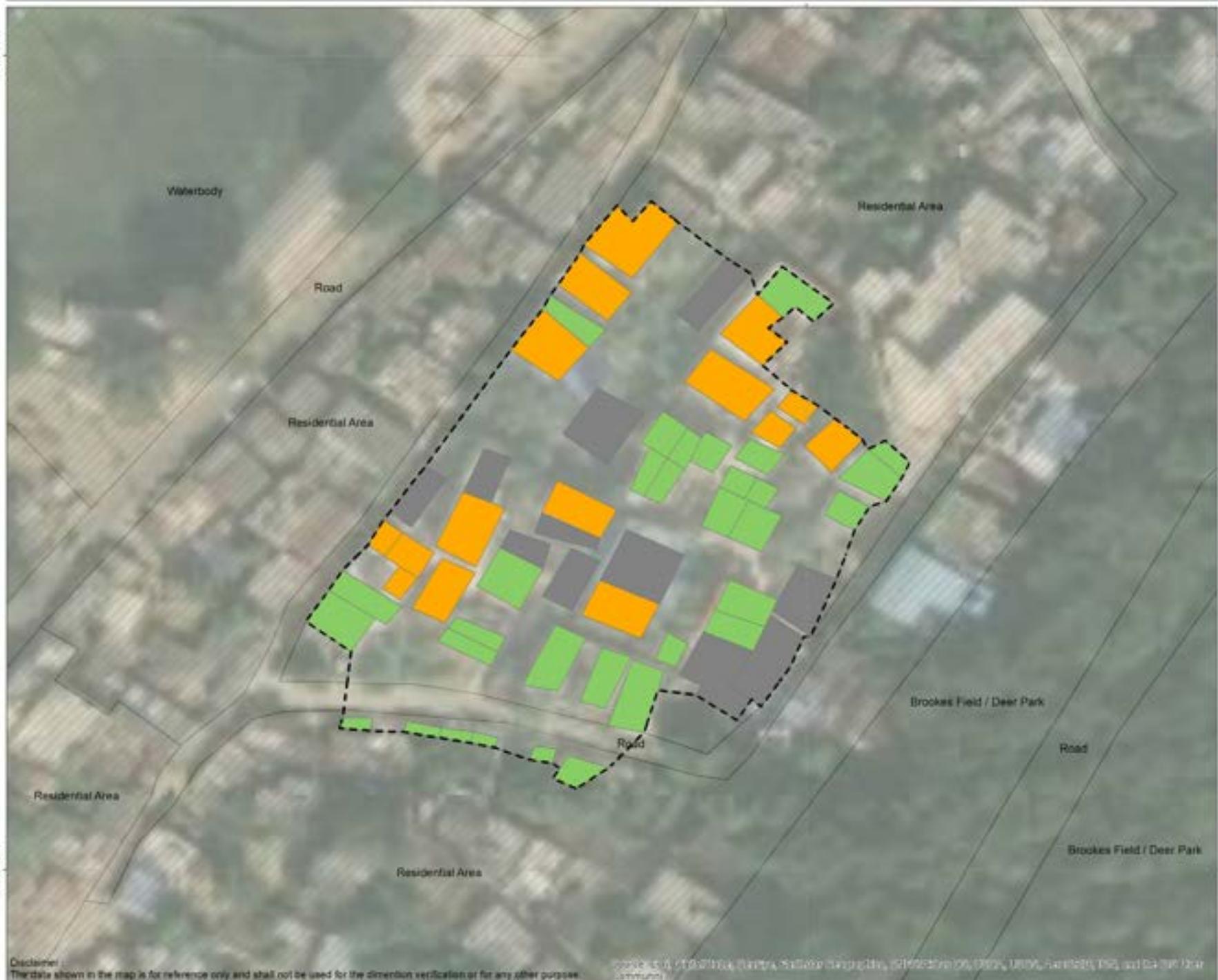
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Rashtrapati Colony (Ward No. 30)



Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:

Disclaimer: The date shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



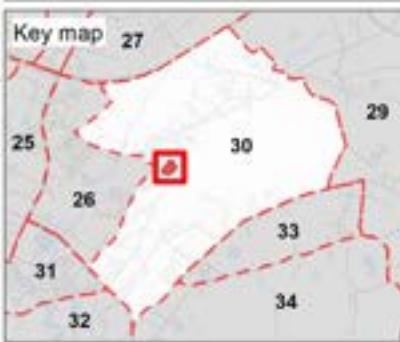
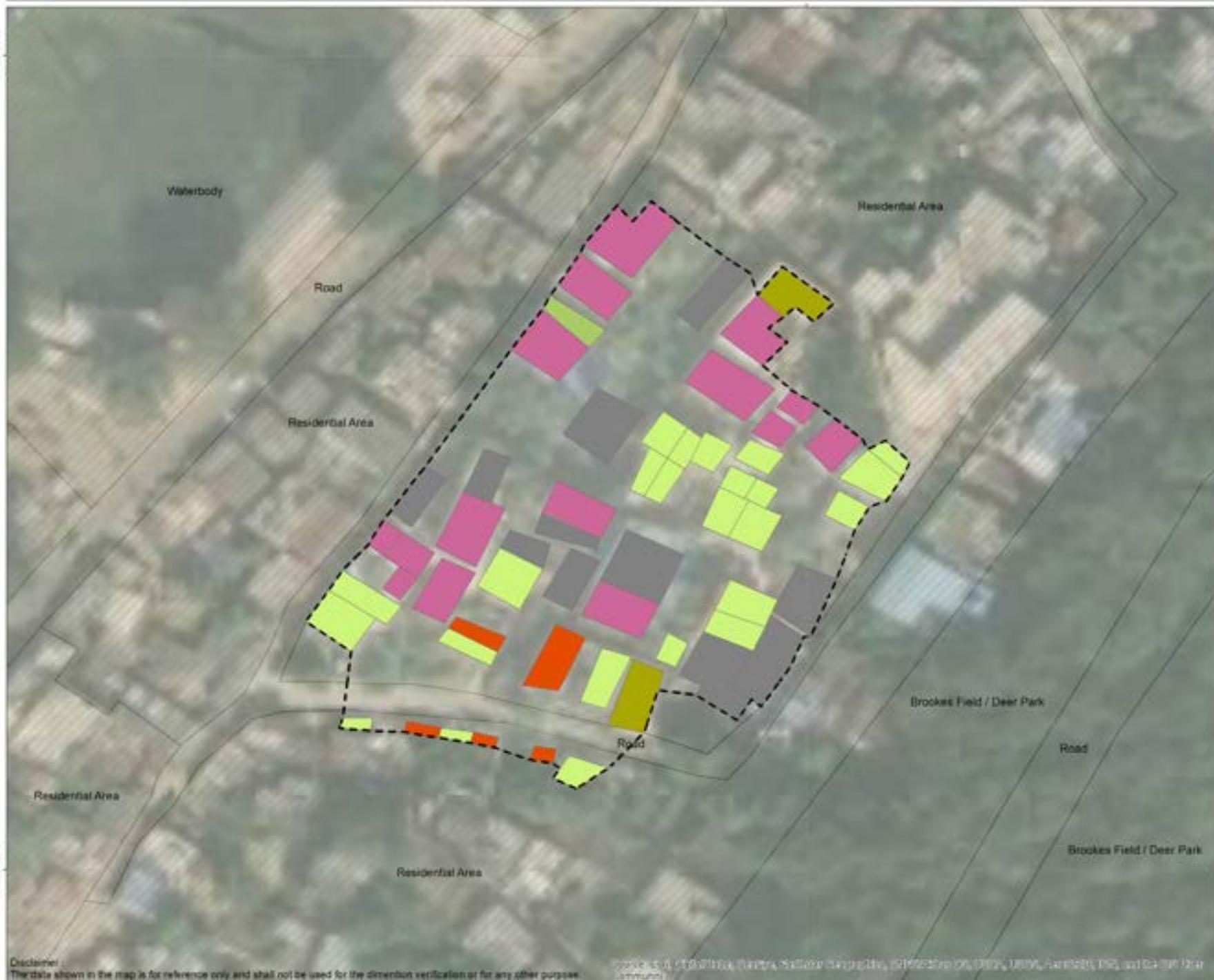
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Sambalpur

Rashtrapati Colony (Ward No. 30)



IHHL connected to:

A legend consisting of seven colored squares with corresponding labels:

- Light green: Septic tank
- Dark olive green: Twin pit
- Light yellow-green: Soak pit
- Red-orange: No connection for disposal
- Pink: No IHHL
- Grey: Other structures
- White square with black border: Slum boundary

Source:

Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :





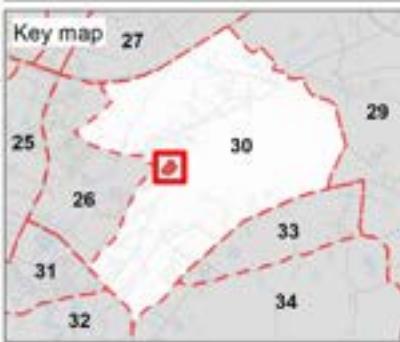
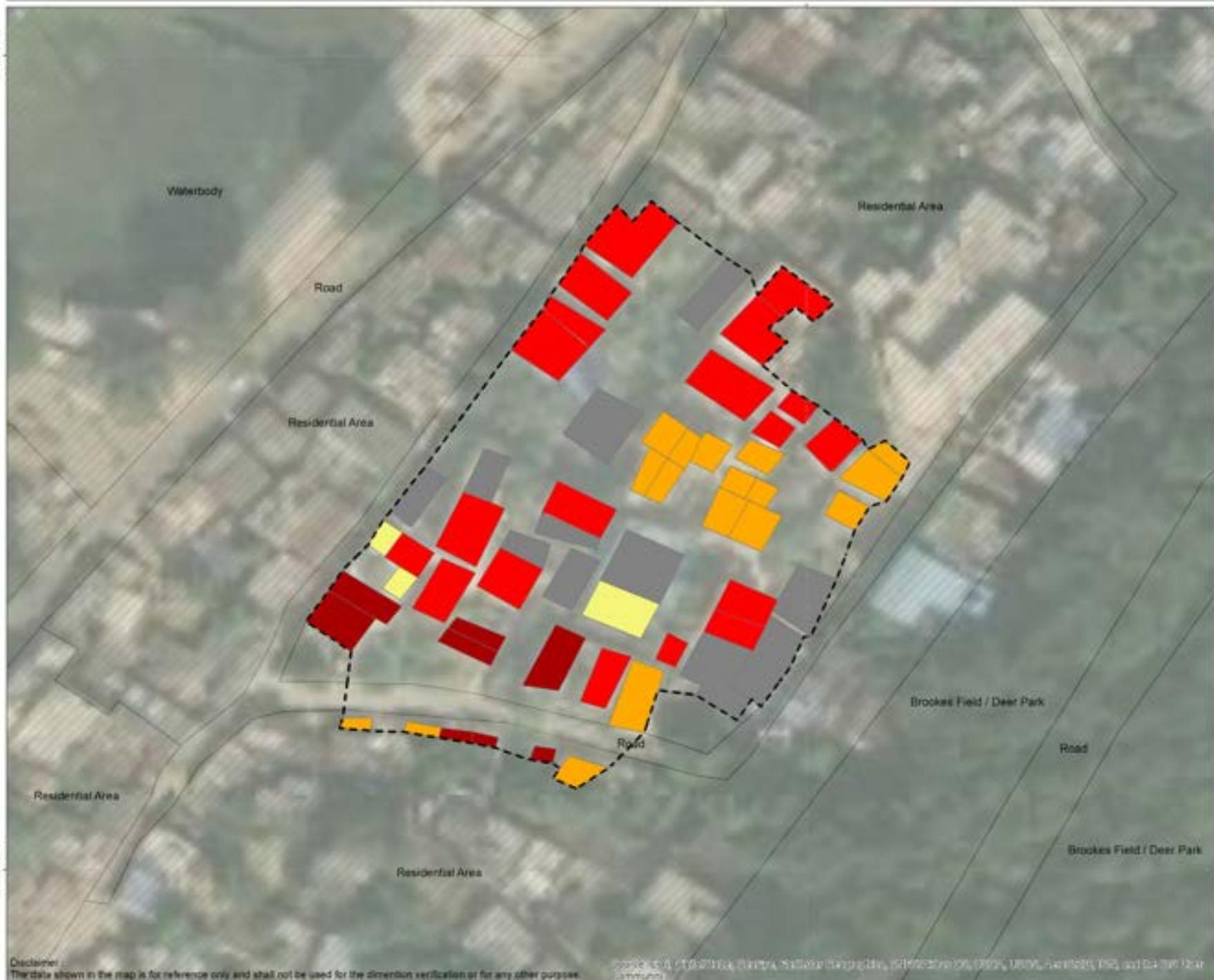
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UMC
UZHUR MARYA CHURCH

Sambalpur

Rashtrapati Colony (Ward No. 30)



Grey water disposed to :

- █ Single pit
 - █ Small pit (kundi) outside the house
 - █ Open drain
 - █ Water is let out on streets
 - █ Other structures
 - █ Slum boundary

Source

Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale

A horizontal scale with numerical markings at 0, 10, 20, and 40. A thick black horizontal bar is positioned such that its left end aligns with the '10' marking and its right end aligns with the '20' marking, indicating a value of approximately 10.



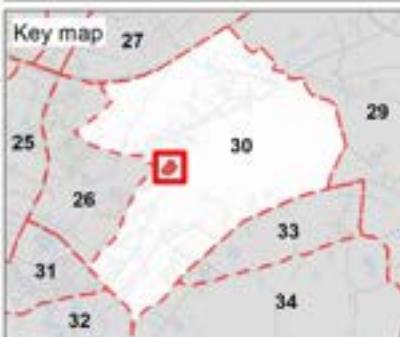
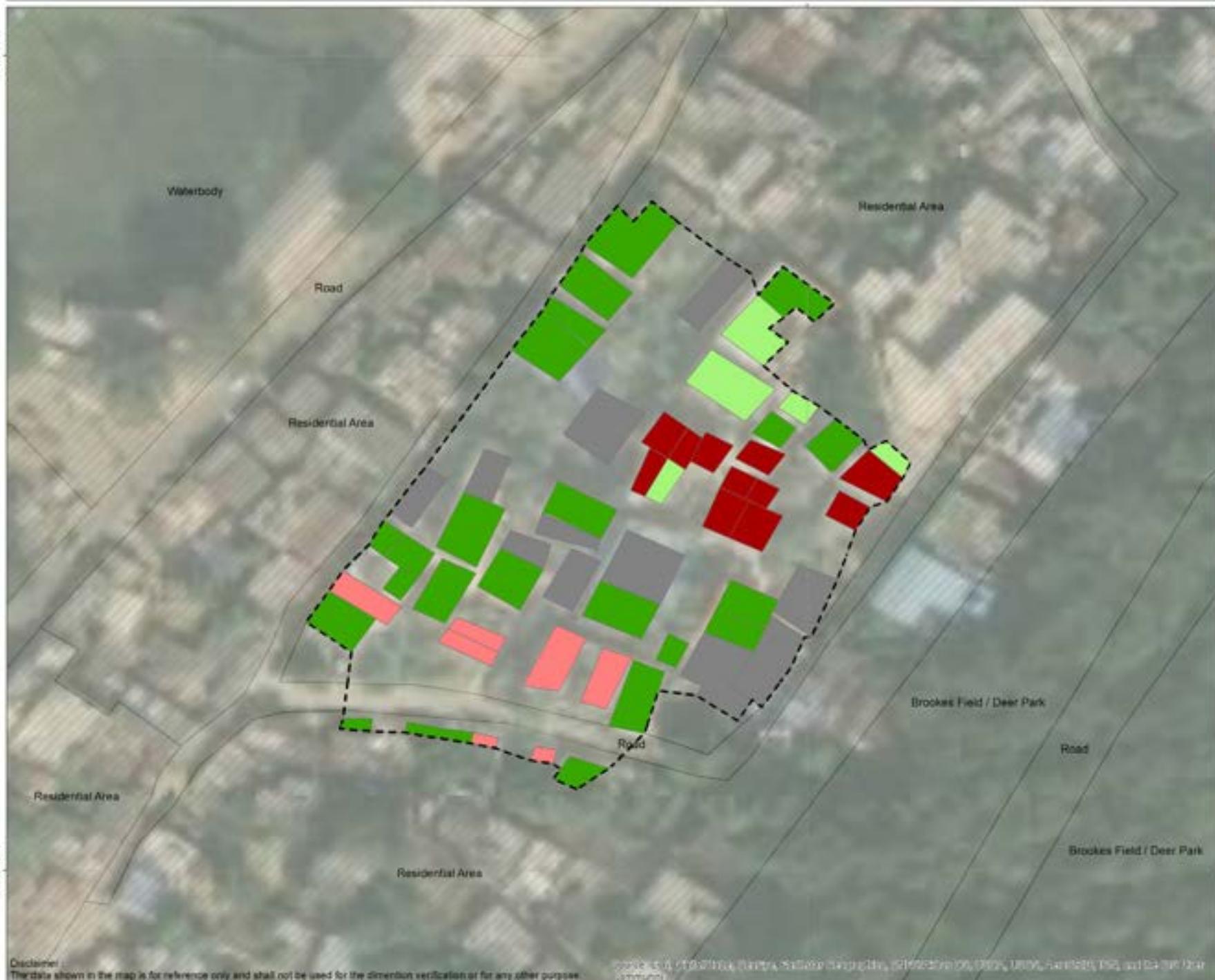
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Rashtrapati Colony (Ward No. 30)



Household disposing solid waste to:

- The legend consists of six color-coded squares with corresponding labels:

 - D to D service (dark green)
 - Handover to municipal waste collector (light green)
 - In Open plot & On road side (pink)
 - In Open plot (red)
 - Other structures (grey)
 - Slum boundary (dashed black line)

Source :
Urban Management Centre, (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale

A horizontal scale with numerical markings at 0, 10, 20, and 40. A thick black horizontal bar is positioned such that its left end aligns with the 0 mark and its right end aligns with the 10 mark.

80. Samleipada

Sambalpur

Slum name
SAMPLEIPADA

Ward
30

Total number of households in the slum
127

Approximate area of the slum
7.8 ha

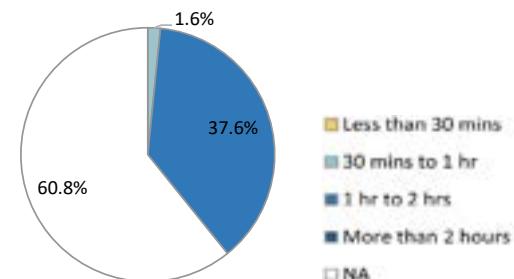


1. Access to municipal water supply

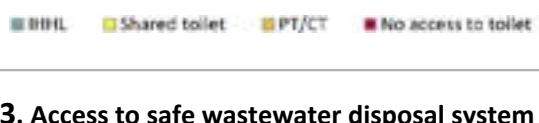
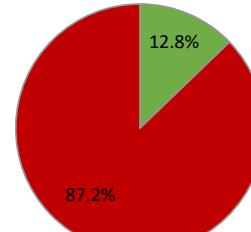
% of HHs with individual water tap connection
 2%

% of HHs satisfied with the quality of water supplied
96%

Duration of daily water supply



2. Access to toilets



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit

Number of HHs having IHHL
16

% of functional IHHLs
100%

Number of PT/CTs near the slum
-

Total number of persons dependent on PT/CTs
-

% of HHs connected with safe disposal system for grey water
42%

4. Solid waste management system



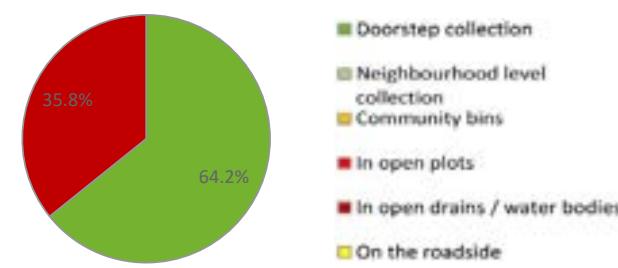
Total waste generation (kg)

167

% of HHs segregating waste

18%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



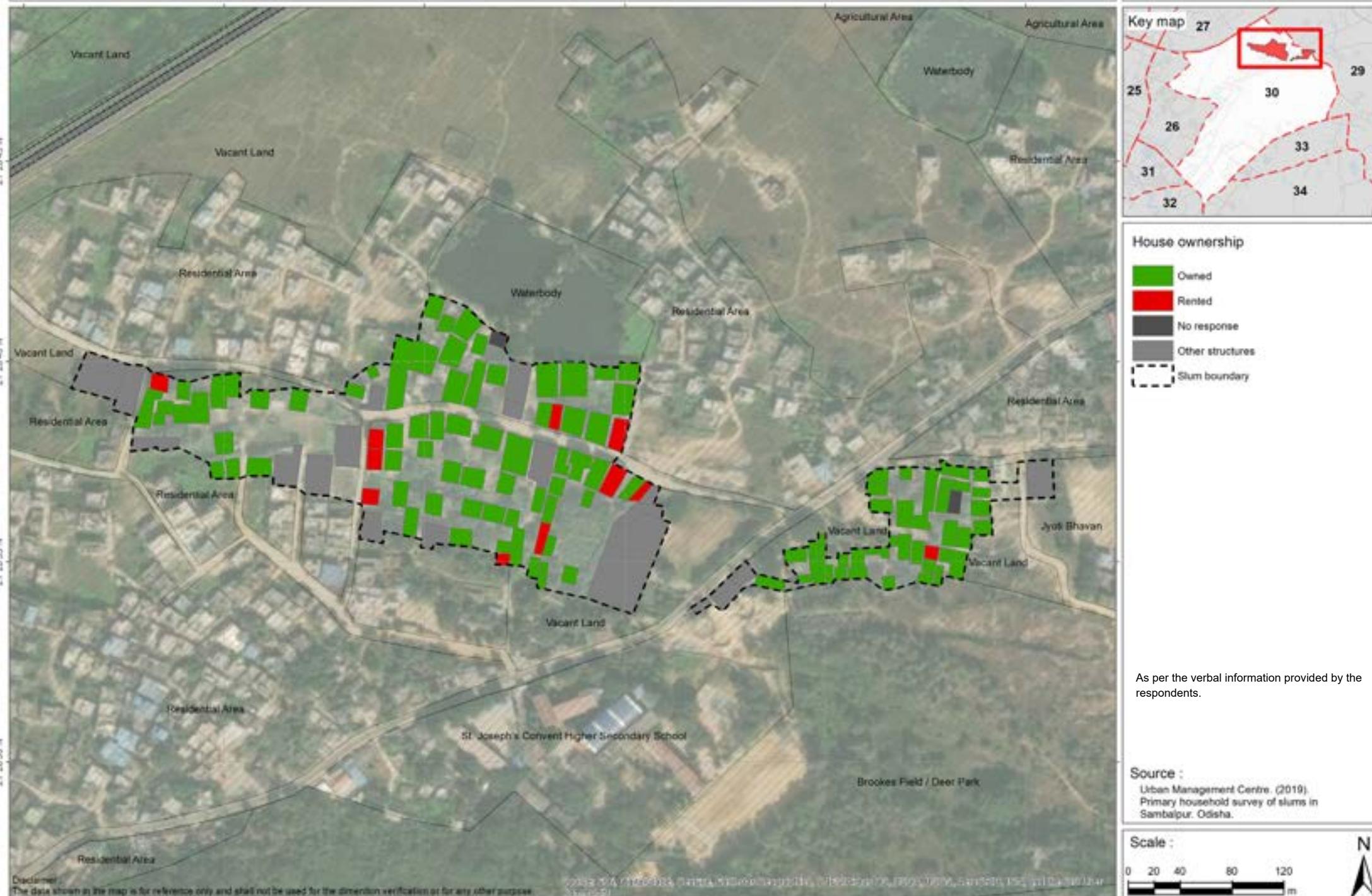
M I S A A L
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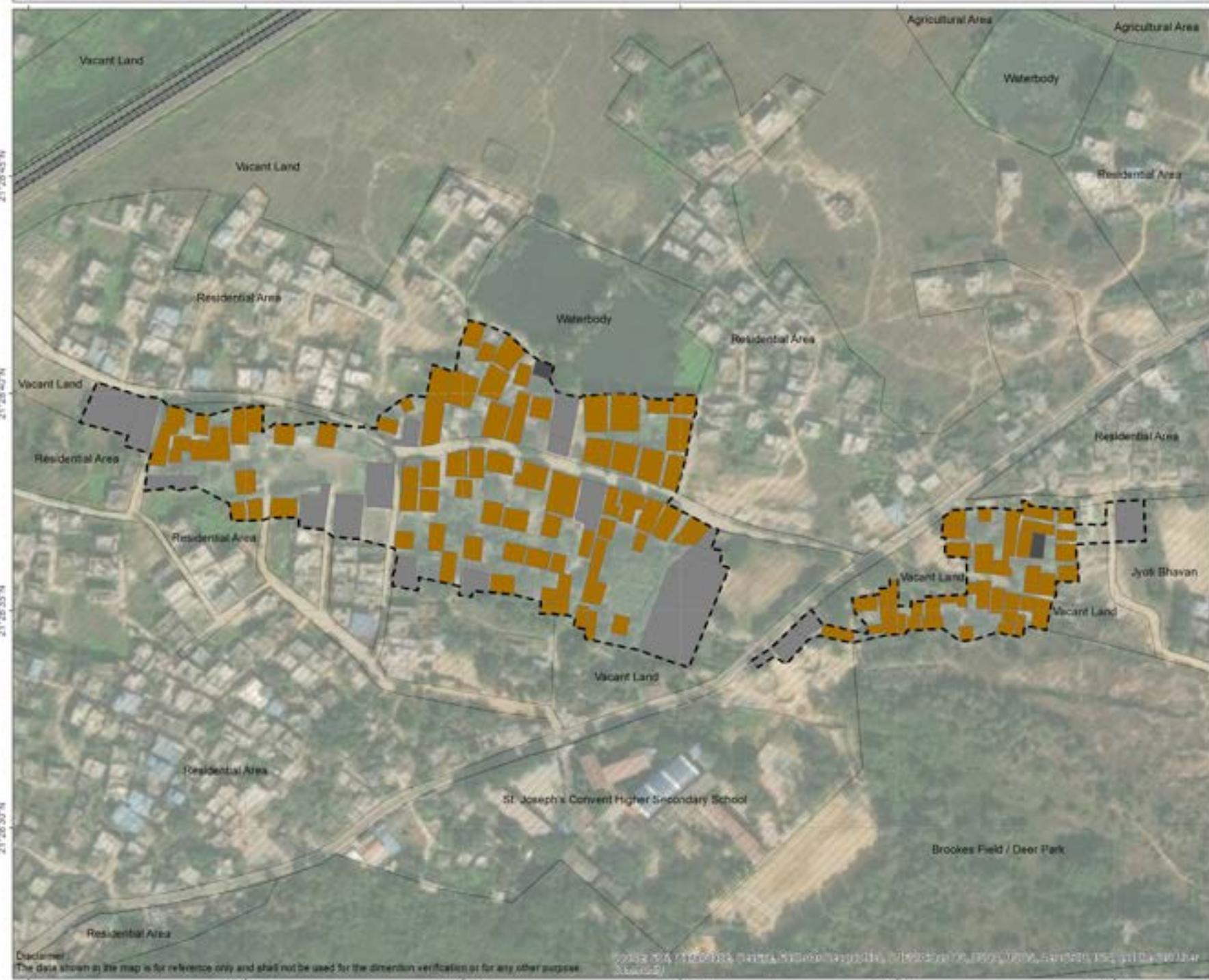


UMC
UNIVERSITY MANAGEMENT CENTER

Sambalpur

Samleipeda (Ward No. 30)







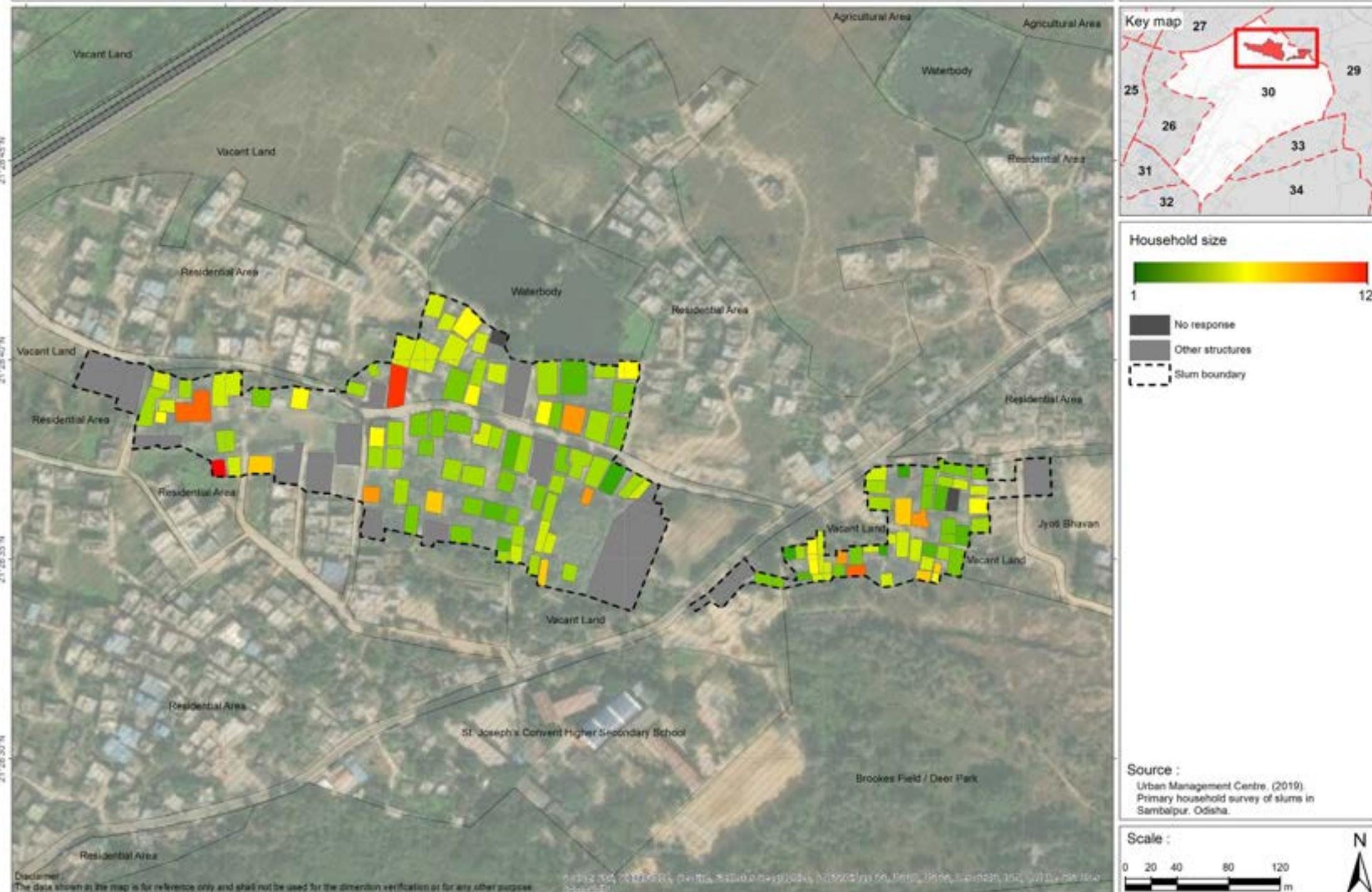
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URBAN MANAGEMENT CENTER

Sambalpur

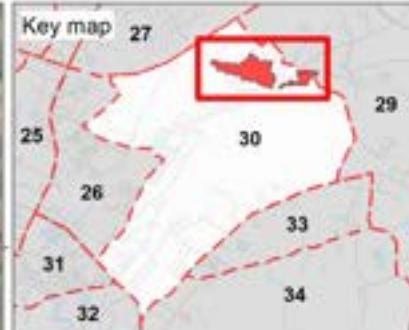
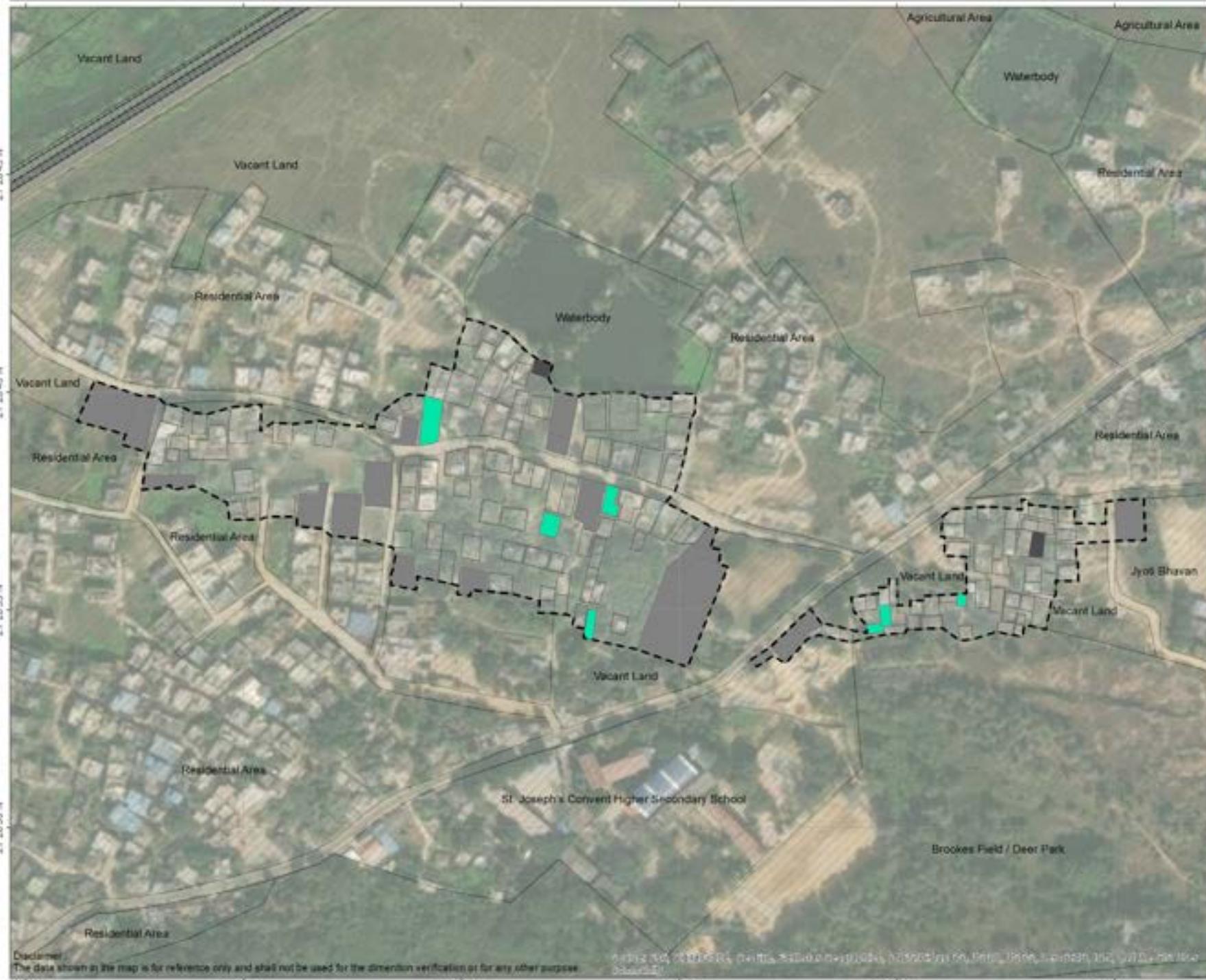
Samleipeda (Ward No. 30)



The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

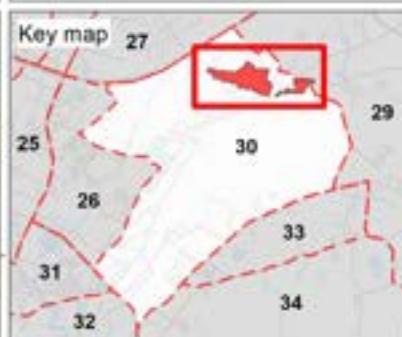
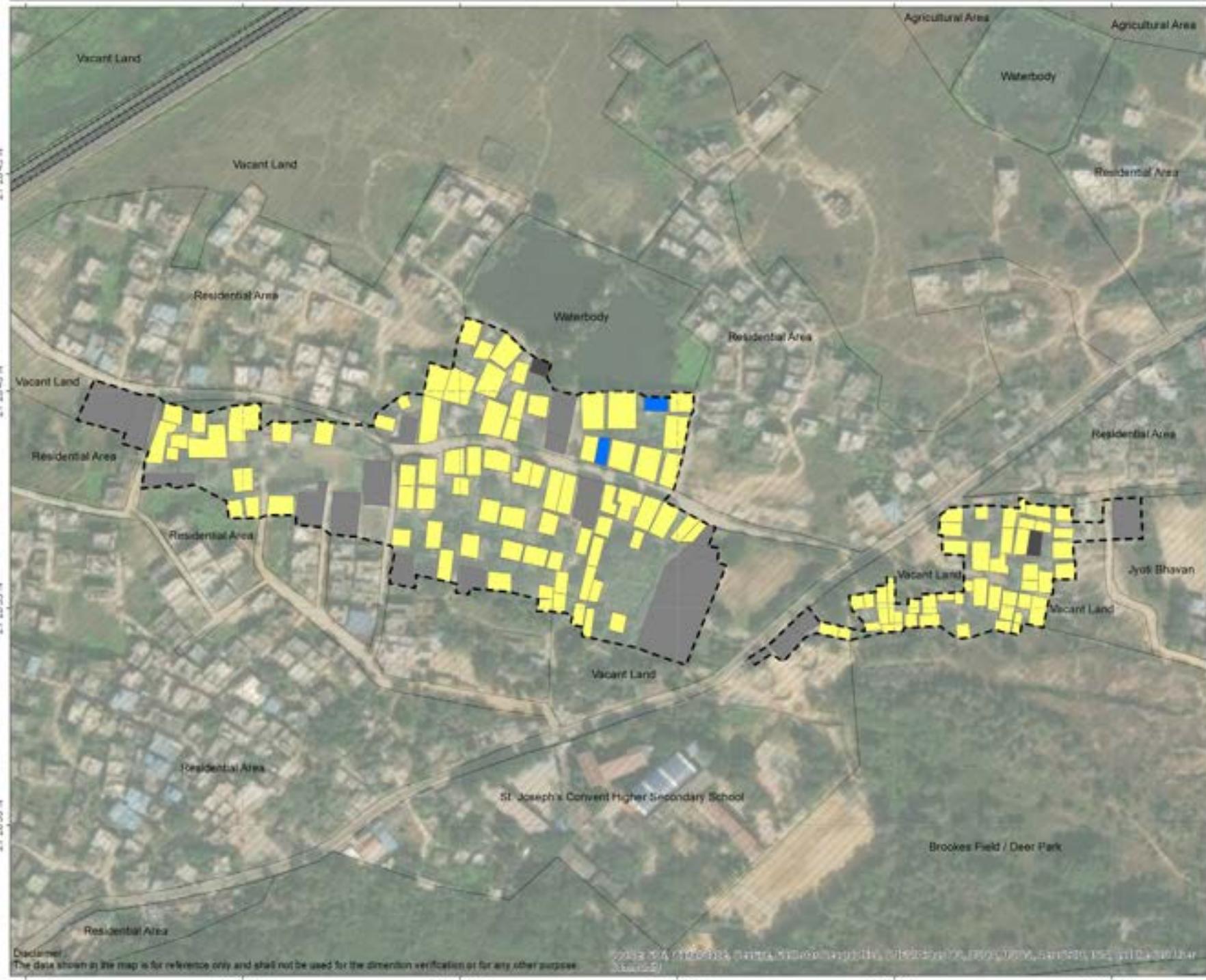
Scale :
0 20 40 80 120


Elderly citizen

- HH have elderly citizen
- No response
- Other structures
- Slum boundary

Source :
 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 20 40 60 80 100 120 m



Household with PWD*

	Yes
	No
	No response
	Other structures
	Slum boundary

* Person with Disabilities

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :



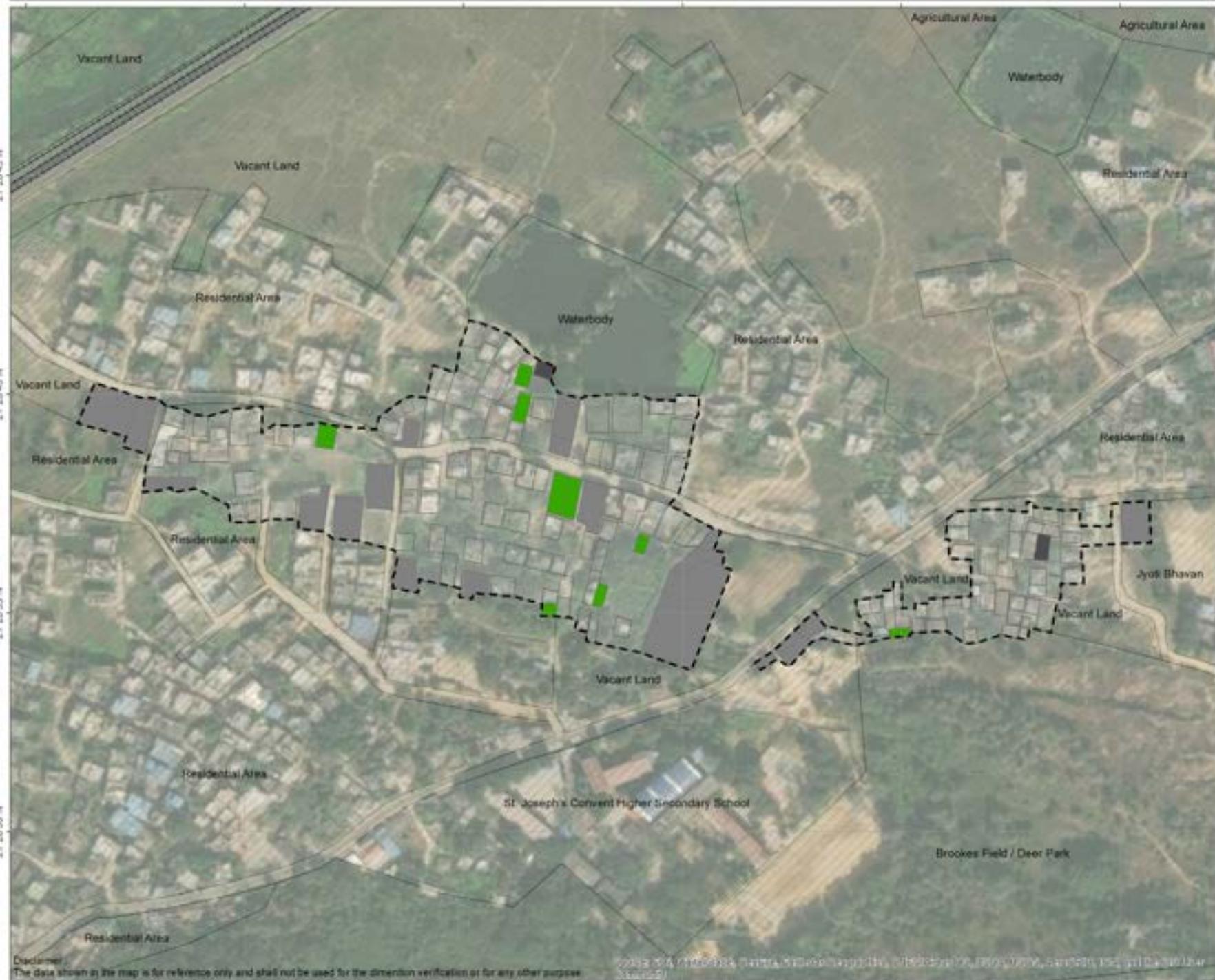

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UMC
Urbana Macomb Community College

Sambalpur

Samleipeda (Ward No. 30)

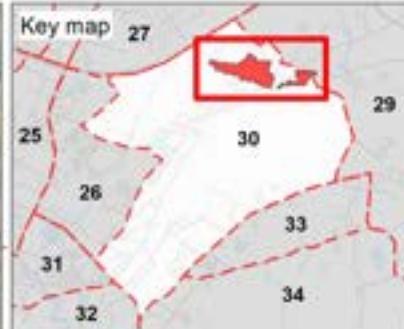
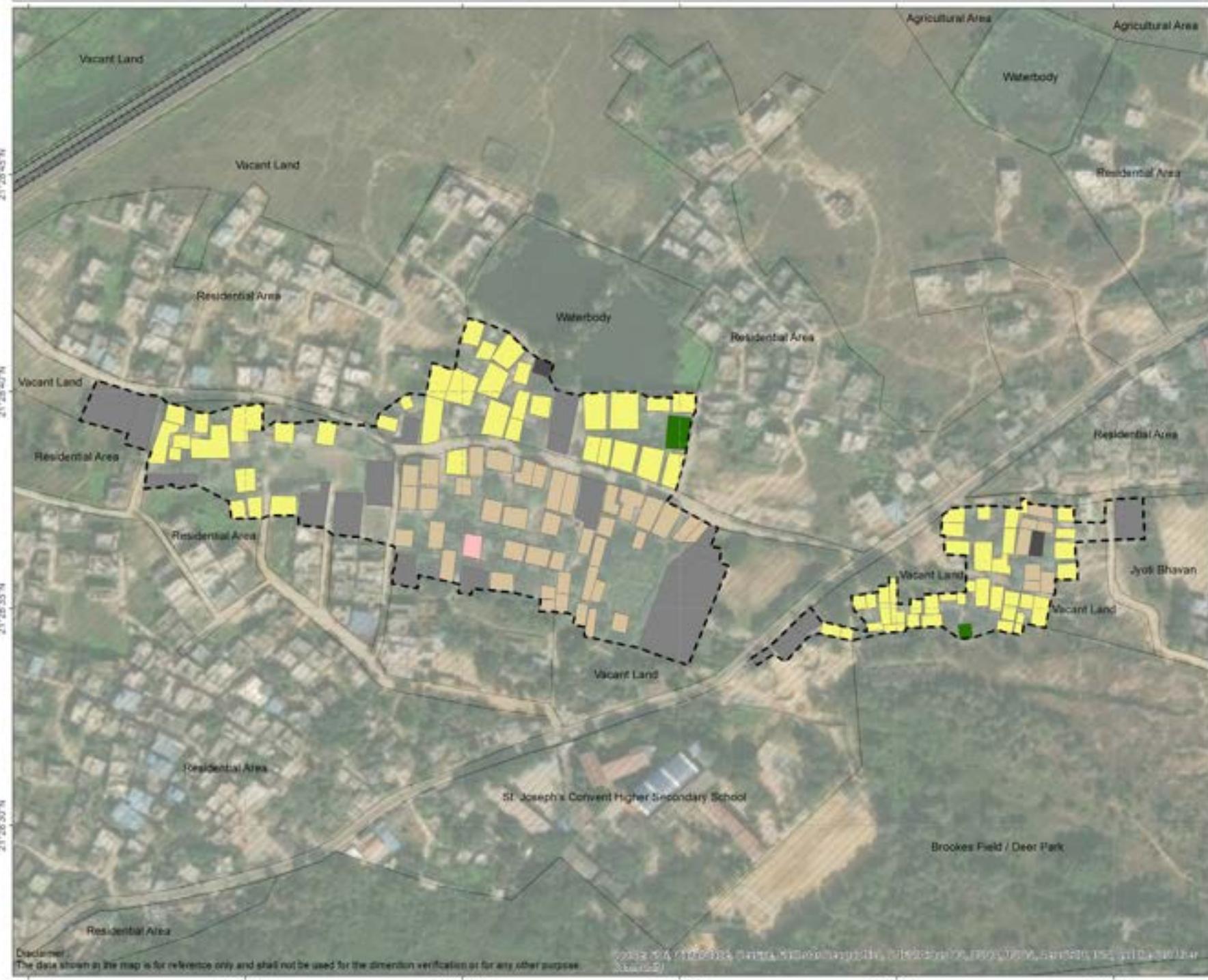


Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
0 20 40 80 120
 m



The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

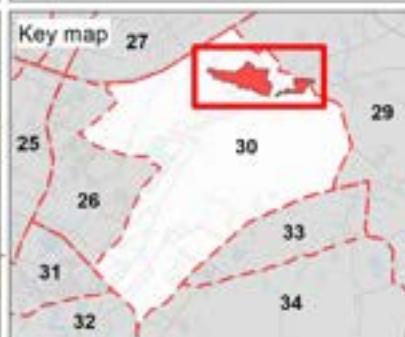
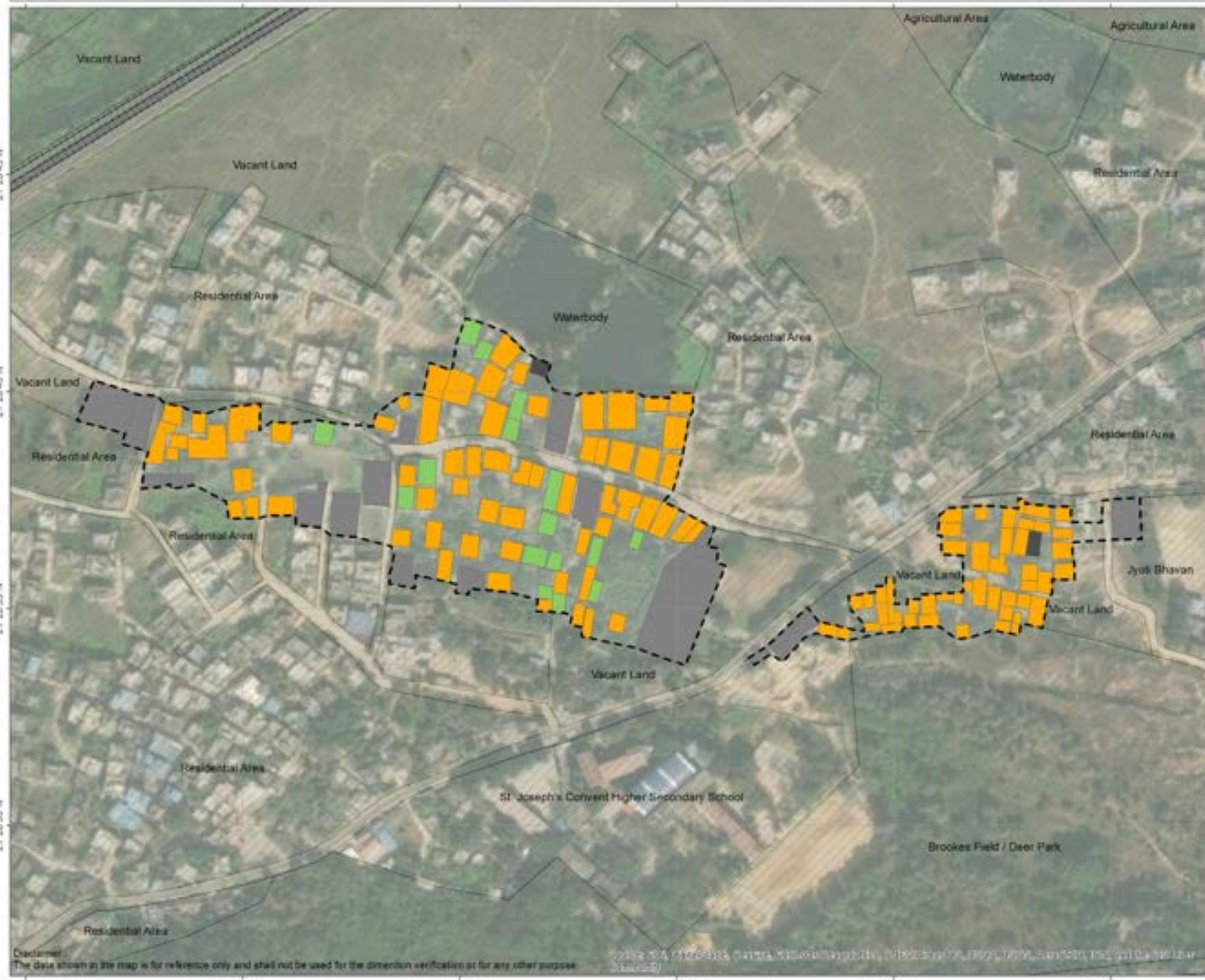

Source of water in household

- [Dark Green] Tap connection at home
- [Yellow] Hand pump
- [Light Brown] Fetching water from neighbourhood
- [Pink] No water facility
- [Black] No response
- [Grey] Other structures
- [Dashed Line] Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 20 40 60 80 100 120 m




Functionality of IHHL

- [Green square] Yes
- [Orange square] No IHHL
- [Dark gray square] No response
- [Light gray square] Other structures
- [Dashed line] Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 20 40 60 80 100 120 m





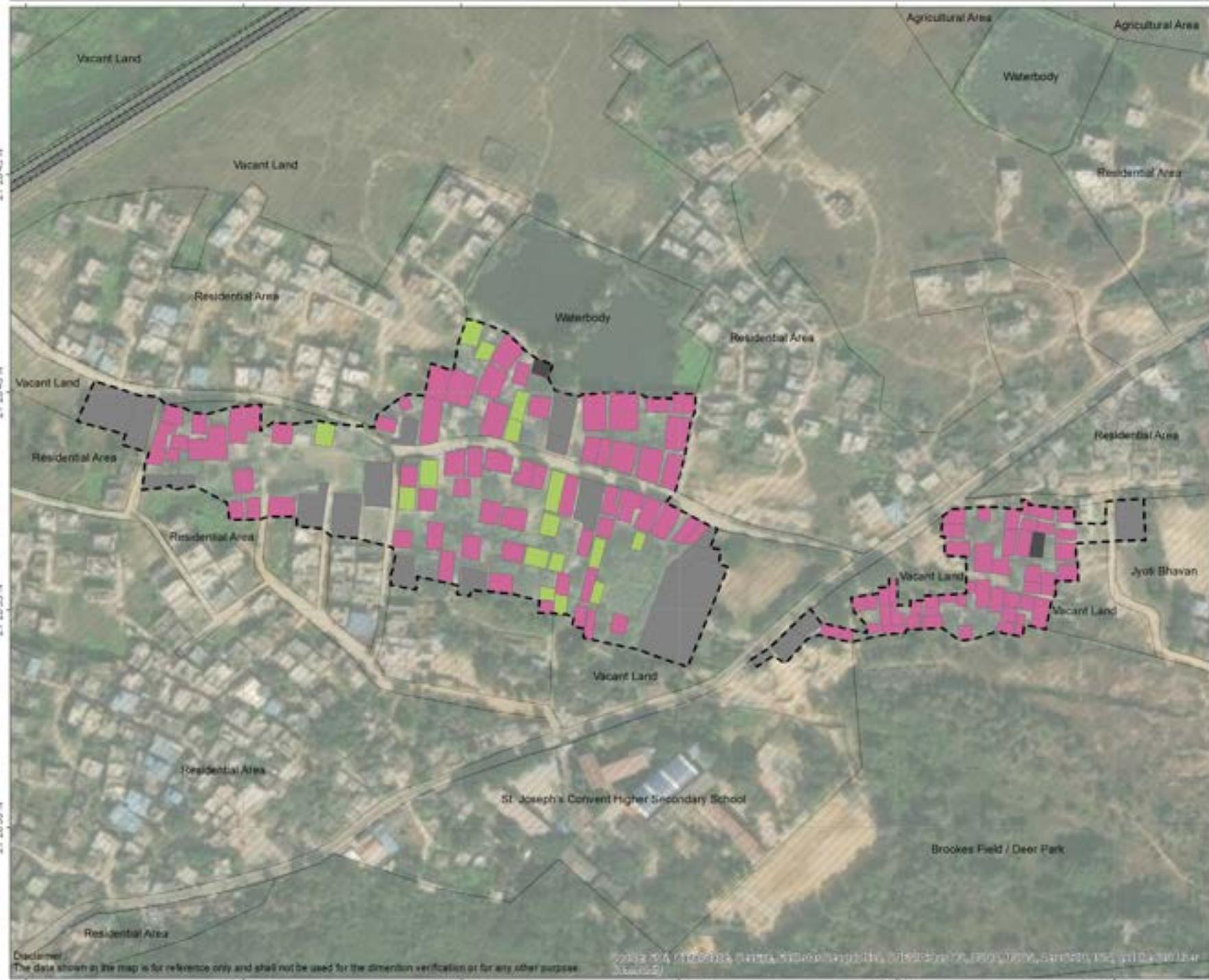
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Urban Management Center

Sambalpur

Samleipeda (Ward No. 30)

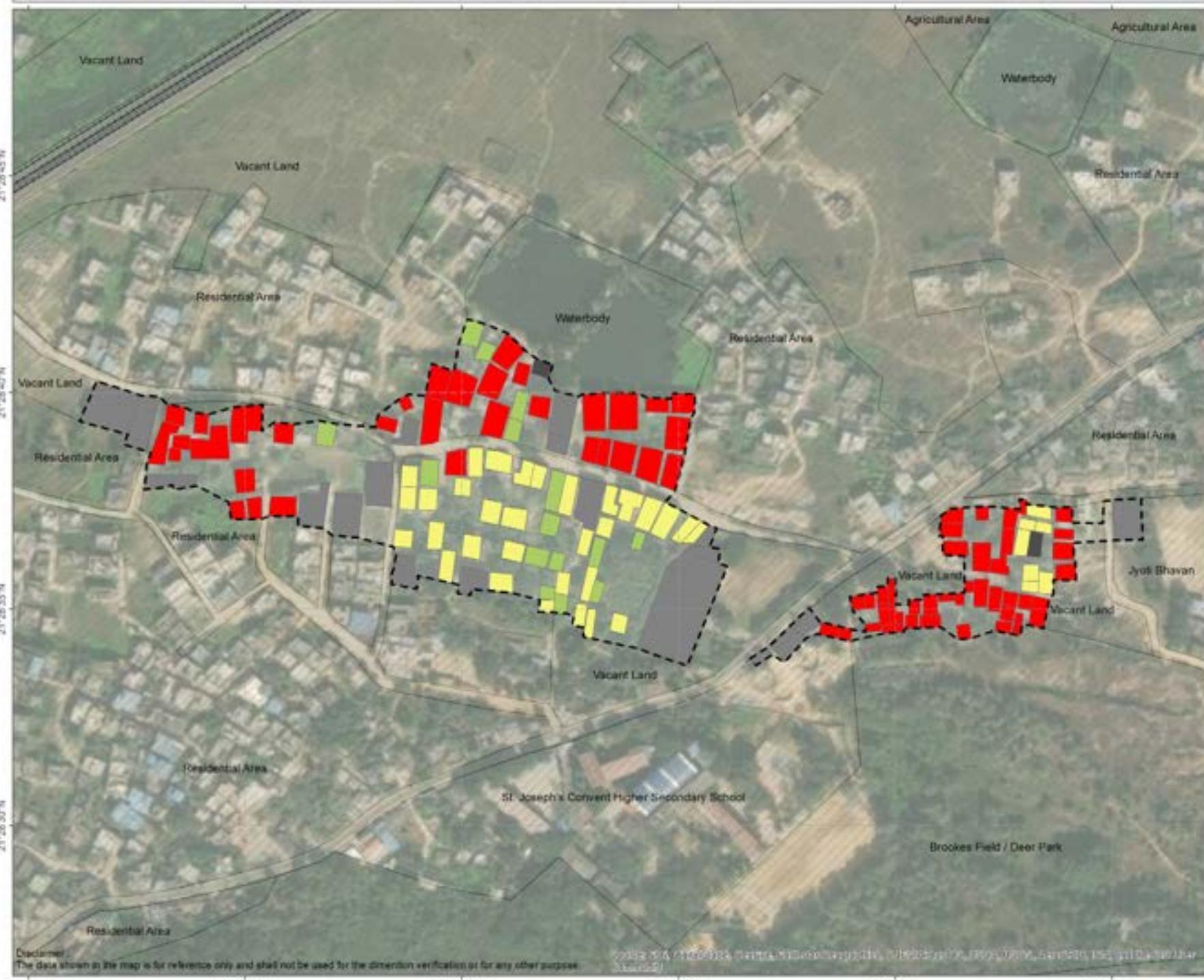


Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 20 40 80 120
 m



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



Source :

 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :





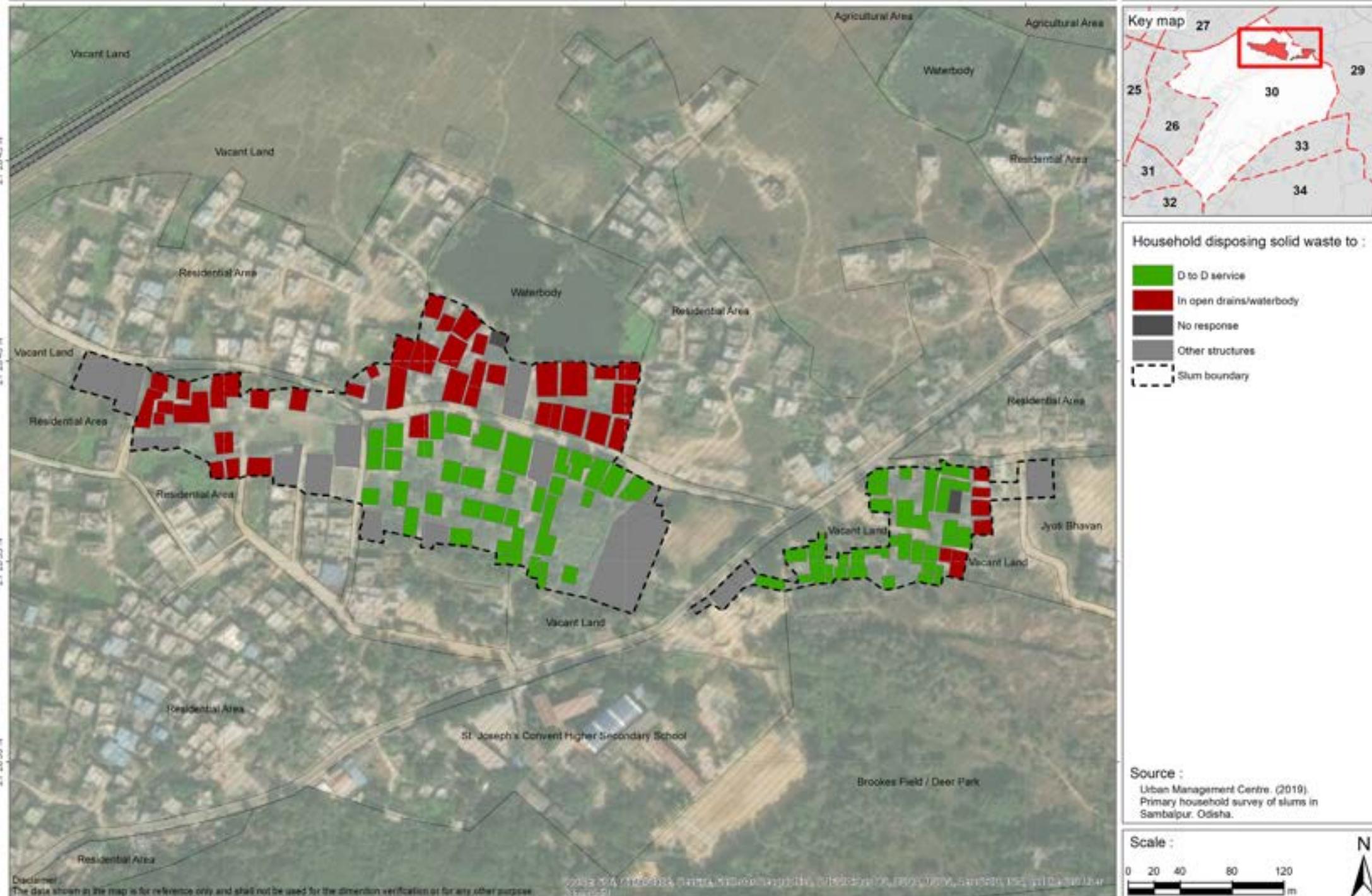
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Sambalpur

Samleipada (Ward No. 30)



Ward - 31

Sambalpur

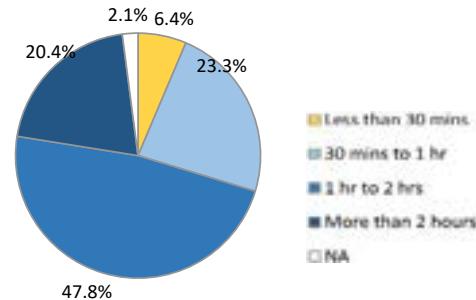
Ward name
31



1. Access to municipal water supply

	% of HHs with individual water tap connection	65%
	% of HHs satisfied with the quality of water supplied	84%

Duration of daily water supply



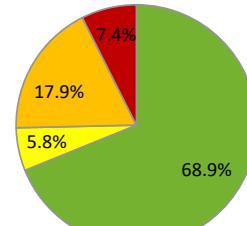
Number of slums

4

Total number of households in slums

535

2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL

334

% of functional IHHLs

98%

Number of PT/CTs near the slum

4

Total number of persons dependent on PT/CTs

299

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water

65%

27%

4. Solid waste management system



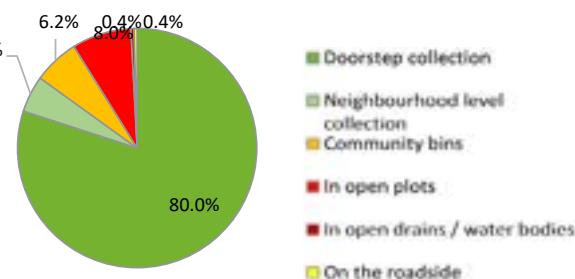
Total waste generation (kg)

691

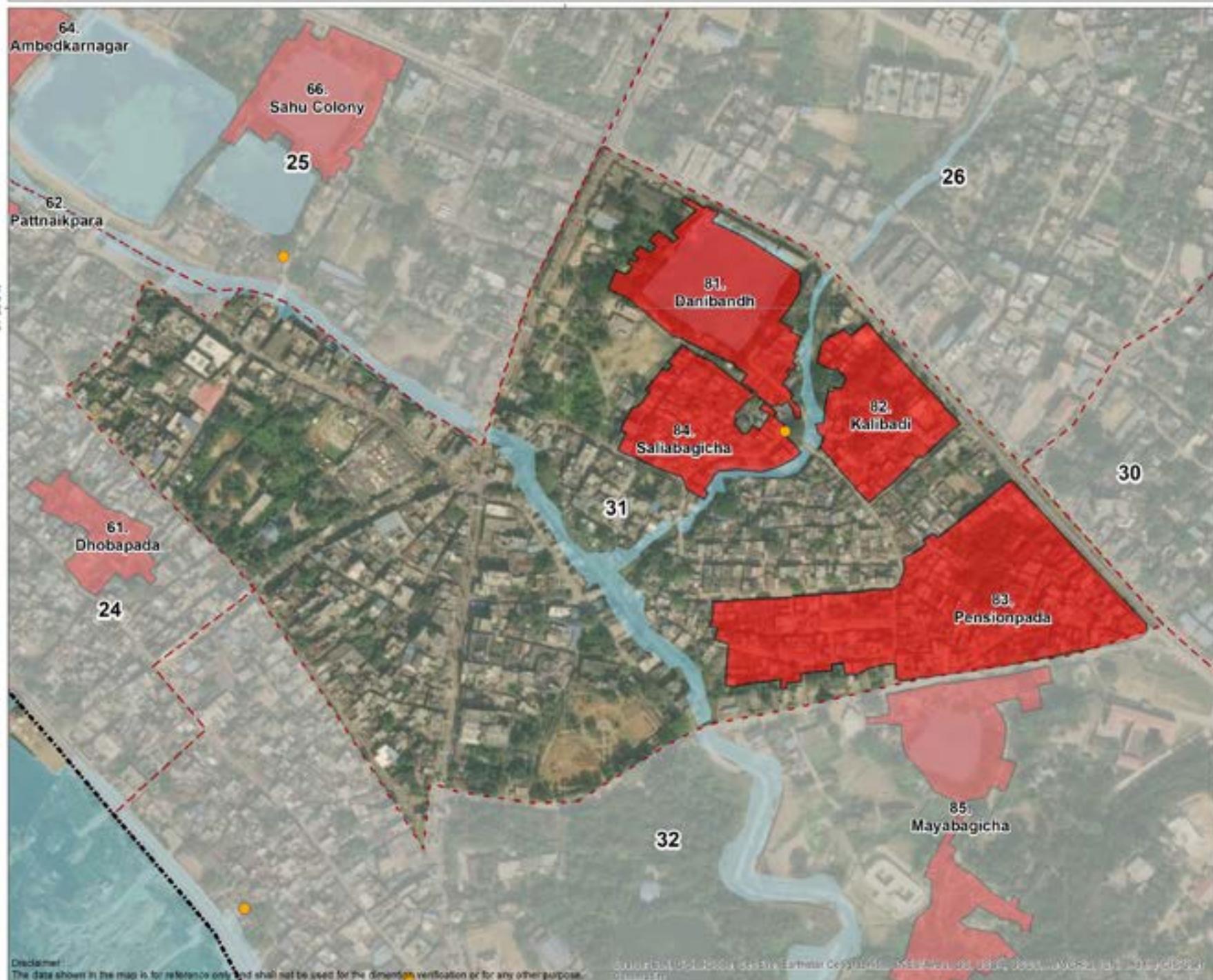
% of HHs segregating waste

67%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



81. Danibandh

Sambalpur

Slum name

DANIBANDH

Ward

31

Total number of households in the slum

107

Approximate area of the slum

1.9 ha

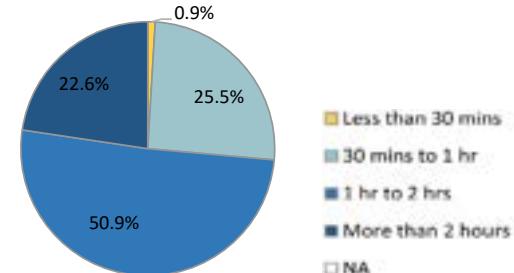


1. Access to municipal water supply

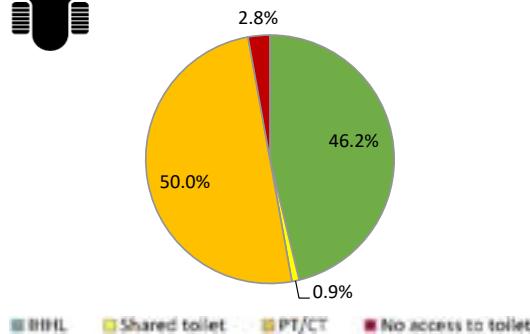
% of HHs with individual water tap connection **76%**

% of HHs satisfied with the quality of water supplied **83%**

Duration of daily water supply



2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit **55%**

Number of HHs having IHHL **49**

% of functional IHHLs **88%**

Number of PT/CTs near the slum **1**

Total number of persons dependent on PT/CTs **149**

4. Solid waste management system

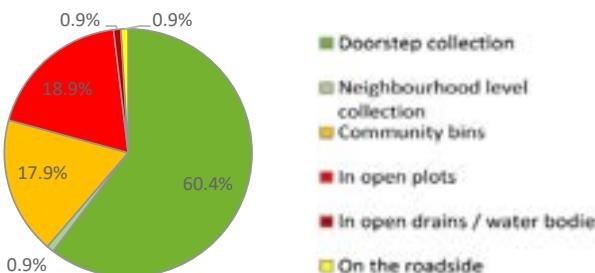


Total waste generation (kg)

146

% of HHs segregating waste **54%**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



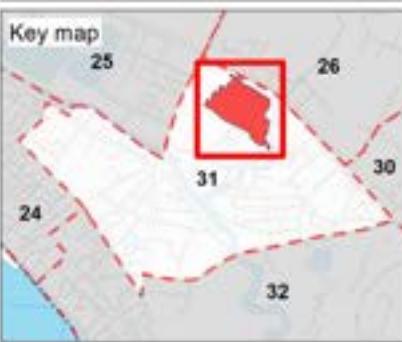
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Sambalpur

Danibandh (Ward No. 31)



House ownership

- Owned
 - Rented
 - Locked house
 - Other structures
 - Functional Community Toilet
 - Slum boundary

As per the verbal information provided by the respondents.

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale







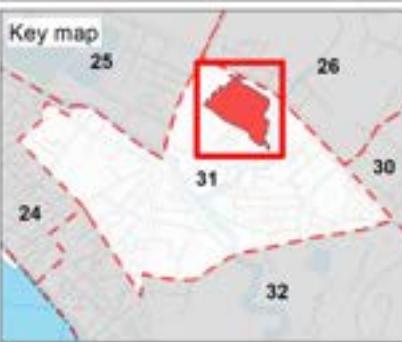
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UMANITAS MANAGEMENT CENTRE

Sambalpur

Danibandh (Ward No. 31)



Household size



Source:

Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Commercial Area

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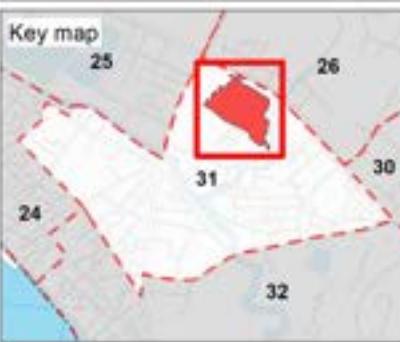
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Sambalpur

Danibandh (Ward No. 31)



Elderly citizen

- Legend:

 - HH have elderly citizen
 - Locked house
 - Other structures
 - Functional Community Toilet
 - Slum boundary

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :



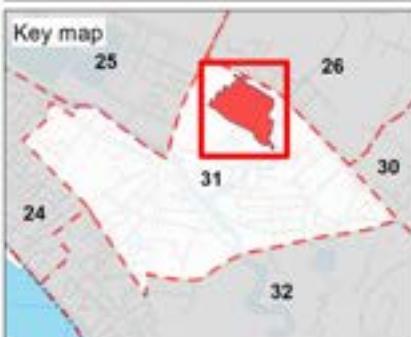
Commercial Area

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100% 安全

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Household with PWD*

- Yes
- No
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

* Person with Disabilities





Household part of SHG

- Yes
 - Locked house
 - Other structures
 - Functional Community Toilet
- Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur. Odisha.

Scale :
0 10 20 40 60

Disclaimer:

The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

83°58'30"E

83°58'35"E





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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Danibandh (Ward No. 31)

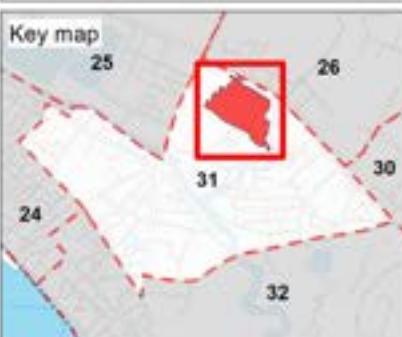
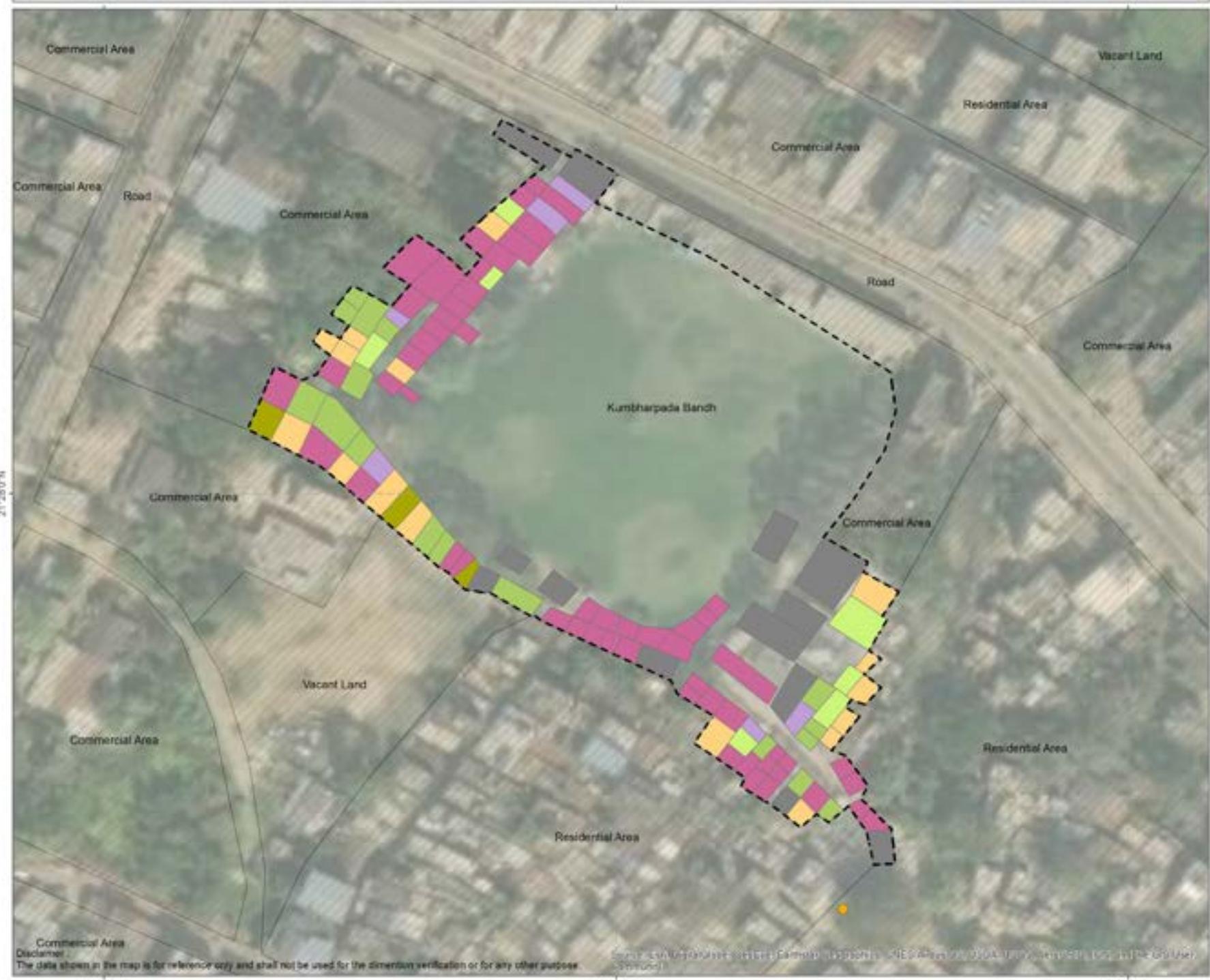




Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60
m



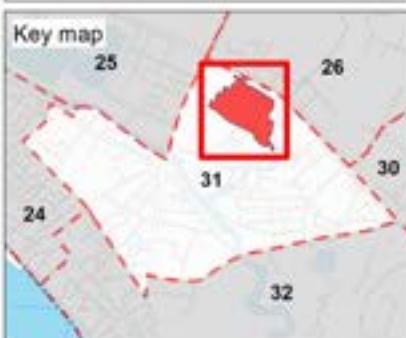


IHHL connected to :

- Septic tank
- Soak pit
- Twin pit
- Open drain
- Non-Functional IHHL
- No IHHL
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.





Grey water disposed to :

- Septic tank
- Single pit
- Open drain
- Water let out on streets
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60
m





82. Kalibadi

Sambalpur

Slum name

KALIBADI (DALEIPADA)

Ward

31

Total number of households in the slum

116

Approximate area of the slum

1.4 ha



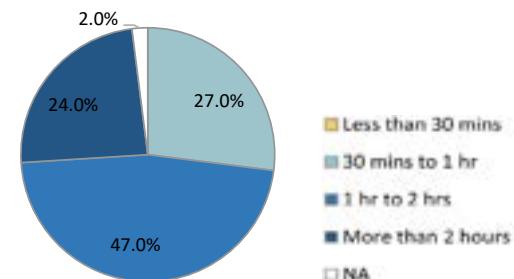
1. Access to municipal water supply



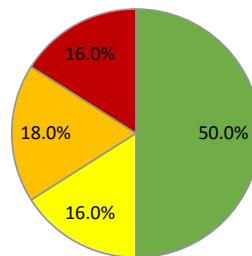
% of HHs with individual water tap connection **59%**

% of HHs satisfied with the quality of water supplied **93%**

Duration of daily water supply



2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit **50%**

Number of HHs having IHHL **50**

% of functional IHHLs **100%**

Number of PT/CTs near the slum **1**

Total number of persons dependent on PT/CTs **78**

4. Solid waste management system

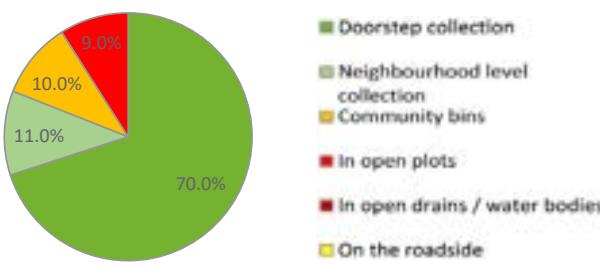


Total waste generation (kg)

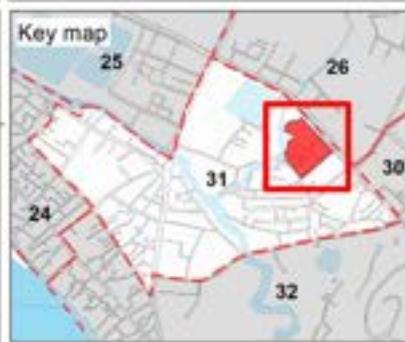
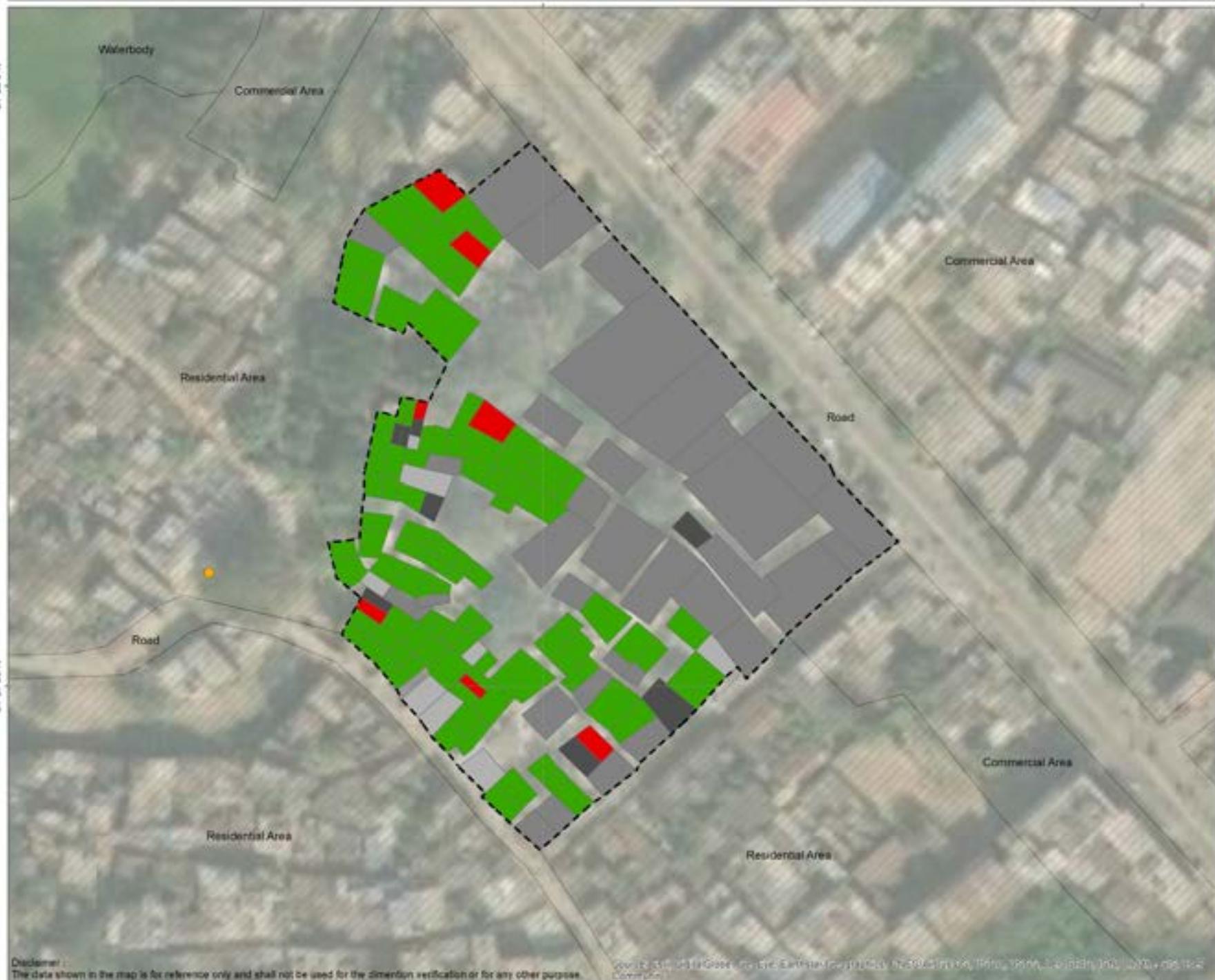
146

% of HHs segregating waste **63%**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



House ownership

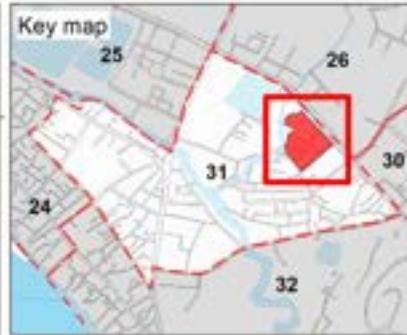
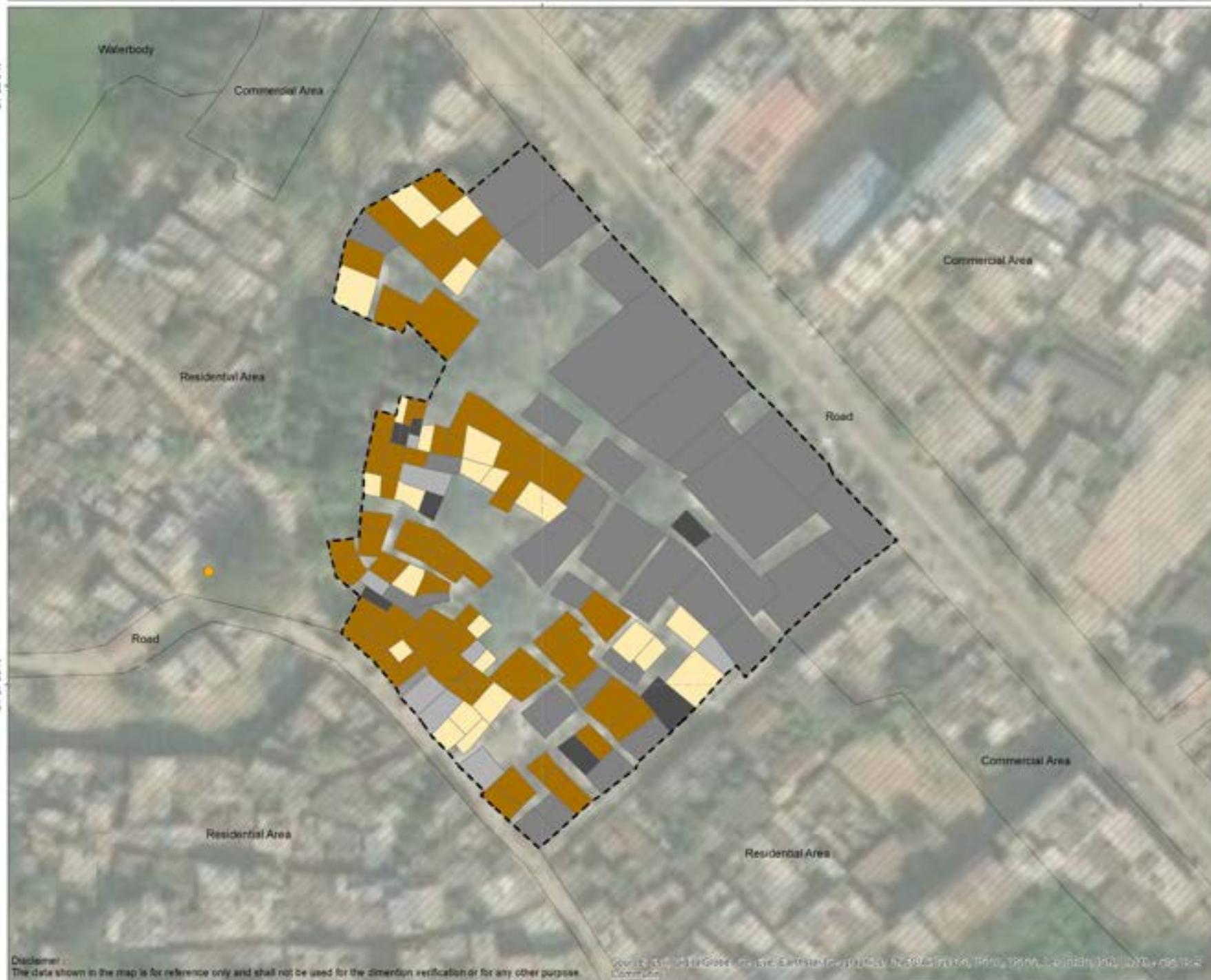
- Owned
- Rented
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

As per the verbal information provided by the respondents.

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40



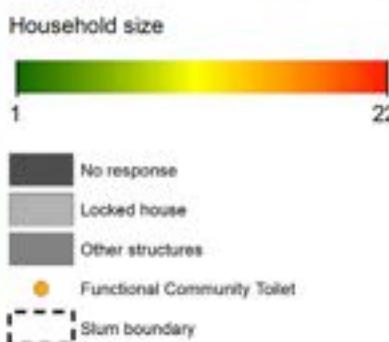
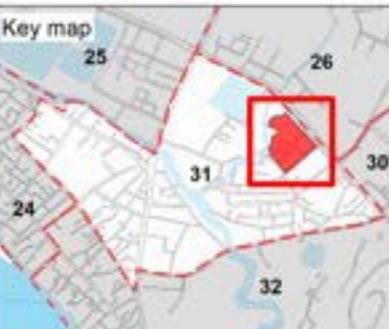
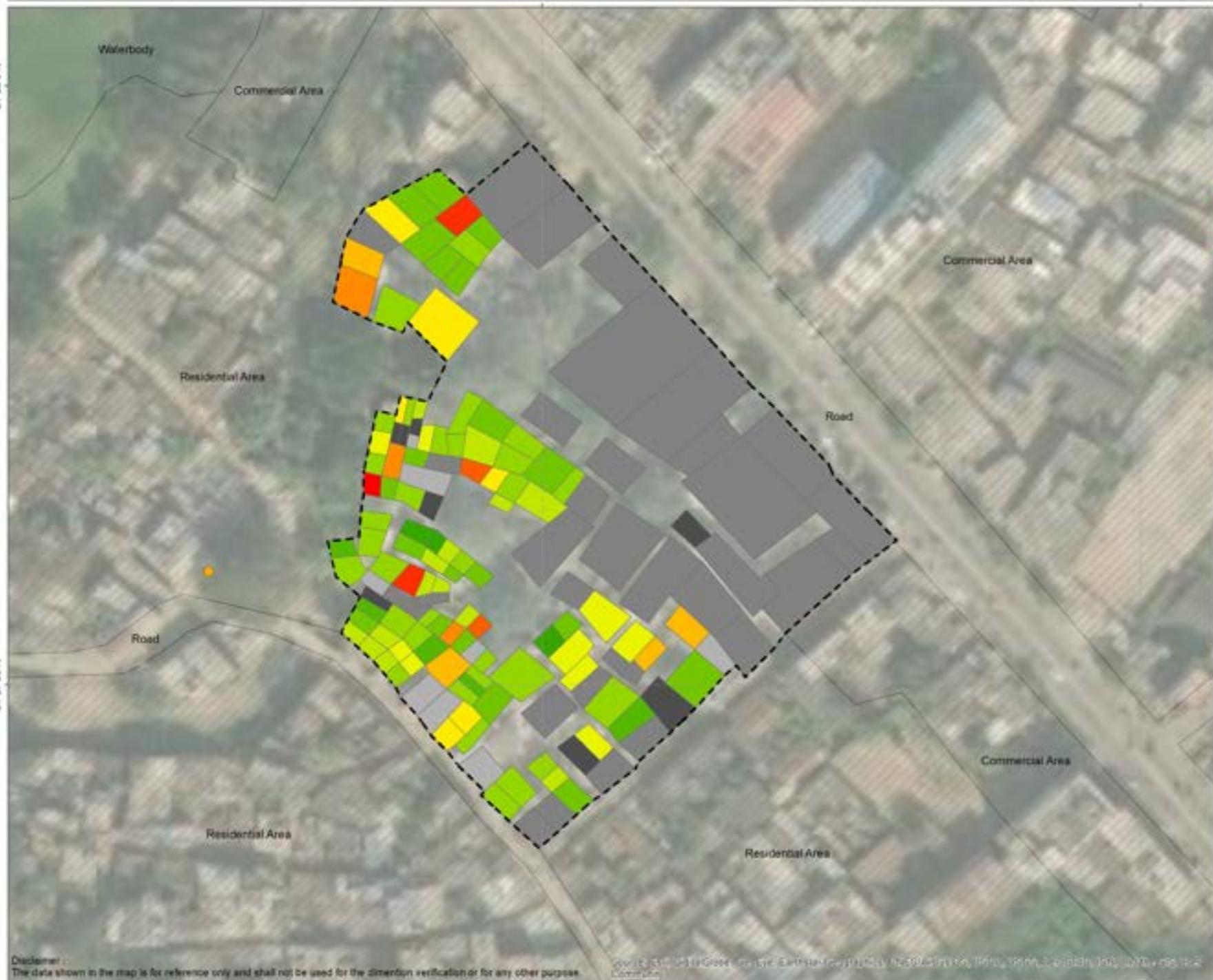

Number of floors in the building

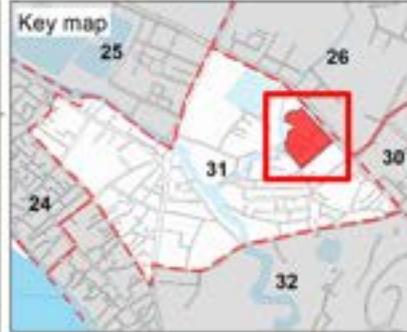
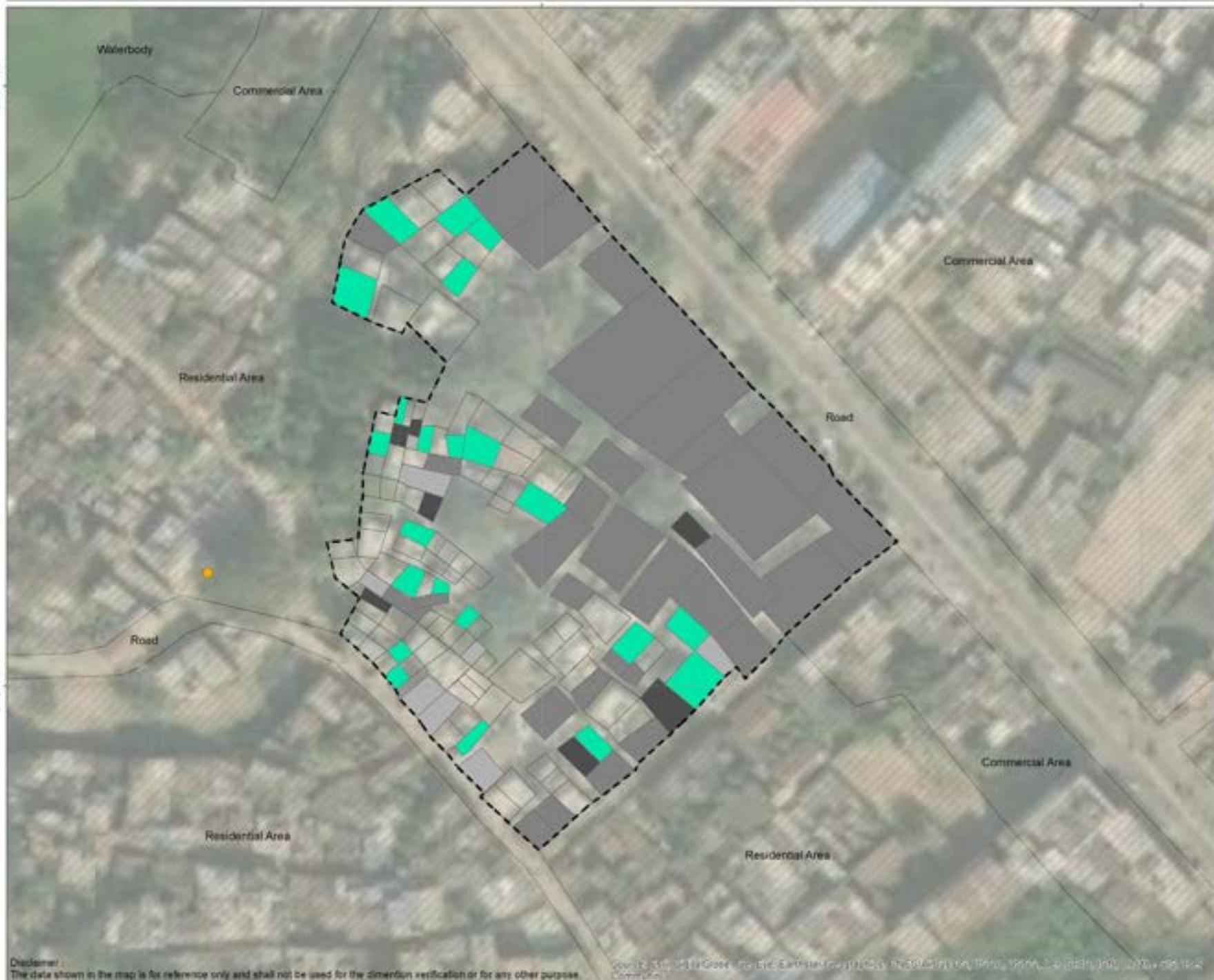
- Ground floor
- Ground floor + 1
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre, (2019)
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40
 m







Elderly citizen

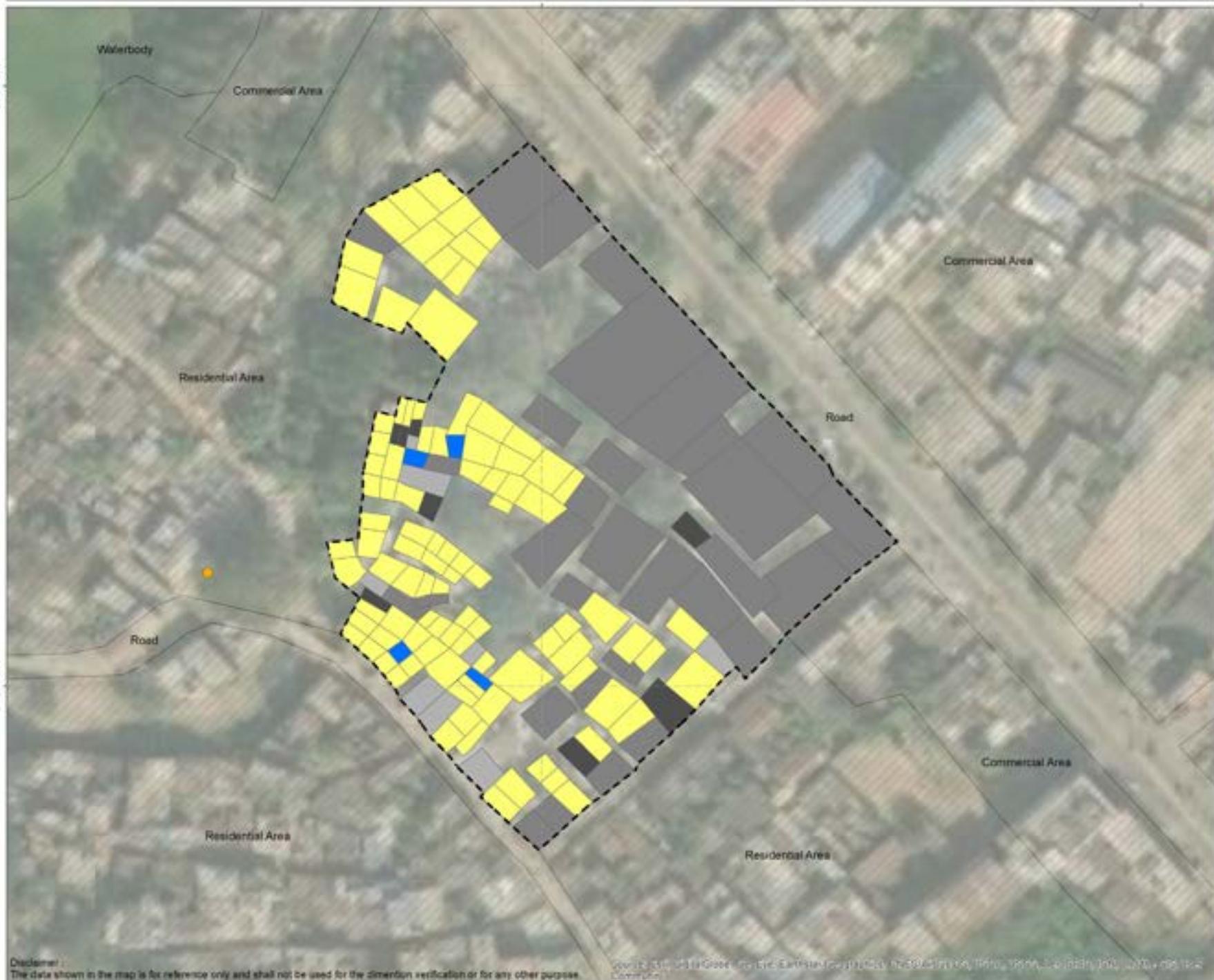
- HH have elderly citizen
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

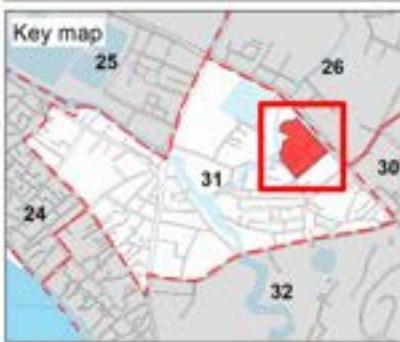
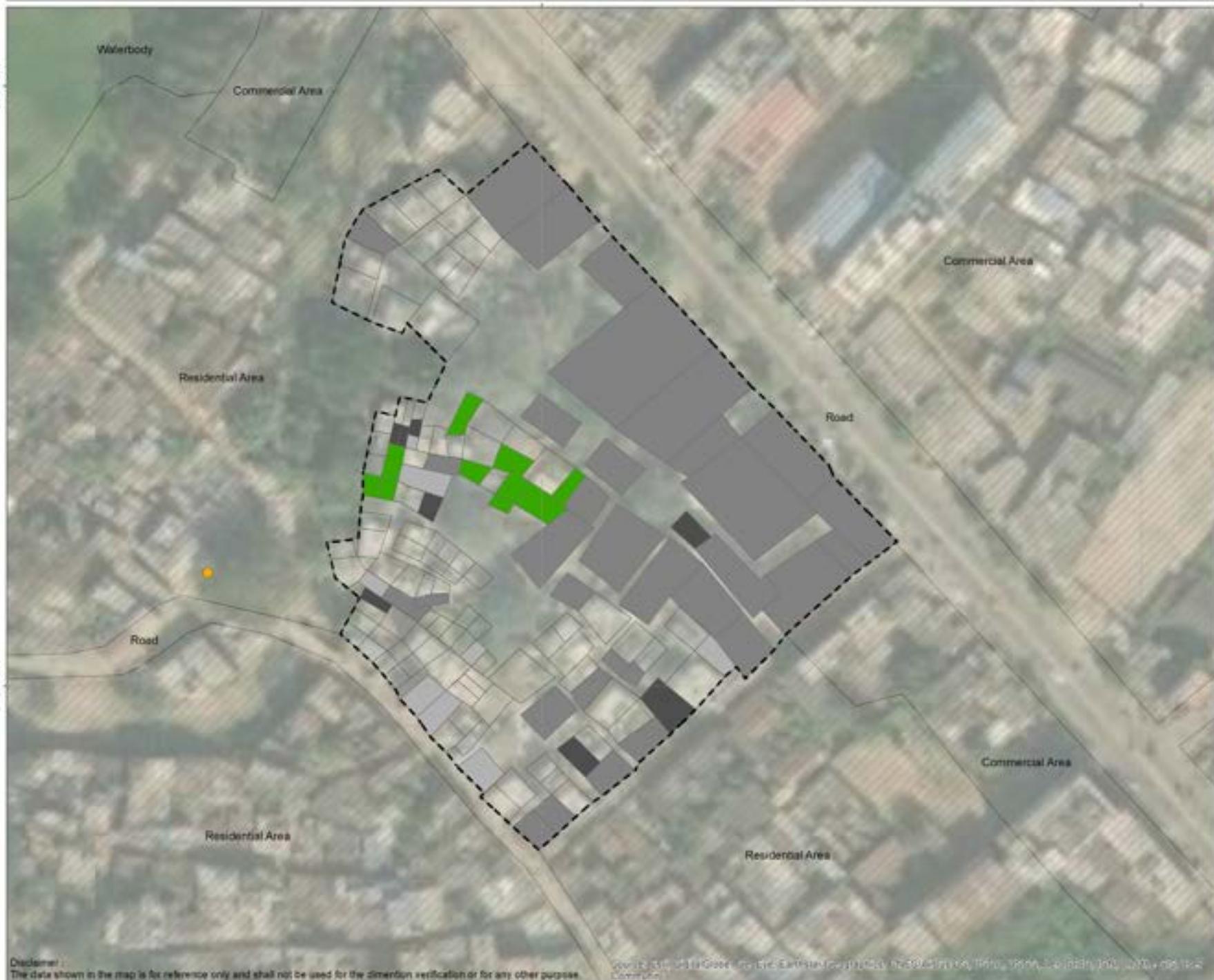
Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 10 20 40
m









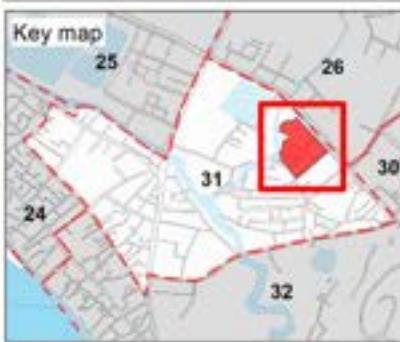
M I S A A L
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UMC
Urban Management Centre

Sambalpur

Kalbadi (Ward No. 31)



Source of water in household

- The legend consists of seven color-coded squares and one dashed-line square, each associated with a text label:

 - Dark Green: Tap connection at home
 - Light Green: Tap connection at home & Fetching water from neighbourhood
 - Olive Green: Stand post
 - Brown: Fetching water from neighbourhood
 - Orange: Bore Well
 - Dark Grey: No response
 - Medium Grey: Locked house
 - Light Grey: Other structures
 - Yellow circle: Functional Community Toilet
 - Dashed black border: Slum boundary

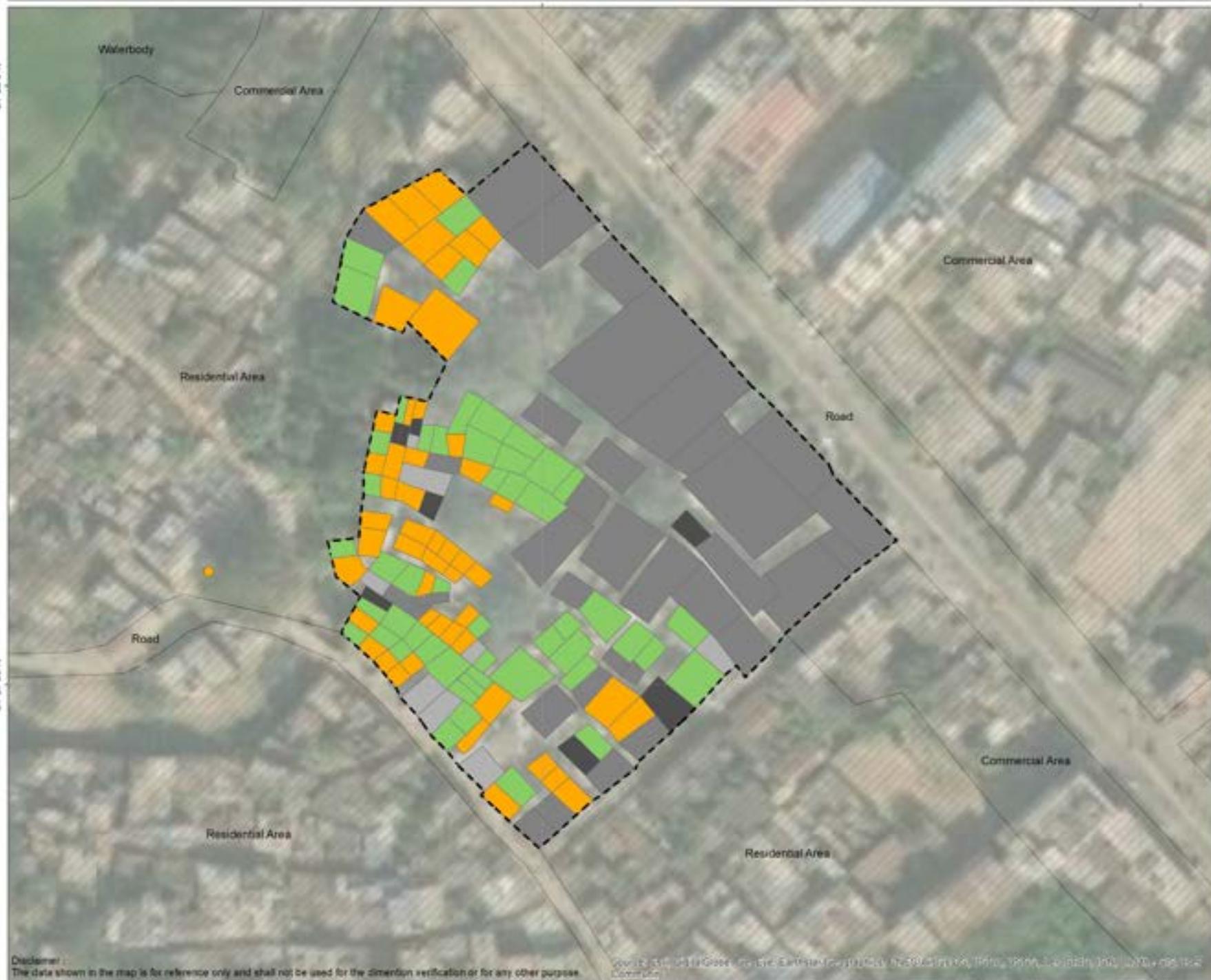
Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

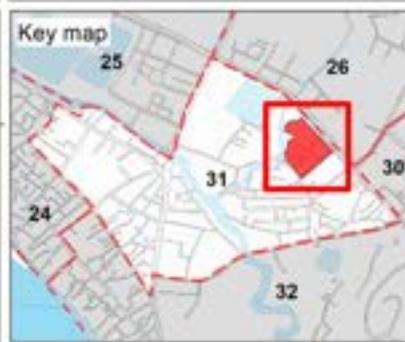
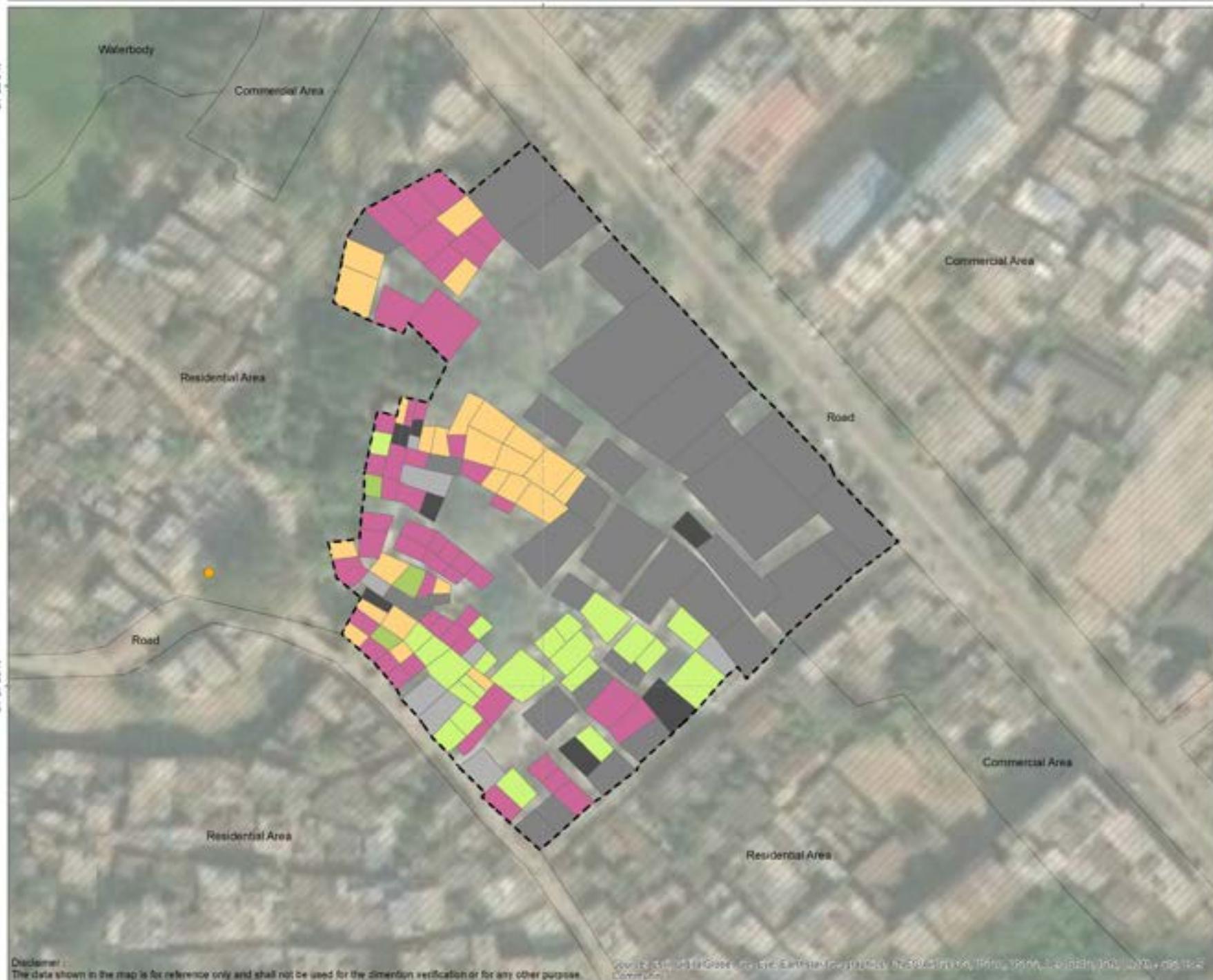
Scale

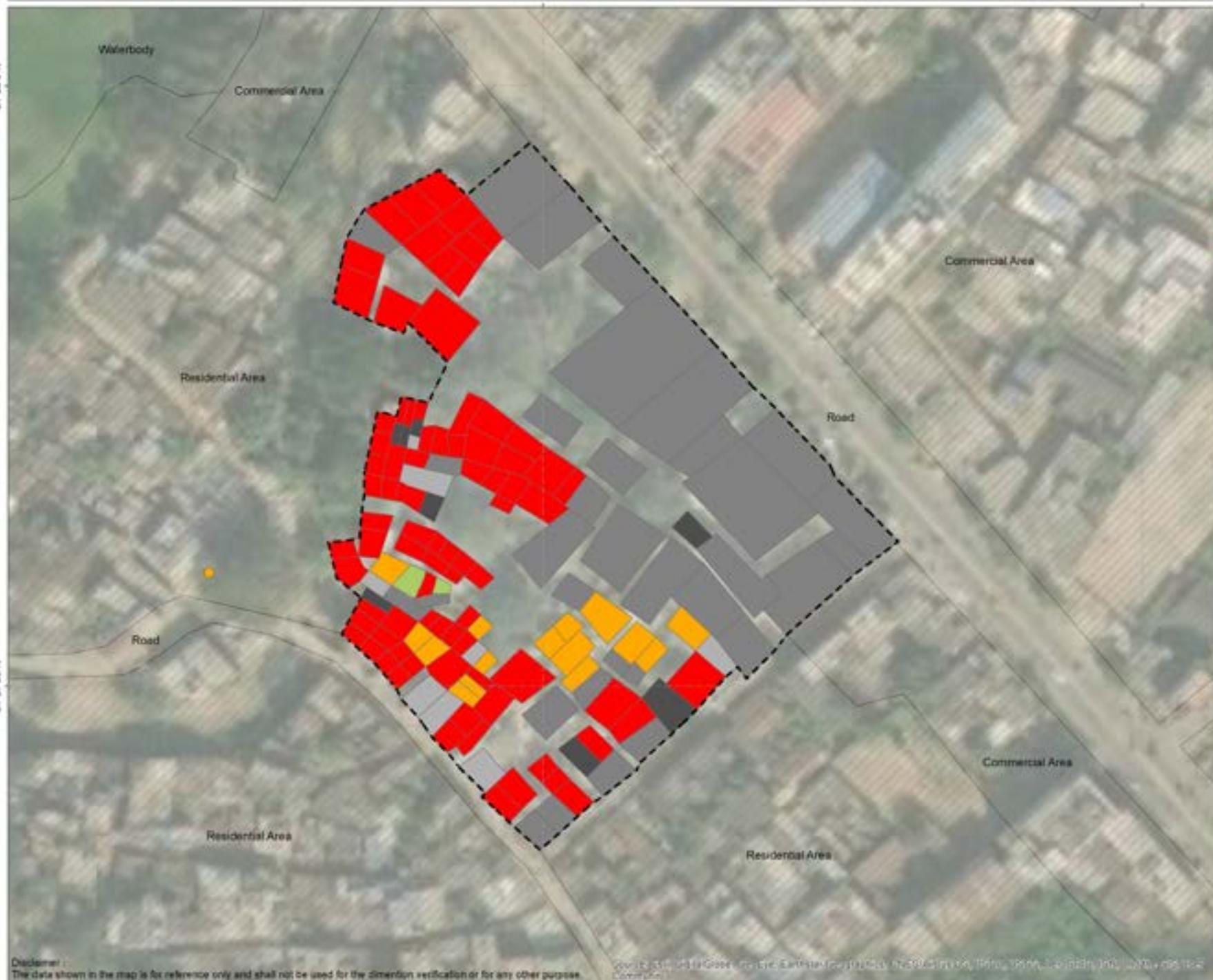


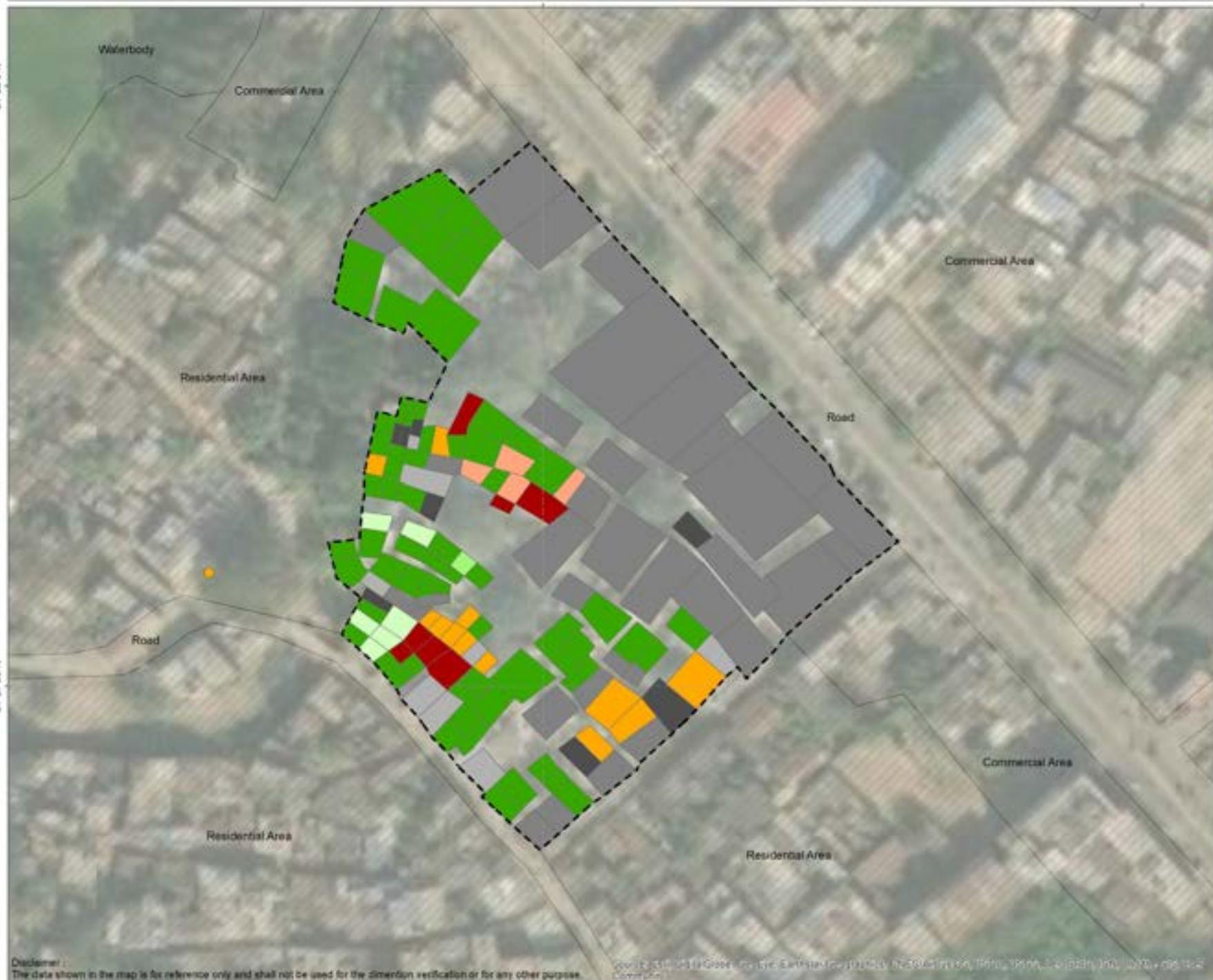
Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

10358457









Scale : 0 10 20 40 m

N

83. Pensionpada

Sambalpur

Slum name
PENSIONPADA

Ward
31

Total number of households in the slum
186

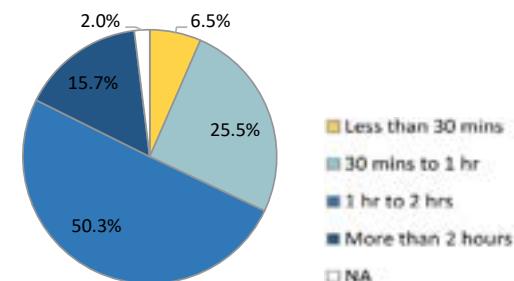
Approximate area of the slum
4.3 ha



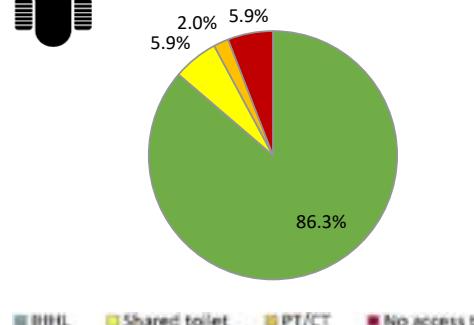
1. Access to municipal water supply

	% of HHs with individual water tap connection 50%
	% of HHs satisfied with the quality of water supplied 91%

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL
132

% of functional IHHLs
99%

Number of PT/CTs near the slum
1

Total number of persons dependent on PT/CTs
24

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit
79%

% of HHs connected with safe disposal system for grey water
42%

4. Solid waste management system

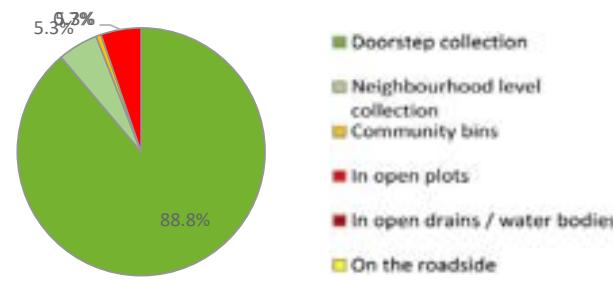


Total waste generation (kg)

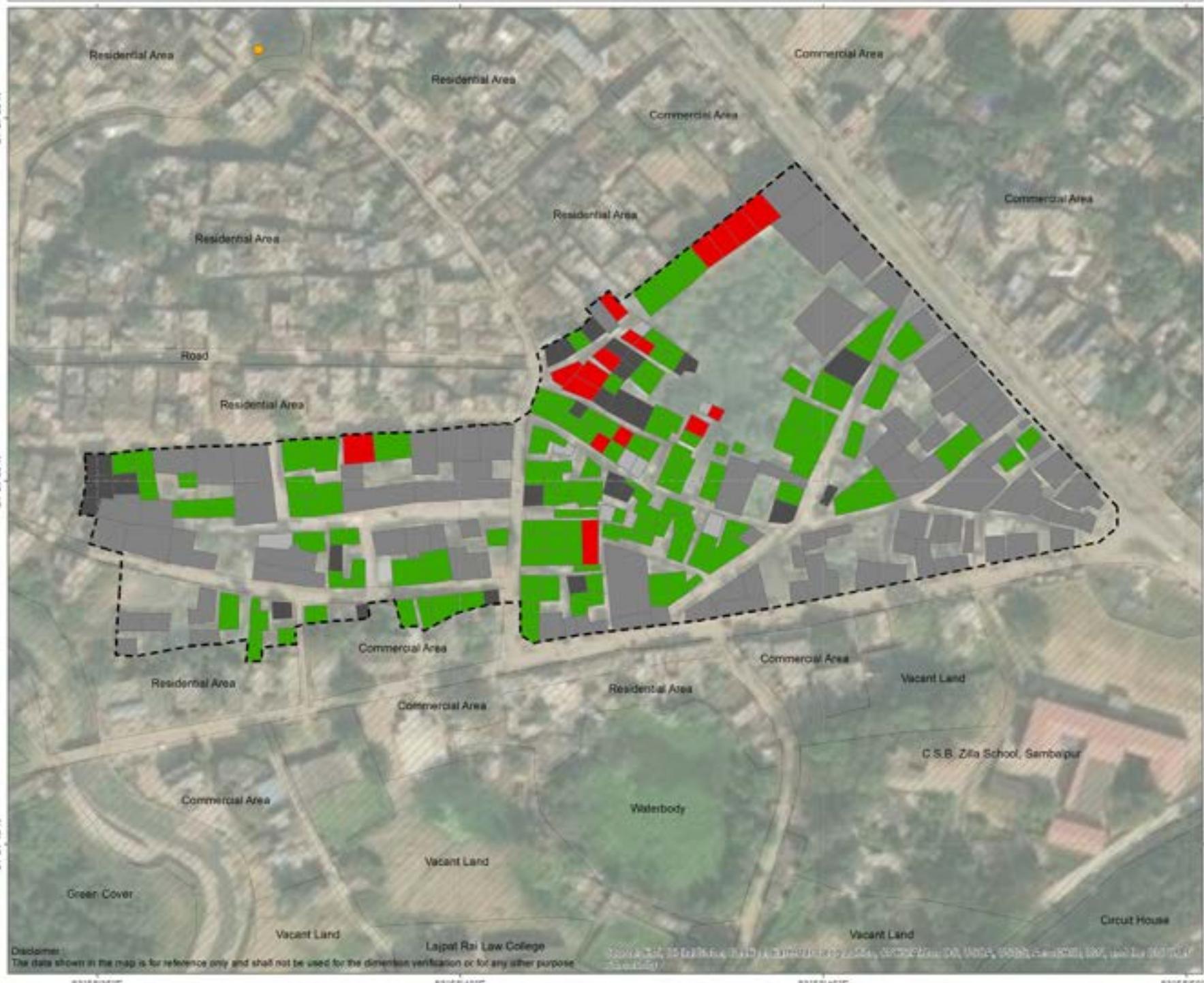
240

% of HHs segregating waste
75%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet





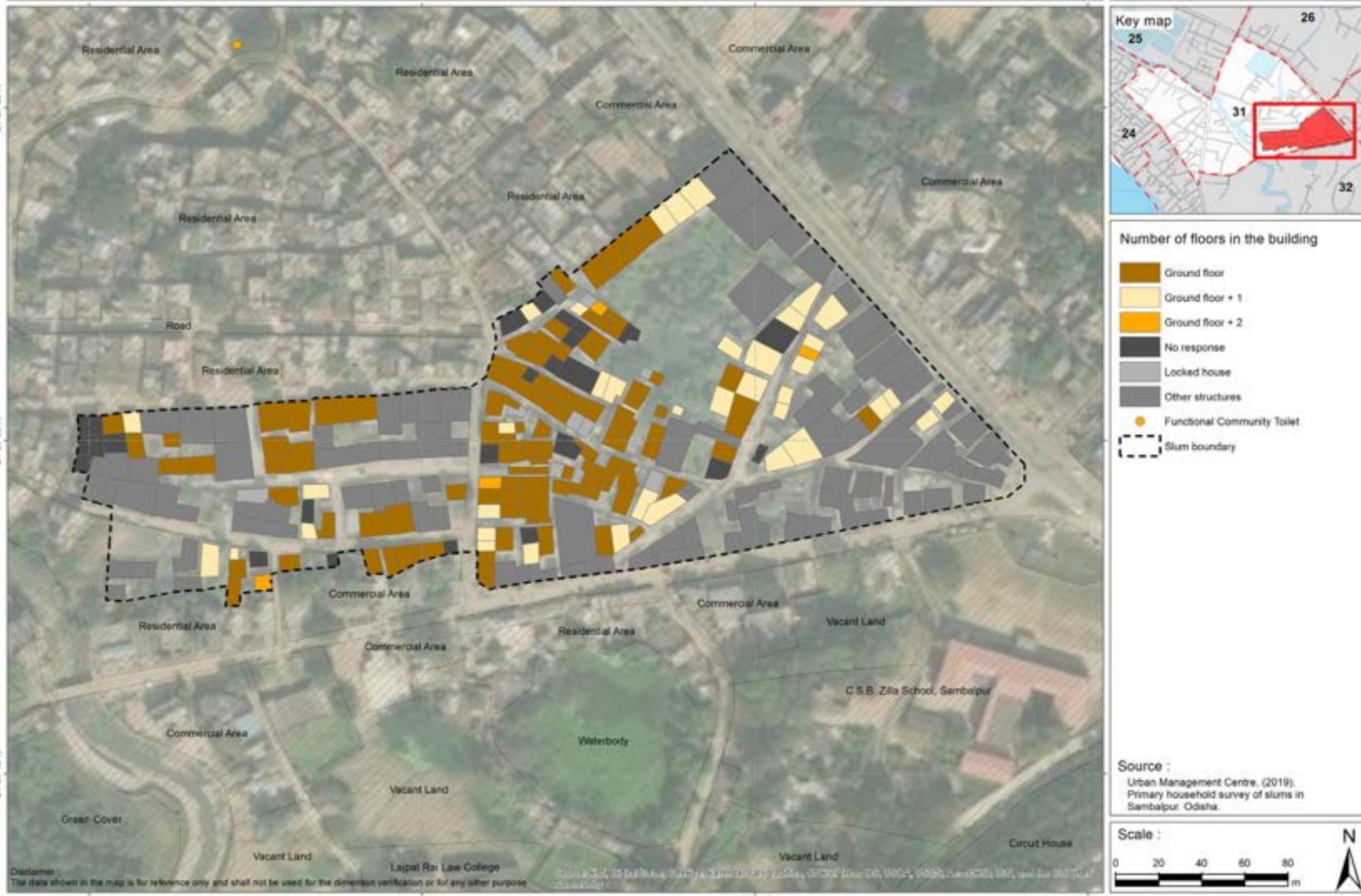
MISAAAL
MOVING INDIA TOWARDS SANITATION FOR ALL

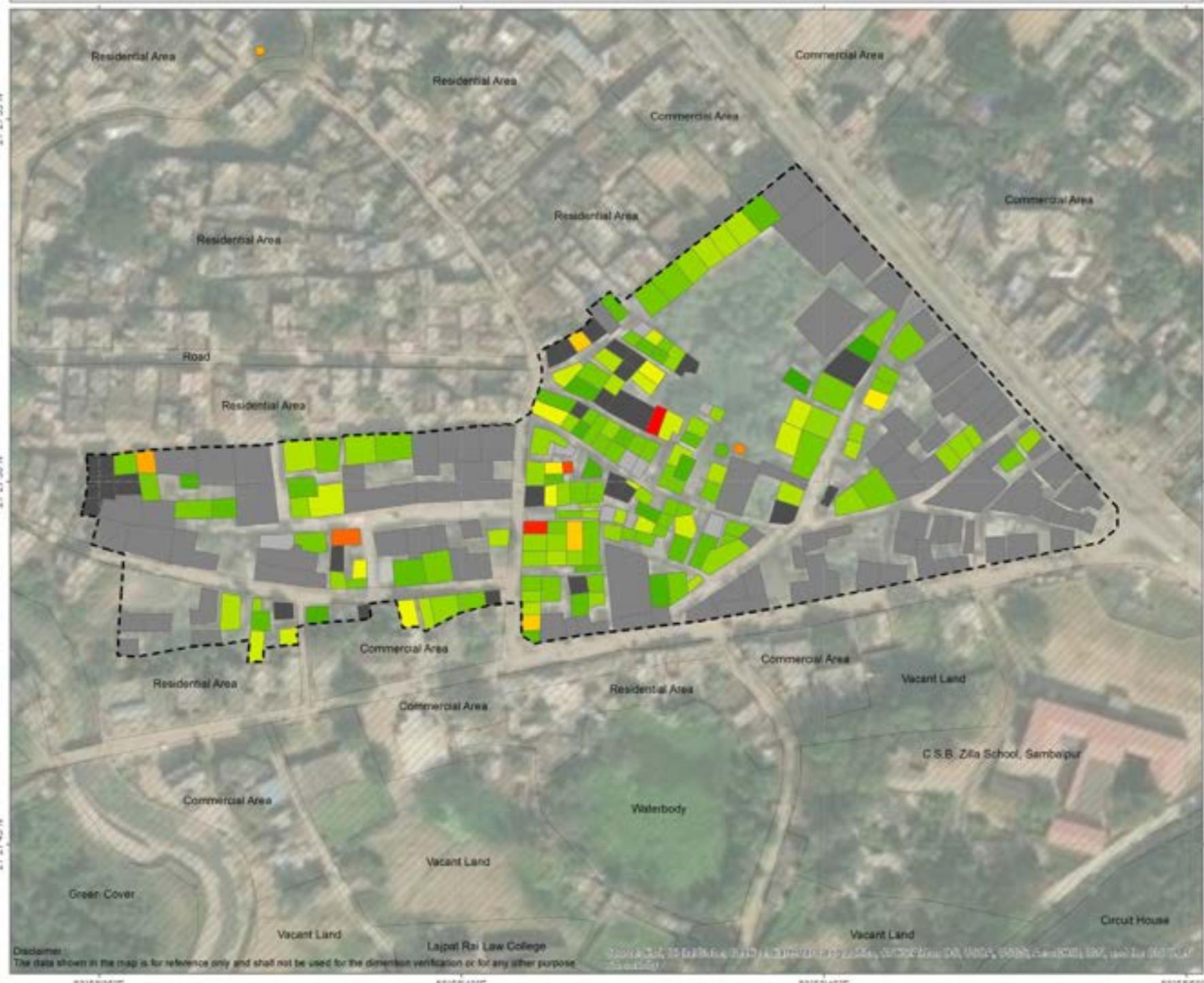


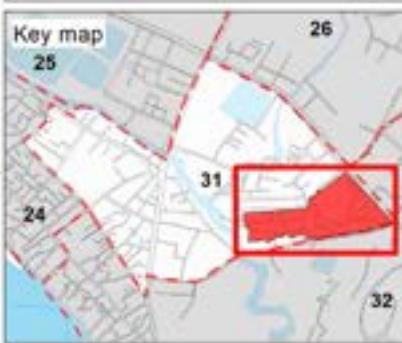
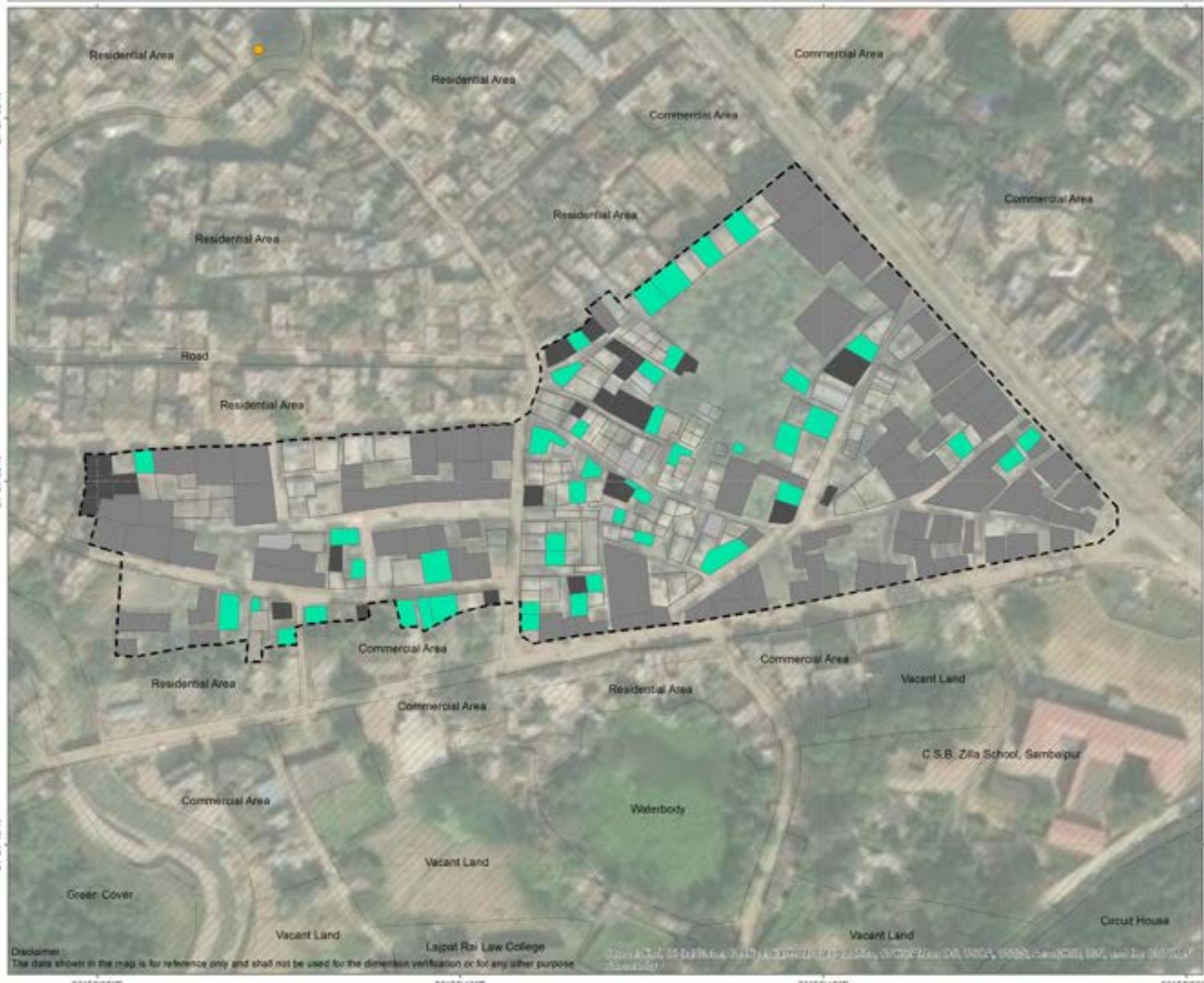
UMC
UMLAUF MUSIKAKADEMIE CÖLN

Sambalpur

Pensionpada (Ward No. 31)







Elderly citizen

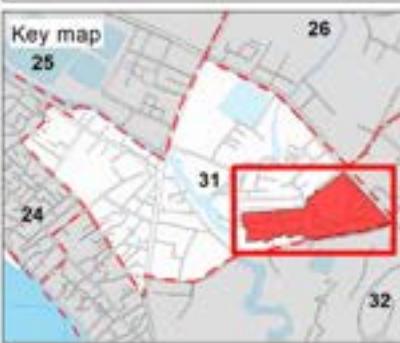
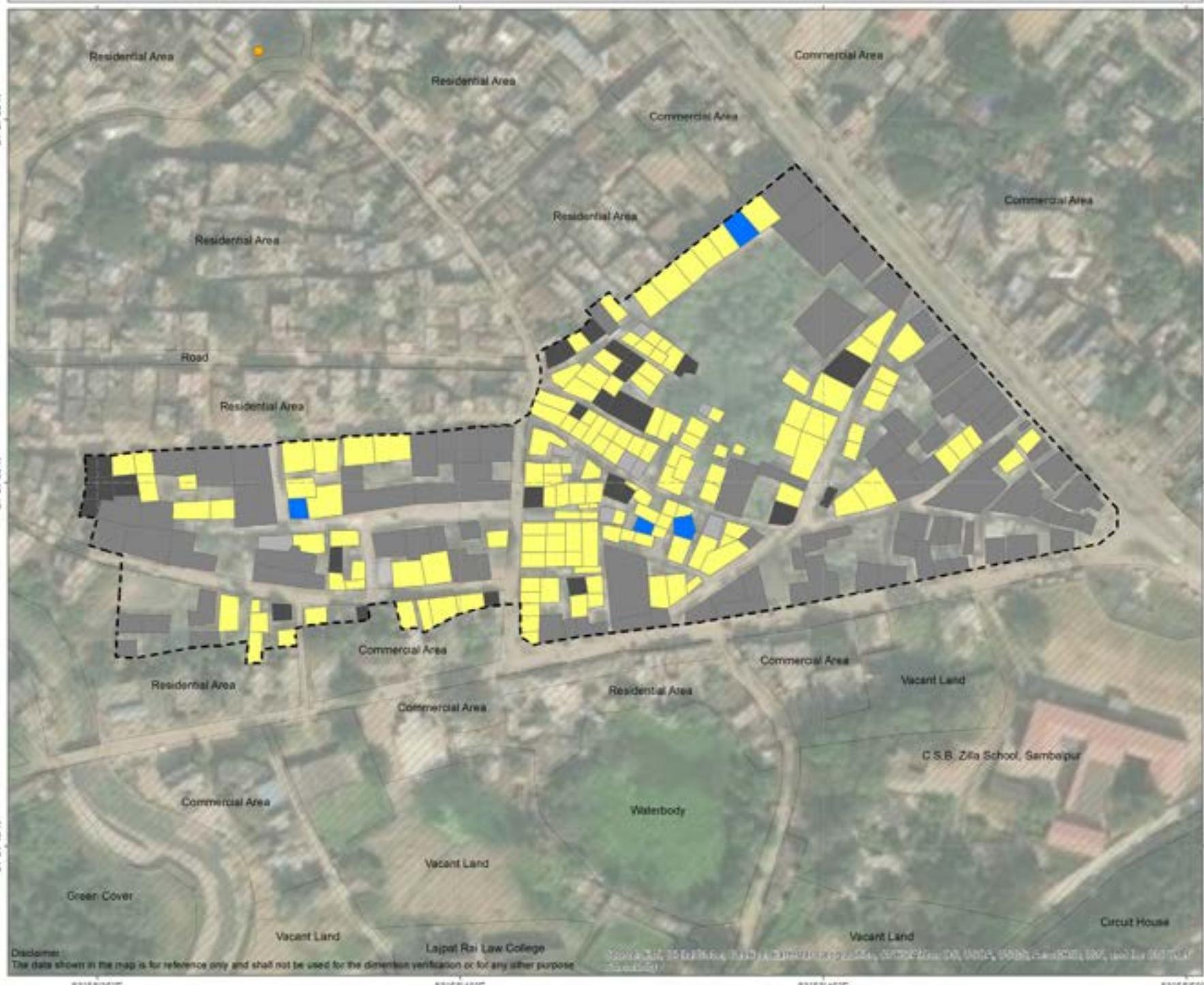
- HH have elderly citizen
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :

Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :





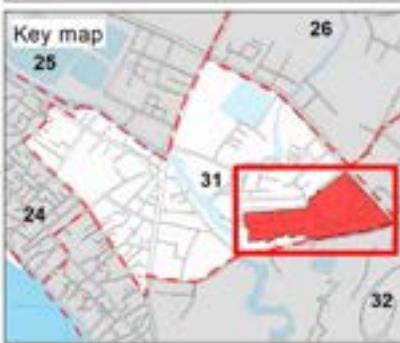
Household with PWD*

- Yes
- No
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

* Person with Disabilities

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.





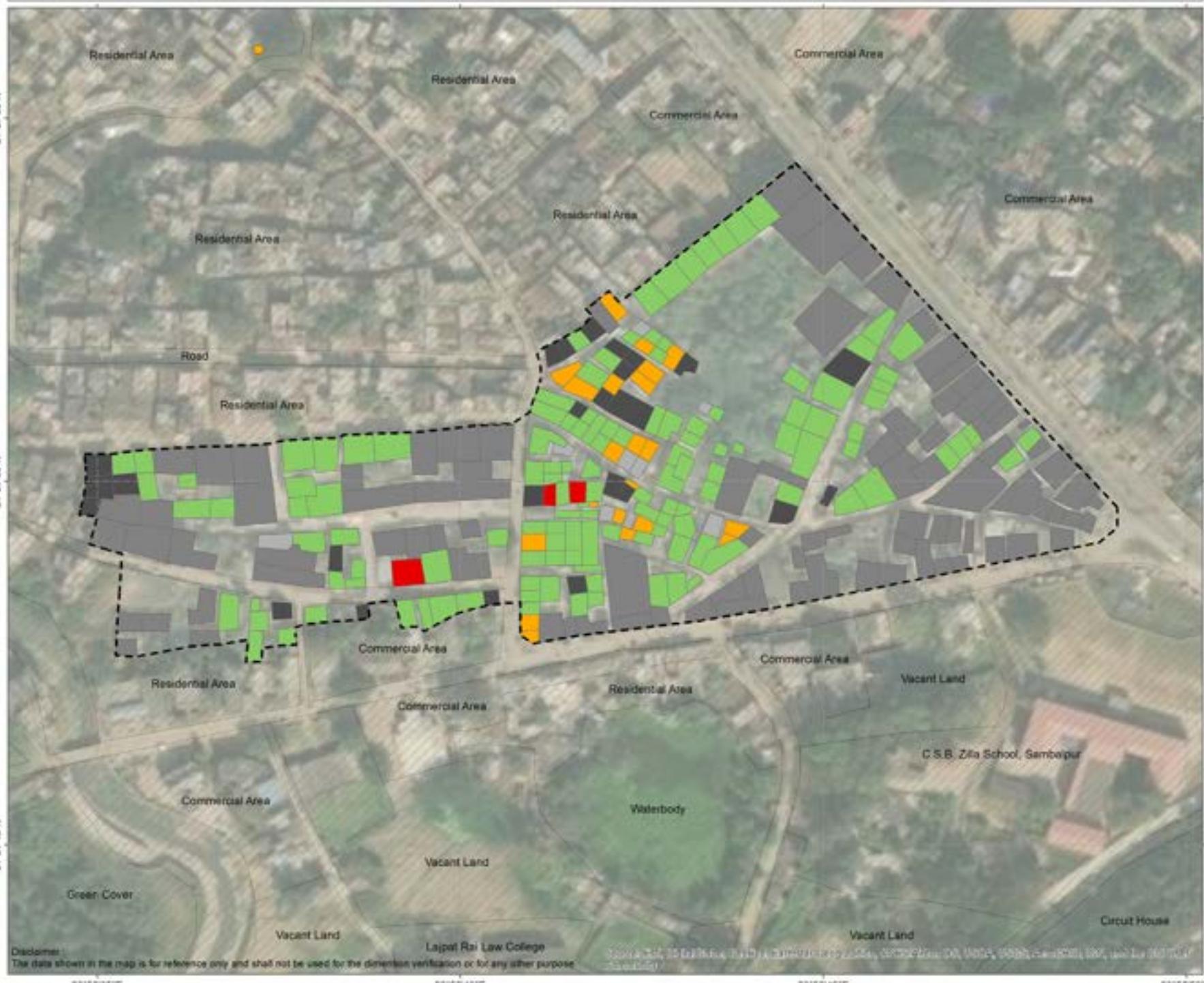
Source of water in household

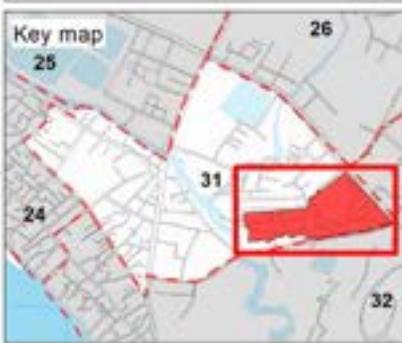
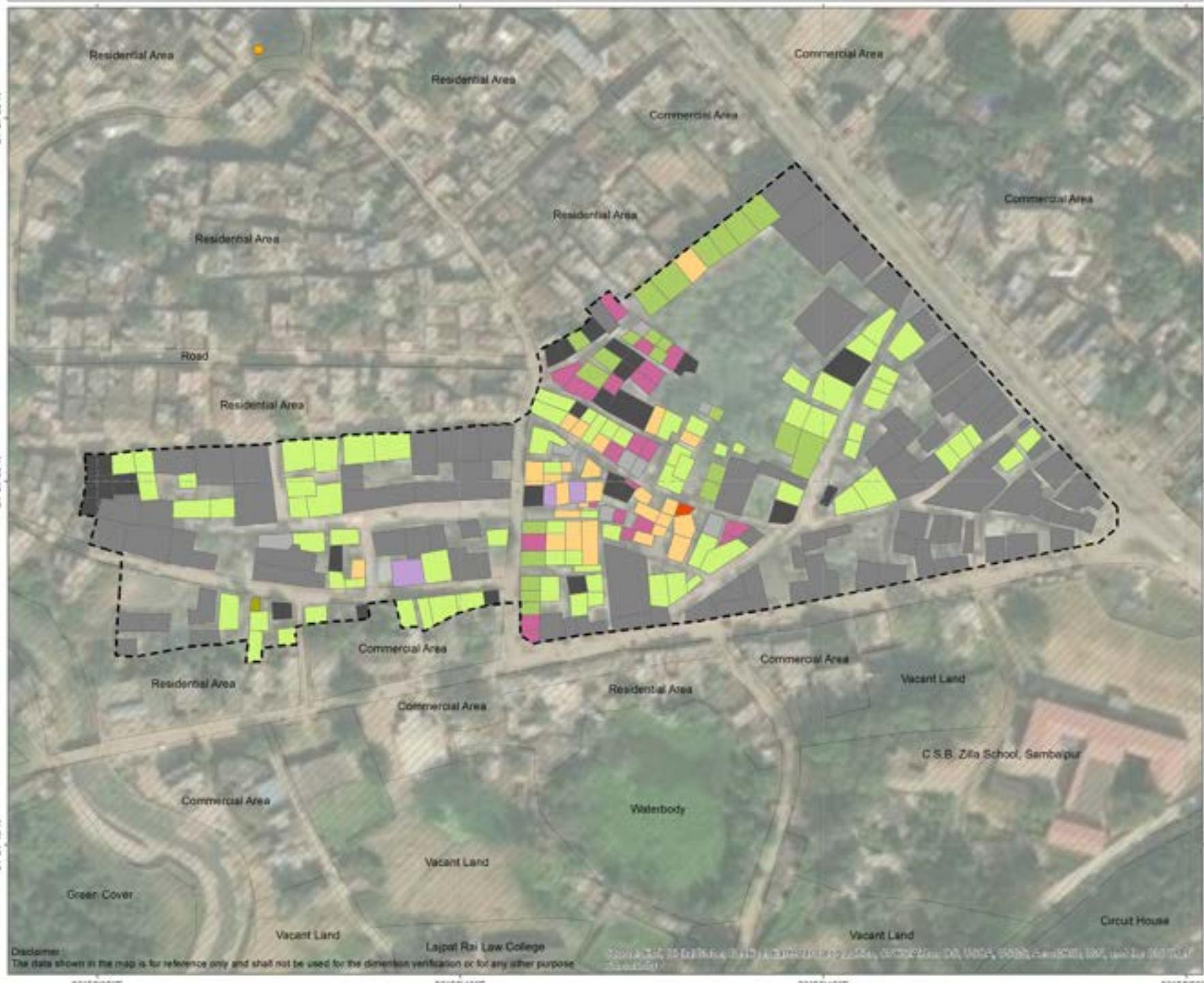
- [Dark Green] Tap connection at home
 - [Light Green] Tap connection at home, Hand pump & Fetching water from neighbourhood
 - [Yellow-green] Tap connection at home & Fetching water from neighbourhood
 - [Light Blue] Tap connection at home & Private water tanker
 - [Brown] Stand post
 - [Yellow] Stand post & Fetching water from neighbourhood
 - [Purple] Water tanker (Government)
 - [Dark Purple] Private water tanker
 - [Yellow] Hand pump
 - [Black] No response
 - [Grey] Locked house
 - [Dark Grey] Other structures
 - [Orange dot] Functional Community Toilet
- [Dashed Box] Slum boundary

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 20 40 60 80 m







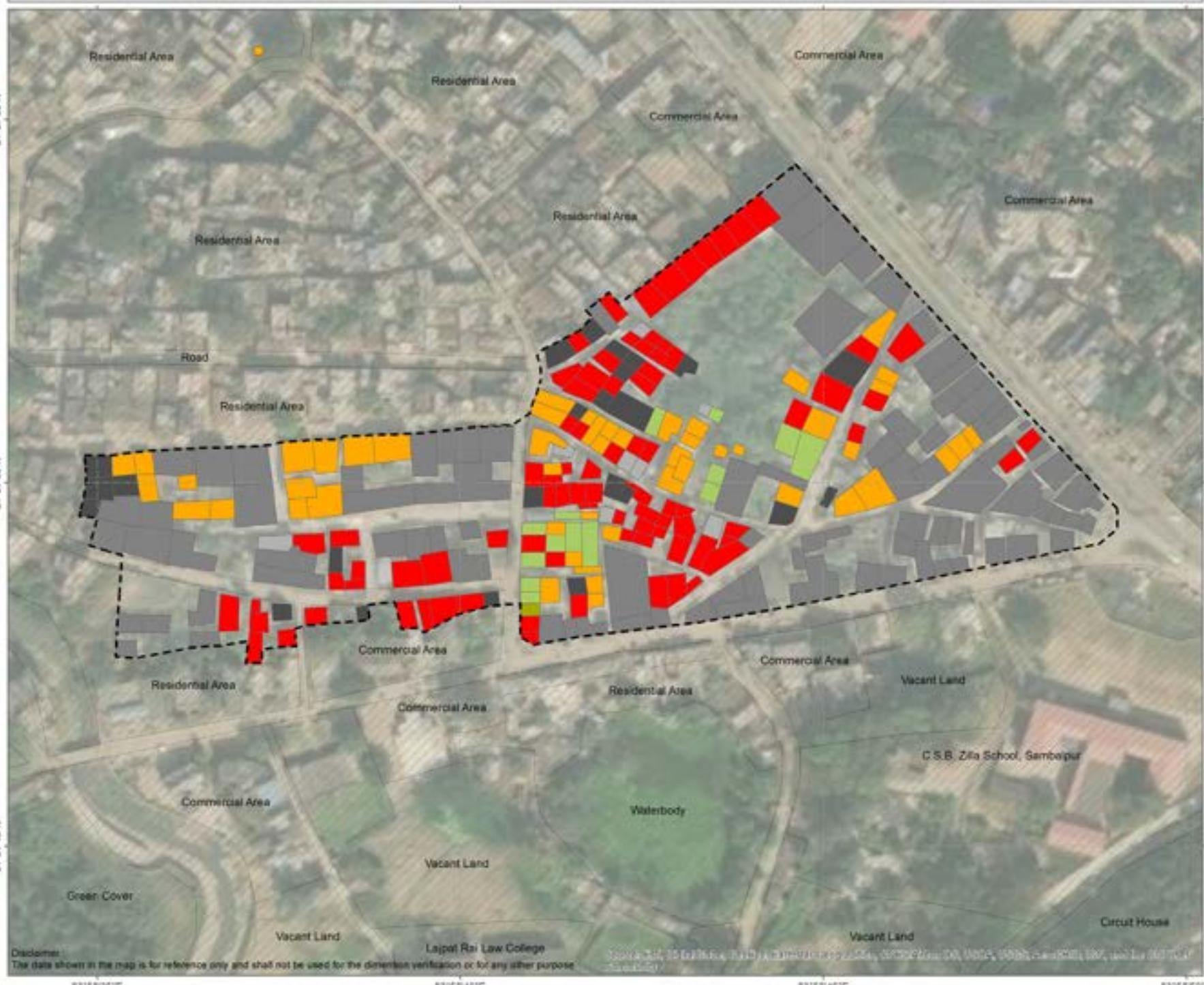
IHHL connected to :

- Septic tank
- Twin pit
- Soak pit
- Open drain
- No connection for disposal
- Non-Functional IHHL
- No IHHL
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 20 40 60 80 m





Grey water disposed to :

- Septic tank
- Twin pit
- Single pit
- Open drain
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

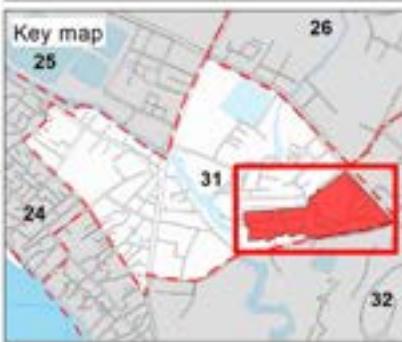
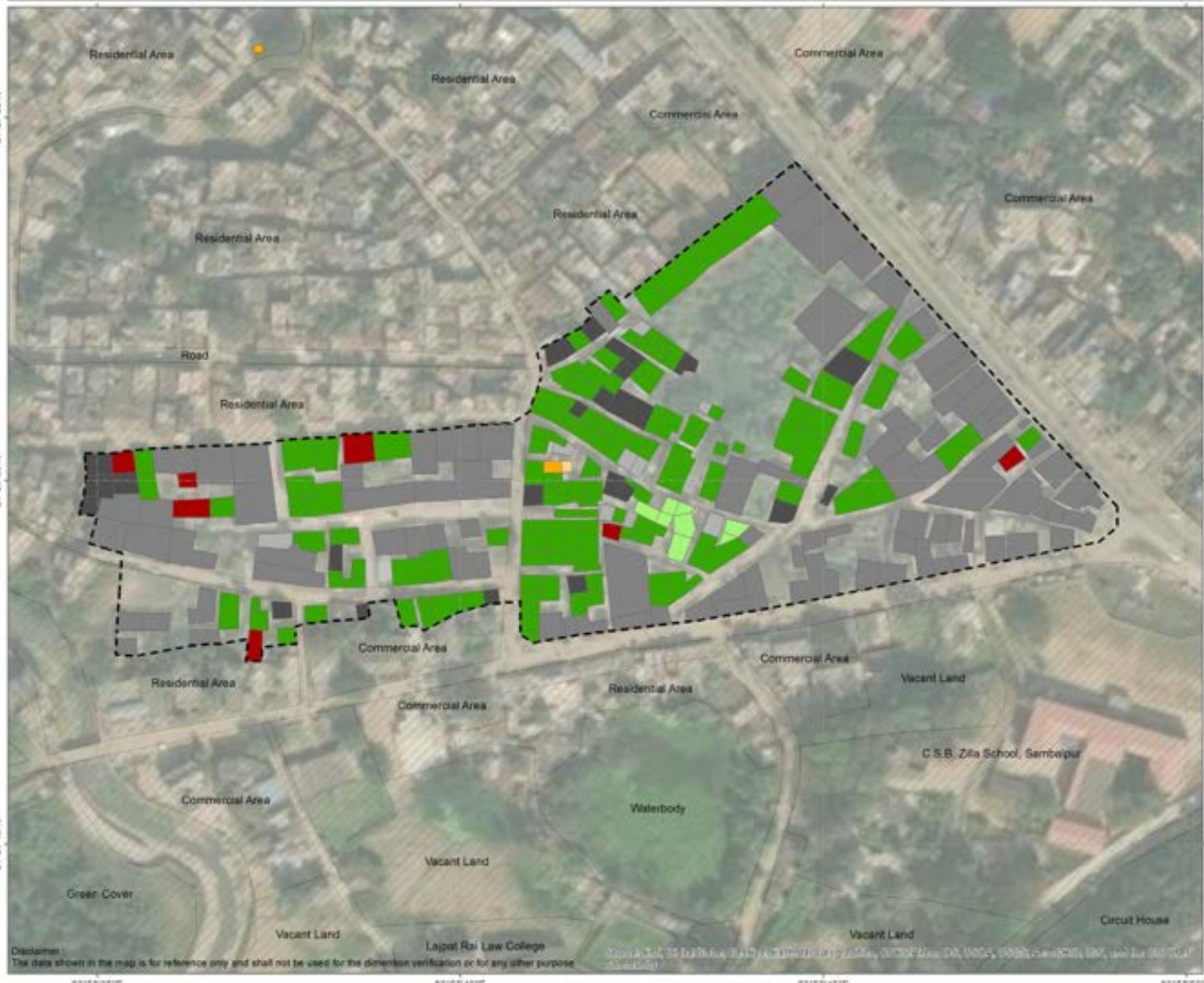
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 60 80 m





Pensionpada (Ward No. 31)



Household disposing solid waste to :

- The legend consists of eight color-coded squares and one dashed-line square, each paired with a text label:

 - Green square: D to D service
 - Light green square: Handover to municipal waste collector & Nearby community bin
 - Orange square: Nearby community bin
 - Yellow square: Nearby community bin & In open plot
 - Red square: In open plot
 - Dark grey square: No response
 - Light grey square: Locked house
 - Grey square: Other structures
 - Dashed-line square: Functional Community Toilet

Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:



Lajpat Rai Law College
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

84. Saliabagicha

Sambalpur

Slum name
SALIA BAGICHA

Ward
31

Total number of households in the slum
126

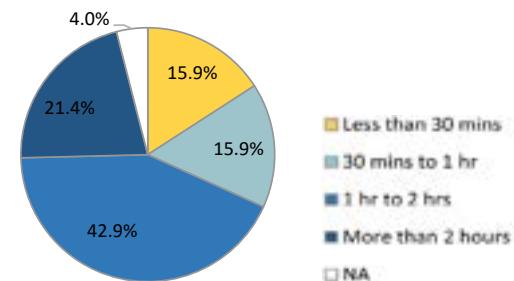
Approximate area of the slum
1.3 ha



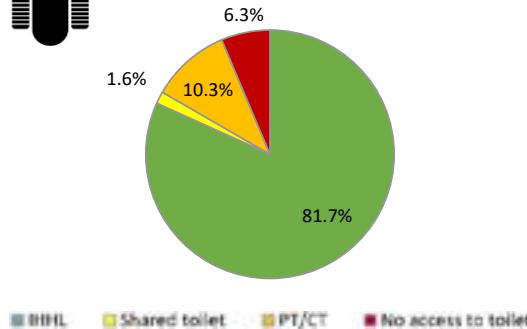
1. Access to municipal water supply

	% of HHs with individual water tap connection 78%
	% of HHs satisfied with the quality of water supplied 68%

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL
103

% of functional IHHLs
99%

Number of PT/CTs near the slum
1

Total number of persons dependent on PT/CTs
48

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit
59%

% of HHs connected with safe disposal system for grey water
31%

4. Solid waste management system

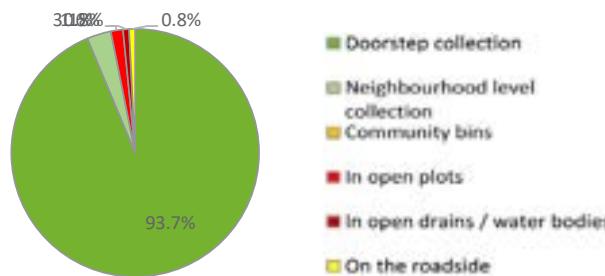


Total waste generation (kg)

159

% of HHs segregating waste
70%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



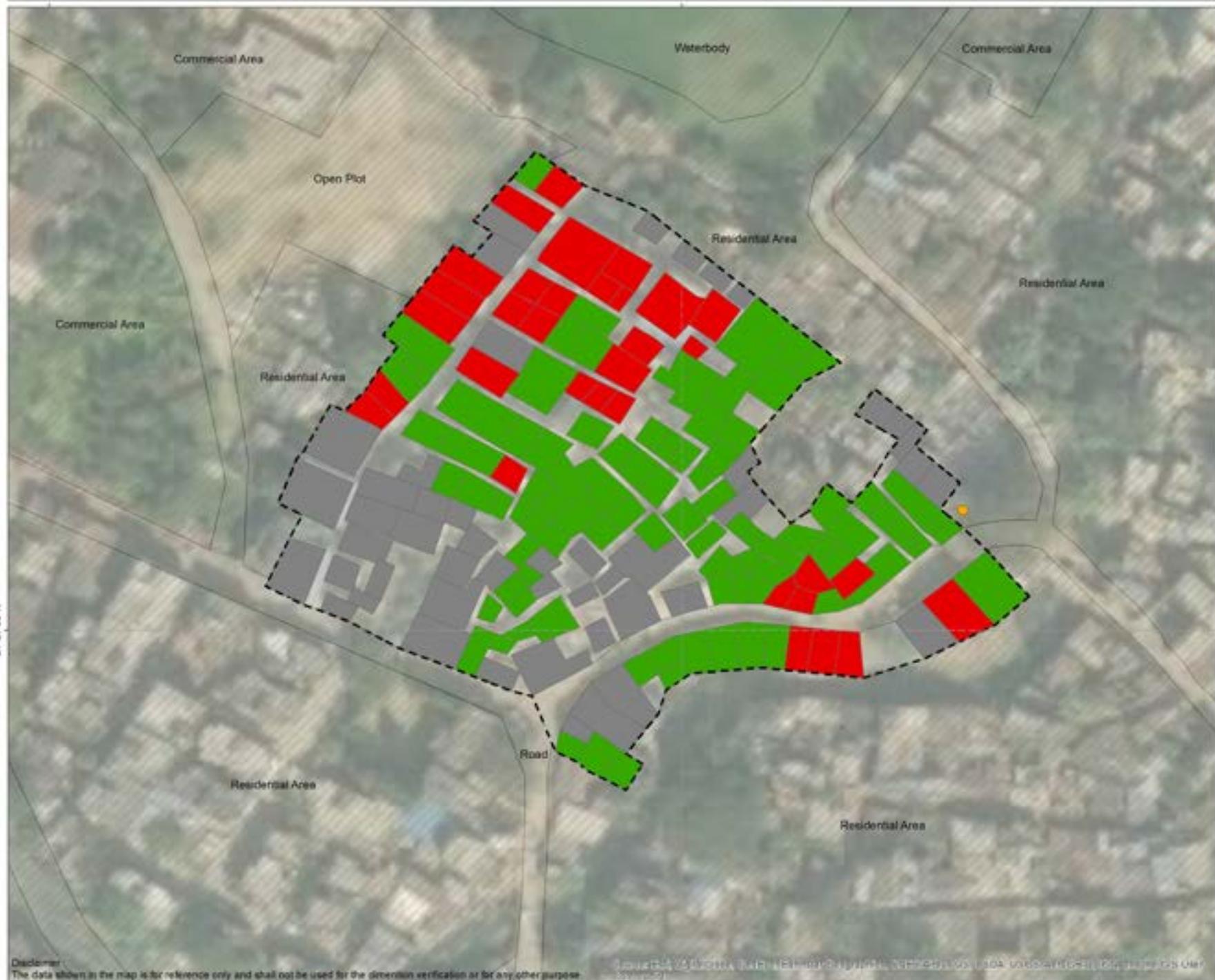
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UNIVERSITY MANAGEMENT CENTRE

Sambalpur

Saliabagicha (Ward No. 31)



As per the verbal information provided by the respondents.

Source:

Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale:

A horizontal scale with numerical markings at 0, 10, 20, and 40. A thick black horizontal bar is positioned such that its left end aligns with the 0 mark and its right end aligns with the 25 mark.



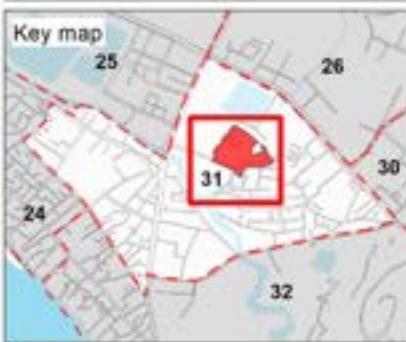
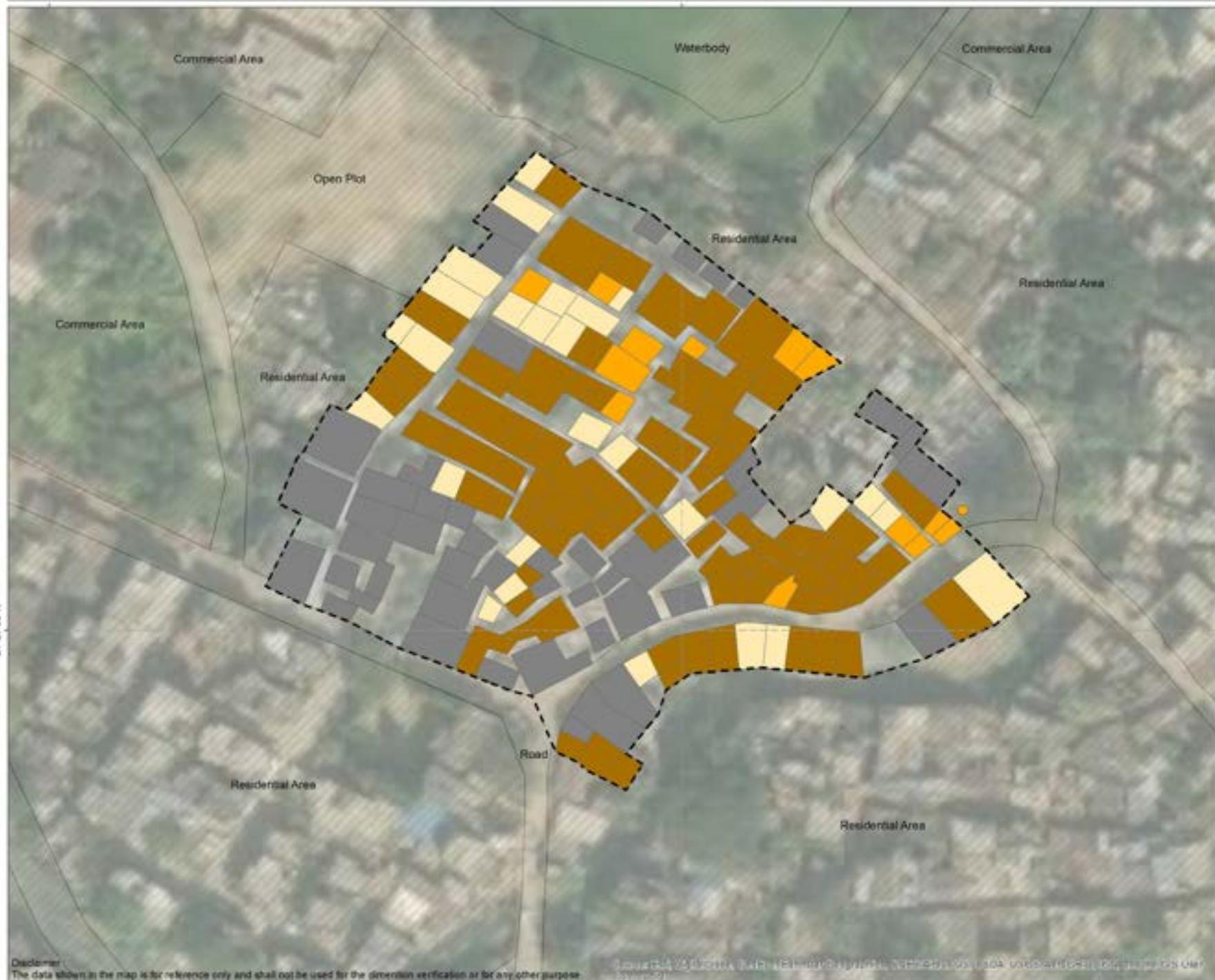
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Sambalpur

Saliabagicha (Ward No. 31)



Number of floors in the building

The legend includes four color-coded categories: brown for 'Ground floor', yellow for 'Ground floor + 1', orange for 'Ground floor + 2', and grey for 'Other structures'. It also includes a yellow circle icon for 'Functional Community Toilet' and a dashed black line icon for 'Slum boundary'.

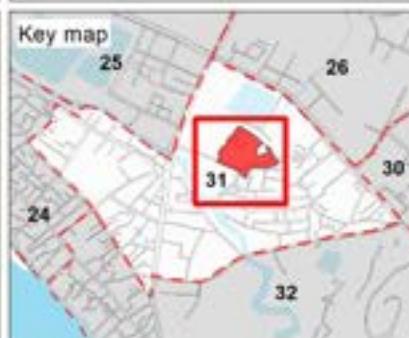
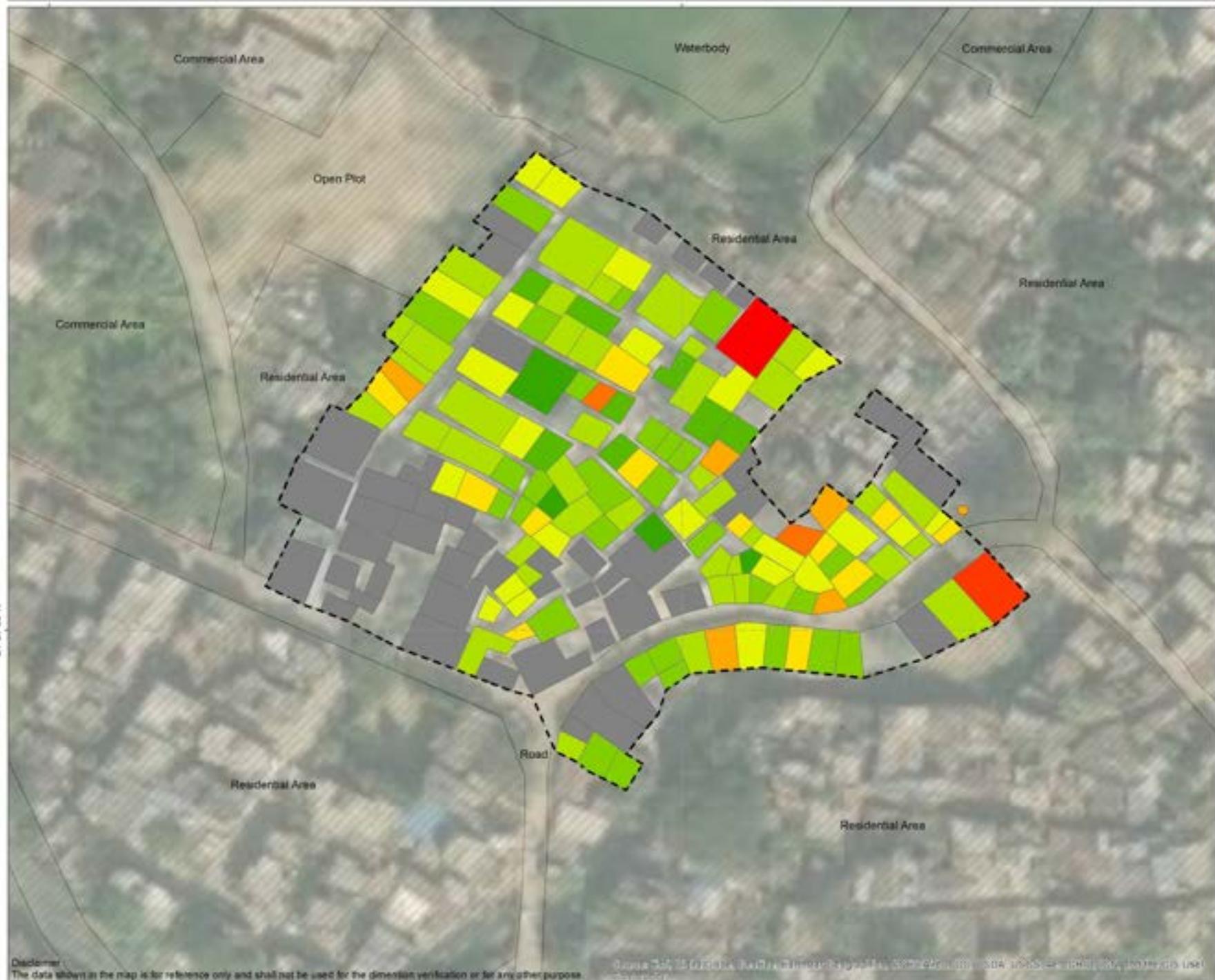
Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :



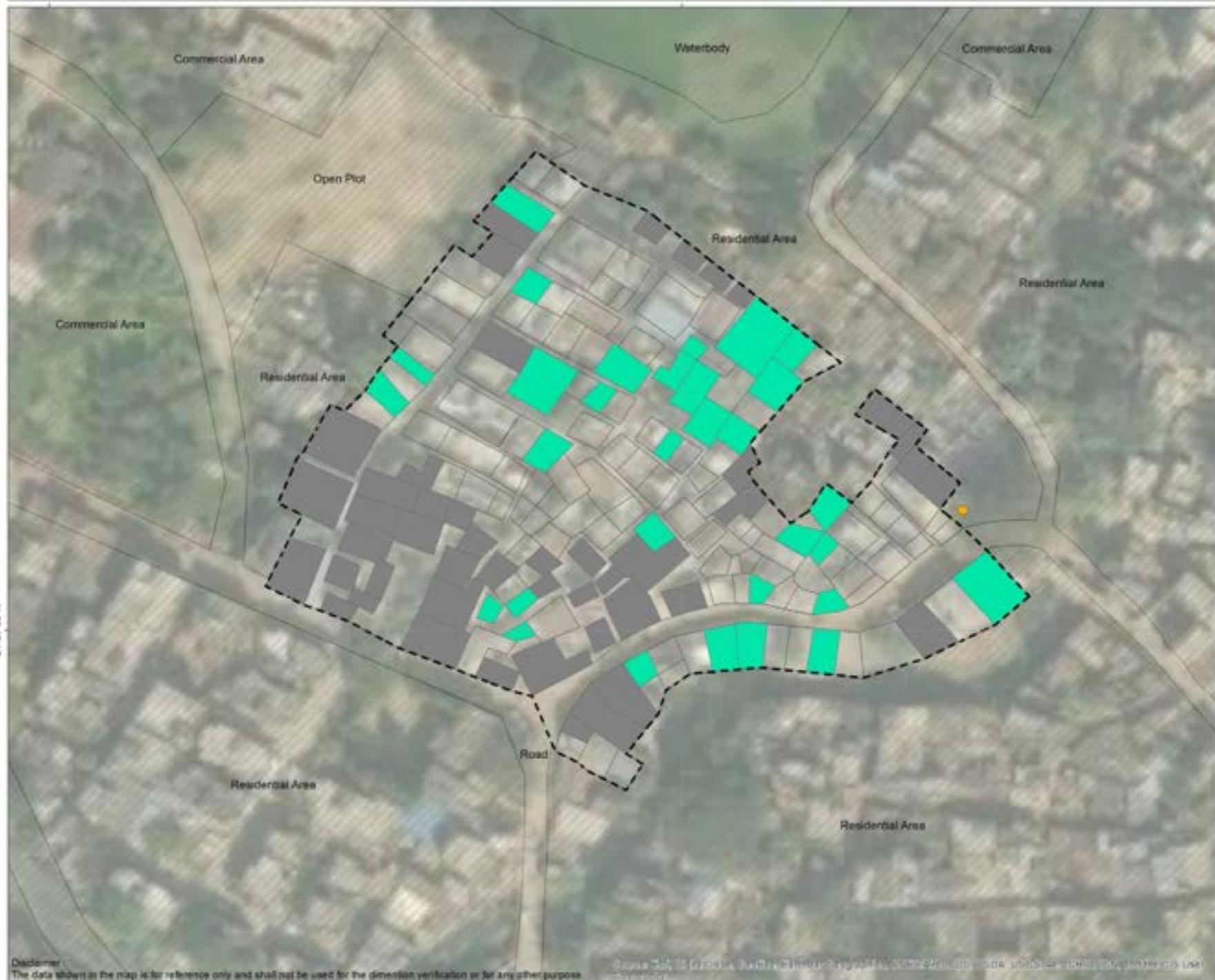
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

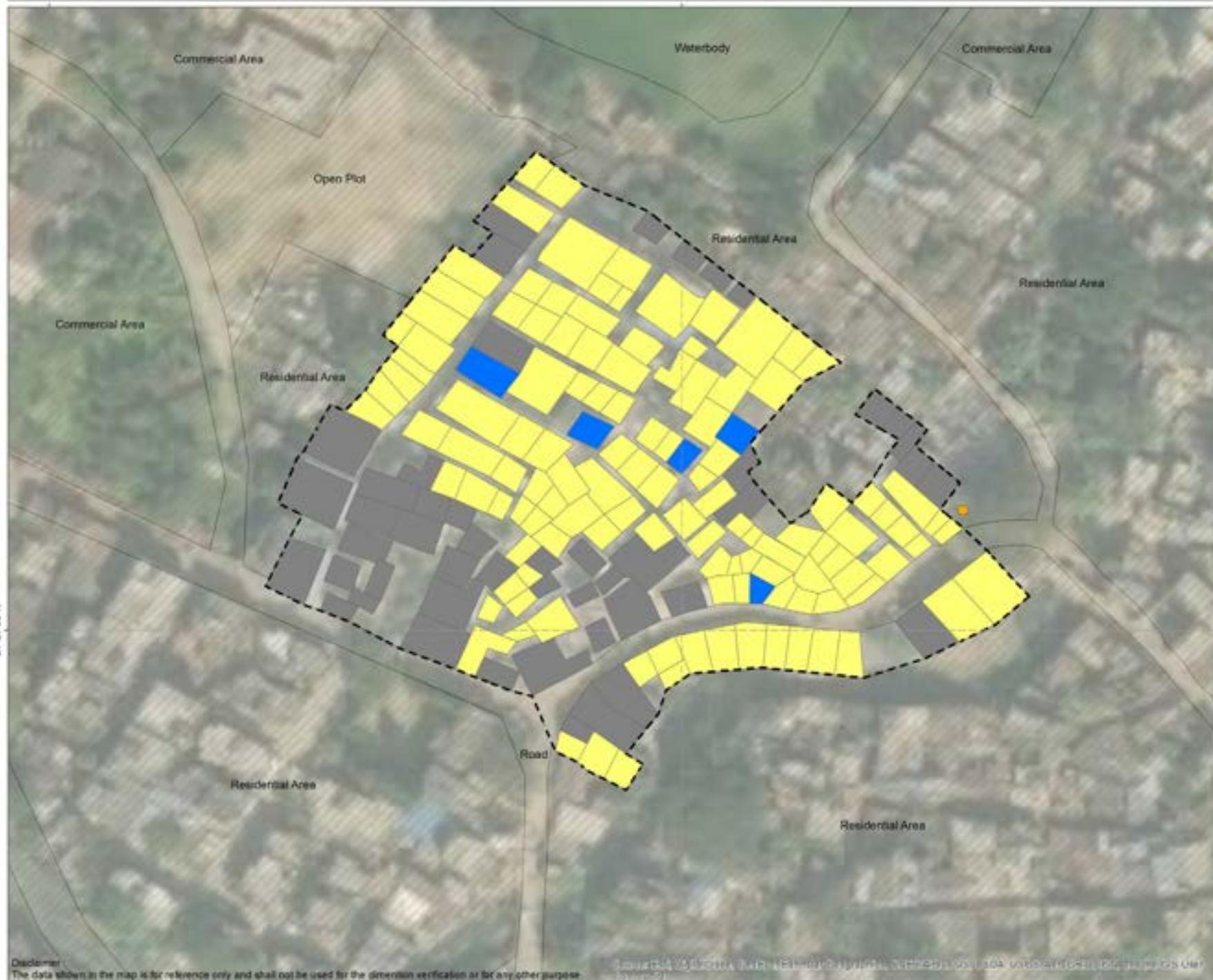
Tumor Size Range	Percentage of Patients
0-50	~10%
50-100	~30%
100-200	~45%
200-400	~10%



Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40
m




Household with PWD*

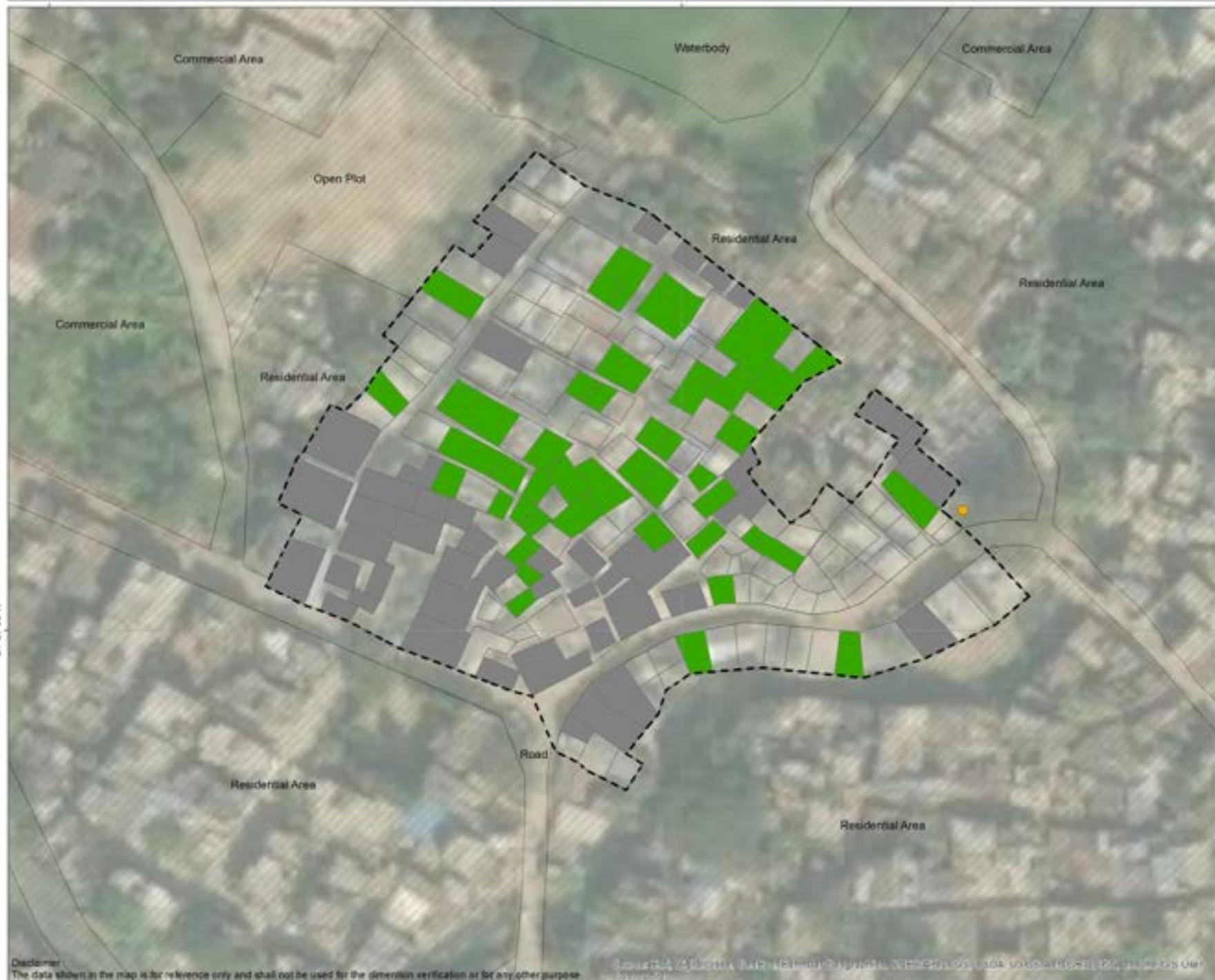
- Yes
- No
- Other structures
- Functional Community Toilet
- Slum boundary

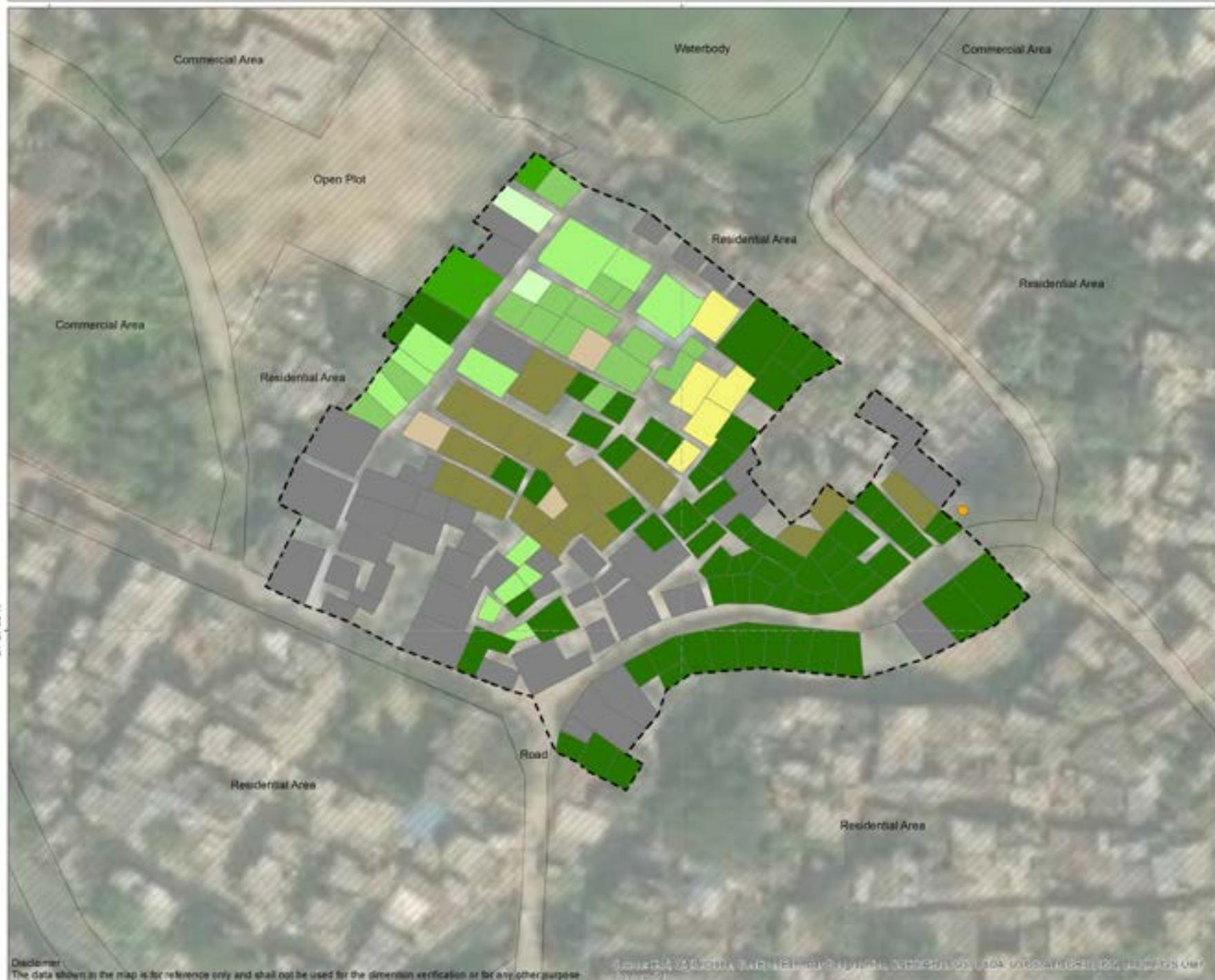
* Person with Disabilities

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur. Odisha.

Scale :



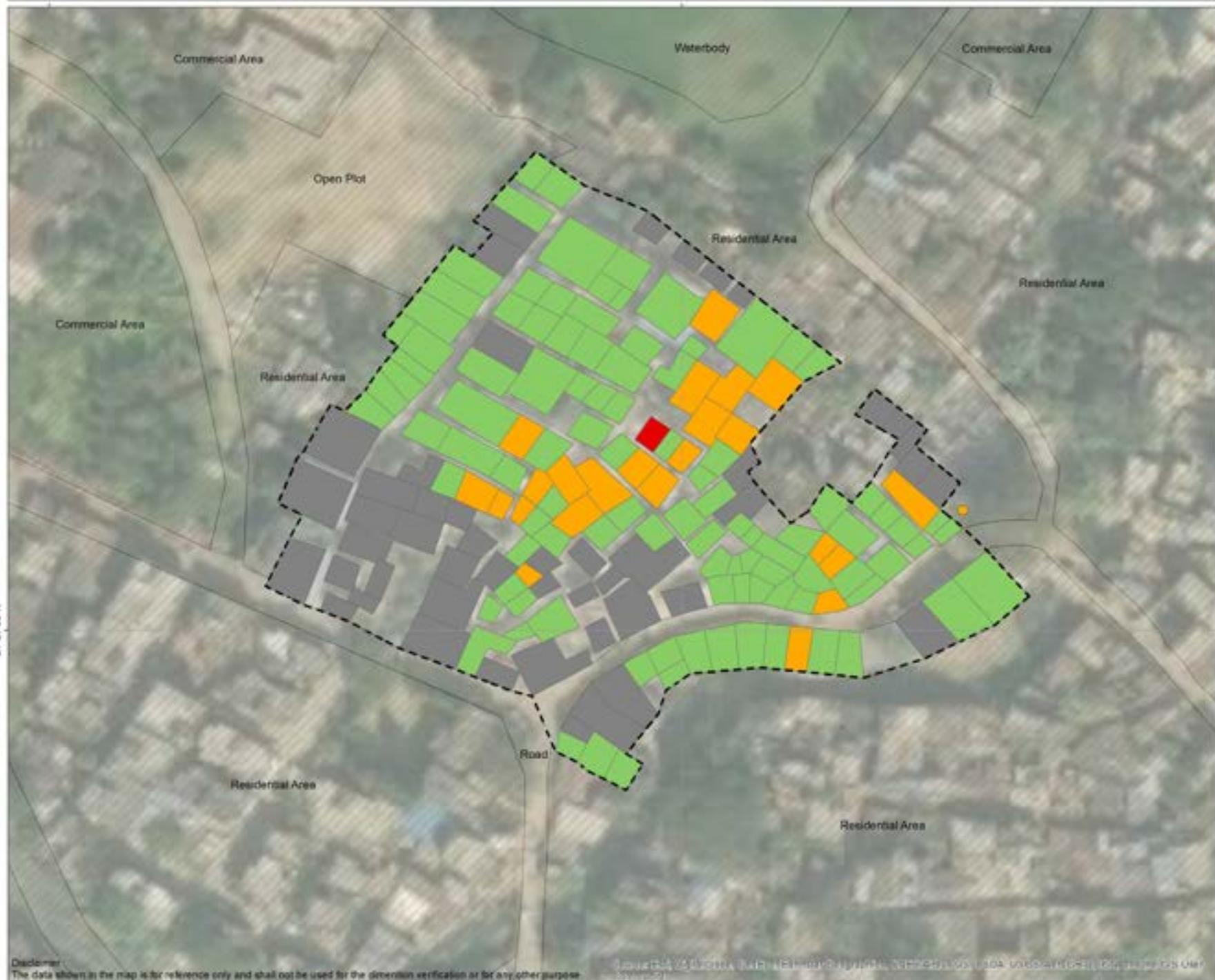



Source of water in household

- Tap connection at home
- Tap connection at home & Stand post
- Tap connection at home & Private water tanker
- Tap connection at home & Hand pump
- Tap connection at home & Fetching water from neighbourhood
- Stand post
- Hand pump
- Fetching water from neighbourhood
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
 0 10 20 40 m



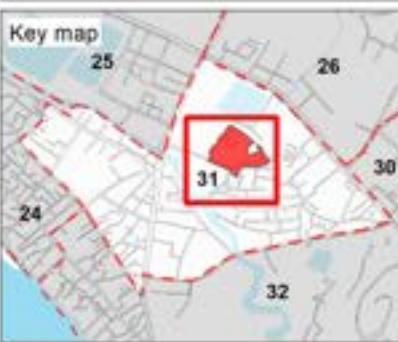
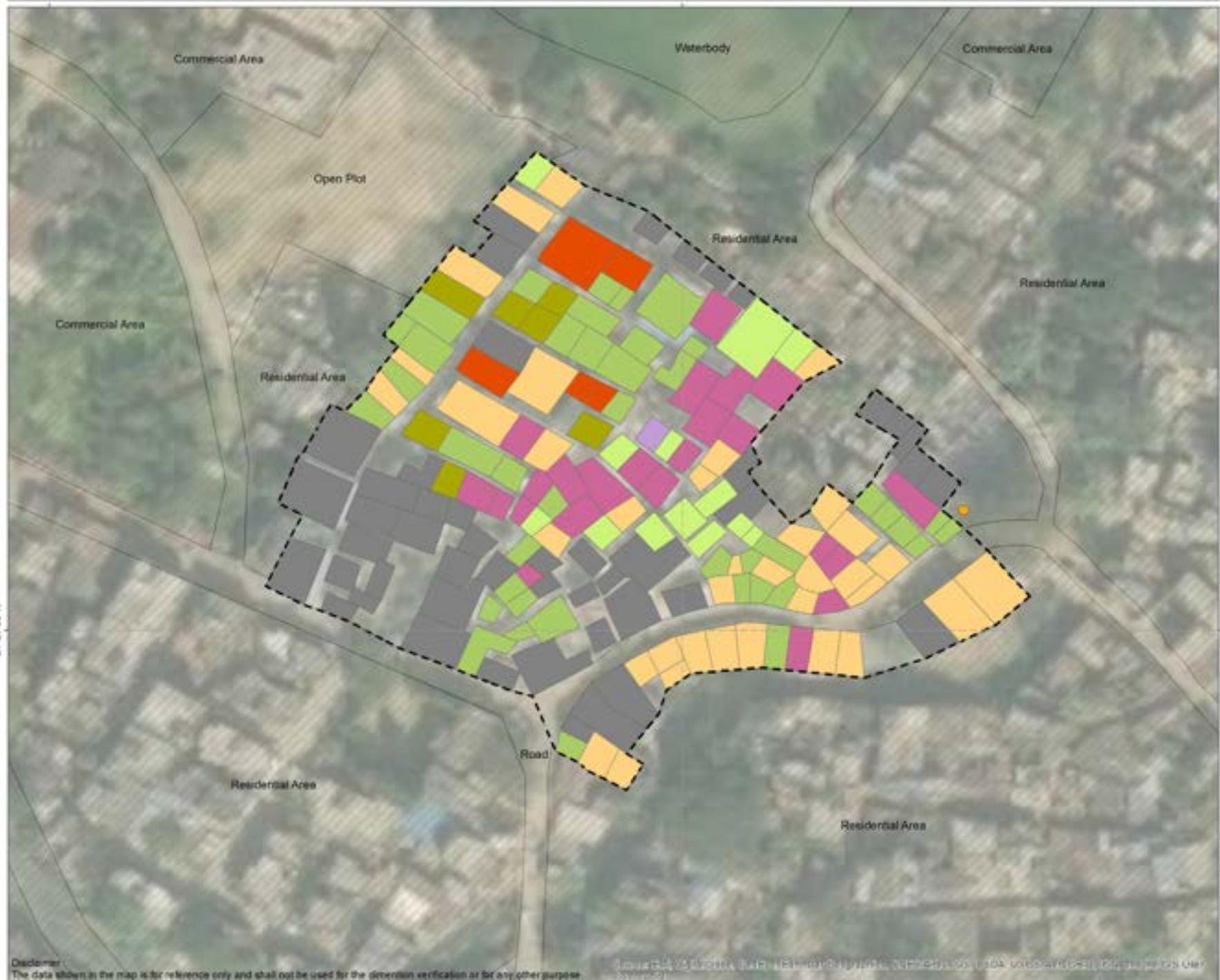
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Sambalpur

Saliabagicha (Ward No. 31)



IHHL connected to :

- The legend consists of eight entries, each with a colored square followed by a label:

 - Sepic tank
 - Twin pit
 - Soak pit
 - Open drain
 - No connection for disposal
 - Non-Functional IHHL
 - No IHHL
 - Other structures

Below these is a yellow circle labeled "Functional Community Toilet". At the bottom left is a dashed black rectangle labeled "Slum boundary".

Source:

Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale



The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



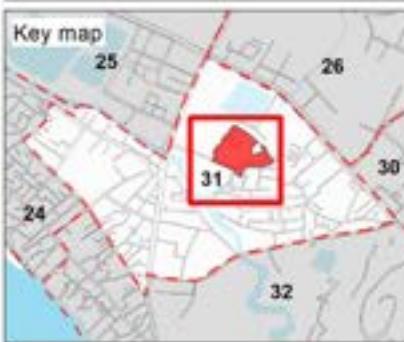
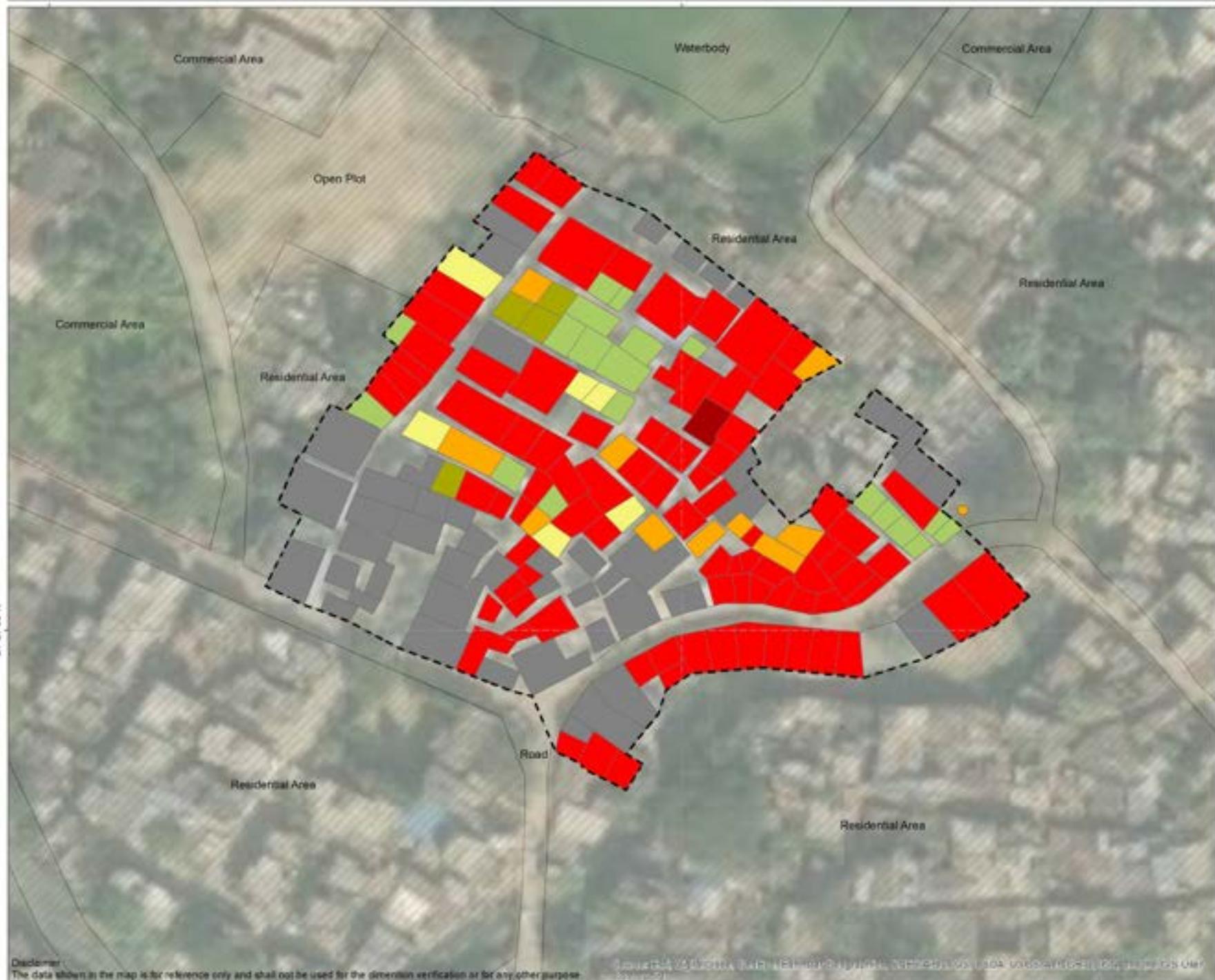
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UNIVERSITY MANAGEMENT CENTRE

Sambalpur

Saliabagicha (Ward No. 31)



Grey water disposed to:

- Septic tank.
 - Twin pit
 - Single pit
 - Small pit (kundi) outside the house
 - Open drain
 - Water is let out on the street
 - Other structures.
 - Functional Community Toilet
 - Slum boundary

Source:

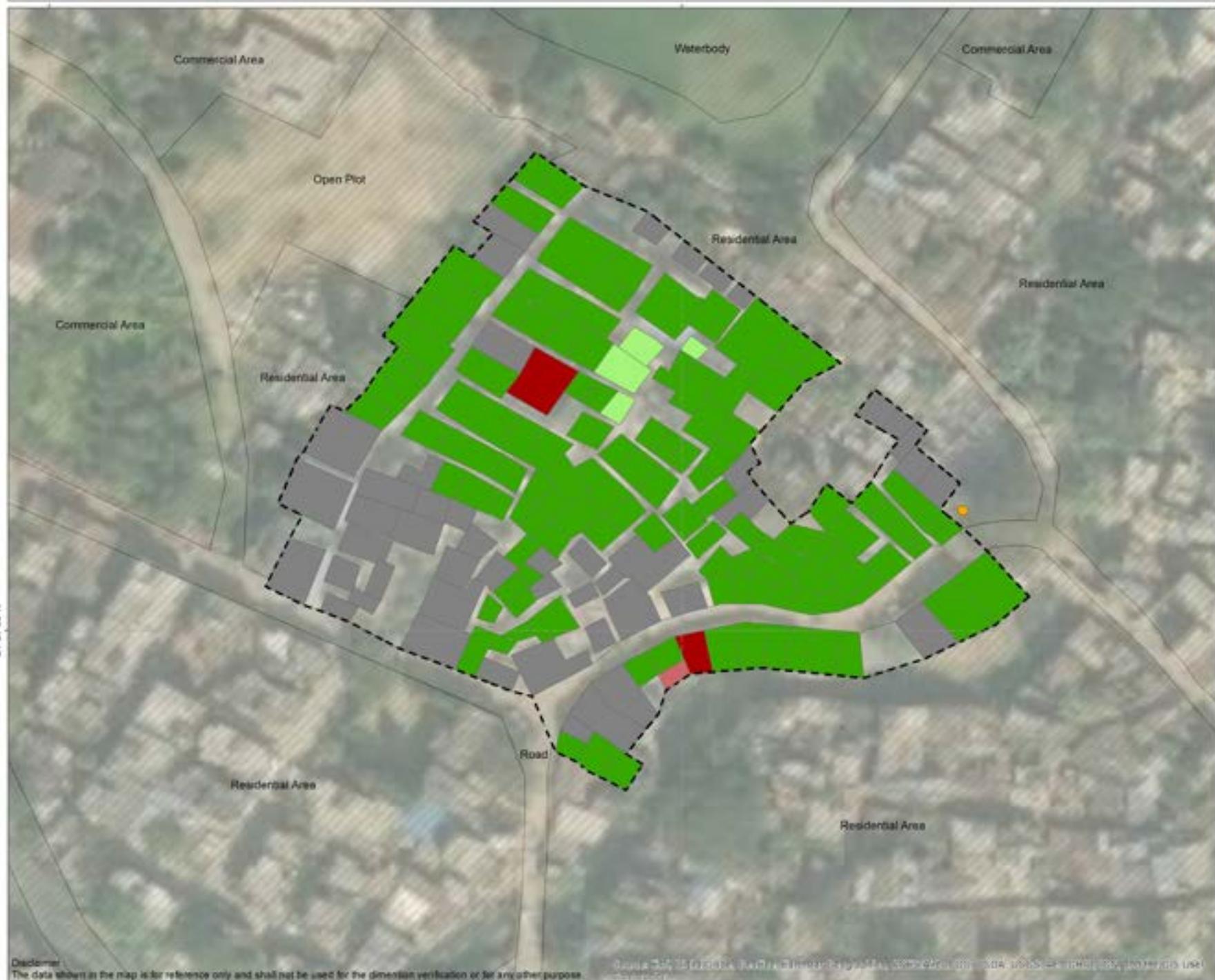
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale:



The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Tumor Type	Percentage (%)
Glioblastoma	~35
Astrocytoma	~25
Meningioma	~15
Oligodendroglioma	~10



Source :

Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 10 20 40
m



Ward - 32

Sambalpur

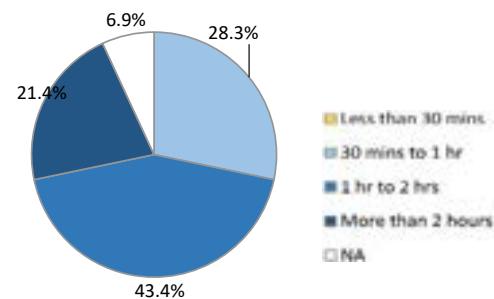
Ward name
32



1. Access to municipal water supply

	% of HHs with individual water tap connection	26%
	% of HHs satisfied with the quality of water supplied	100%

Duration of daily water supply



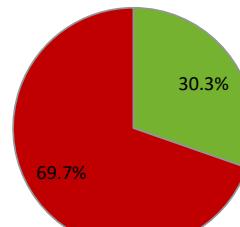
Number of slums

2

Total number of households in slums

146

2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL

44

% of functional IHHLs

93%

Number of PT/CTs near the slum

3

Total number of persons dependent on PT/CTs

-

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water

8%

% of IHHLs connected to septic tank/ soak pit/ twin pit

66%

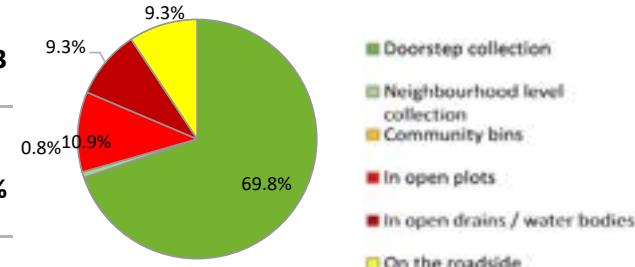
4. Solid waste management system



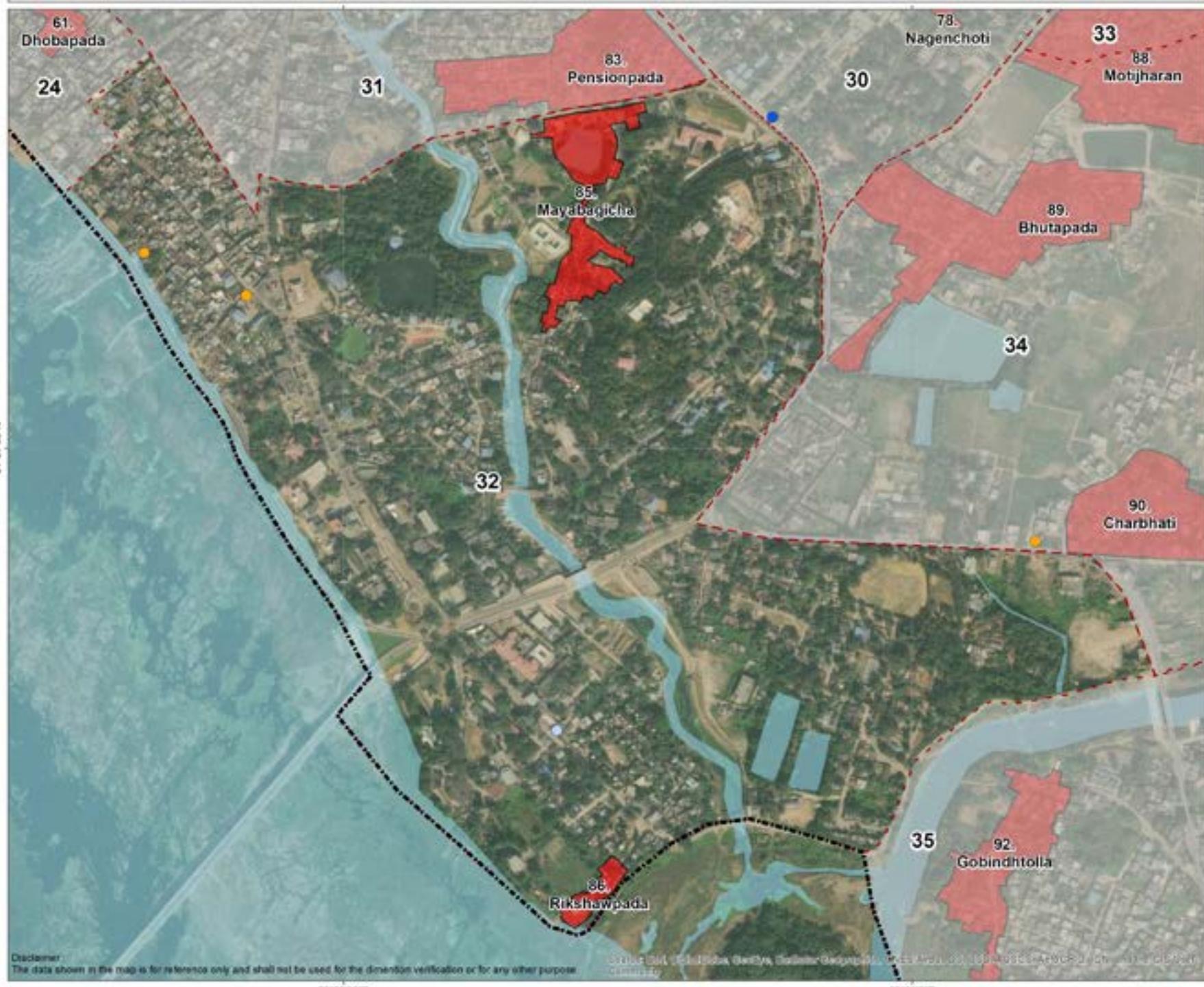
Total waste generation (kg)

193

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



85. Mayabagicha

Sambalpur

Slum name

MAYABAGICHA

Ward

32

Total number of households in the slum

101

Approximate area of the slum

2.3 ha



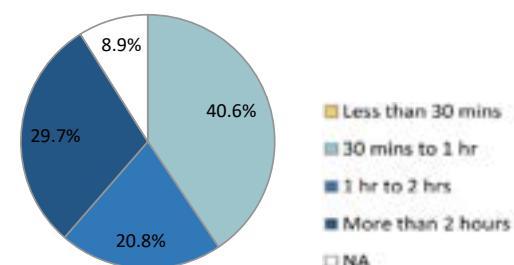
1. Access to municipal water supply



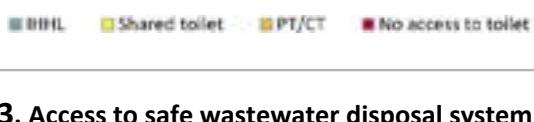
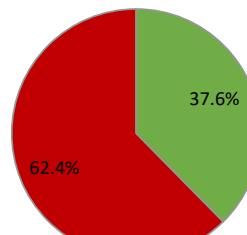
% of HHs with individual water tap connection **33%**

% of HHs satisfied with the quality of water supplied **100%**

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **38**

% of functional IHHLs **92%**

Number of PT/CTs near the slum **2**

Total number of persons dependent on PT/CTs **-**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

% of IHHLs connected to septic tank/ soak pit/ twin pit **61%**

% of HHs connected with safe disposal system for grey water **7%**

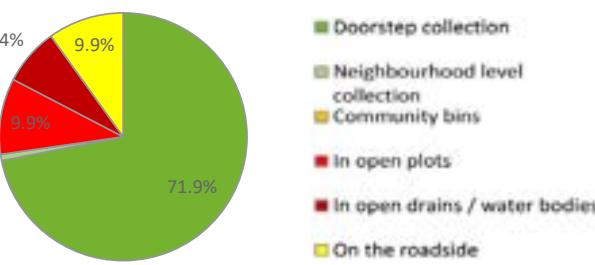
4. Solid waste management system



Total waste generation (kg) **139**

% of HHs segregating waste **46%**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



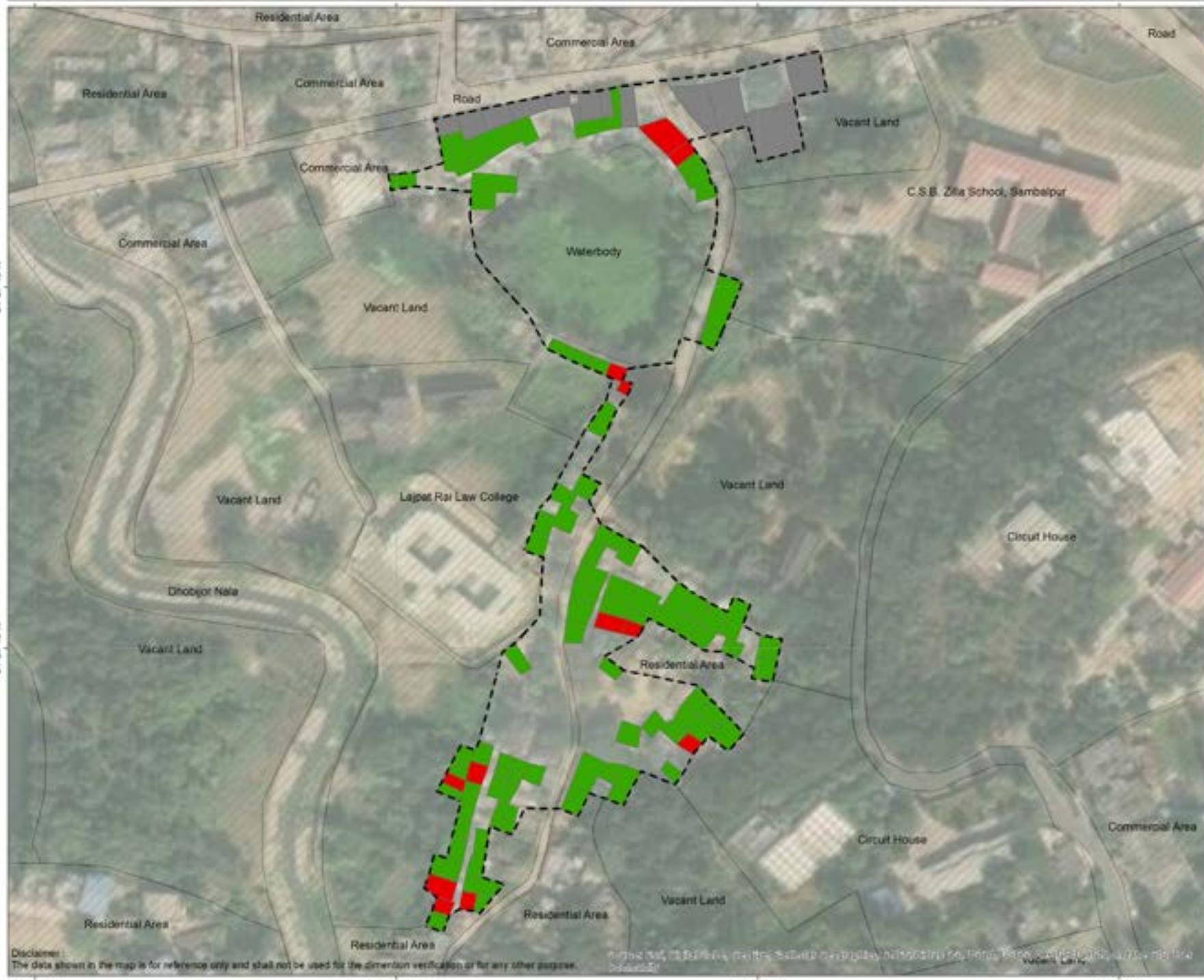
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UMC
URBAN MANAGEMENT CENTER

Sambalpur

Mayabagicha (Ward No. 32)



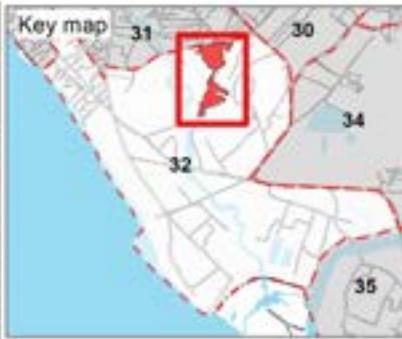
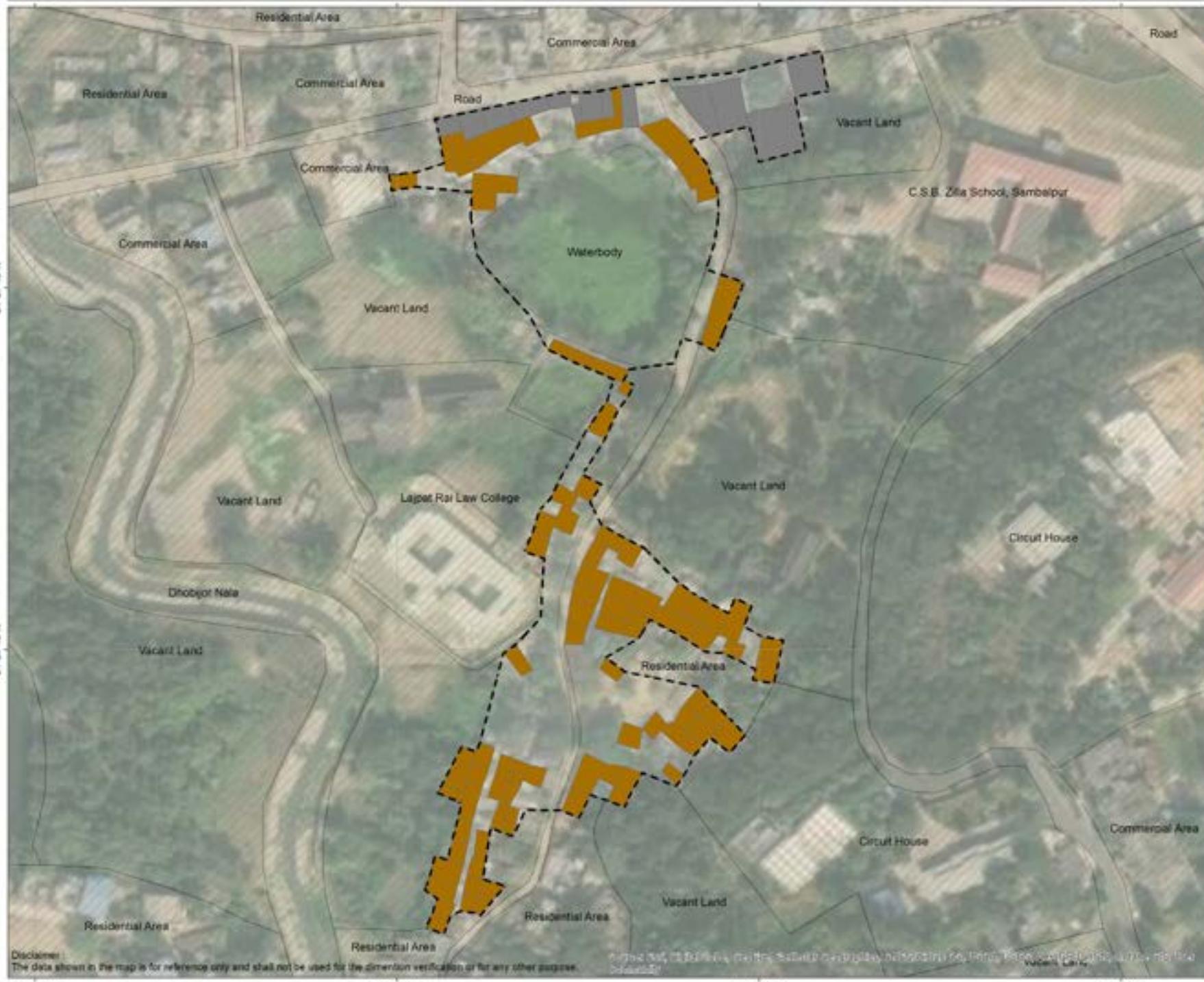
As per the verbal information provided by the respondents

Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



Number of floors in the building

- [Orange square] Ground floor
- [Grey square] Other structures
- [Dashed line] Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 20 40 60 80 m

Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Latitude

Longitude

Latitude

Longitude





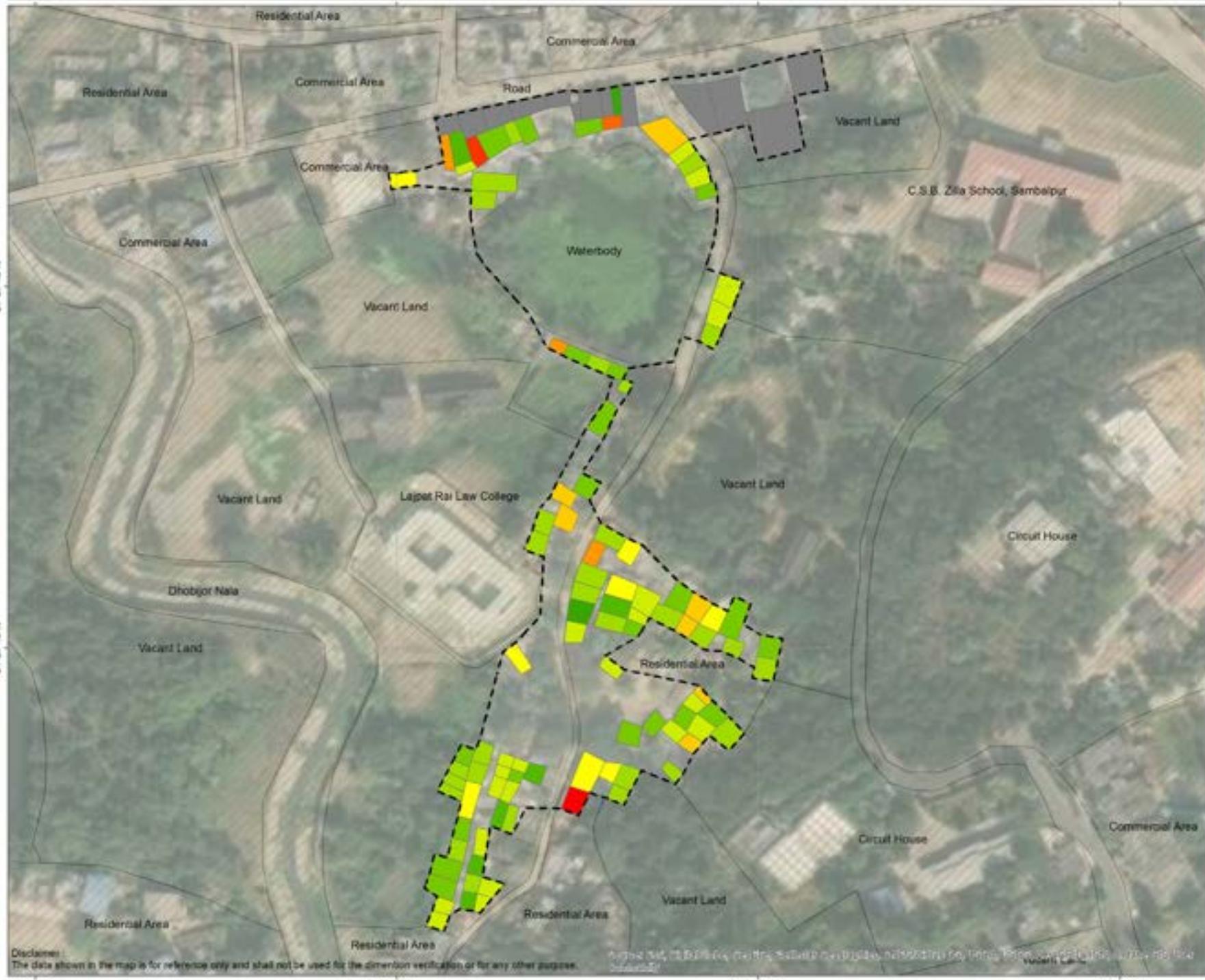
M I S A A L
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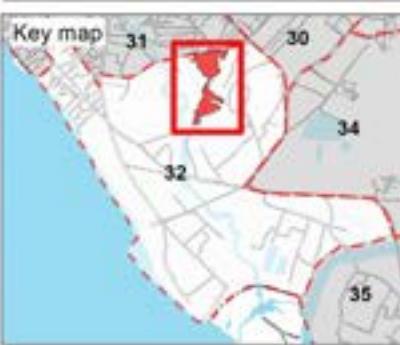
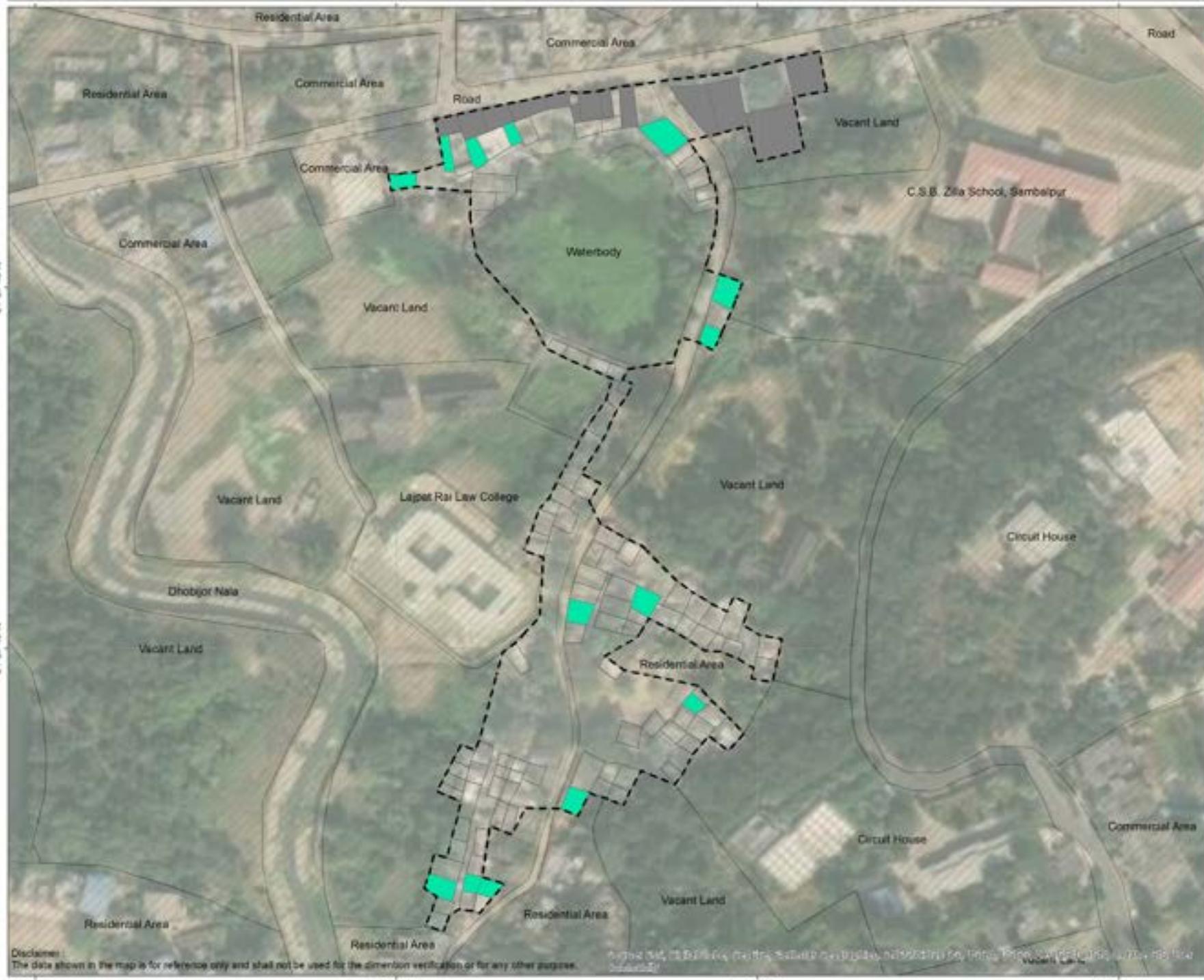
Sambalpur

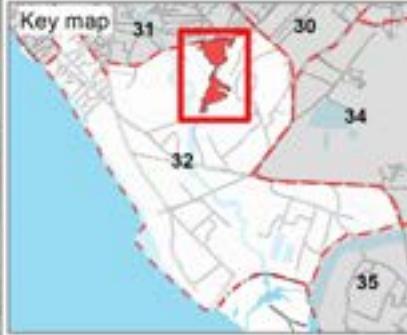
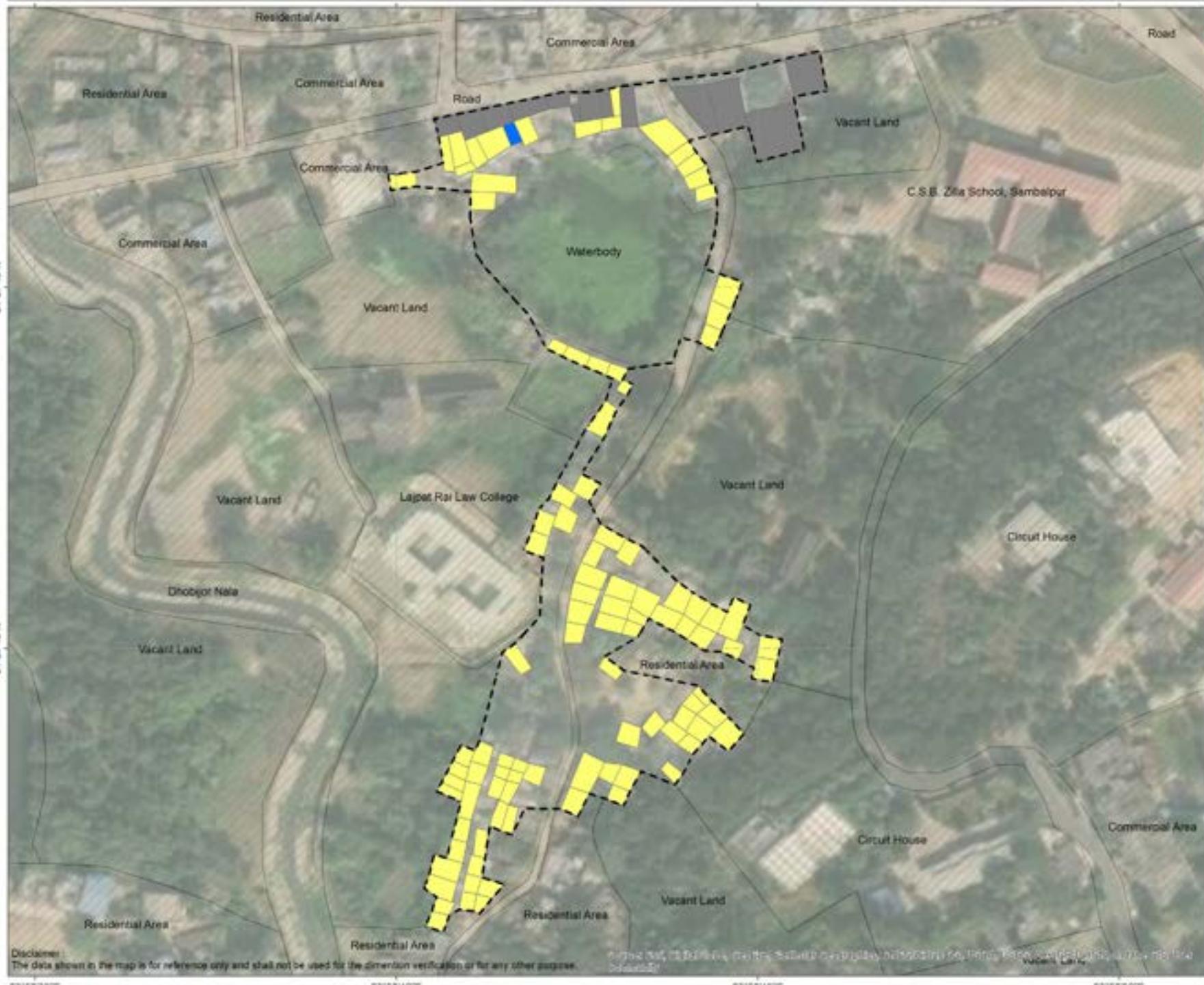
Mayabagicha (Ward No. 32)



Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:





Household with PWD*

- [Blue square] Yes
- [Yellow square] No
- [Grey square] Other structures
- [Dashed line] Slum boundary

* Person with Disabilities

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 20 40 60 80
m

Disclaimer

The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

83°58'39"E

83°58'40"E

83°58'45"E

83°58'50"E





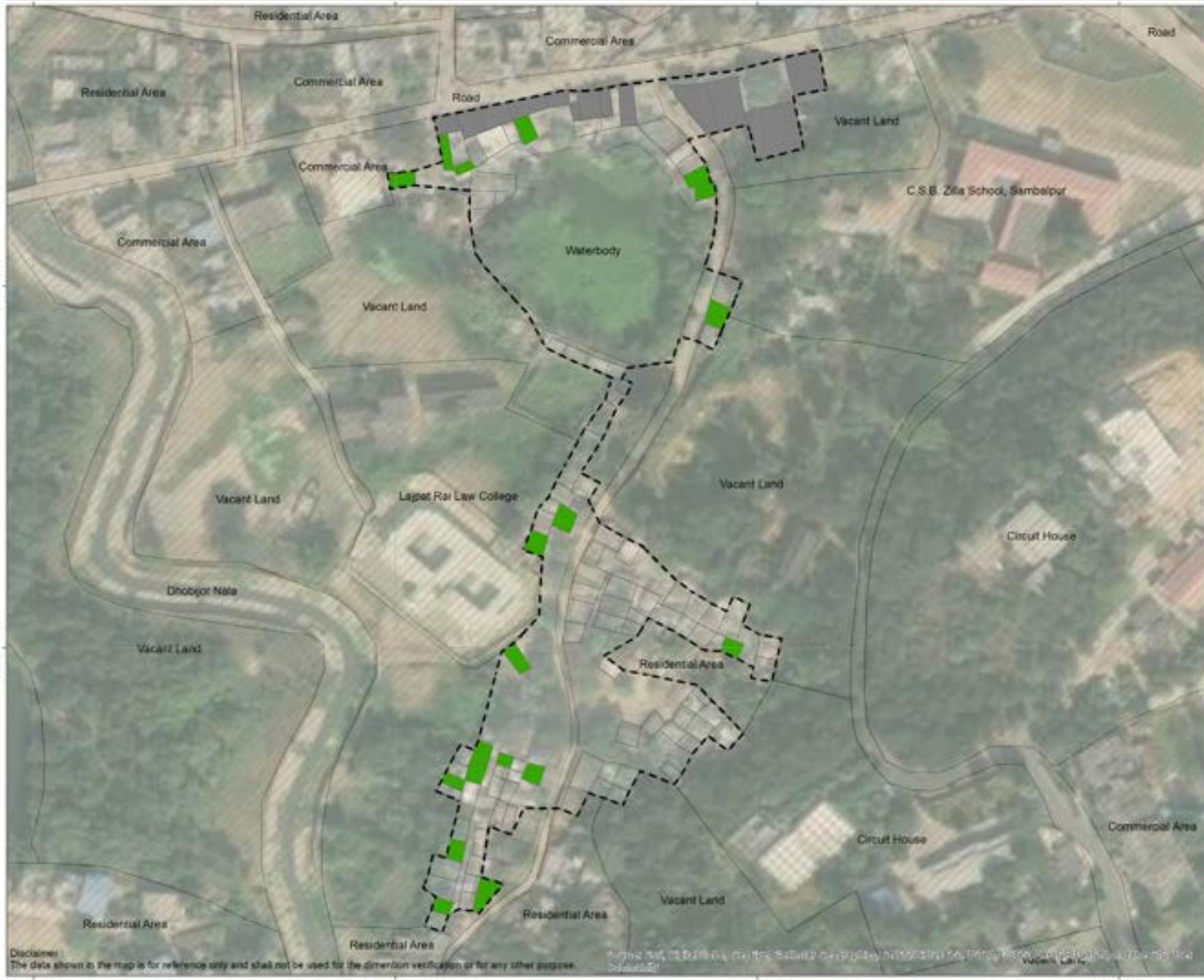
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Sambalpur

Mayabagicha (Ward No. 32)



Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Residential Area
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.





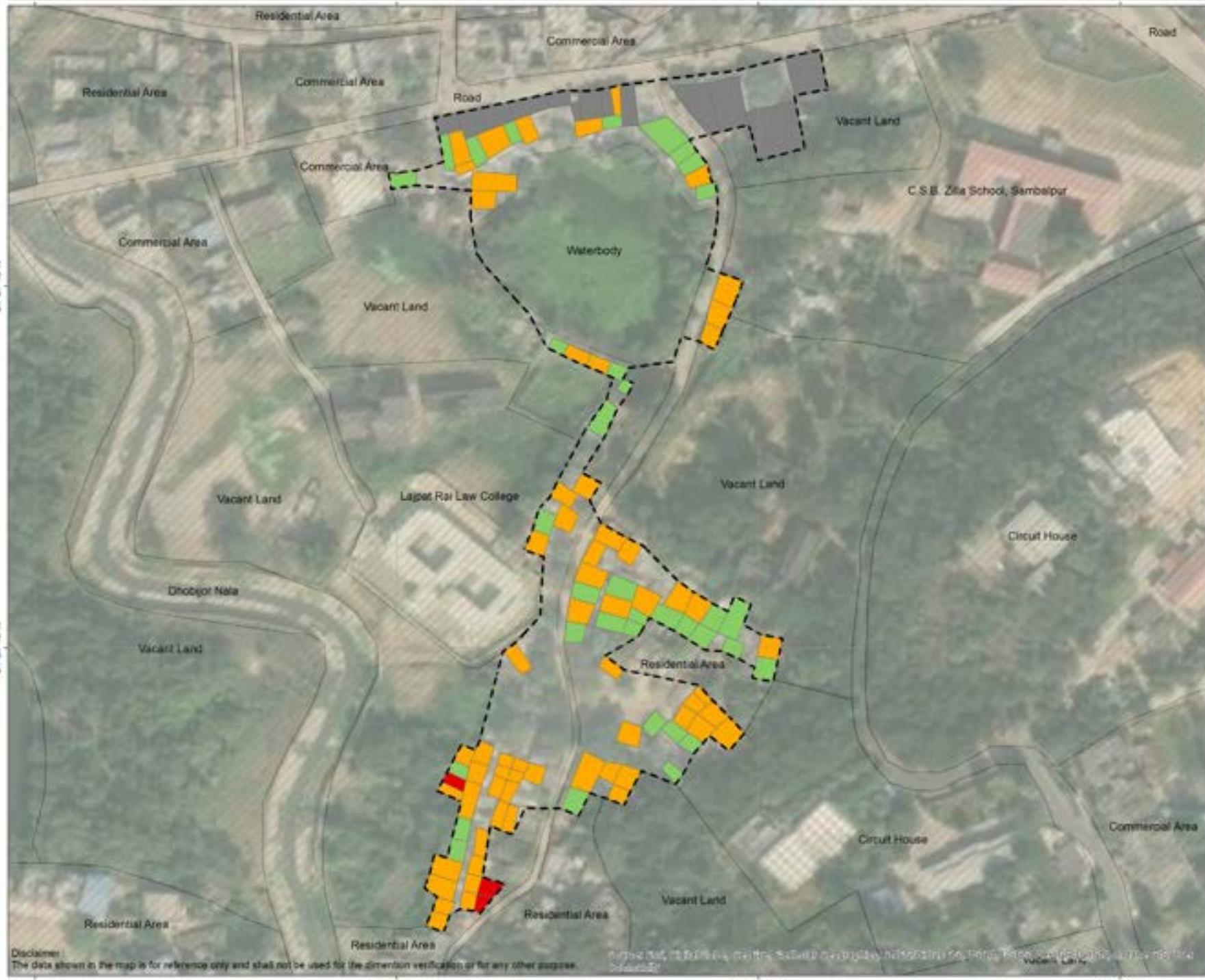
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Mayabagicha (Ward No. 32)



Functionality of IHHL

Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Residential Area
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



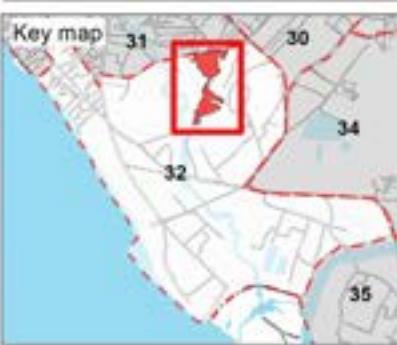
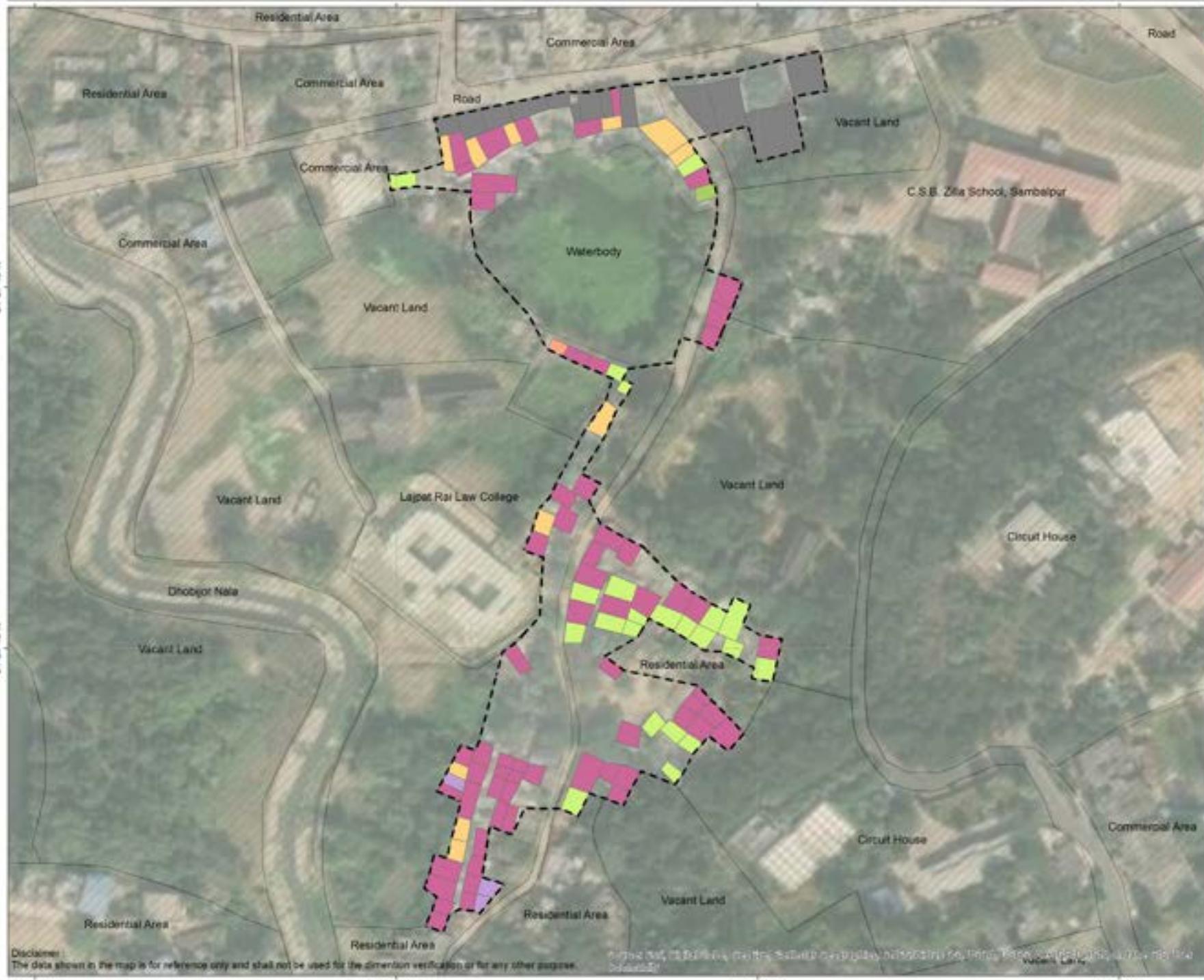
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Mayabagicha (Ward No. 32)



IHHL connected to :

The legend consists of seven color-coded squares with their corresponding labels: a green square for 'Septic tank', a light green square for 'Soak pit', an orange square for 'Open drain', an orange-red square for 'Pond', a purple square for 'Non-Functional IHHL', a pink square for 'No IHHL', and a grey square for 'Other structures'. Below these is a dashed black line labeled 'Slum boundary'.

Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Residential Area
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

The next, more refined, version of the model is described by [Hausman et al. \(1999\)](#), [Papageorgiou \(1999\)](#), and [Papageorgiou et al. \(2000\)](#).



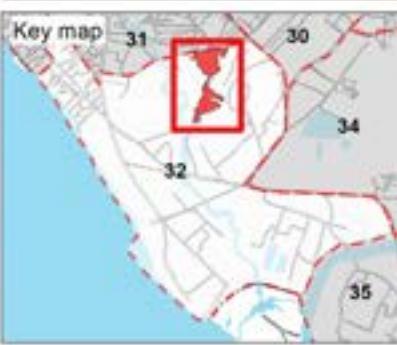
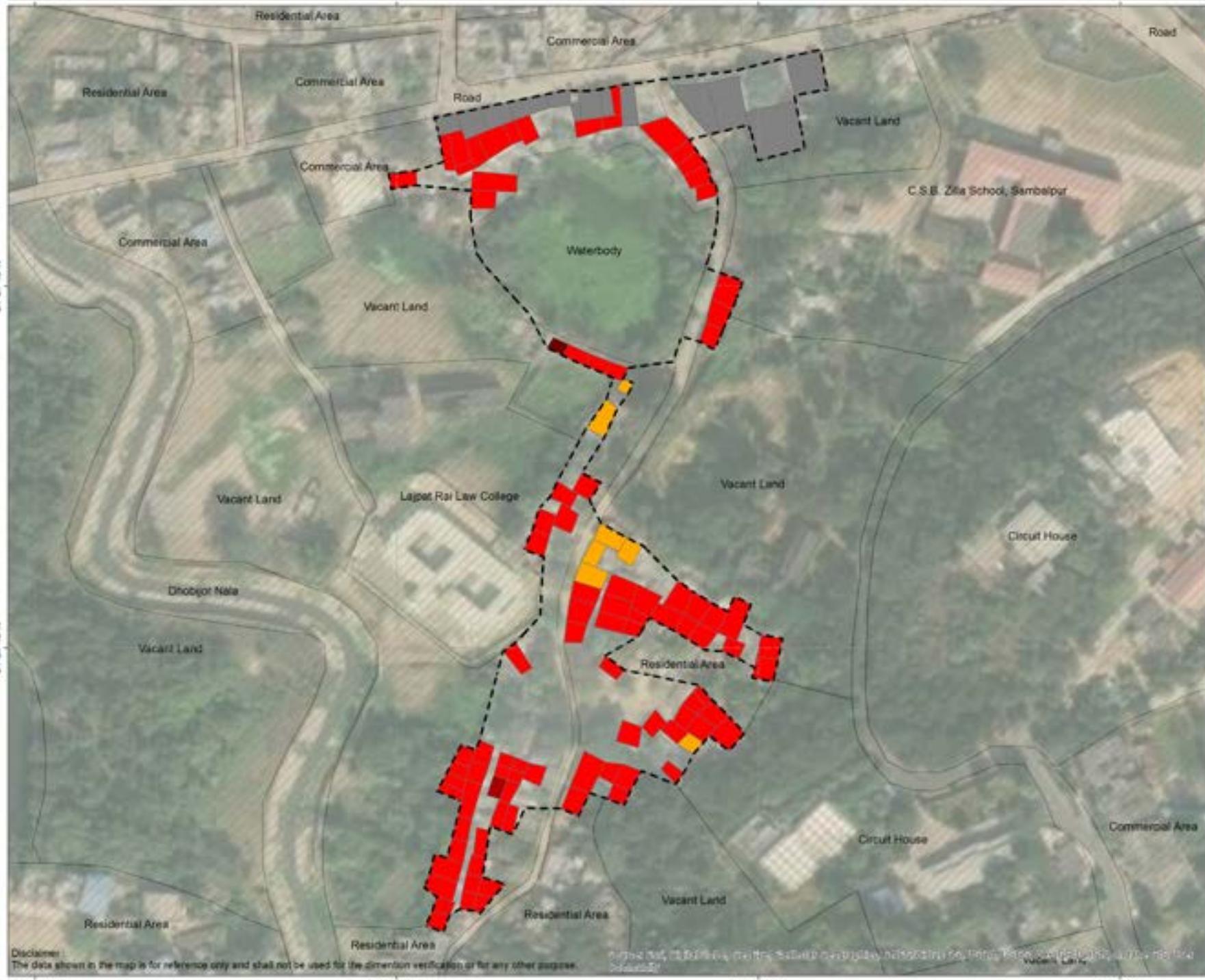
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Mayabagicha (Ward No. 32)



Grey water disposed to :

- Single pit
 - Open drain
 - Water is let out on the streets
 - Pond
 - Other structures
 - Slum boundary

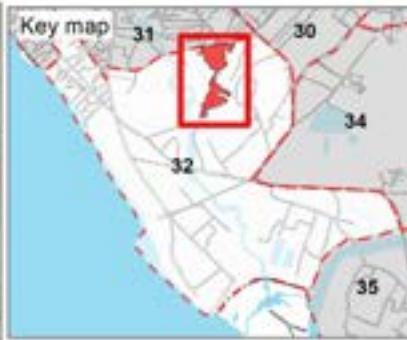
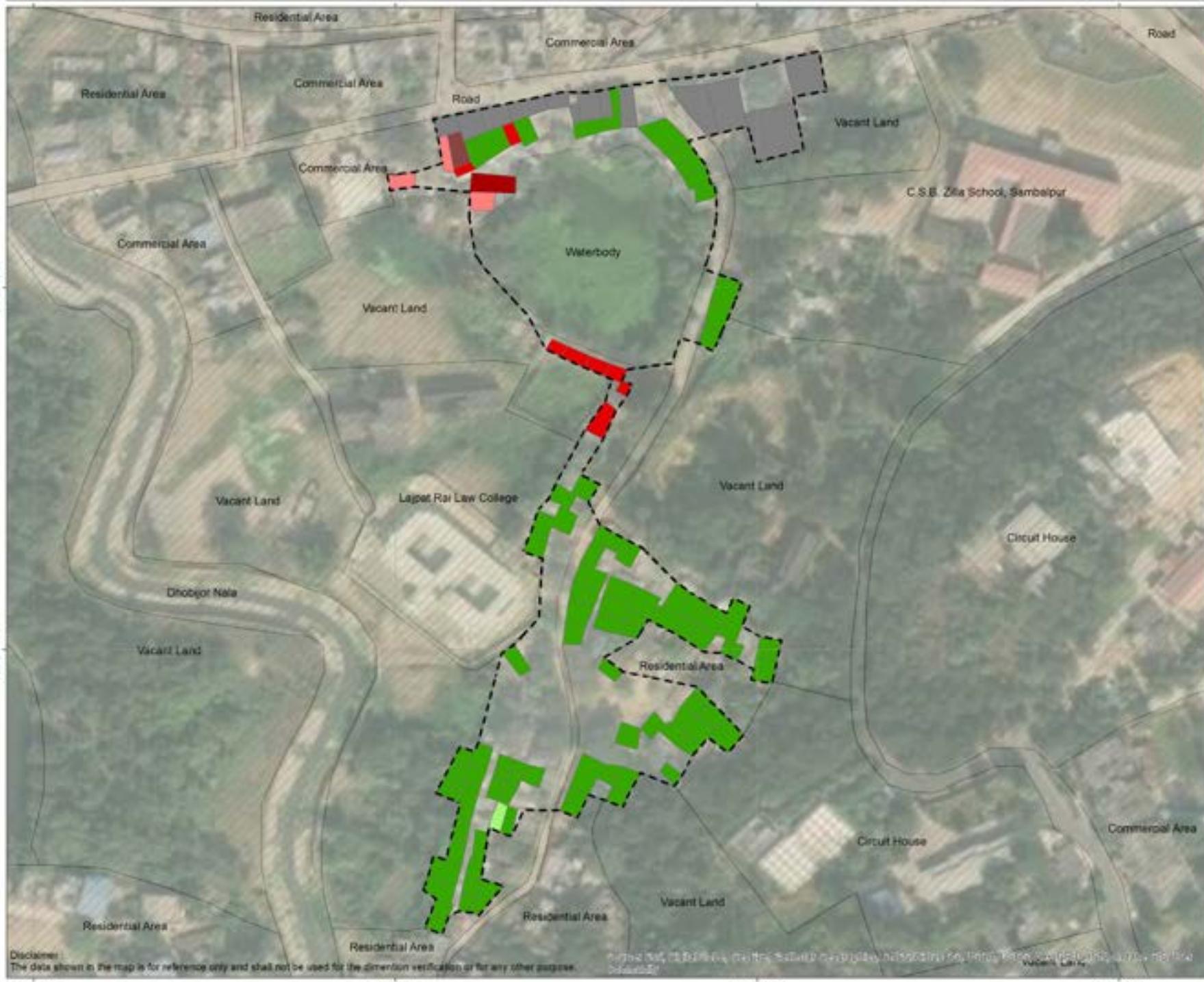
Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



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the last, the final, the only one, the only one who can help us now, the last, the final, the only one, the only one who can help us now.



Household disposing solid waste to :

- [Green Box] D to D service
- [Light Green Box] Handover to municipal waste collector & In open plot
- [Pink Box] In open plot & On road side
- [Red Box] In open plot, On road side & In open drains/waterbody
- [Dark Red Box] In open plot
- [Brown Box] In open drains/waterbody & On road side
- [Grey Box] Other structures
- [Dashed Line Box] Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 20 40 60 80 m

Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

63°58'39"E

63°58'40"E

63°58'45"E

63°58'50"E



86. Rickshawpada

Sambalpur

Slum name

RIKSHAW PADA

Ward

32

Total number of households in the slum

45

Approximate area of the slum

0.4 ha



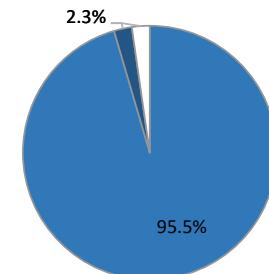
1. Access to municipal water supply



% of HHs with individual water tap connection **9%**

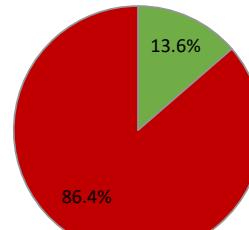
% of HHs satisfied with the quality of water supplied **100%**

Duration of daily water supply



- Less than 30 mins
- 30 mins to 1 hr
- 1 hr to 2 hrs
- More than 2 hours
- NA

2. Access to toilets



- IHHL
- Shared toilet
- PT/CT
- No access to toilet

Number of HHs having IHHL **6**

% of functional IHHLs **100%**

Number of PT/CTs near the slum **1**

Total number of persons dependent on PT/CTs **-**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

% of IHHLs connected to septic tank/ soak pit/ twin pit **100%**

% of HHs connected with safe disposal system for grey water **9%**

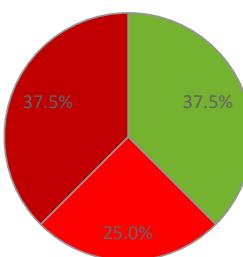
4. Solid waste management system



Total waste generation (kg) **54**

% of HHs segregating waste **-**

Method of HH waste disposal



- Doorstep collection
- Neighbourhood level collection
- Community bins
- In open plots
- In open drains / water bodies
- On the roadside

HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



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Sambalpur

Rickshawpada (Ward No. 32)



As per the verbal information provided by the respondents.

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:



• 100

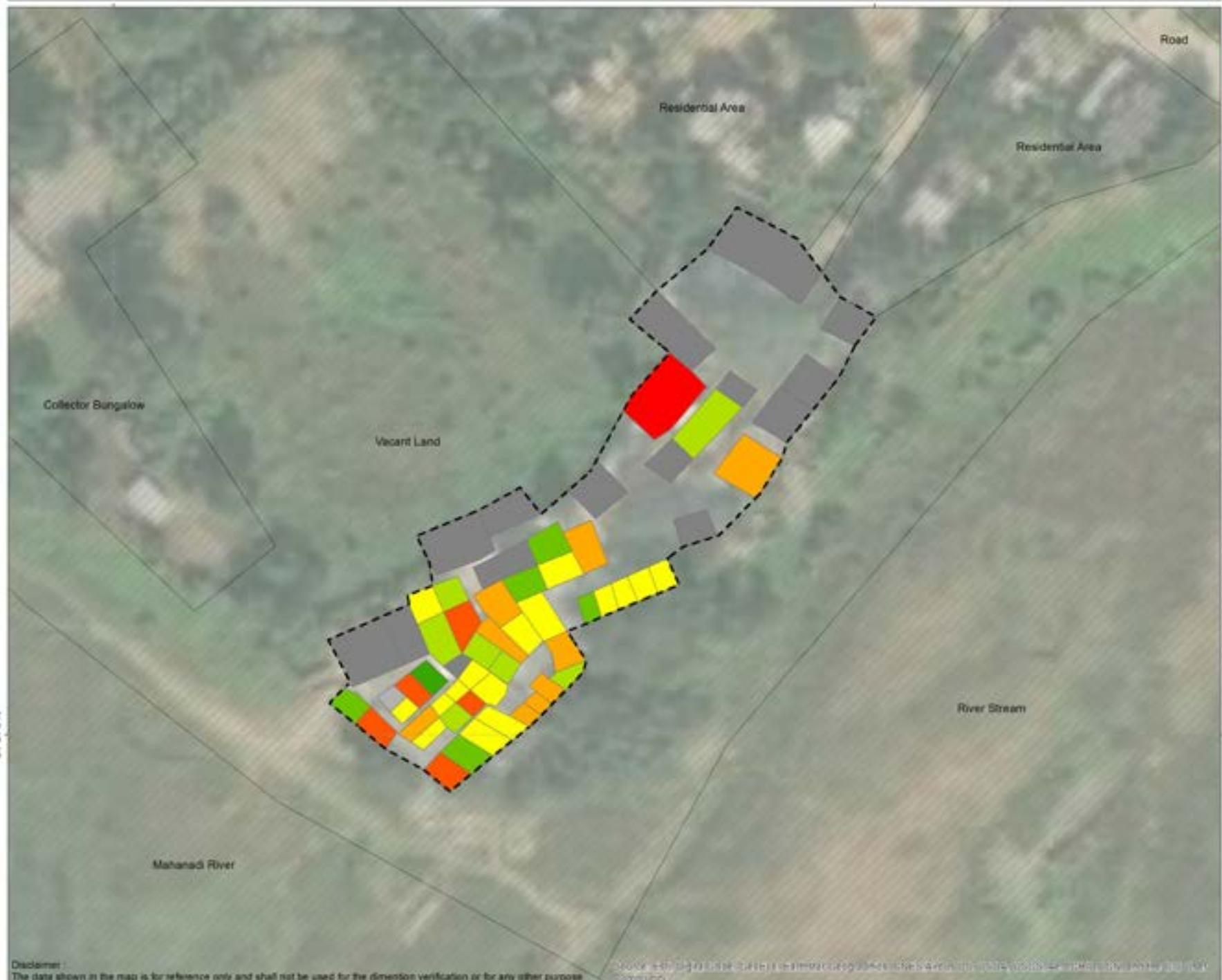
Disclaimer: The data shown in this map is for reference only and shall not be used for any dimension, calculation or for any other purpose.

附錄六



Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

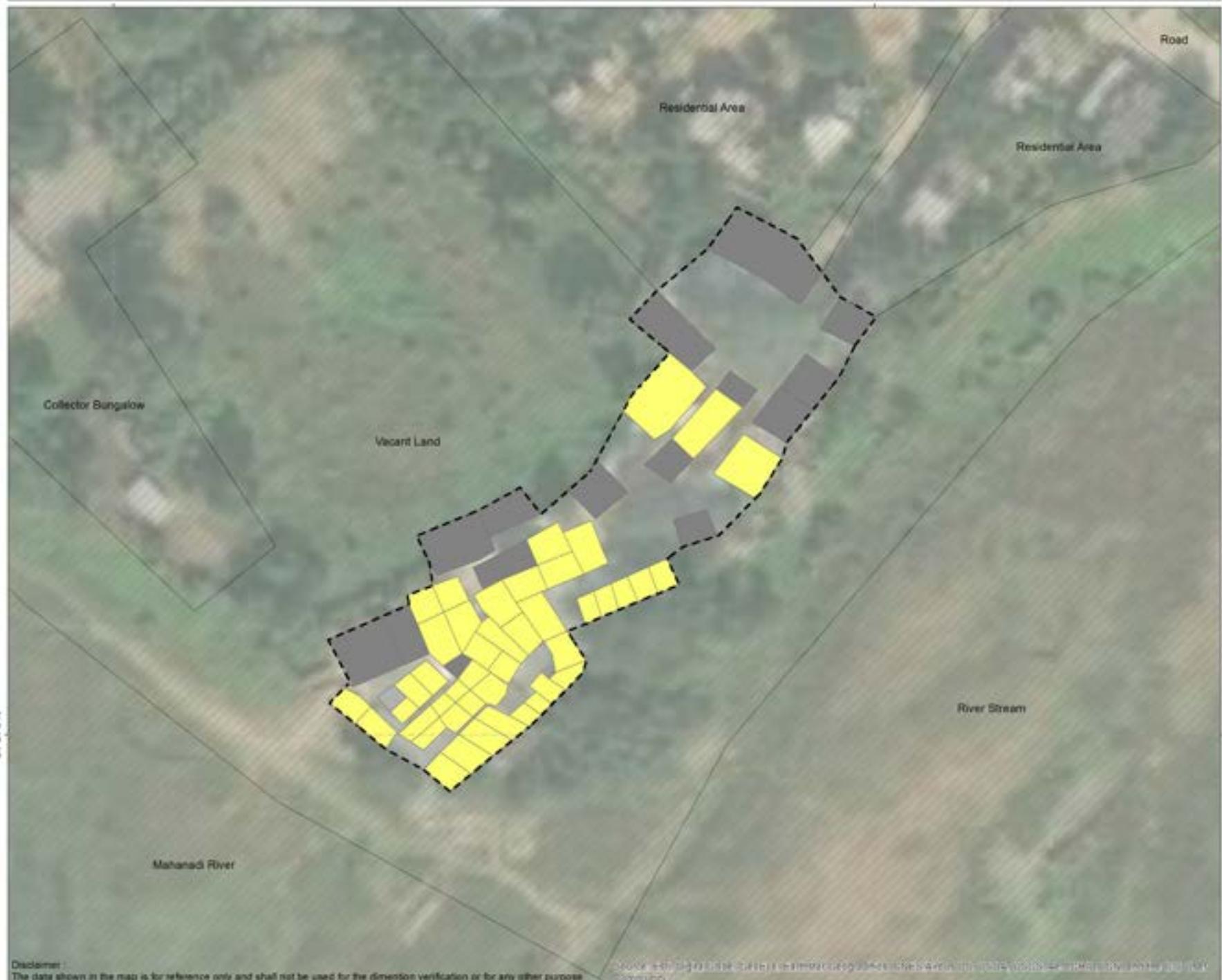
Scale :
 0 10 20 40



Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40
 m

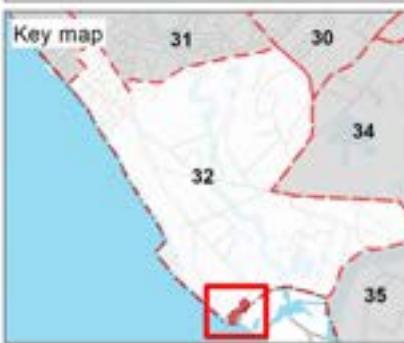


Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40
 m



Rickshawpada (Ward No. 32)


Household part of SHG

- Yes
- Locked house
- Other structures
- Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

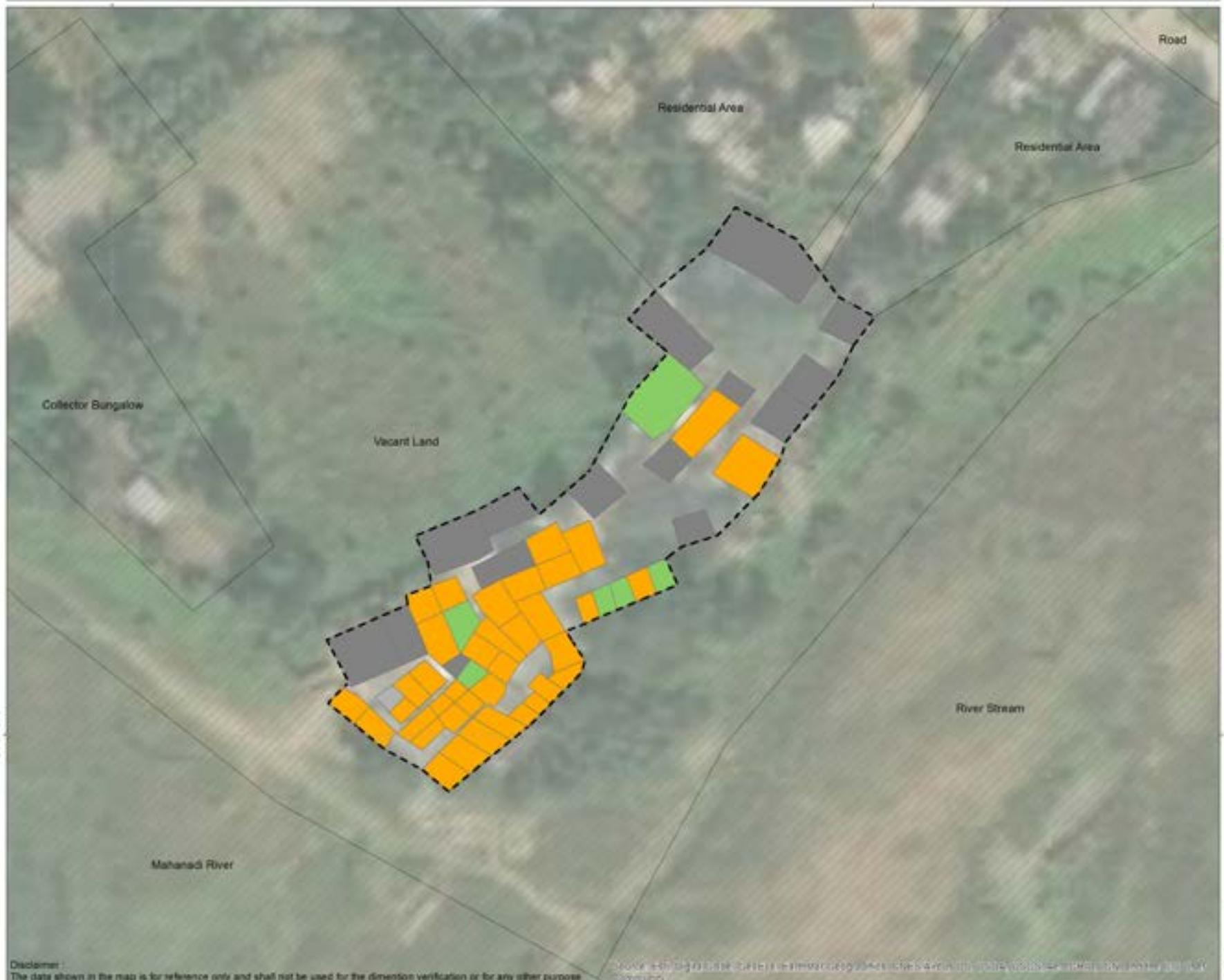
Scale :
 0 10 20 40 m





Rickshawpada (Ward No. 32)





Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40 m

Disclaimer :
 The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source :
 2019-2020 Primary Household Survey of Slums in Sambalpur, Odisha, Urban Management Centre.





Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40
 m





Ward - 33

Sambalpur

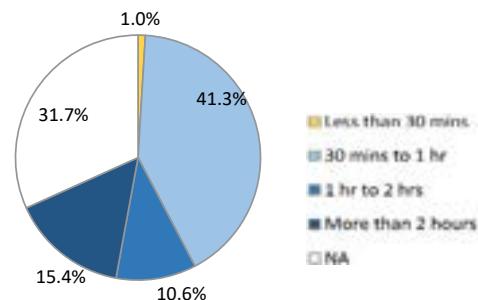
Ward name
33



1. Access to municipal water supply

	% of HHs with individual water tap connection	8%
	% of HHs satisfied with the quality of water supplied	25%

Duration of daily water supply



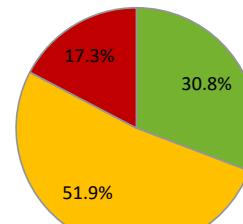
Number of slums

1

Total number of households in slums

104

2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL

32

% of functional IHHLs

91%

Number of PT/CTs near the slum

-

Total number of persons dependent on PT/CTs

263

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water

14%

% of IHHLs connected to septic tank/ soak pit/ twin pit

63%

4. Solid waste management system



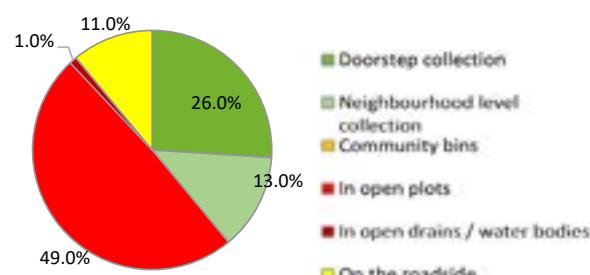
Total waste generation (kg)

149

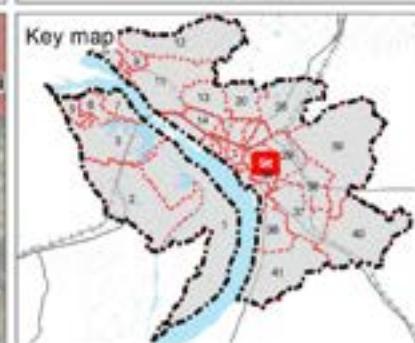
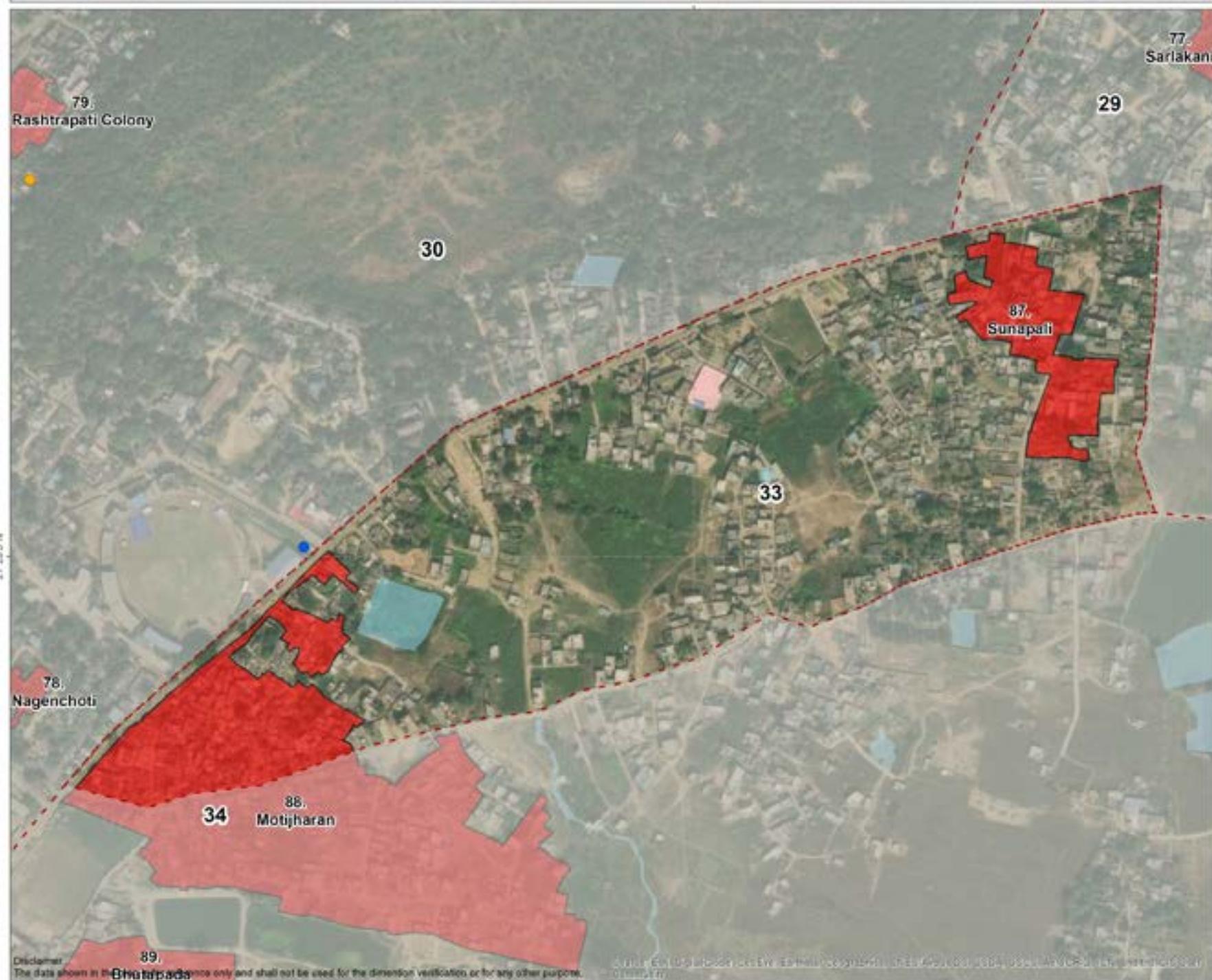
% of HHs segregating waste

40%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



87. Sunapali

Sambalpur

Slum name
SUNAPALI

Ward
33

Total number of households in the slum
104

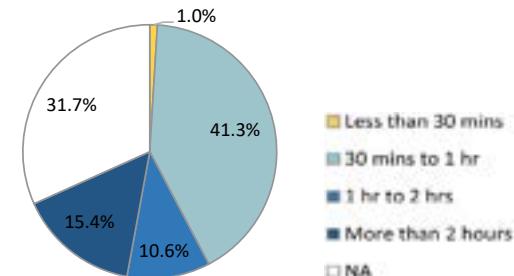
Approximate area of the slum
2.2 ha



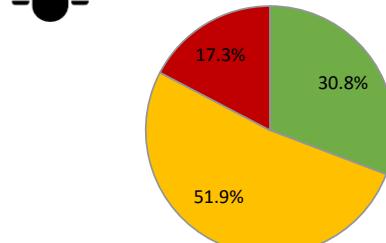
1. Access to municipal water supply

	% of HHs with individual water tap connection 8%
	% of HHs satisfied with the quality of water supplied 25%

Duration of daily water supply



2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit
63%

Number of HHs having IHHL
32

% of functional IHHLs
91%

Number of PT/CTs near the slum
-

Total number of persons dependent on PT/CTs
263

4. Solid waste management system

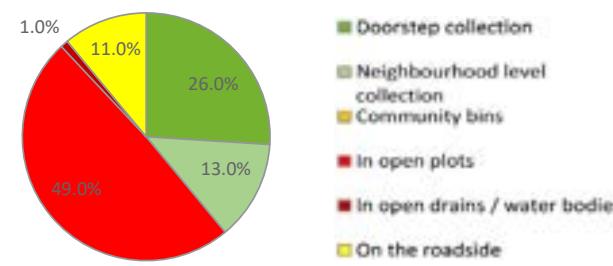


Total waste generation (kg)

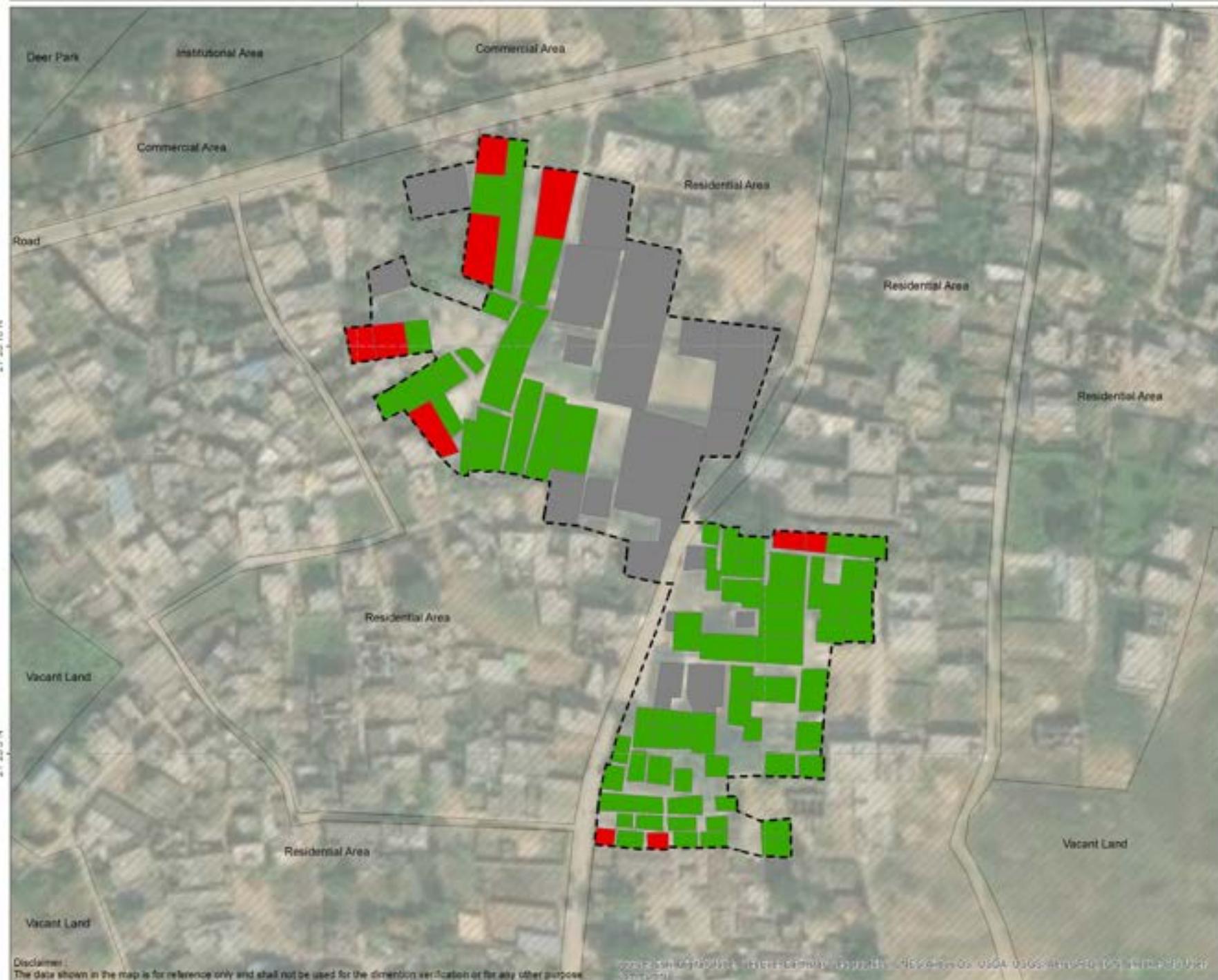
149

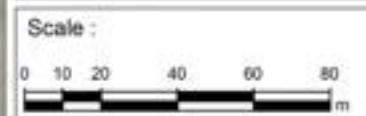
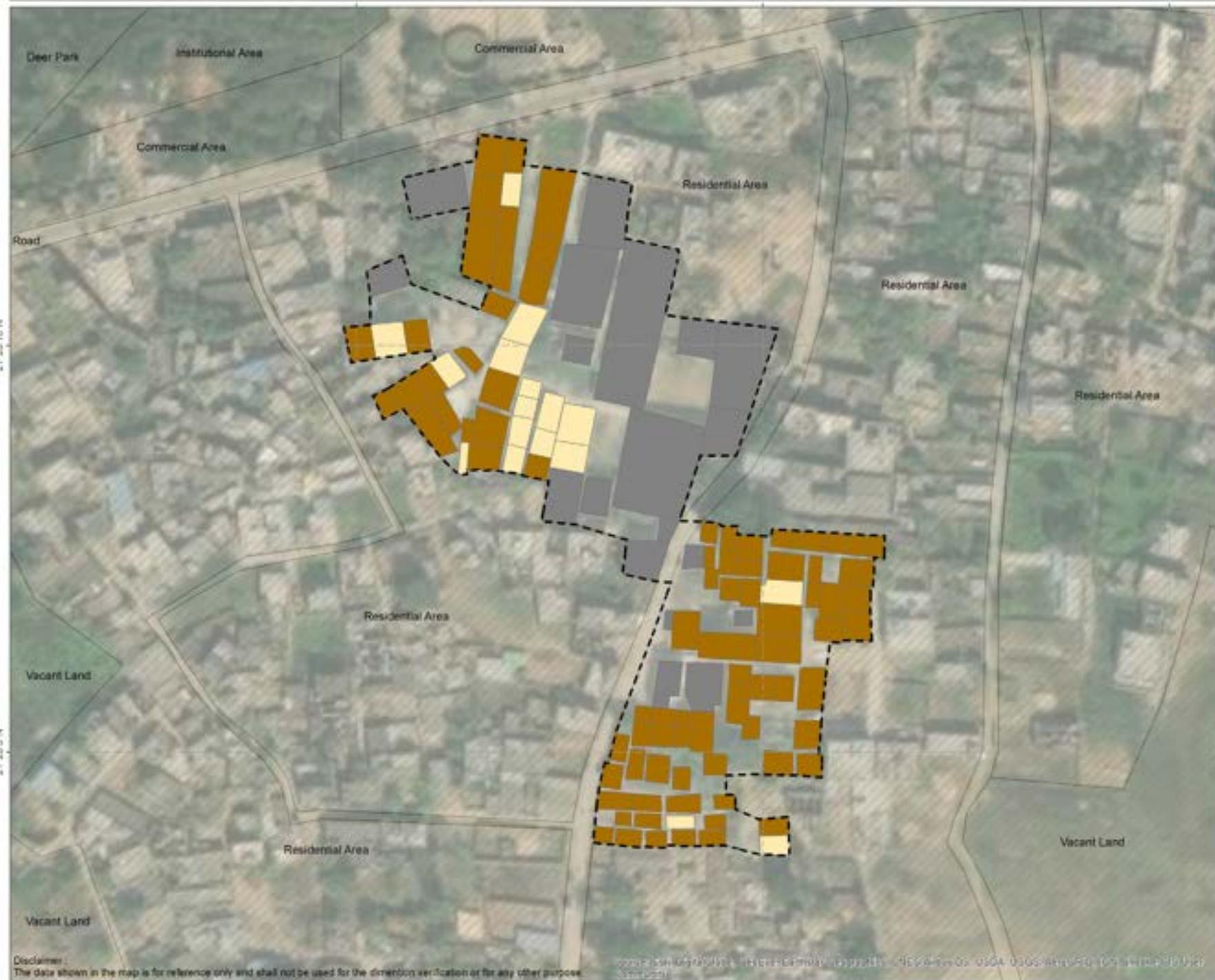
% of HHs segregating waste
40%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet







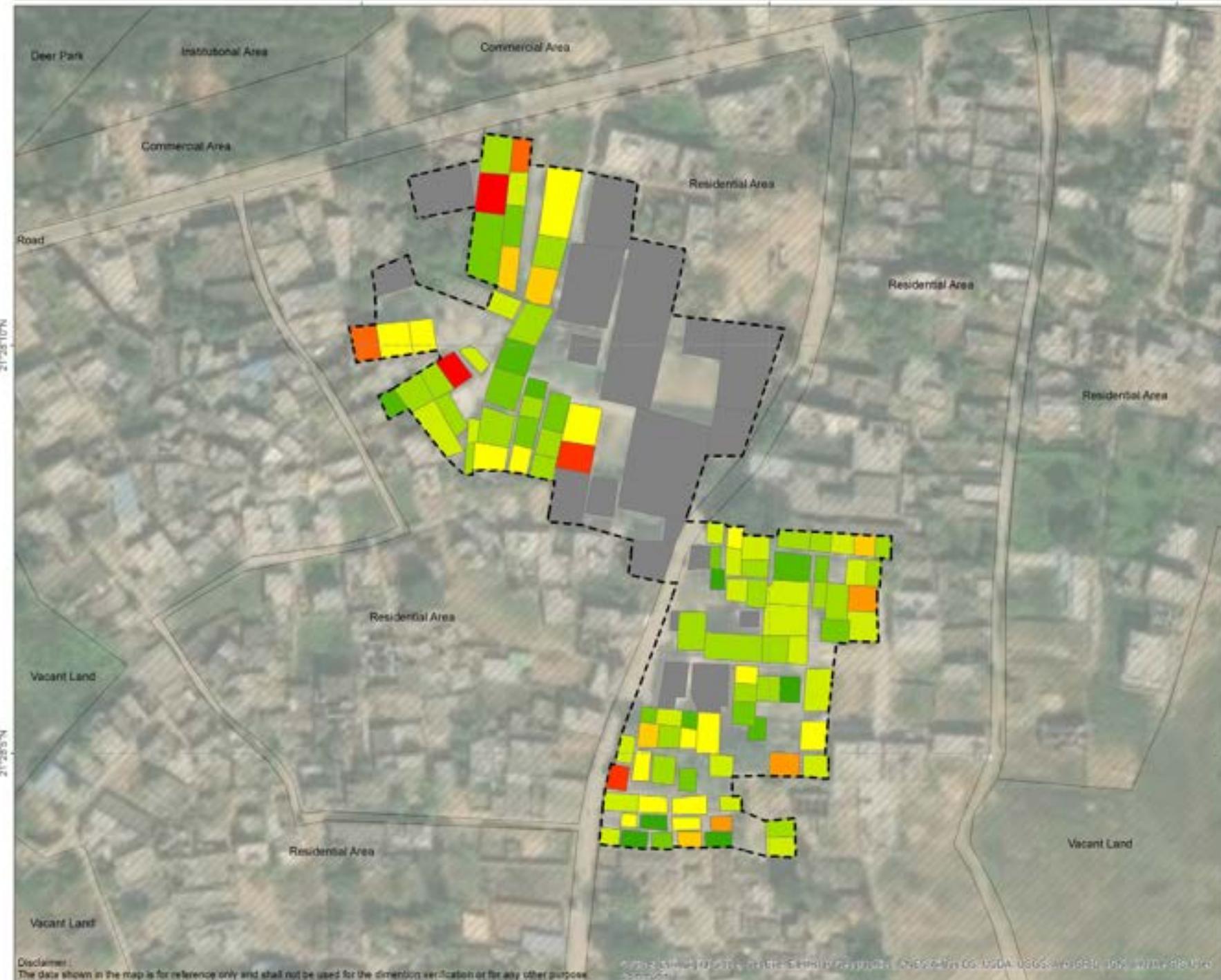
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Sambalpur

Sunapali (Ward No. 33)

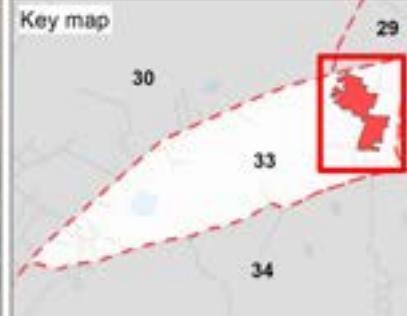
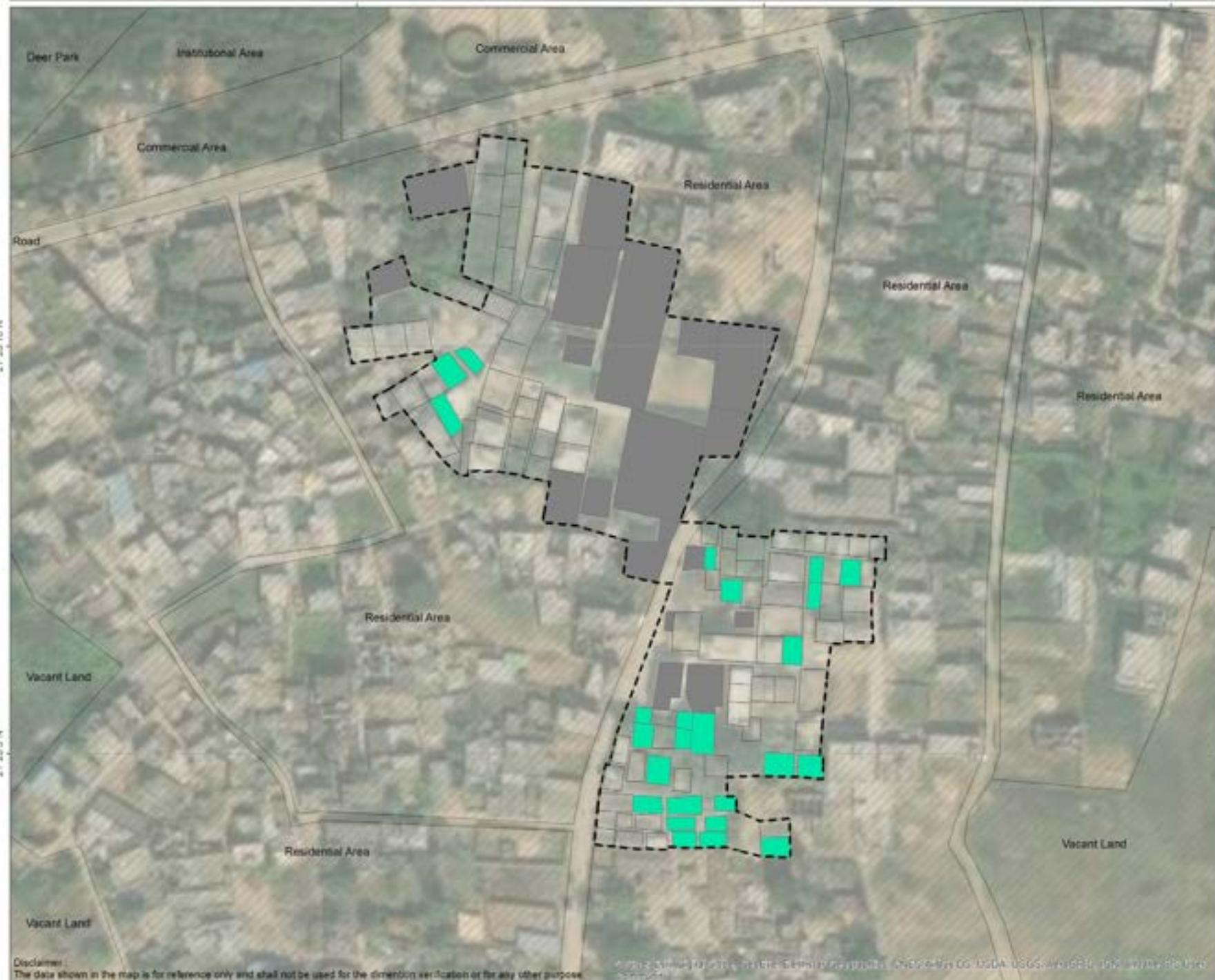


Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :



Disclaimer:
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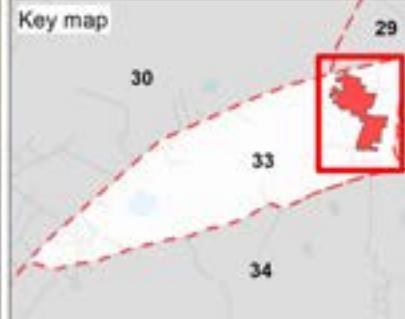
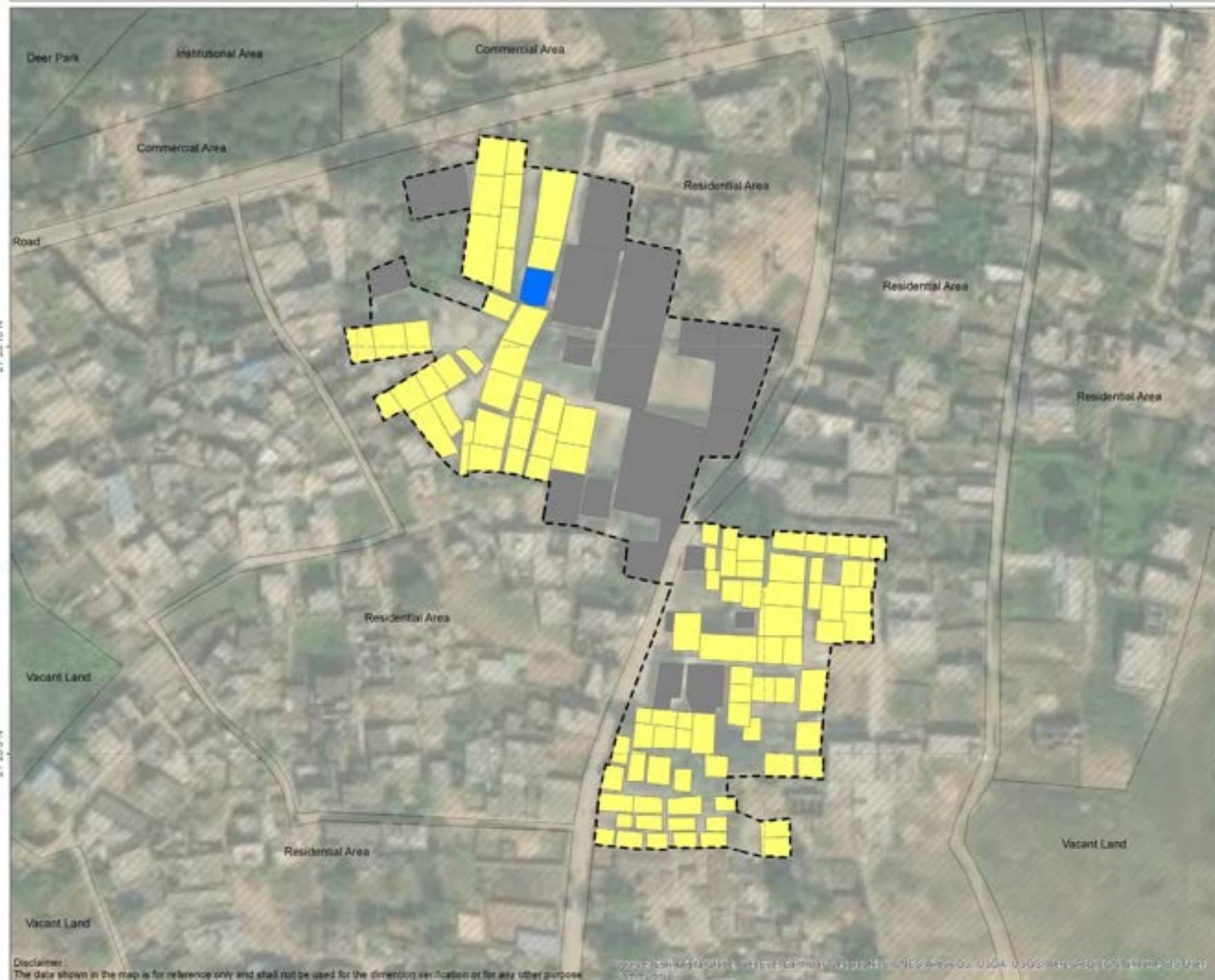
Elderly citizen

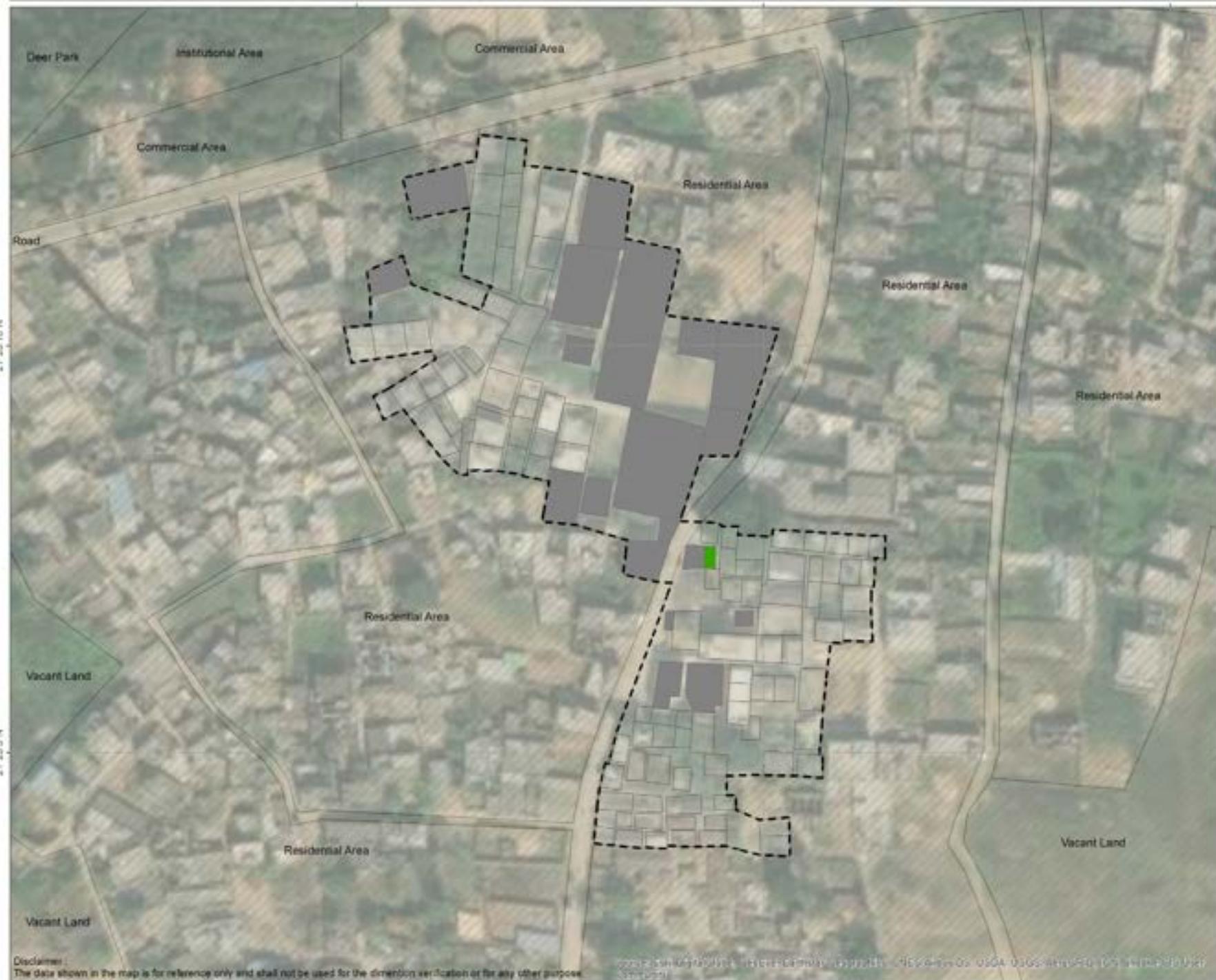
- HH have elderly citizen
- Other structures
- Slum boundary

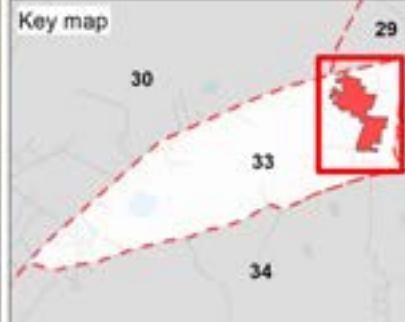
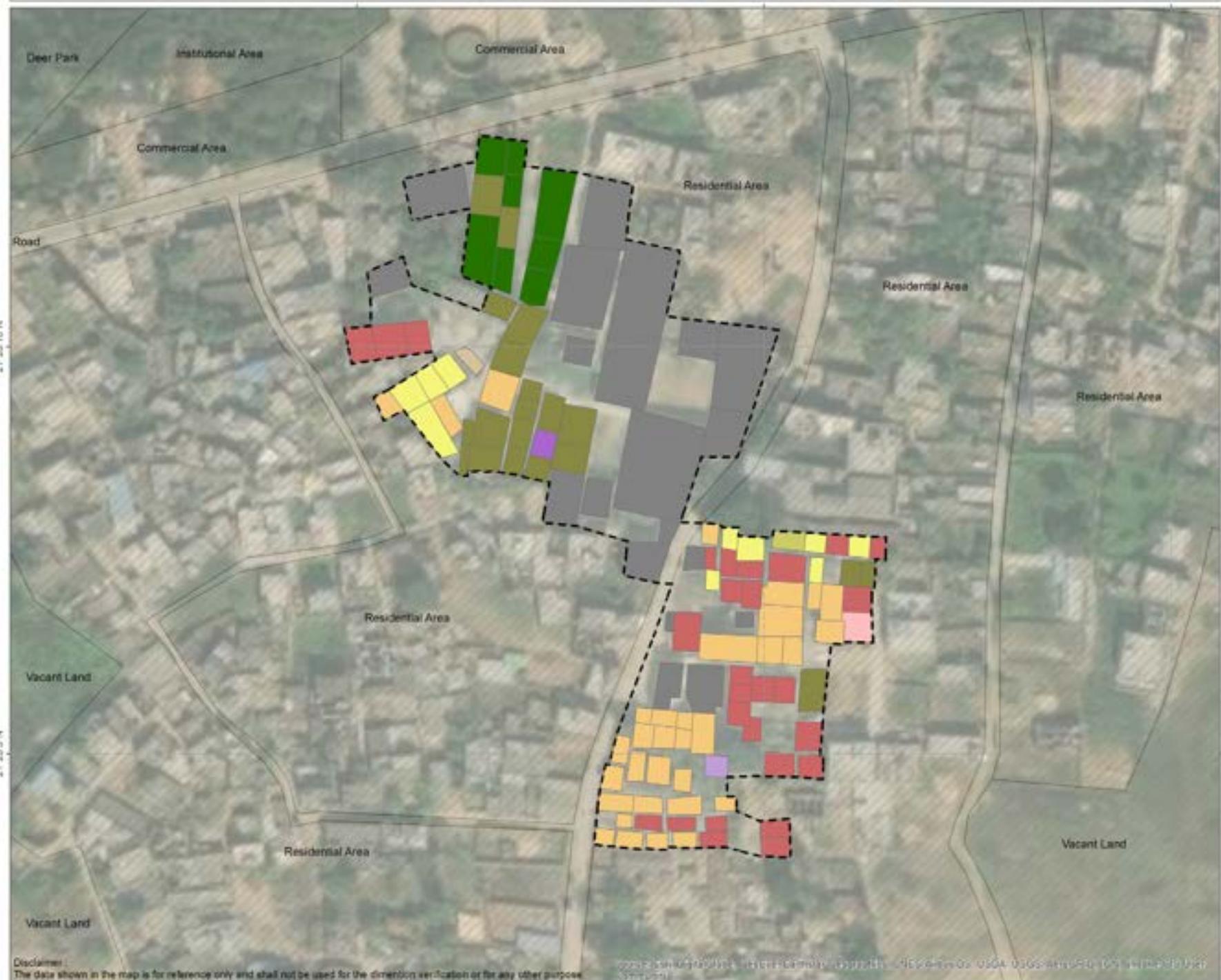
Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60 80 m





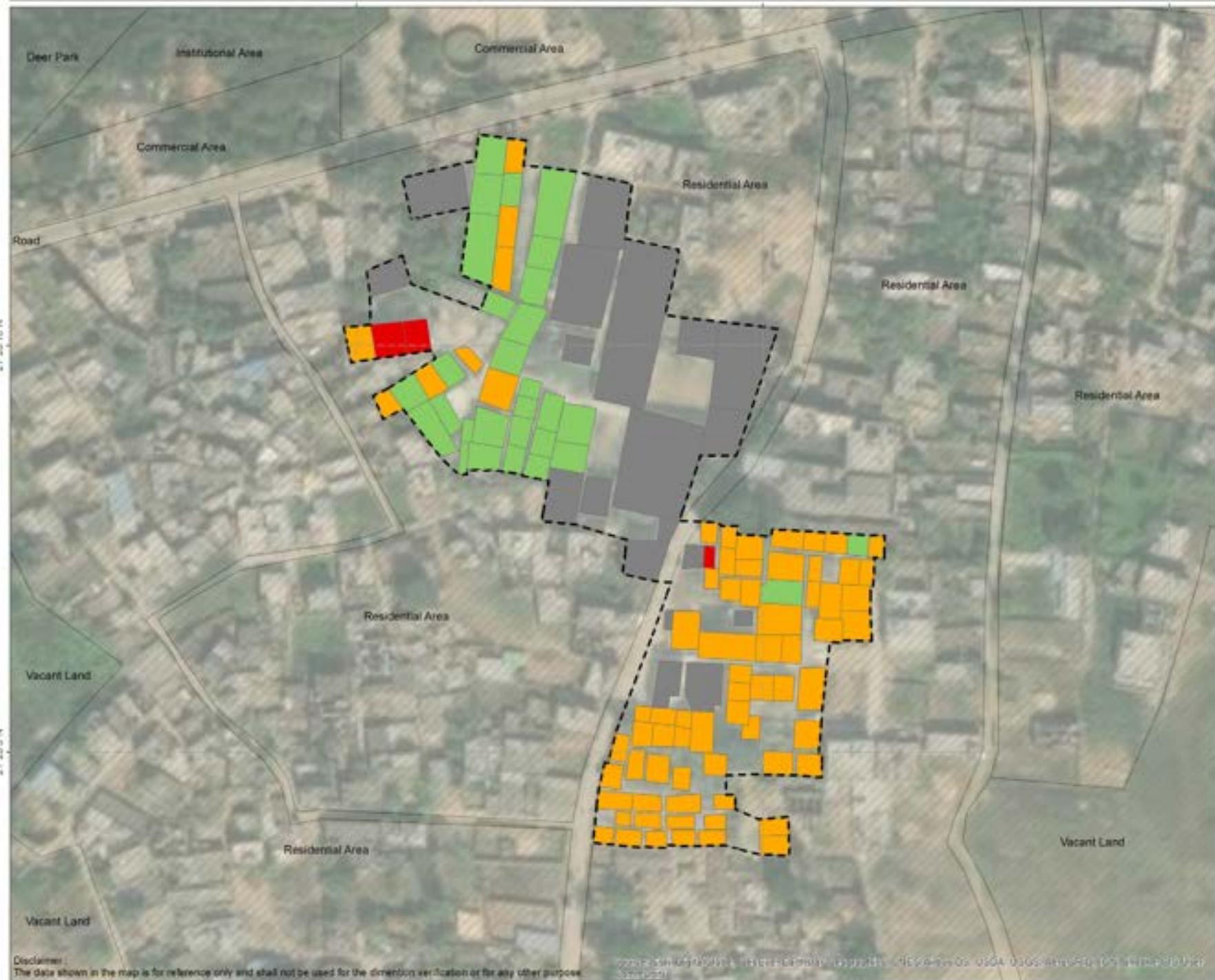


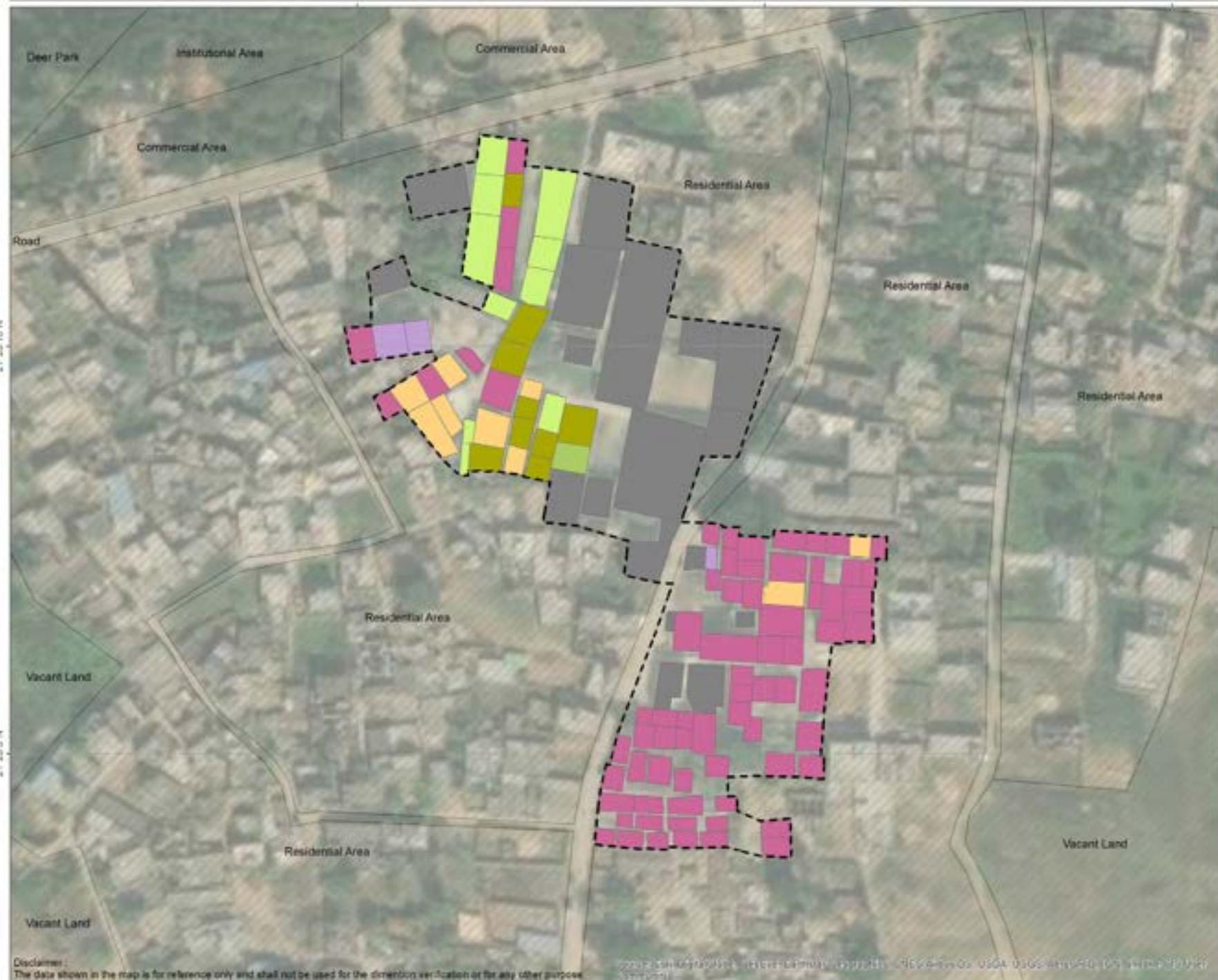

Source of water in household

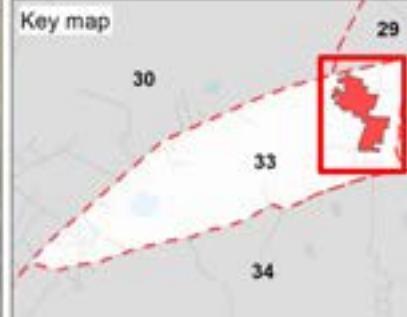
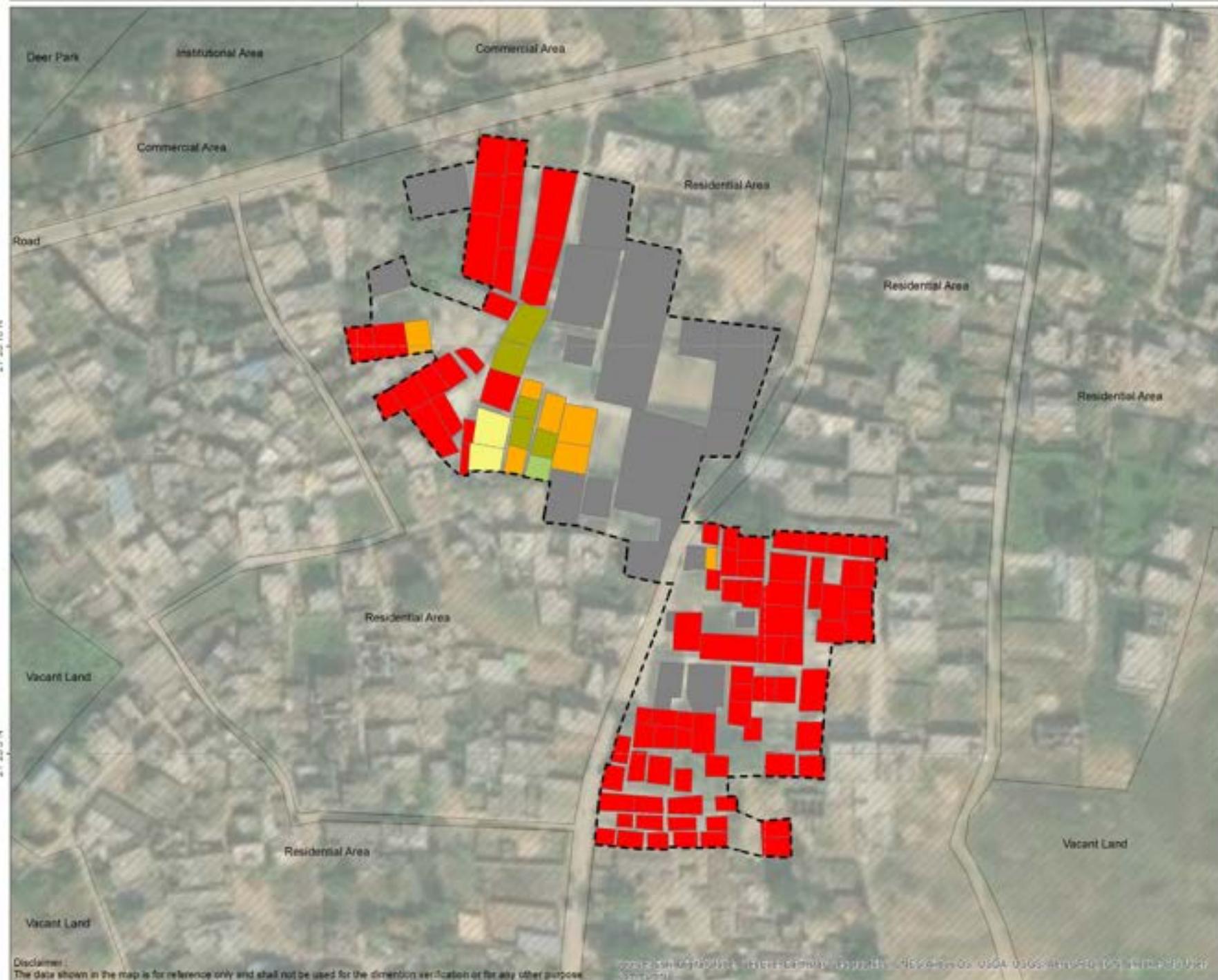
- Tap connection at home
- Stand post
- Stand post & Hand pump
- Water tanker (Government), Hand pump & Fetching water from neighbourhood
- Private water tanker
- Hand pump
- Hand pump & Fetching water from neighbourhood
- Fetching water from neighbourhood
- Nearby water bodies
- No water facility
- Other structures
- Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40 60 80 m





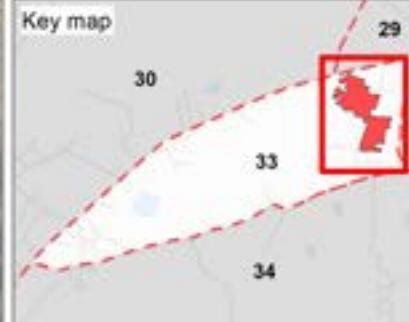
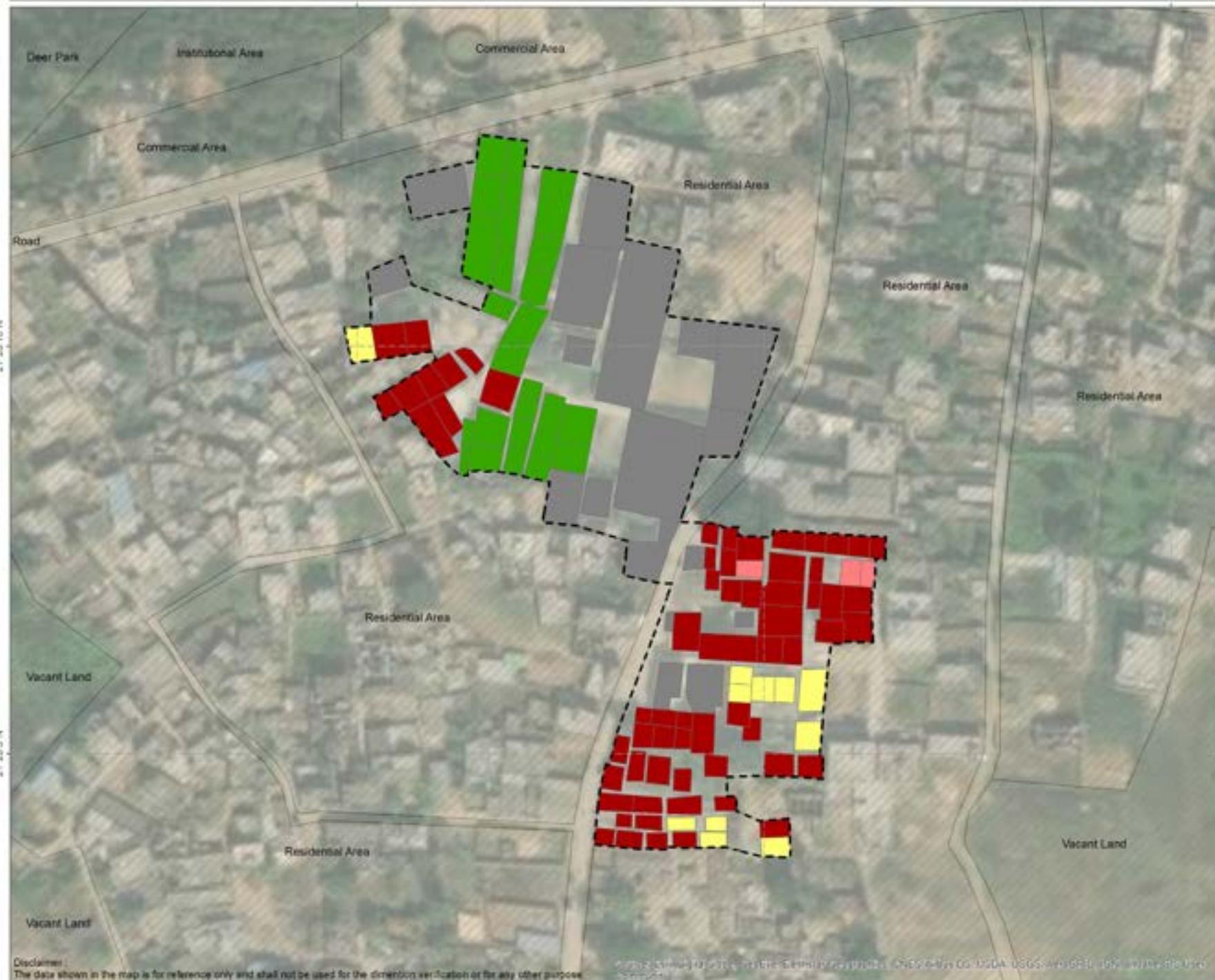


Grey water disposed to :

- [Green square] Septic tank
- [Yellow square] Twin pit
- [Orange square] Single pit
- [Light yellow square] Small pit (kundi) outside the house
- [Red square] Open drain
- [Grey square] Other structures
- [Dashed line] Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60 80 m



Household disposing solid waste to :

- [Green Box] D to D service
- [Yellow Box] On road side
- [Pink Box] In open plot & On road side
- [Red Box] In open plot
- [Grey Box] Other structures
- [Dashed Box] Slum boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60 80 m

Ward - 33 & 34

Sambalpur

Ward name
33&34

Number of slums

Total number of households in slums
663

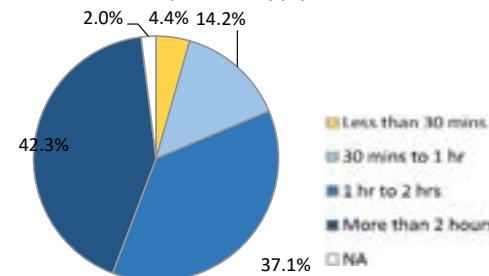


1. Access to municipal water supply

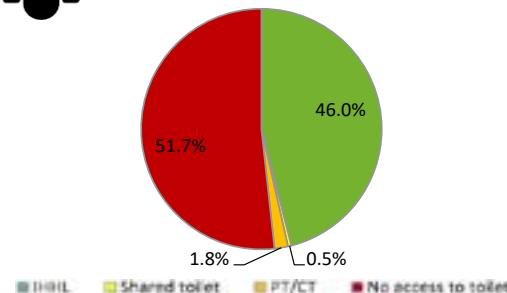
% of HHs with individual water tap connection **65%**

% of HHs satisfied with the quality of water supplied **59%**

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **305**

% of functional IHHLs **93%**

Number of PT/CTs near the slum **1**

Total number of persons dependent on PT/CTs **38**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water **28%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **89%**

4. Solid waste management system

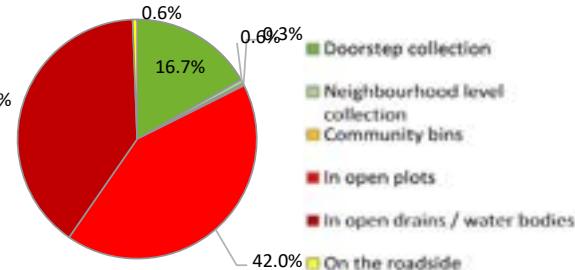


Total waste generation (kg)

1011

% of HHs segregating waste **22%**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



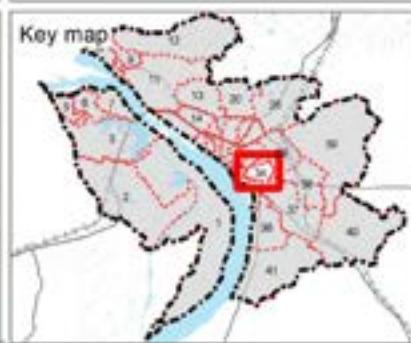
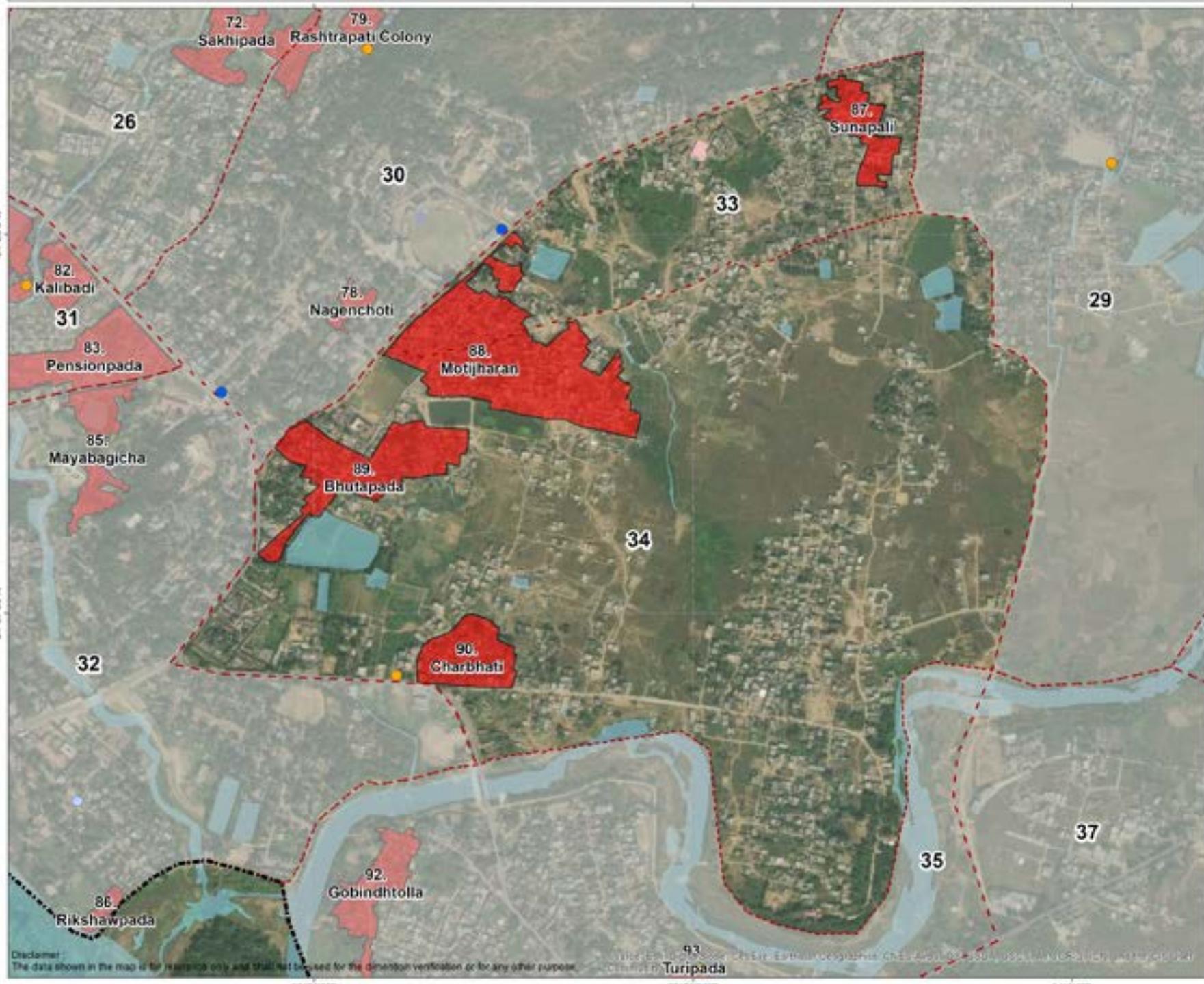
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
Urban Management Centre

Sambalpur

Ward No. 33 & 34



Base layers

- Functional Community Toilet
 - Non-functional Public Toilet
 - Functional Public Toilet
 - Slum
 - National highway
 - State highway
 - ||||| Railway line
 - Waterbody
 - - - Ward boundary
 - - SMC boundary

Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scalio -



88. Motijharan

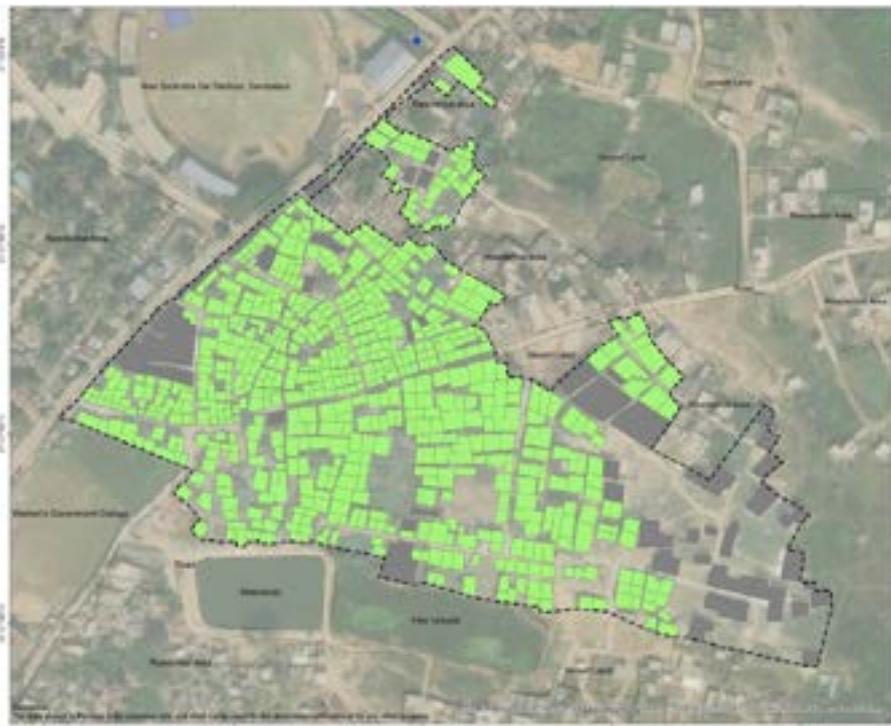
Sambalpur

Slum name
MOTIJHARAN

Ward
33&34

Total number of households in the slum
663

Approximate area of the slum
11.9 ha

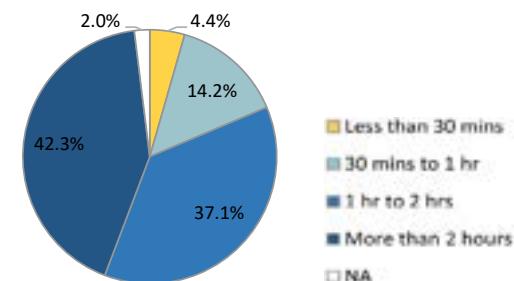


1. Access to municipal water supply

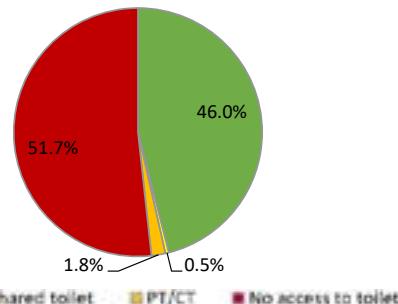
% of HHs with individual water tap connection
65%

% of HHs satisfied with the quality of water supplied
59%

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL
305

% of functional IHHLs
93%

Number of PT/CTs near the slum
1

Total number of persons dependent on PT/CTs
38

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water
28%

% of IHHLs connected to septic tank/ soak pit/ twin pit
89%

4. Solid waste management system

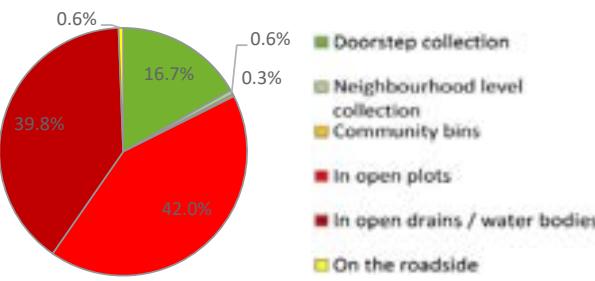


Total waste generation (kg)

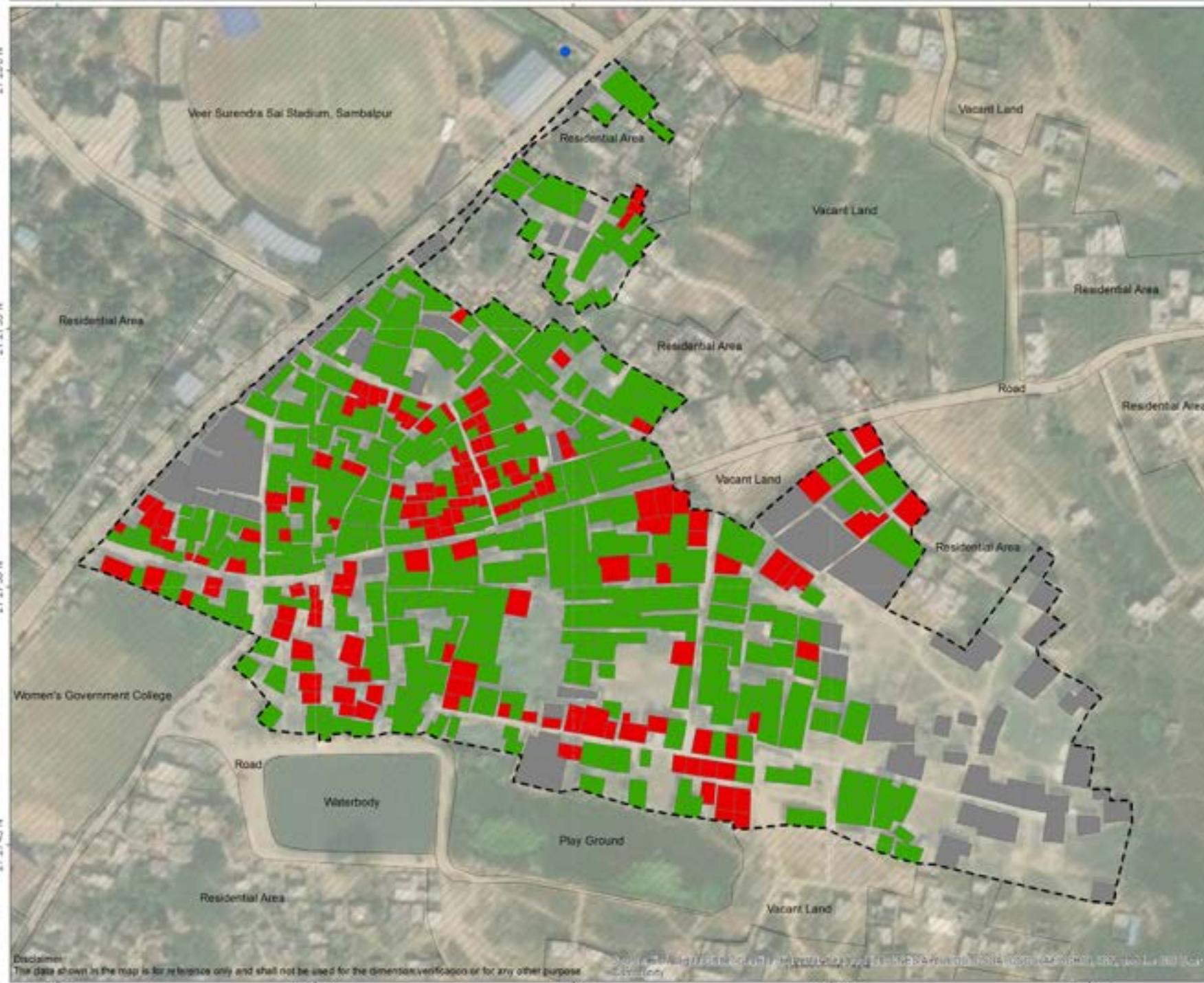
1011

% of HHs segregating waste
22%

Method of HH waste disposal

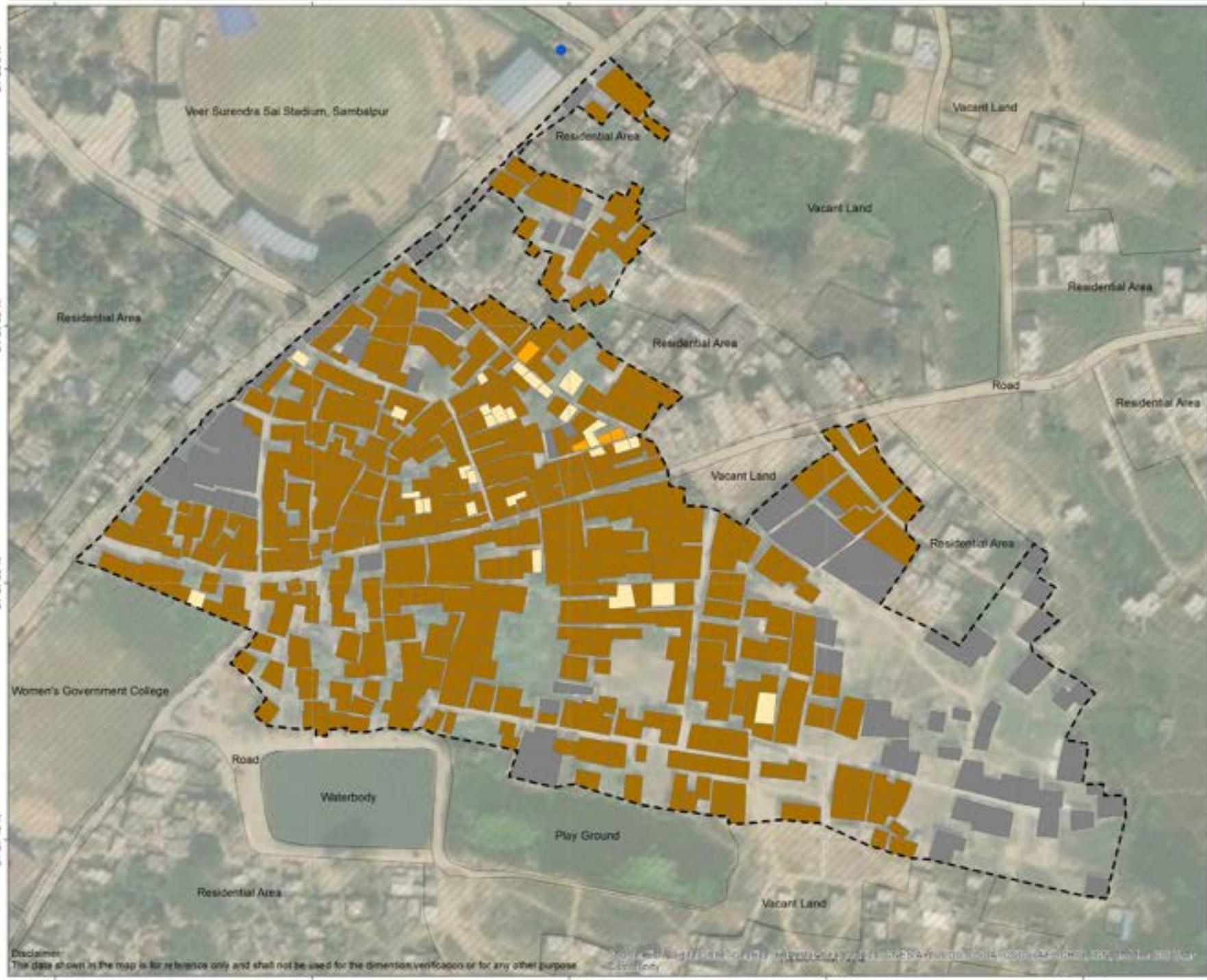


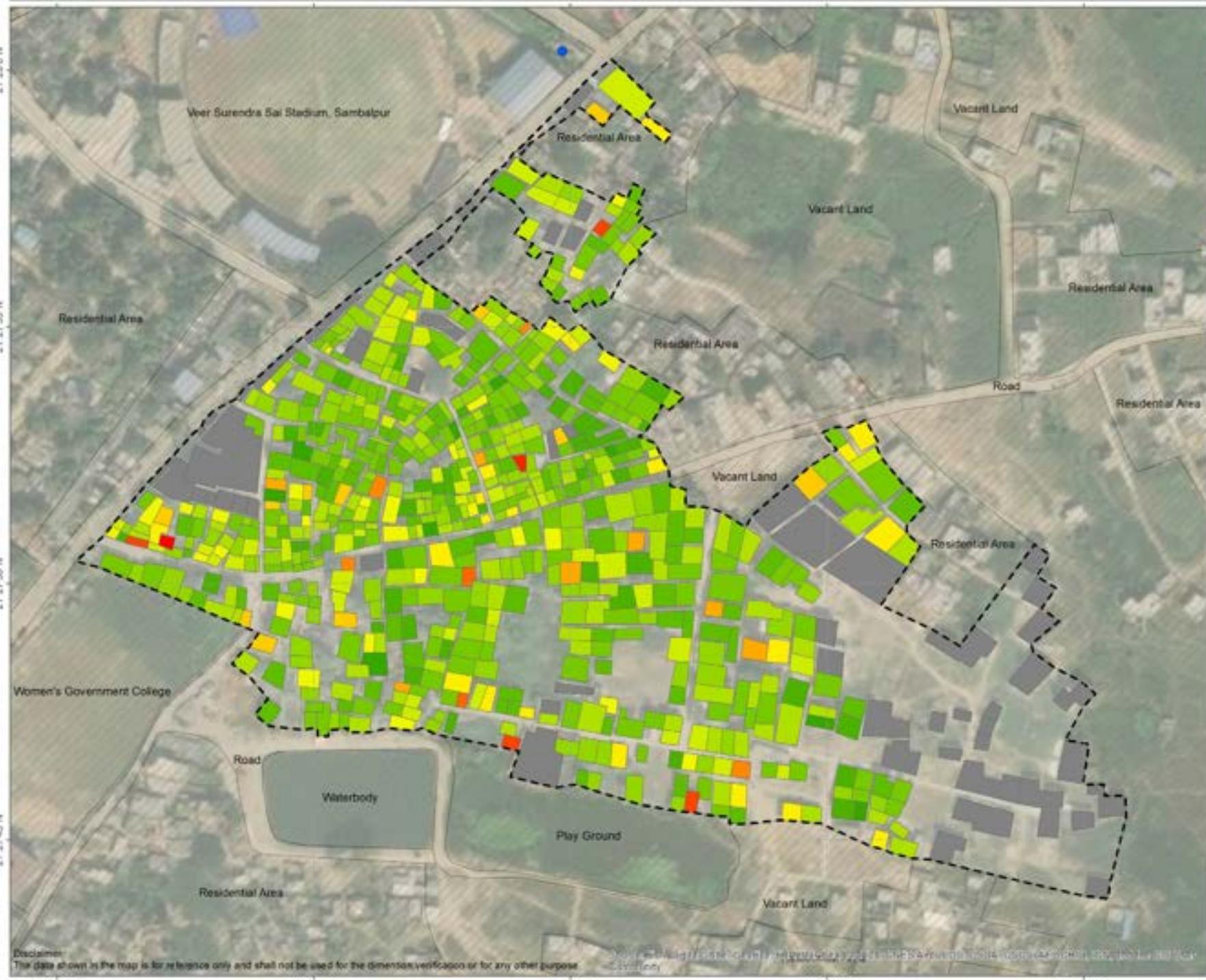
HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet





Motijharan (Ward No. 33 & 34)







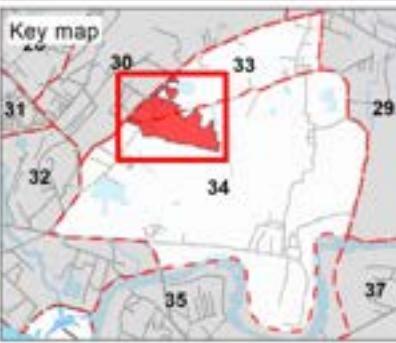
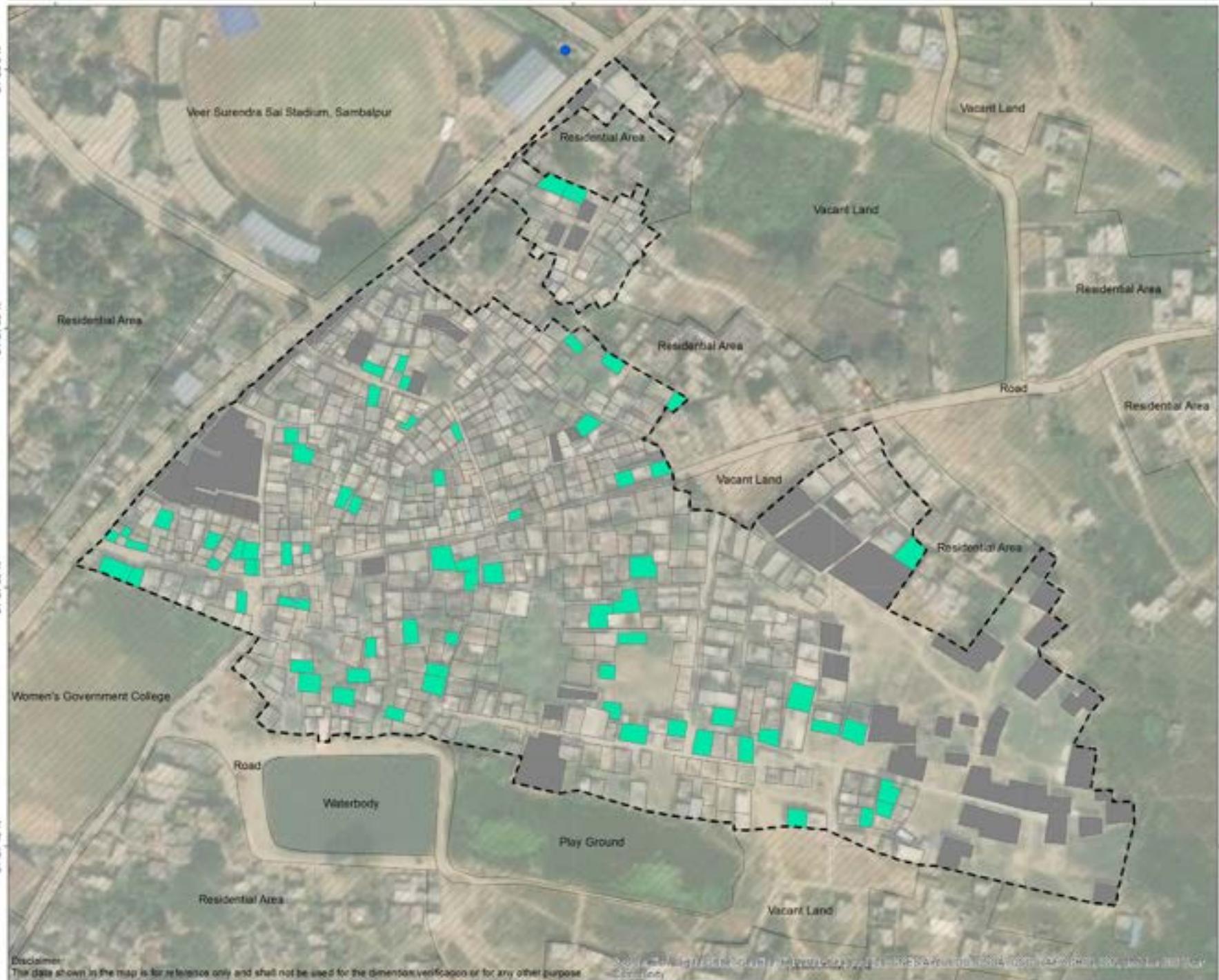
MISAAAL
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
Urban Management Center

Sambalpur

Motijharan (Ward No. 33 & 34)



Elderly citizen

- HH have elderly citizen
Other structures
Functional Public Toilet
Slum boundary

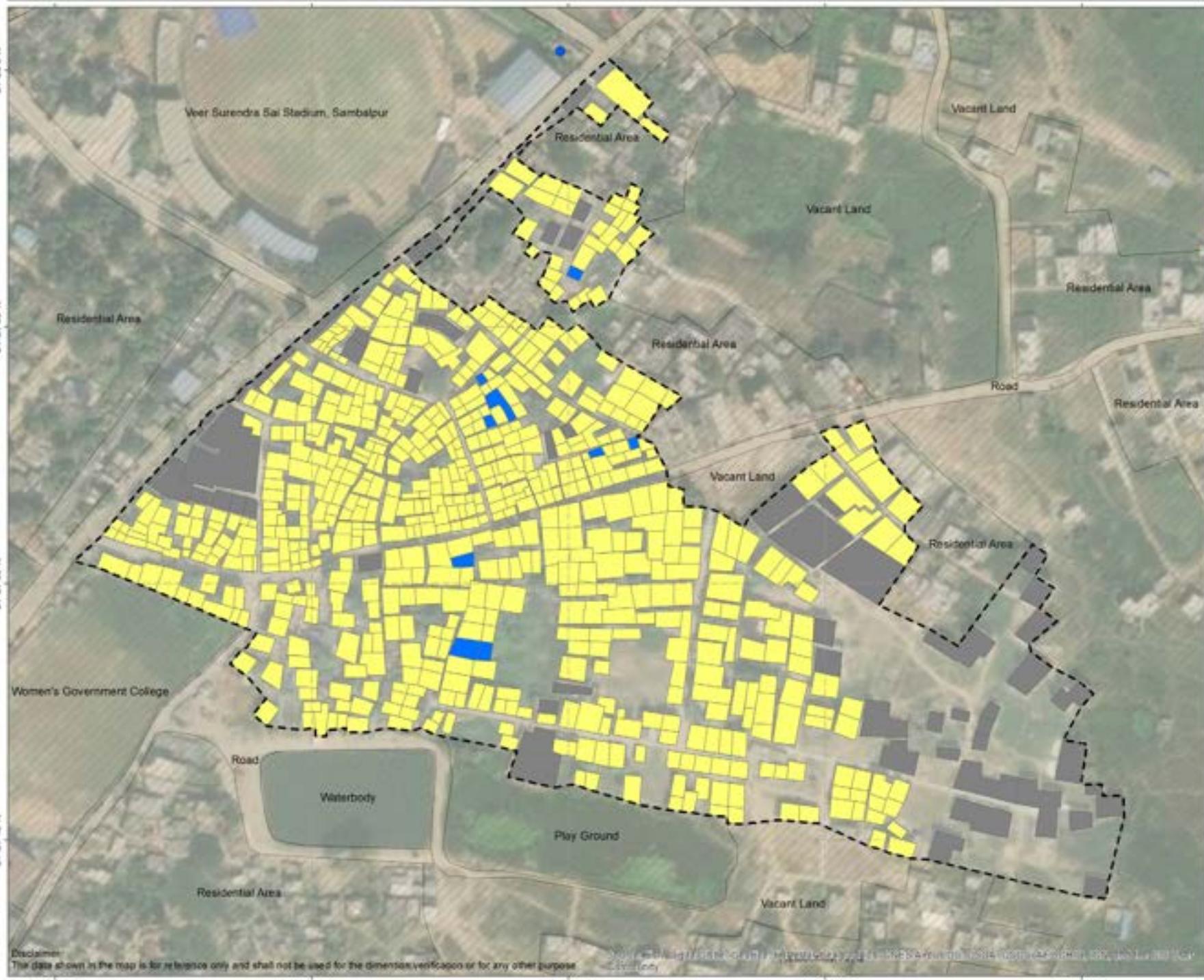
Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale:





Motijharan (Ward No. 33 & 34)





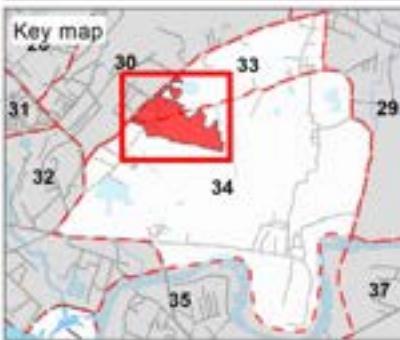
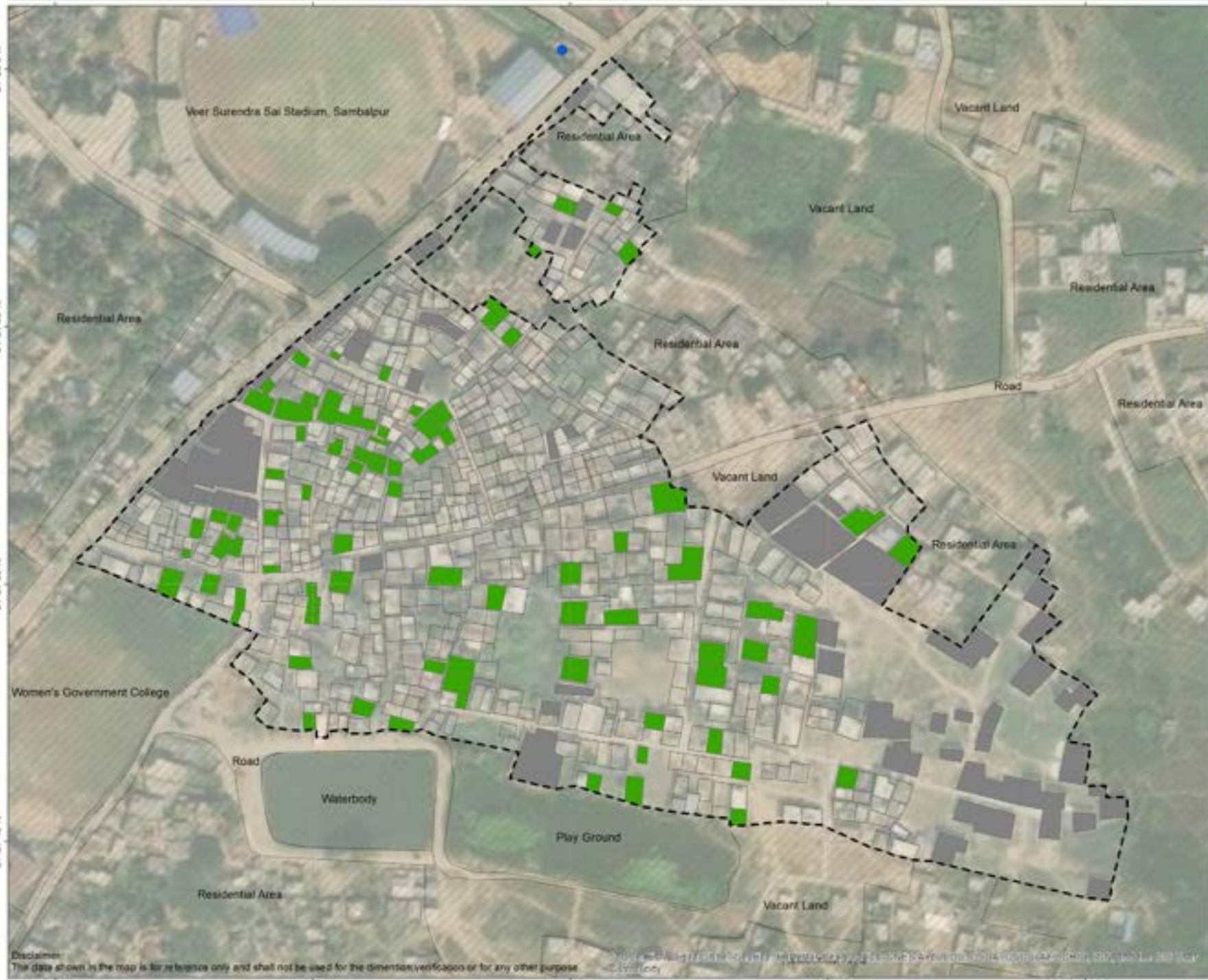
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



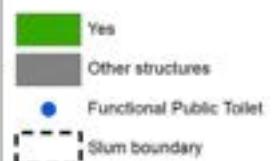
UMC
UZHURAN MUSICOLOGY CENTER

Sambalpur

Motijharan (Ward No. 33 & 34)



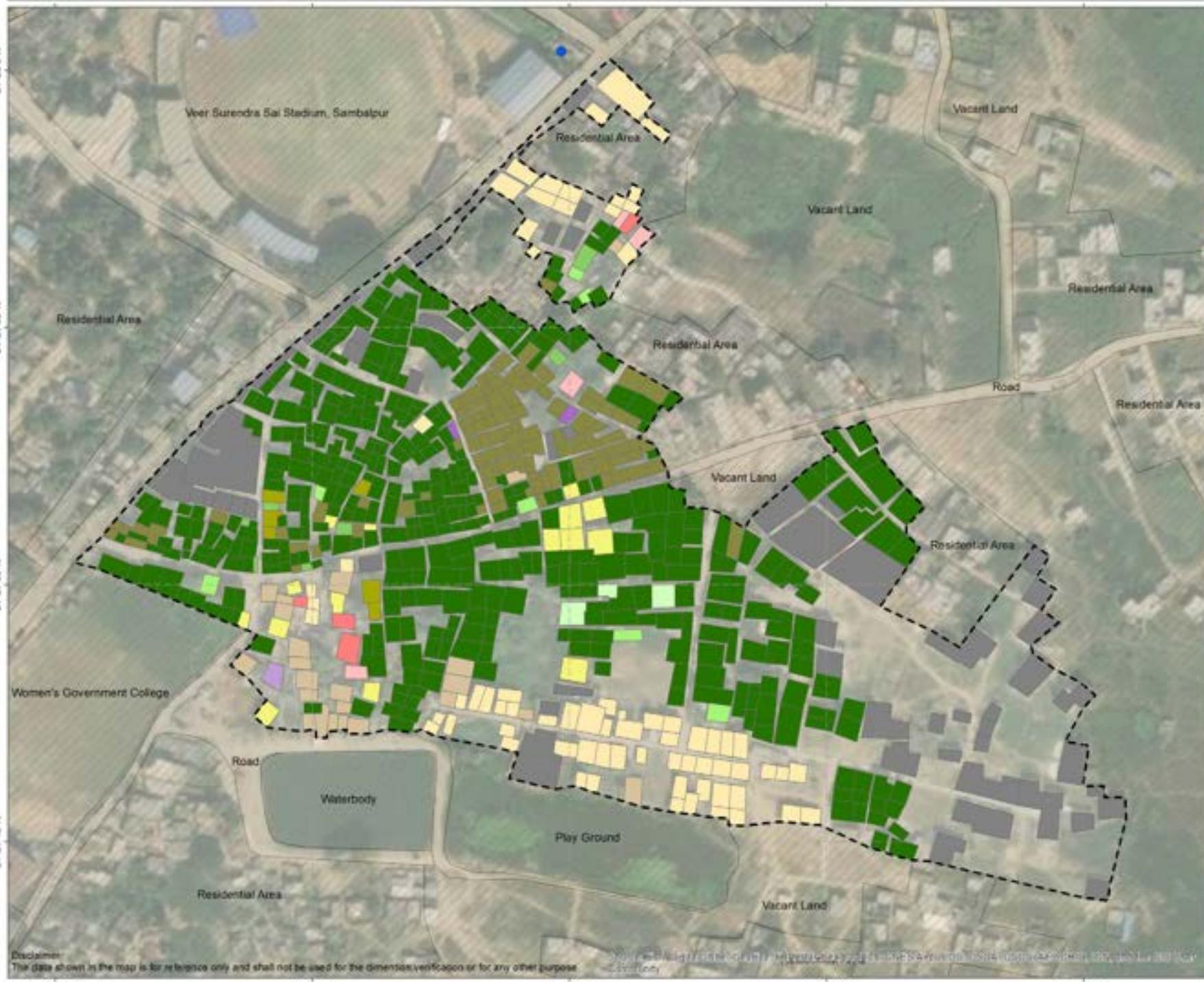
Household part of SHG

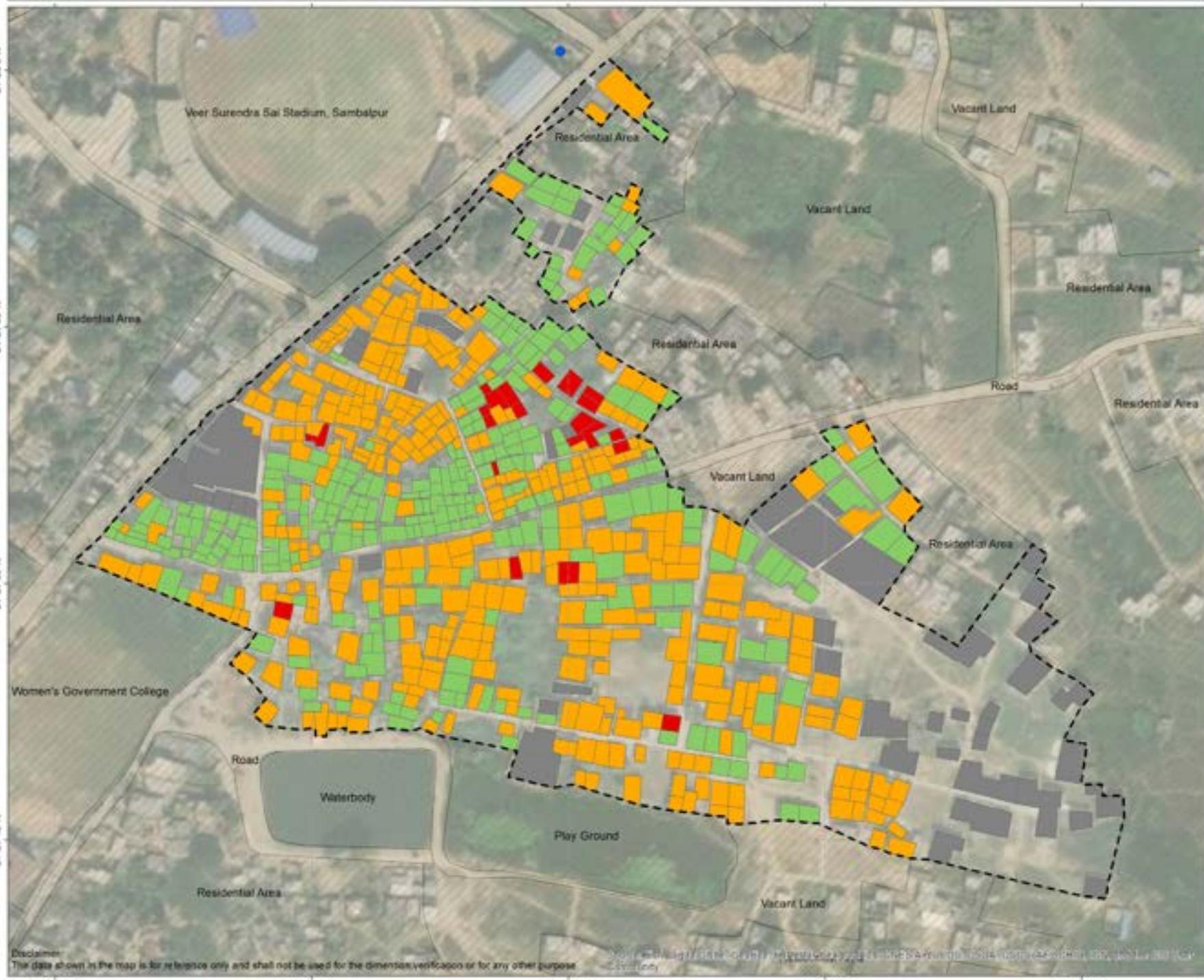


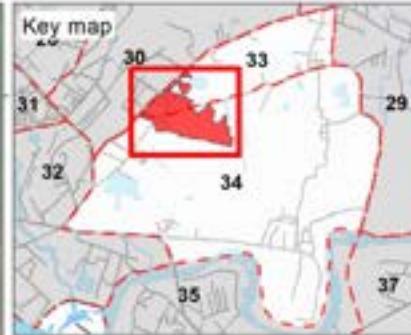
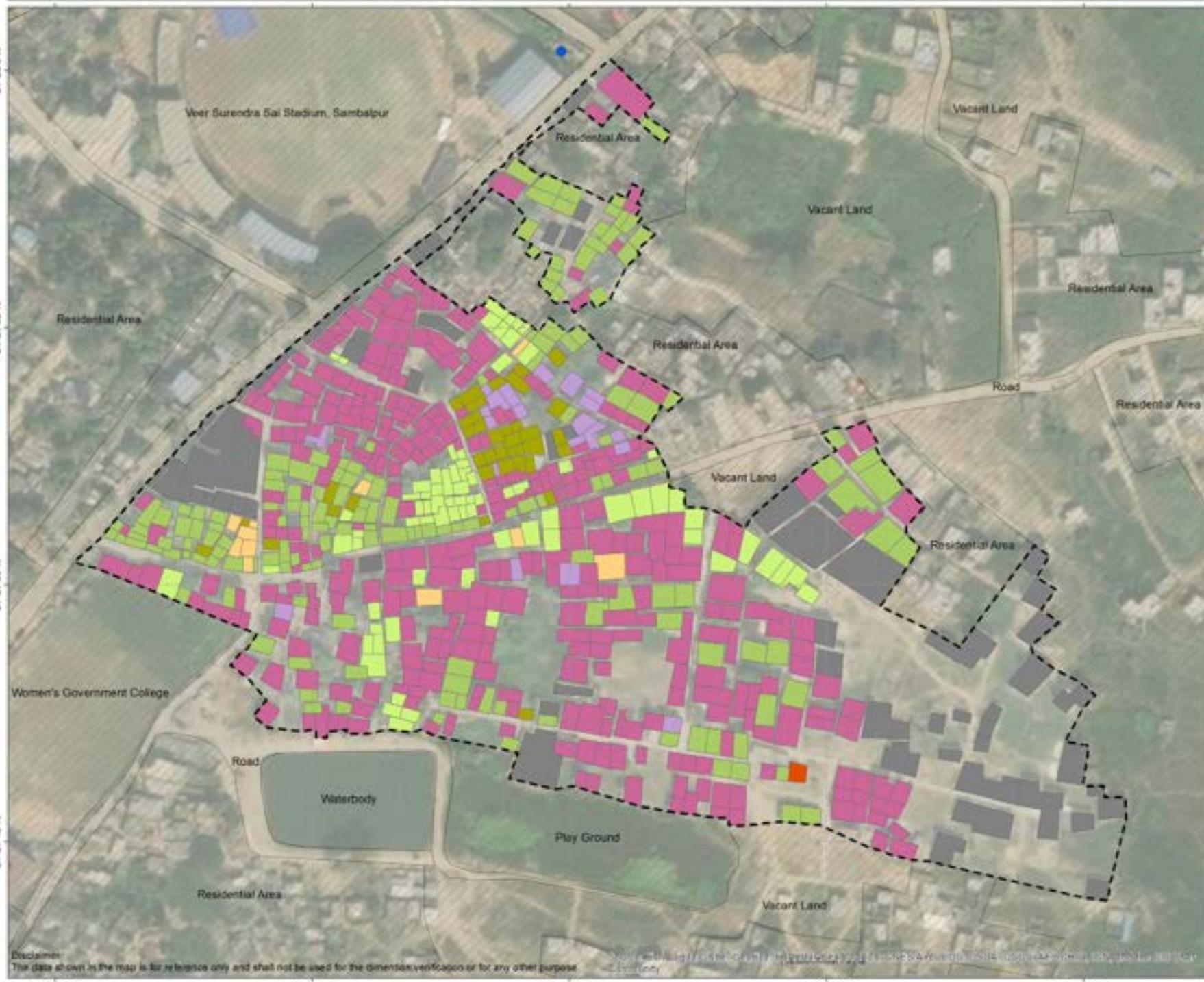
Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale









IHHL connected to :

- Septic tank
- Twin pit
- Soak pit
- Open drain
- No connection for disposal
- Non-Functional IHHL
- No IHHL
- Other structures
- Functional Public Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :

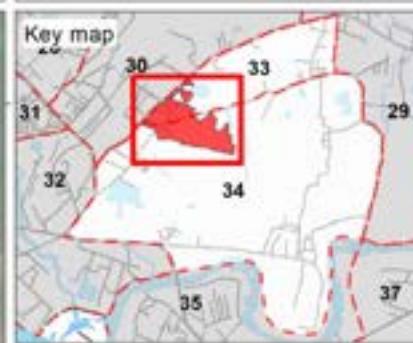
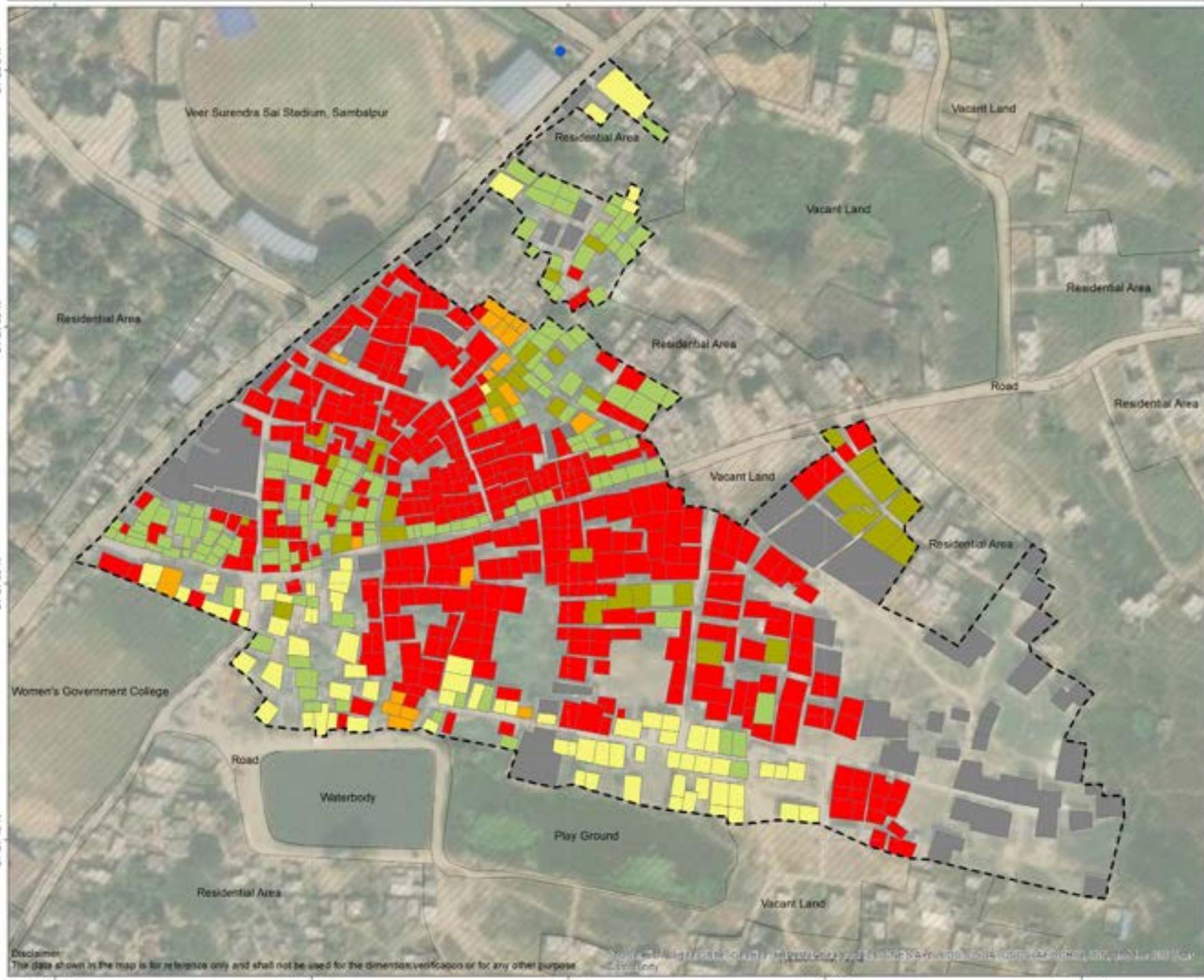


Disclaimer:

The data shown in the map is for reference only and shall not be used for the dimension verifications or for any other purpose.



Motijharan (Ward No. 33 & 34)



Grey water disposed to :

- Septic tank
- Twin pit
- Single pit
- Small pit (kundi) outside the house
- Open drain
- Other structures
- Functional Public Toilet
- Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :



Disclaimer:

The data shown in the map is for reference only and shall not be used for the dimension verifications or for any other purpose.

83°59'15"E

83°59'10"E

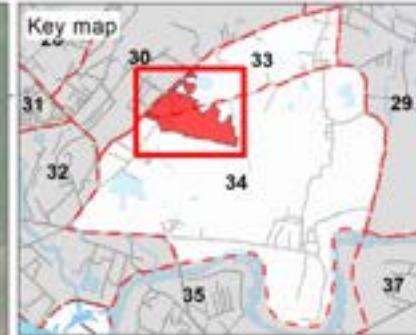
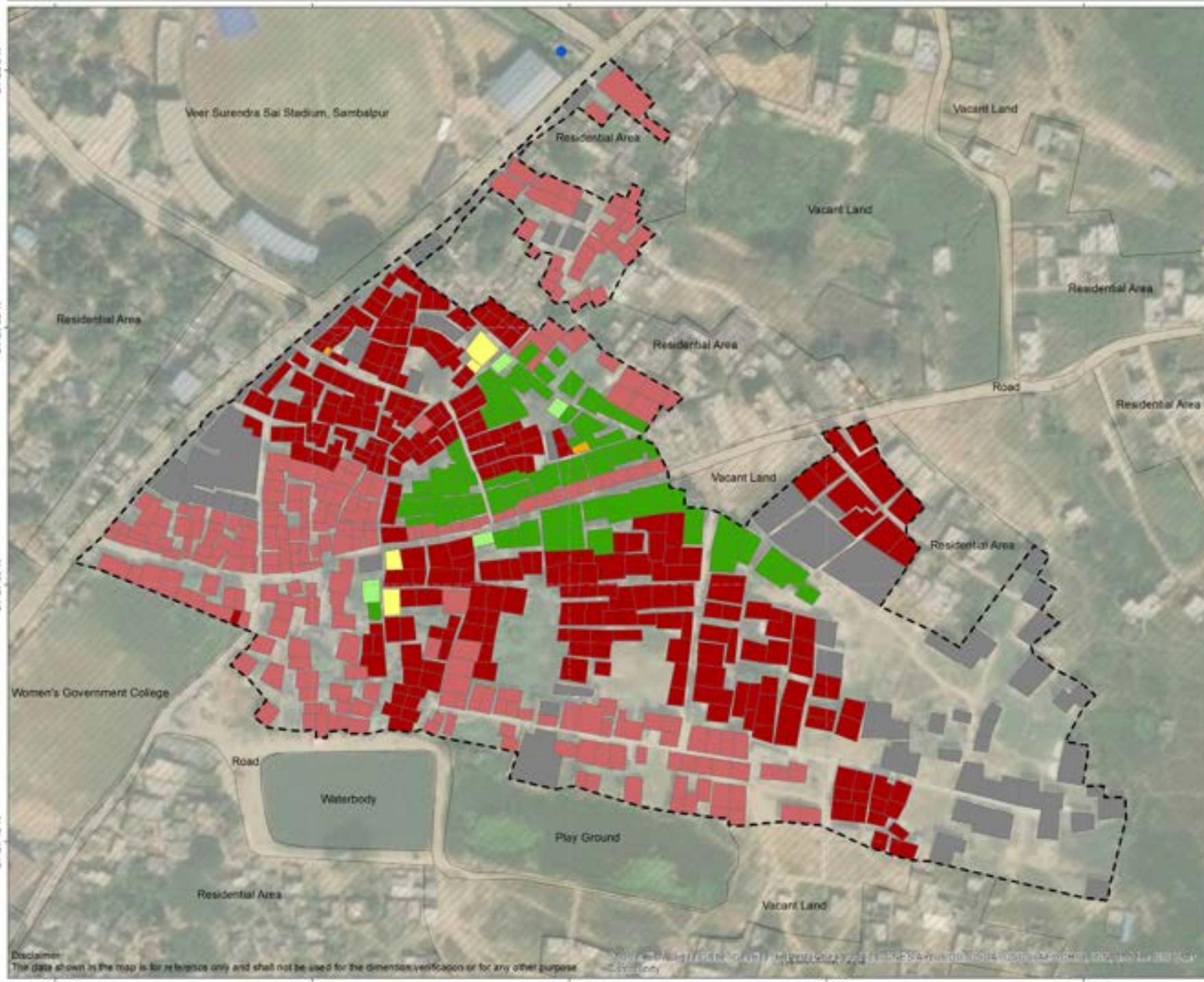
83°59'15"E

83°59'20"E

83°59'25"E



Motijharan (Ward No. 33 & 34)



Household disposing solid waste to :

- D to D service
- Handover to municipal waste collector
- Nearby community bin
- On road side
- In open plot
- In open drains/waterbody
- Other structures
- Functional Public Toilet
- Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 20 40 60 80 100 120 m

Disclaimer:

The data shown in the map is for reference only and shall not be used for the dimension verifications or for any other purpose.

83°59'12"E

83°59'12"E

83°59'15"E

83°59'20"E

83°59'25"E



Ward - 34

Sambalpur

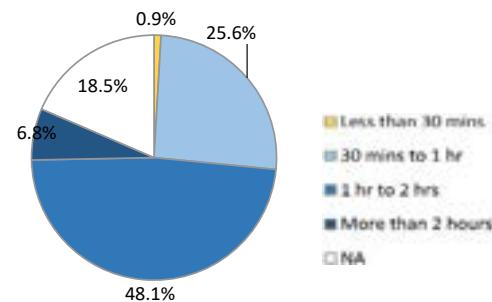
Ward name
34



1. Access to municipal water supply

	% of HHs with individual water tap connection	29%
	% of HHs satisfied with the quality of water supplied	100%

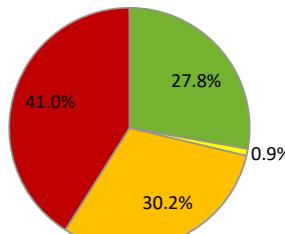
Duration of daily water supply



Number of slums
2

Total number of households in slums
392

2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL **90**

% of functional IHHLs **97%**

Number of PT/CTs near the slum **2**

Total number of persons dependent on PT/CTs **332**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water **8%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **84%**

4. Solid waste management system



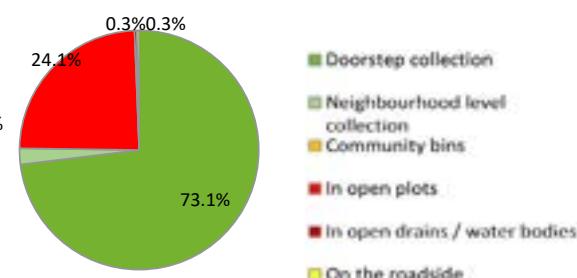
Total waste generation (kg)

403

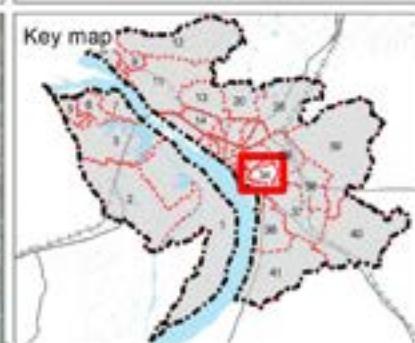
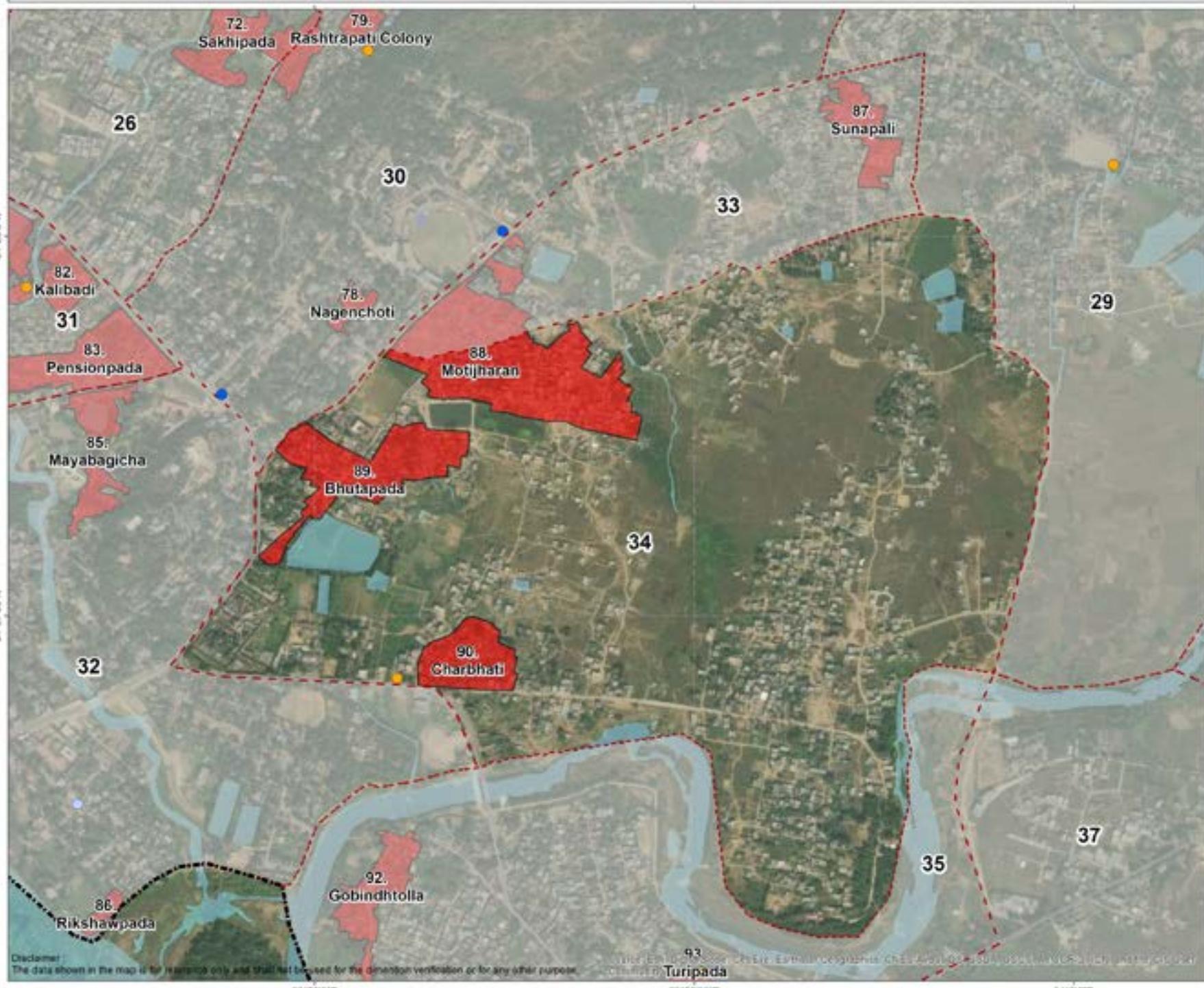
2.2%

% of HHs segregating waste **13%**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet


Base layers

- Functional Community Toilet
- Non-functional Public Toilet
- Functional Public Toilet
- Slum
- National highway
- State highway
- Railway line
- Waterbody
- Ward boundary
- SMC boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
 0 100 200 400 m



89. Bhutapada

Sambalpur

Slum name
BHUTAPADA

Ward
34

Total number of households in the slum
190

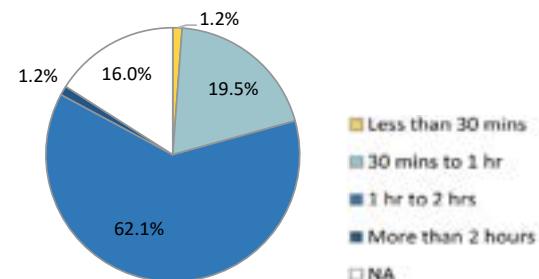
Approximate area of the slum
5.7 ha



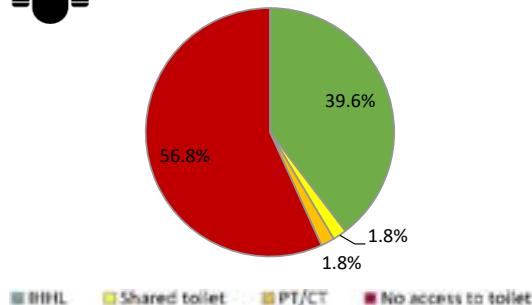
1. Access to municipal water supply

 % of HHs with individual water tap connection	41%
% of HHs satisfied with the quality of water supplied	99%

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **67**

% of functional IHHLs **97%**

Number of PT/CTs near the slum **1**

Total number of persons dependent on PT/CTs **12**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit **82%**

% of HHs connected with safe disposal system for grey water **12%**

4. Solid waste management system



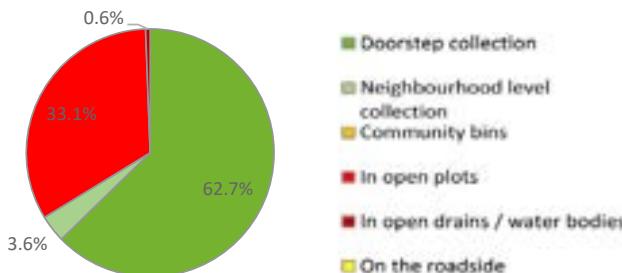
Total waste generation (kg)

227

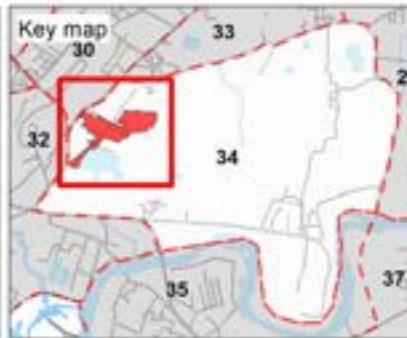
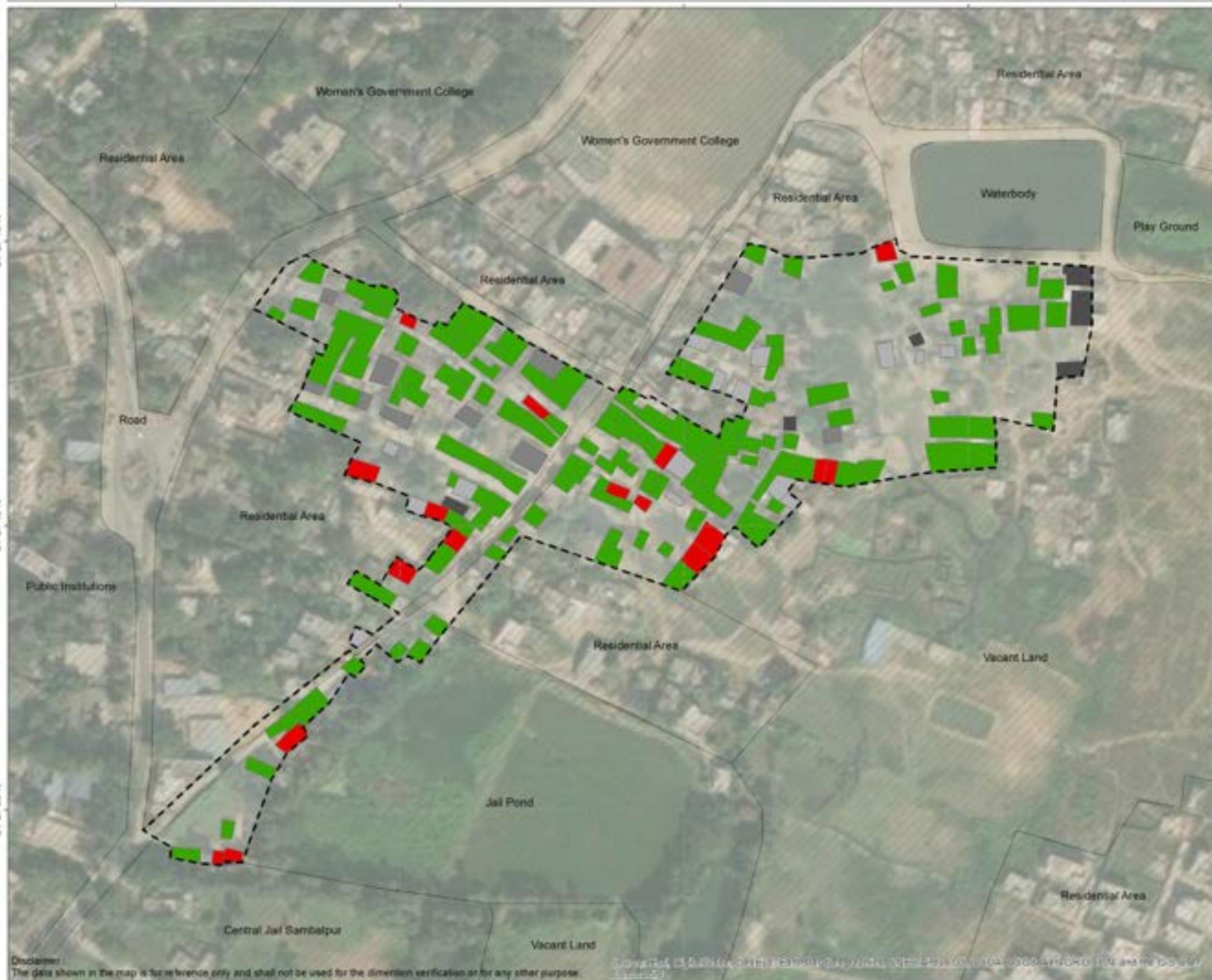
% of HHs segregating waste

22%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet

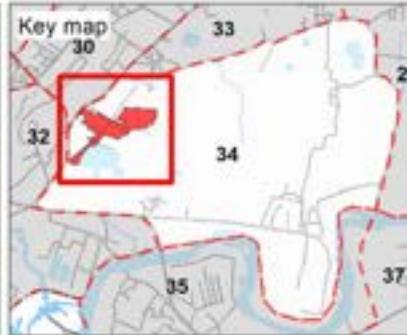
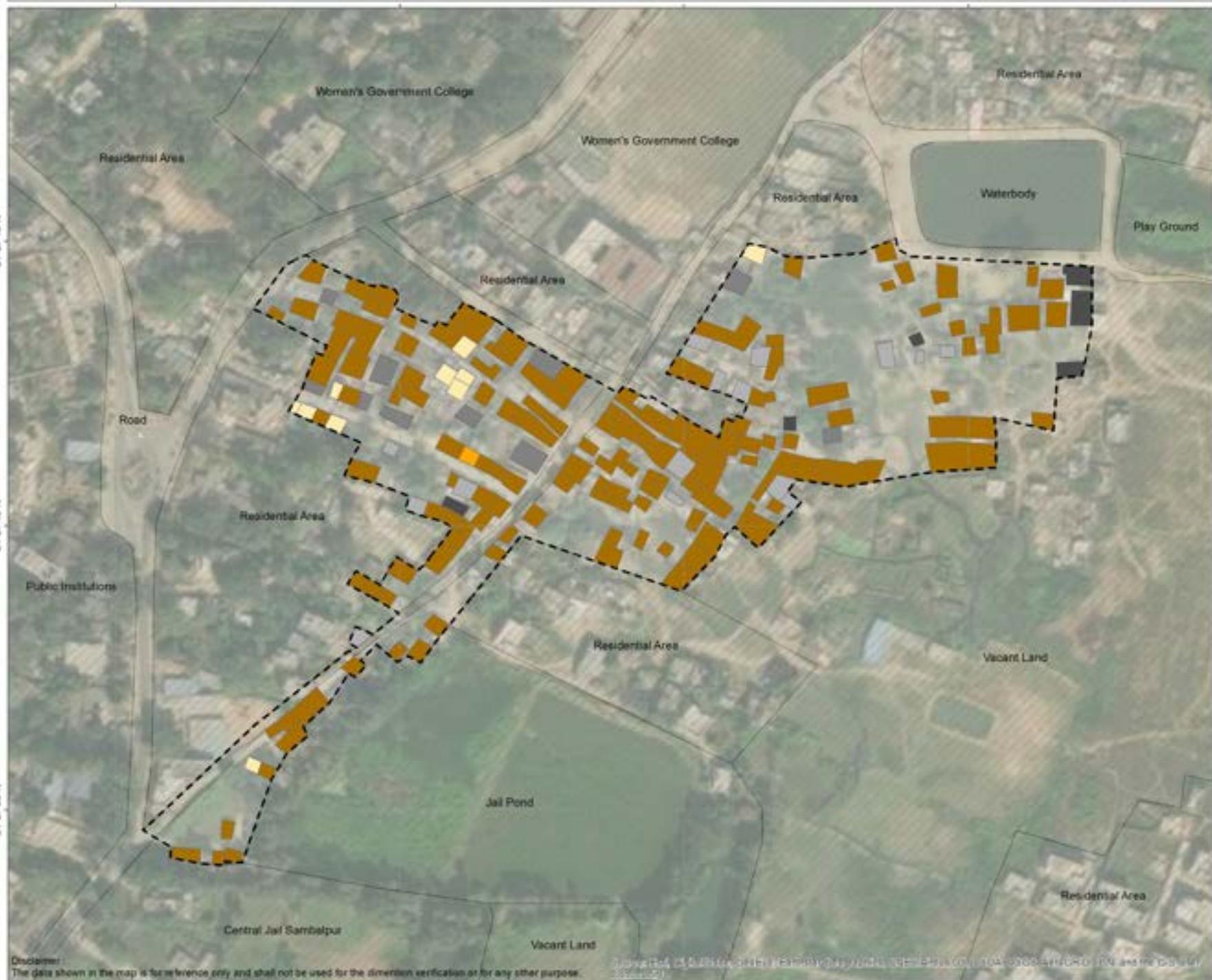

House ownership

- Owned
- Rented
- No response
- Locked house
- Other structures
- Slum boundary

As per the verbal information provided by the respondents.

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
 0 20 40 60 80 100 120 m

Number of floors in the building

- Ground floor
- Ground floor + 1
- Ground floor + 2
- No response
- Locked house
- Other structures
- Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur. Odisha.

Scale :
 0 20 40 60 80 100 120 m

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LOWE-HAUSMANN, GENEVIEVE ESTHER (2019). PRIMARY HOUSEHOLD SURVEY OF SLUMS IN SAMBALPUR, ODISHA. UMC.

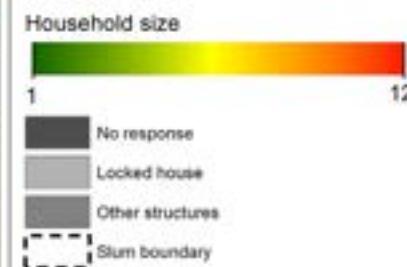
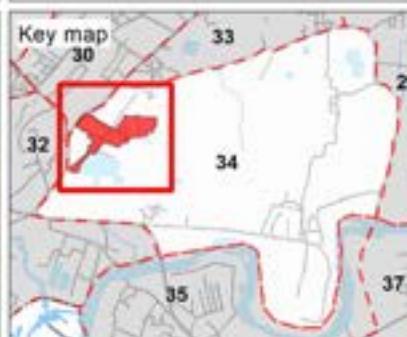
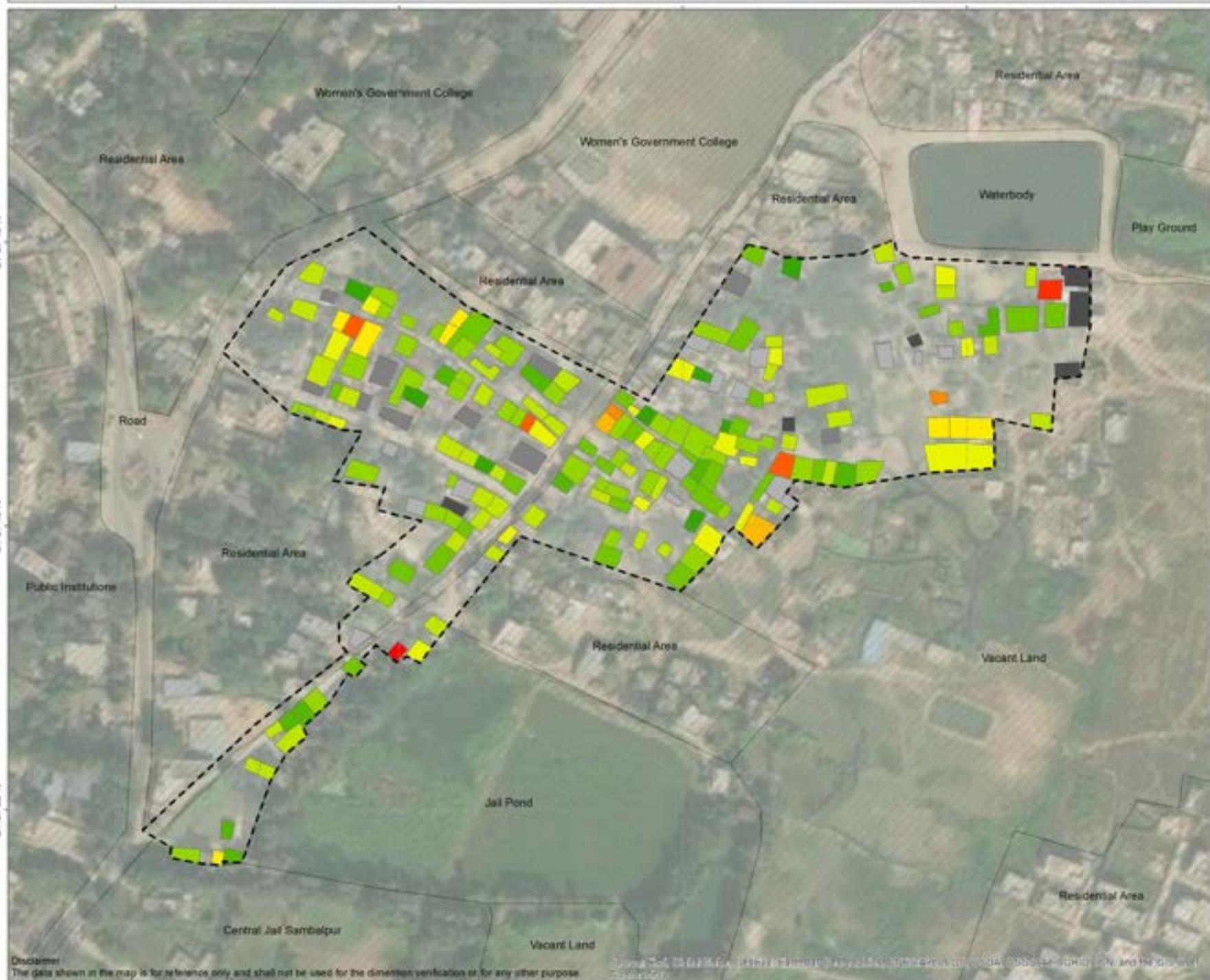
83°58'55"E

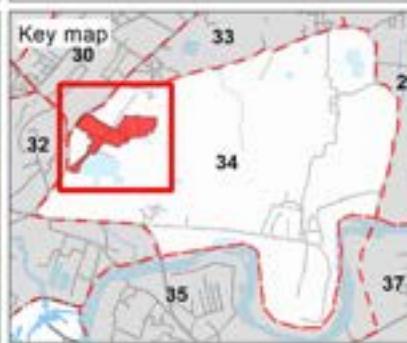
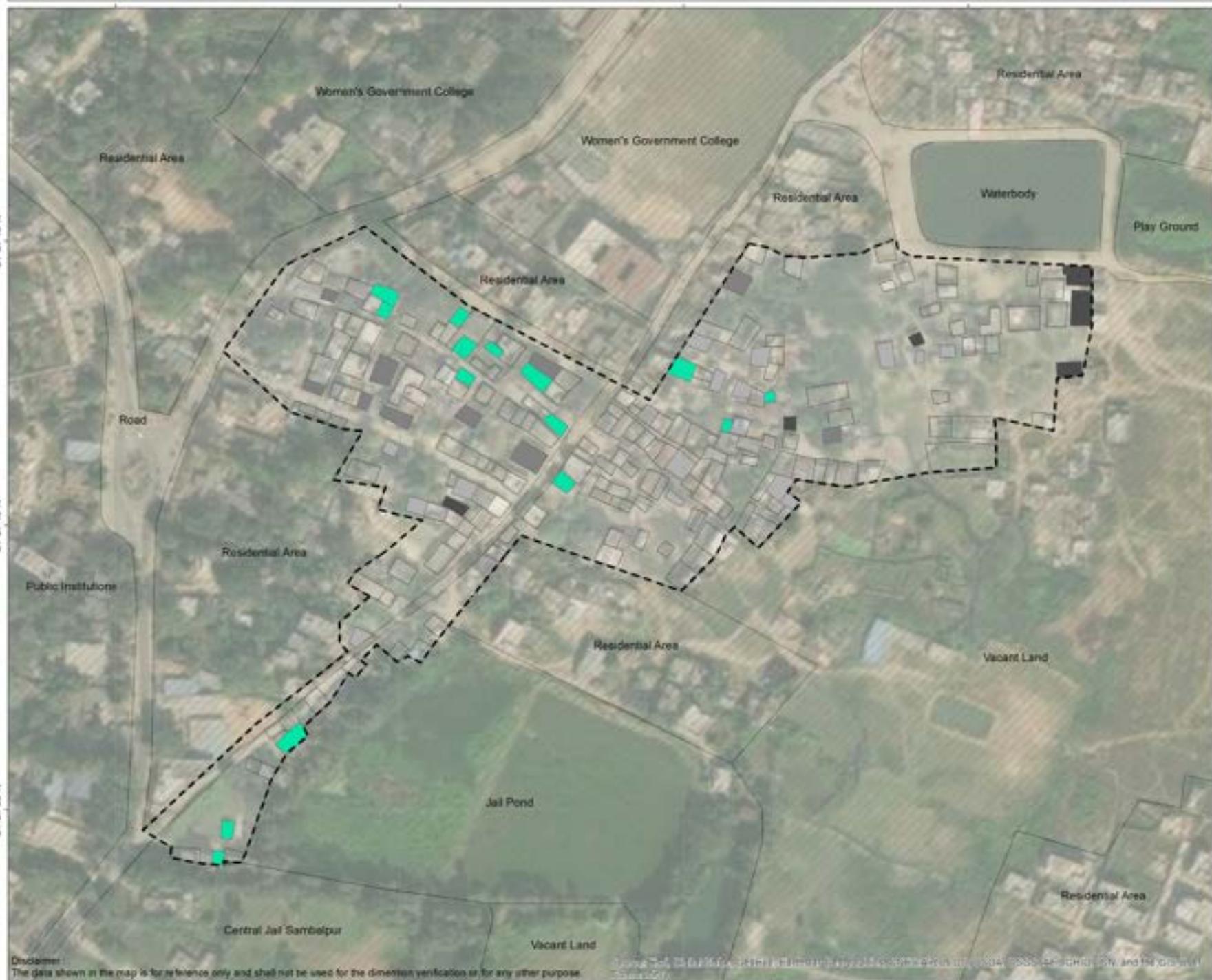
83°59'0"E

83°59'55"E

83°59'10"E






Elderly citizen

- HH have elderly citizen
- No response
- Locked house
- Other structures
- Slum boundary

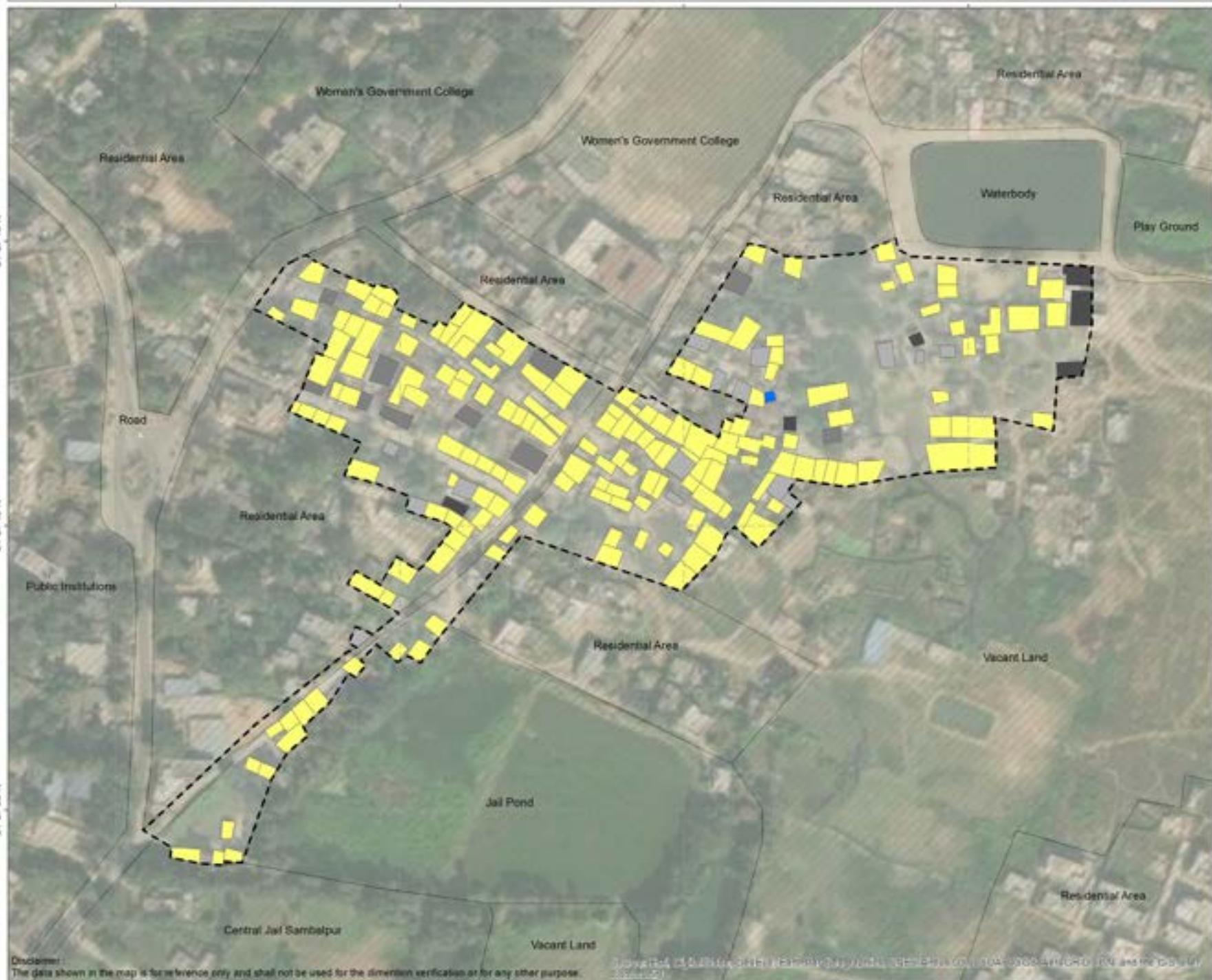
Source :

Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :




Bhutapada (Ward No. 34)





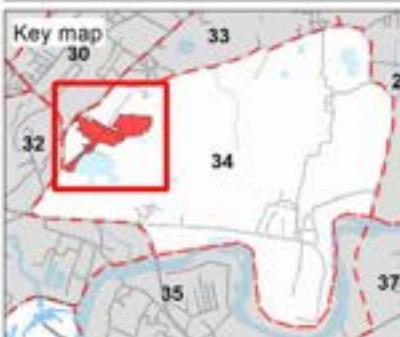
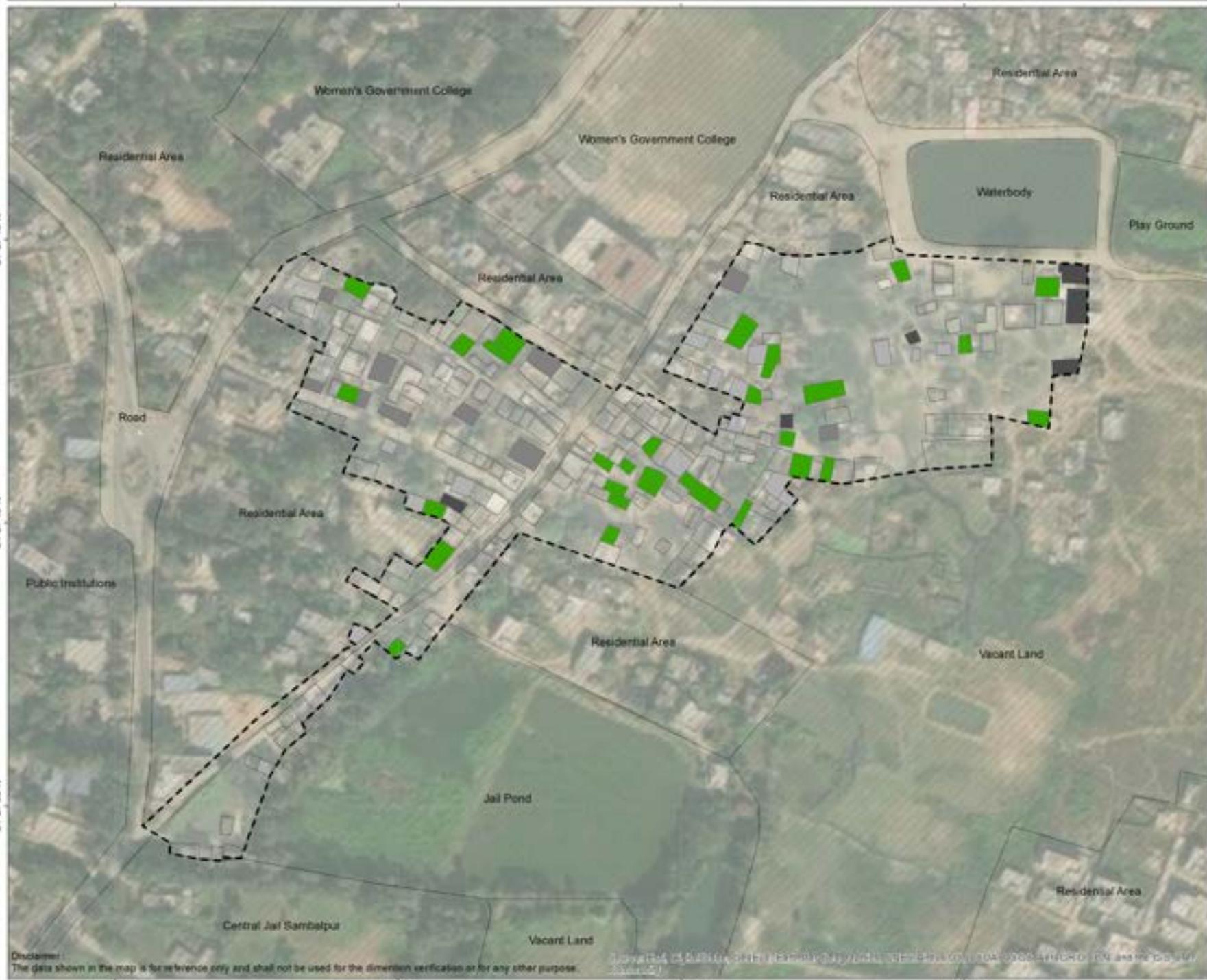
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URBAN MANAGEMENT CENTER

Sambalpur

Bhutapada (Ward No. 34)



Household part of SHG

- Yes
- No response
- Locked house
- Other structures
- Slum boundary

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :

0 20 40 60

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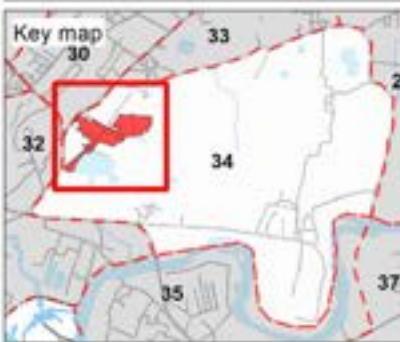
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[View Details](#)



Sambalpur

Bhutapada (Ward No. 34)



Source of water in household

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:

0 20 40 60

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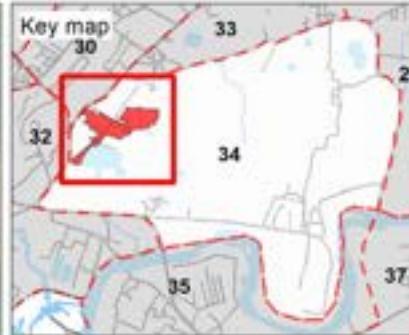
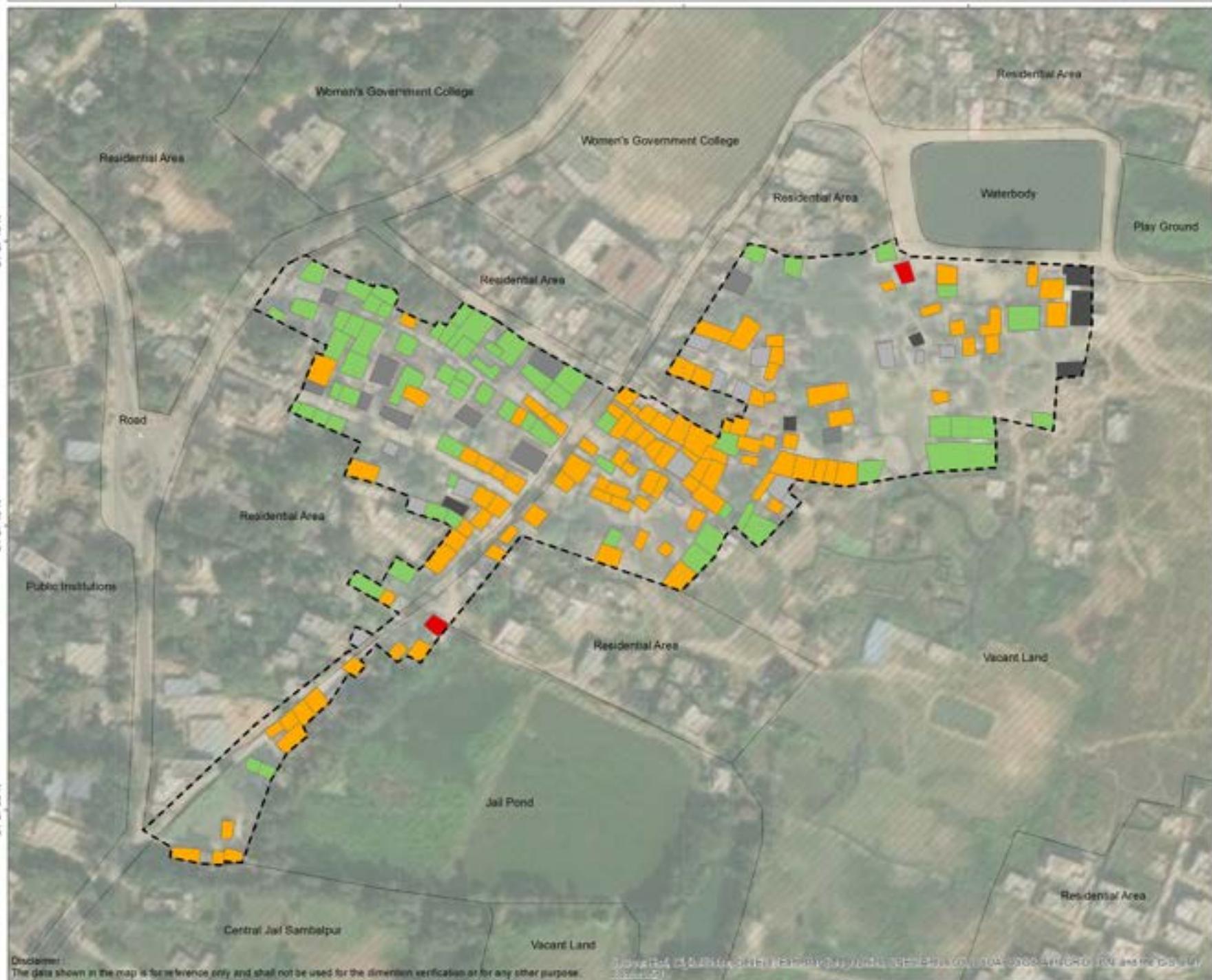
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Bhutapada (Ward No. 34)



Functionality of IHHL

- [Green square] Yes
- [Red square] No
- [Orange square] No IHHL
- [Dark grey square] No response
- [Light grey square] Locked house
- [Dark grey square] Other structures
- [Dashed line] Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur. Odisha.

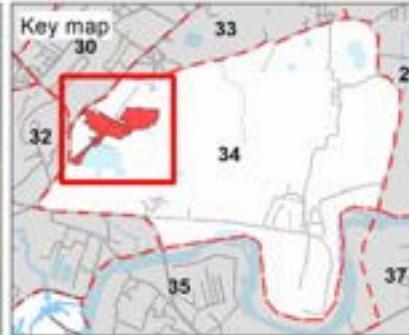
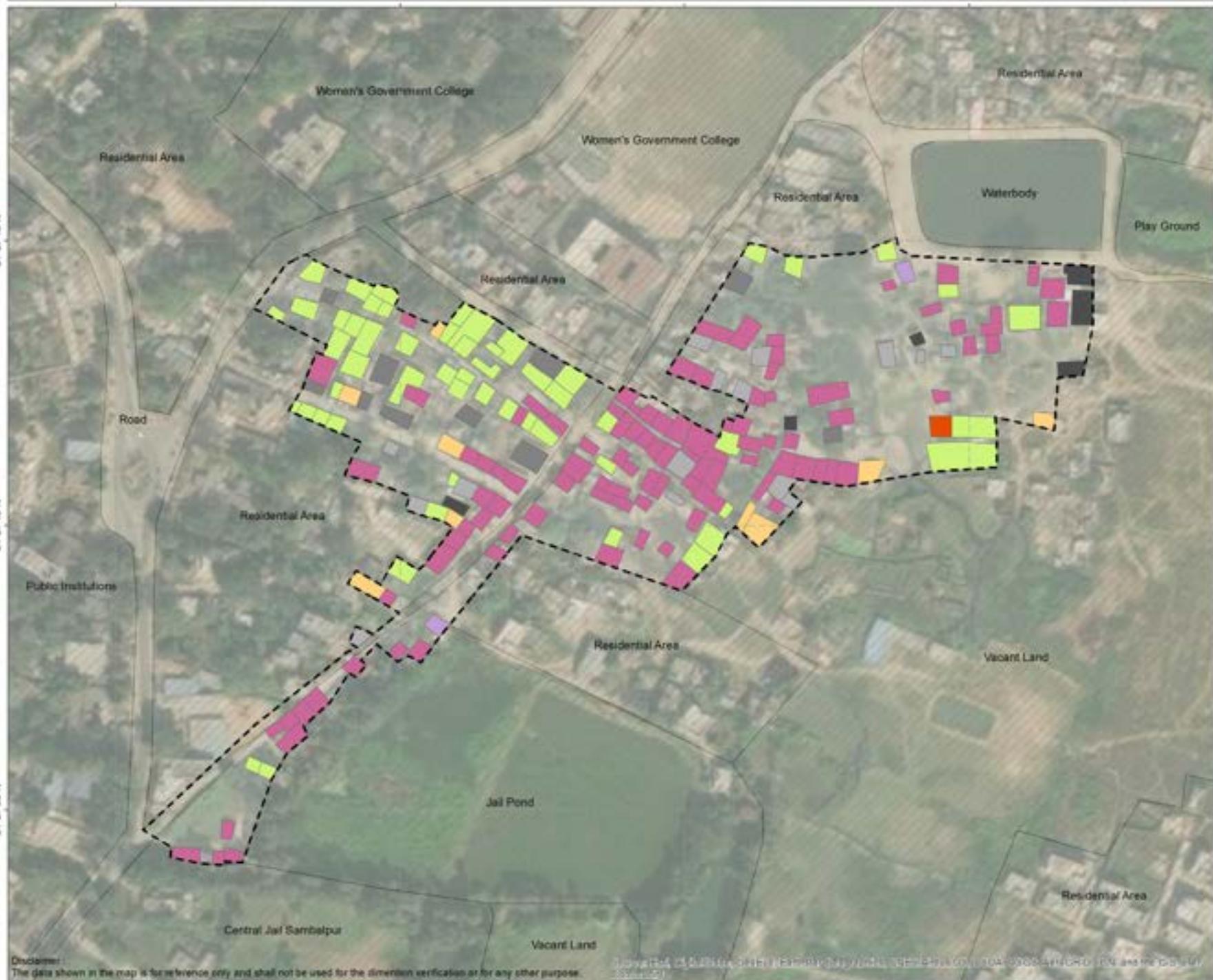
Scale :
0 20 40 60 80 100 120 m

Disclaimer :
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LOWE-HAUSMANN, GENEVIEVE ESTHER (2019). PRIMARY HOUSEHOLD SURVEY OF SLUMS IN SAMBALPUR, ODISHA. UMC.



Bhutapada (Ward No. 34)



IHHL connected to :

- Soak pit
- Open drain
- No connection for disposal
- Non-Functional IHHL
- No IHHL
- No response
- Locked house
- Other structures
- Slum boundary

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
0 20 40 60 80 100 120 m
N

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83°58'15"E

83°59'0"E

83°59'5"E

83°59'10"E



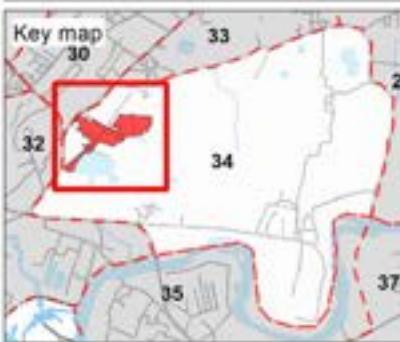
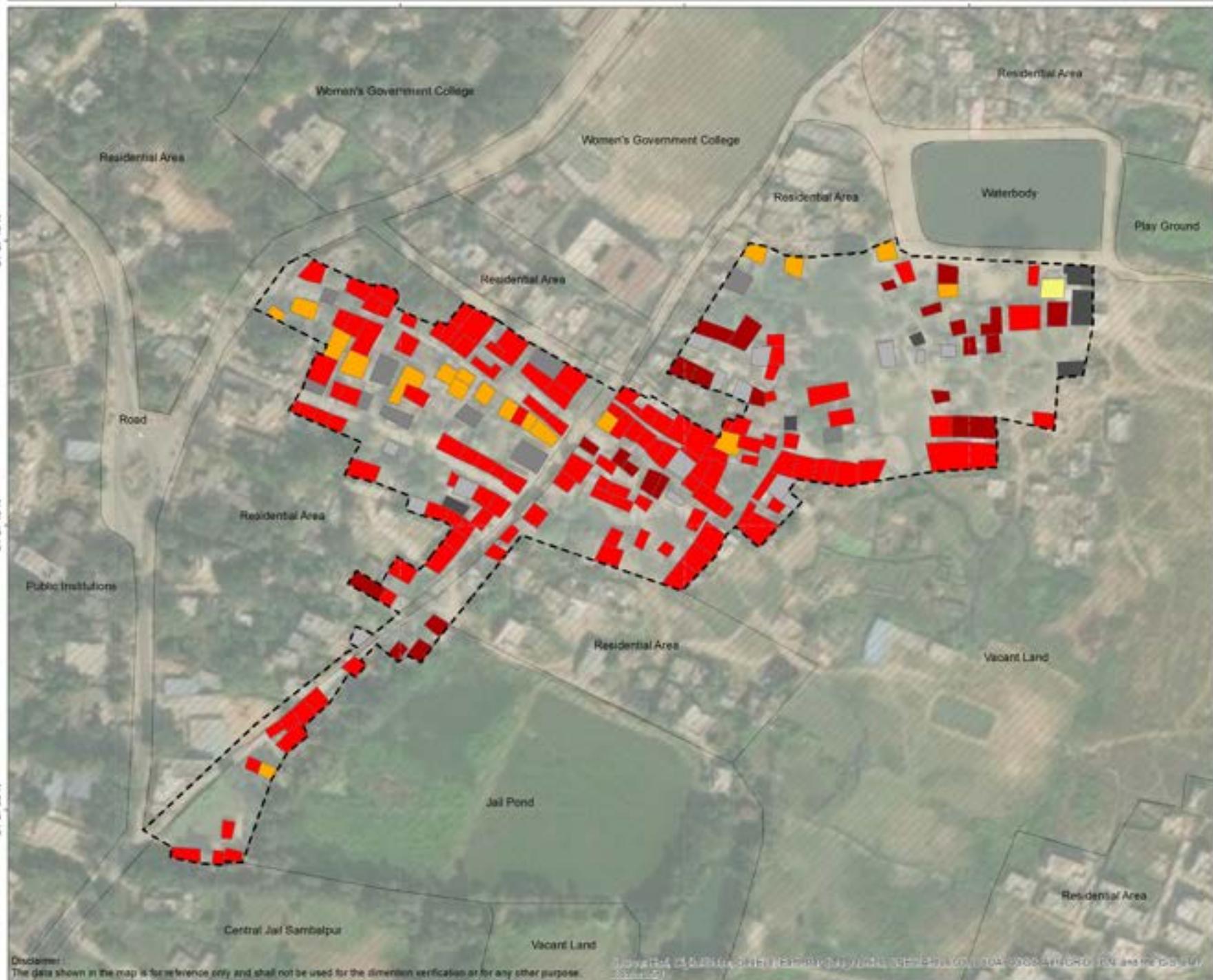
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UMC
UMAN MUSICAL CULTURE CENTER

Sambalpur

Bhutapada (Ward No. 34)



Grey water disposed to:

- The legend consists of six color-coded squares and one dashed line entry:

 - Single pit (Orange)
 - Small pit (kundi) outside the house (Yellow)
 - Open drain (Red)
 - Water is let out on the street (Dark Red)
 - No response (Grey)
 - Locked house (Light Grey)
 - Other structures (Medium Grey)
 - Slum boundary (Dashed black line)

Source:

Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:

0 20 40 60



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



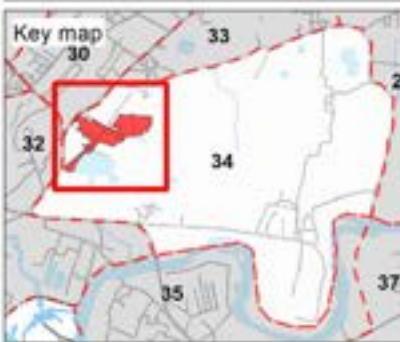
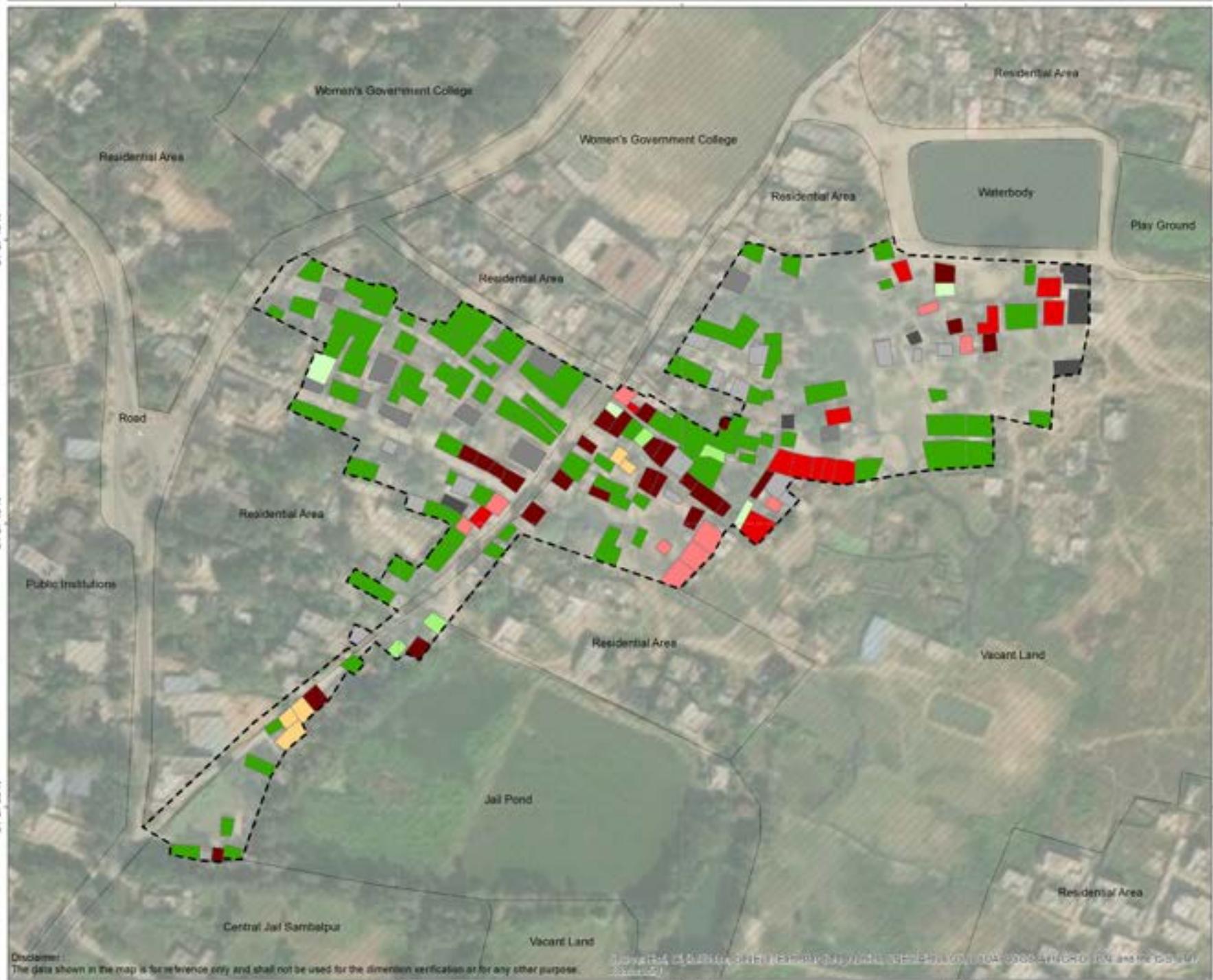
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
UNIVERSITY MANAGEMENT CENTRE

Sambalpur

Bhutapada (Ward No. 34)



Household disposing solid waste to:

- A vertical legend consisting of ten colored squares, each paired with a text label describing a waste collection location:

 - D to D service
 - Handover to municipal waste collector
 - Handover to municipal waste collector & In open plot
 - Nearby community bin, In open plot & On road side
 - In open plot & On road side
 - In open plot, On road side & In open drains/waterbody
 - In open plot
 - No response
 - Locked house
 - Other structures
 - Slum boundary

Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :  m

90. Charbhati

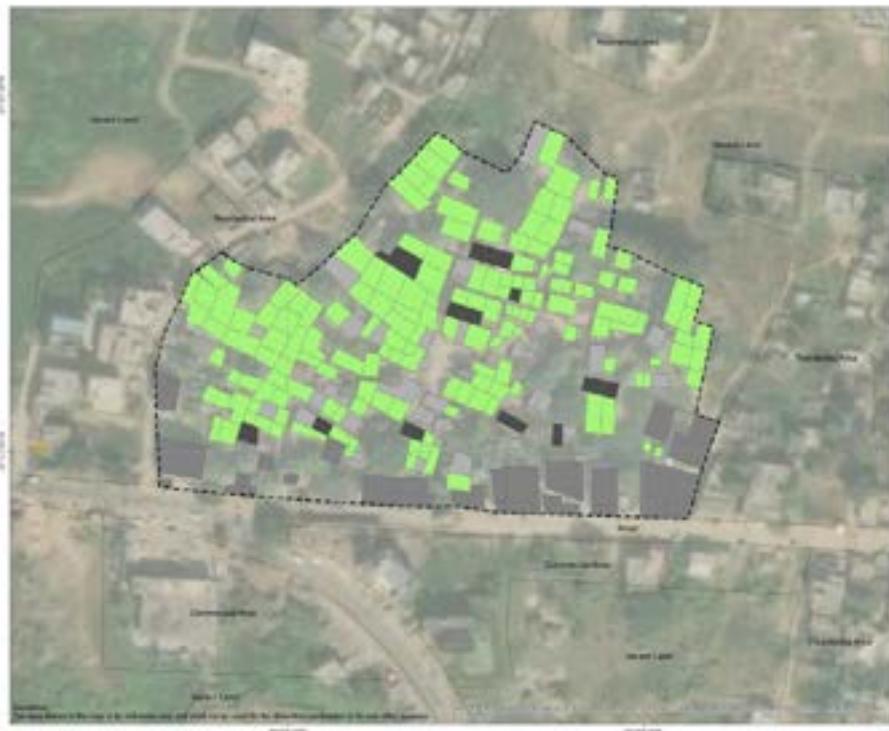
Sambalpur

Slum name
CHARBHATI

Ward
34

Total number of households in the slum
202

Approximate area of the slum
3.0 ha

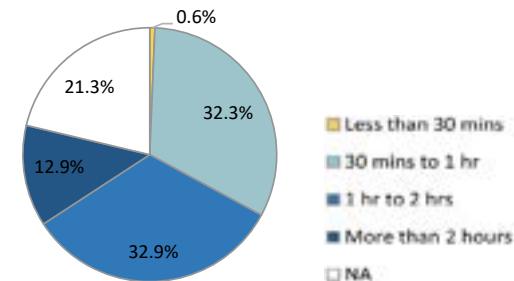


1. Access to municipal water supply

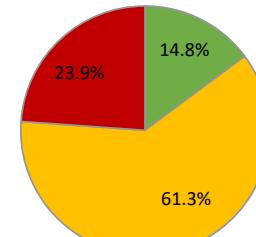
% of HHs with individual water tap connection
 17%

% of HHs satisfied with the quality of water supplied
100%

Duration of daily water supply



2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of IHHLs connected to septic tank/ soak pit/ twin pit

Number of HHs having IHHL
23

% of functional IHHLs
96%

Number of PT/CTs near the slum
1

Total number of persons dependent on PT/CTs
320

4. Solid waste management system



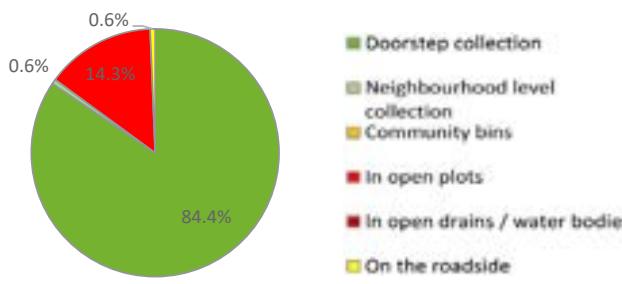
Total waste generation (kg)

176

% of HHs segregating waste

2%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



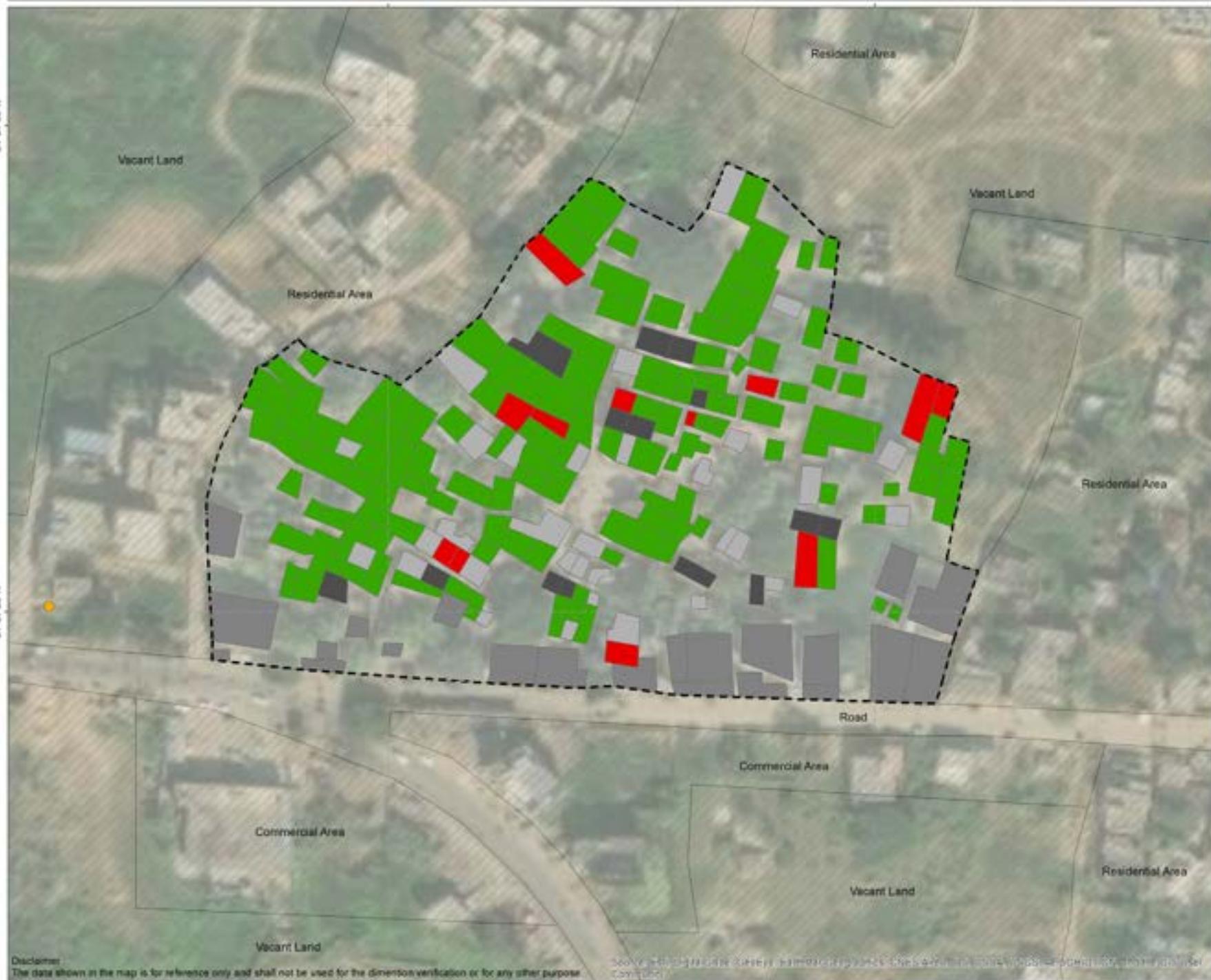
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
UMAN MUSICALISMO CONTEMPORANEO

Sambalpur

Charbati (Ward No. 34)



As per the verbal information provided by the respondents

Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 10 20 40 60
 m



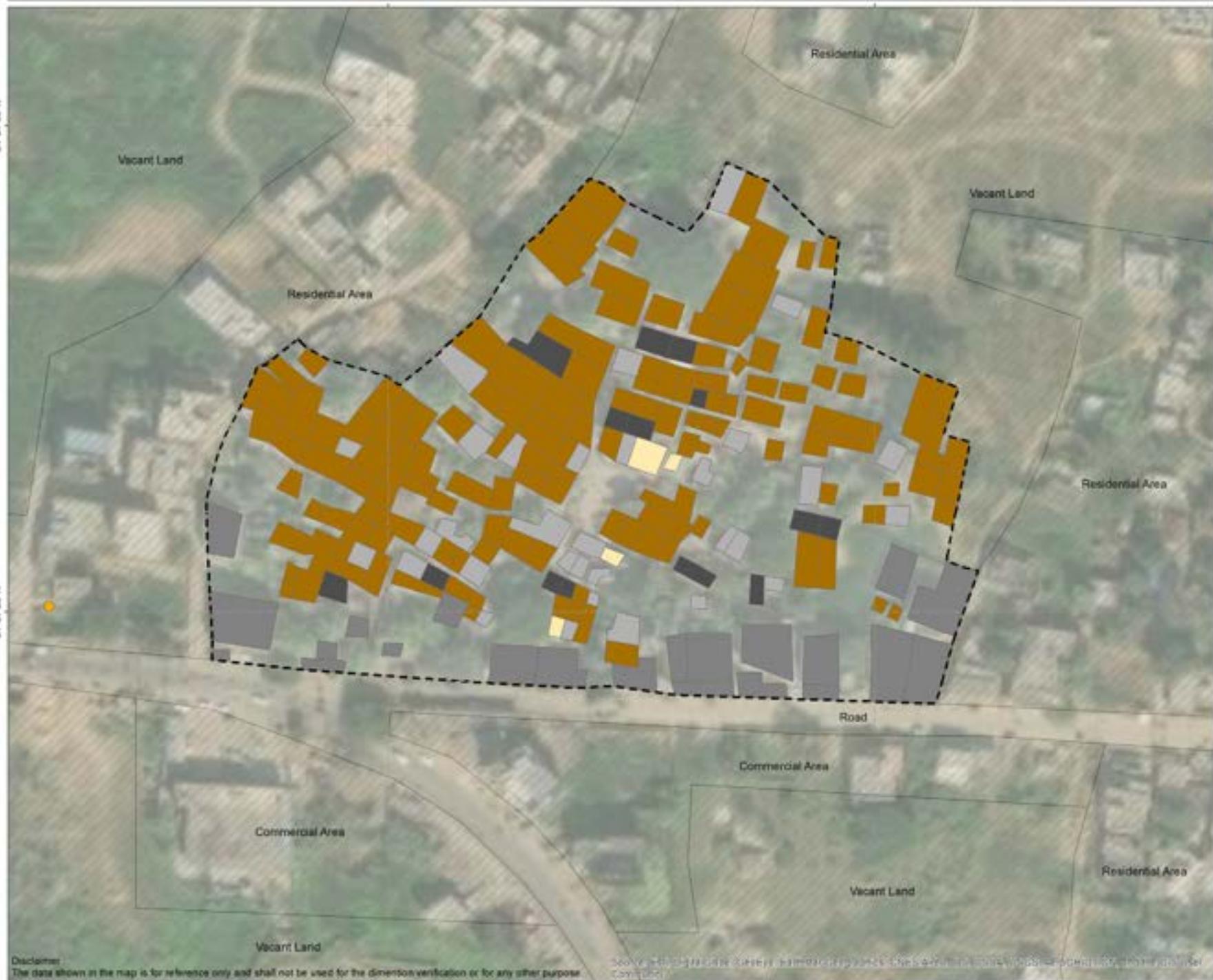
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
UMAN MUSICAL CULTURE CENTER

Sambalpur

Charbhati (Ward No. 34)



Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 10 20 40 60
 m



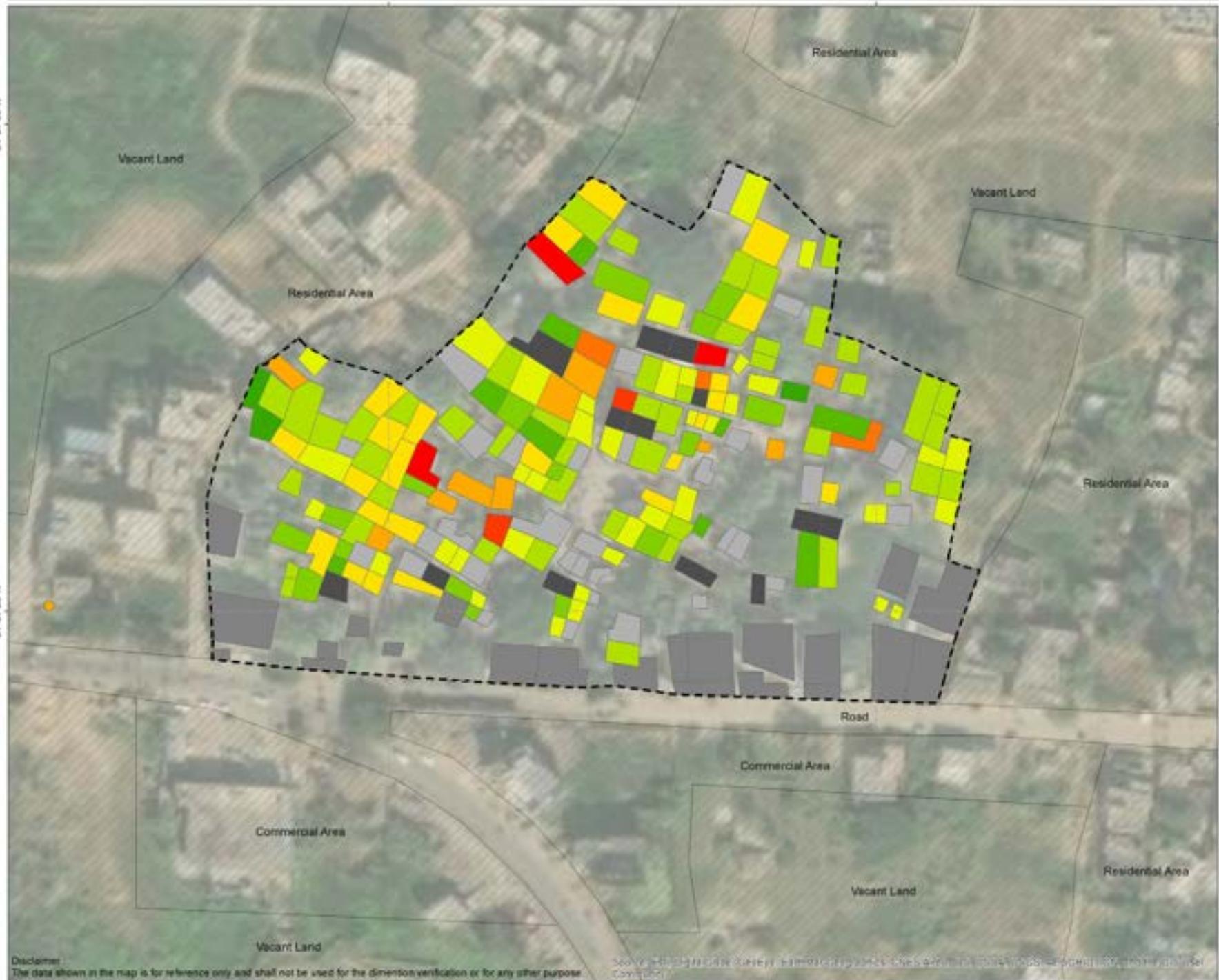
M I S A A L
MOVING INDIA TOWARDS SANITATION FOR ALL



UMC
Urban Management Center

Sambalpur

Charbati (Ward No. 34)

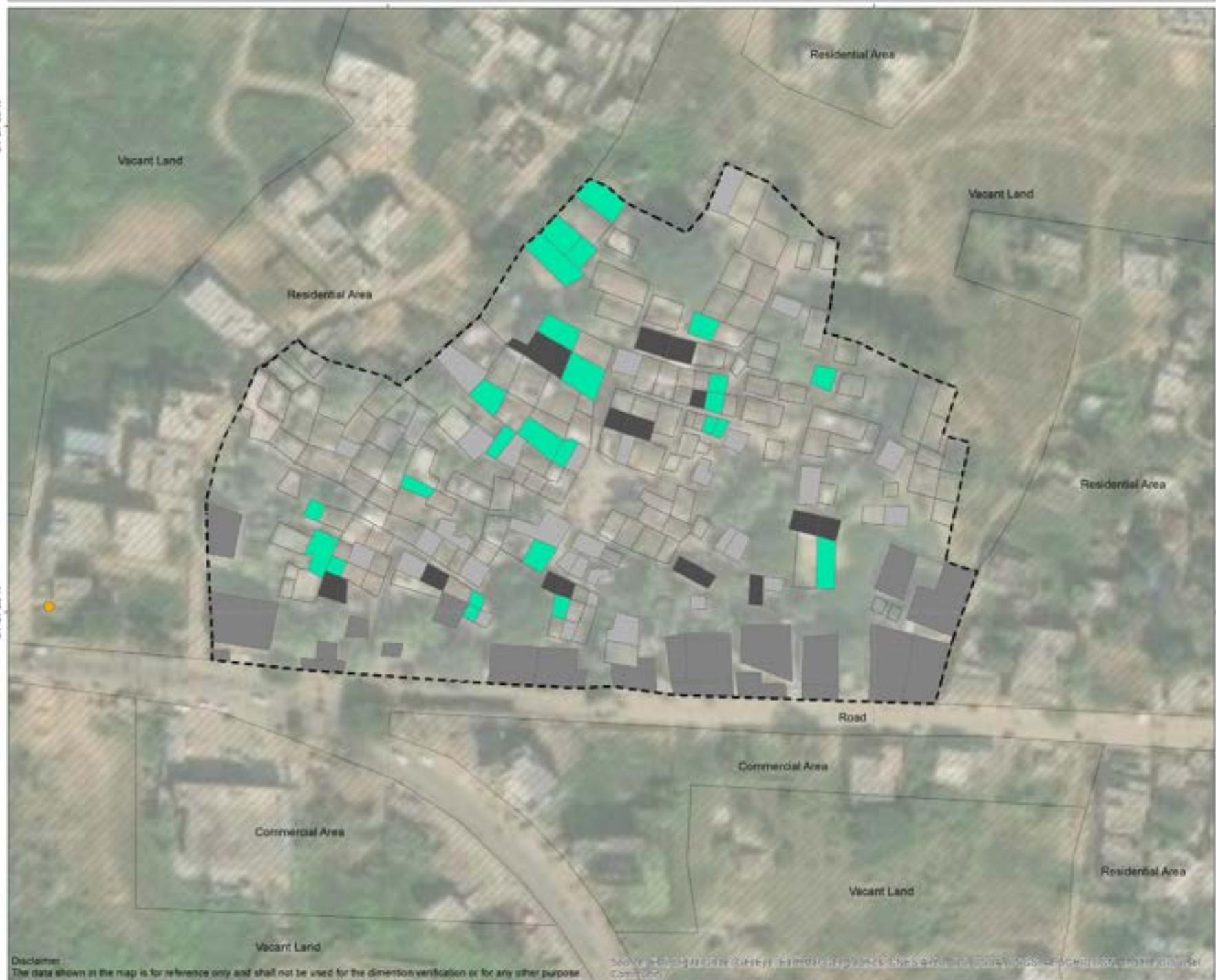


Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 10 20 40 60
 m



Charbhati (Ward No. 34)



Elderly citizen

- HH have elderly citizen
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :

Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 10 20 40 60
m

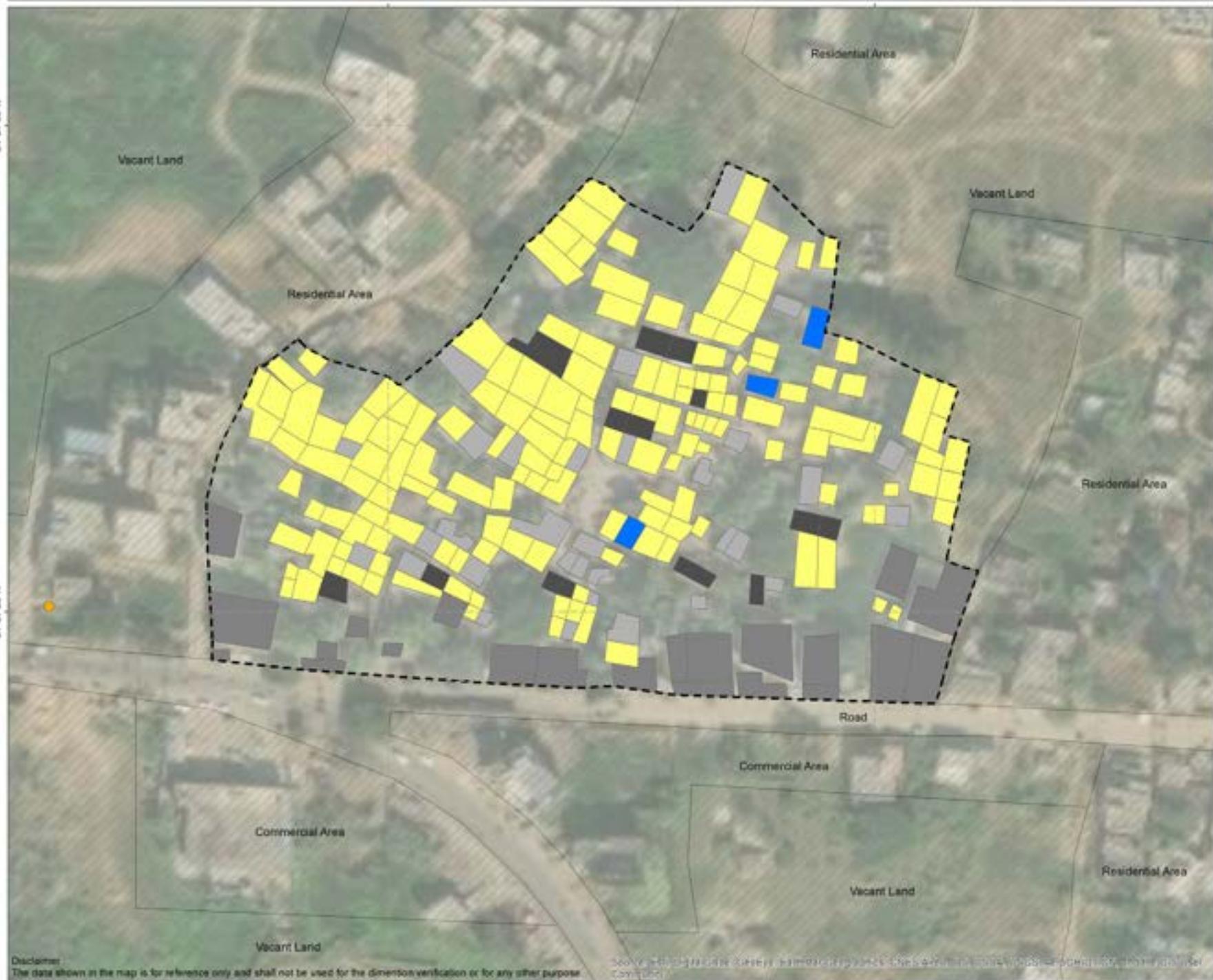
Disclaimer :

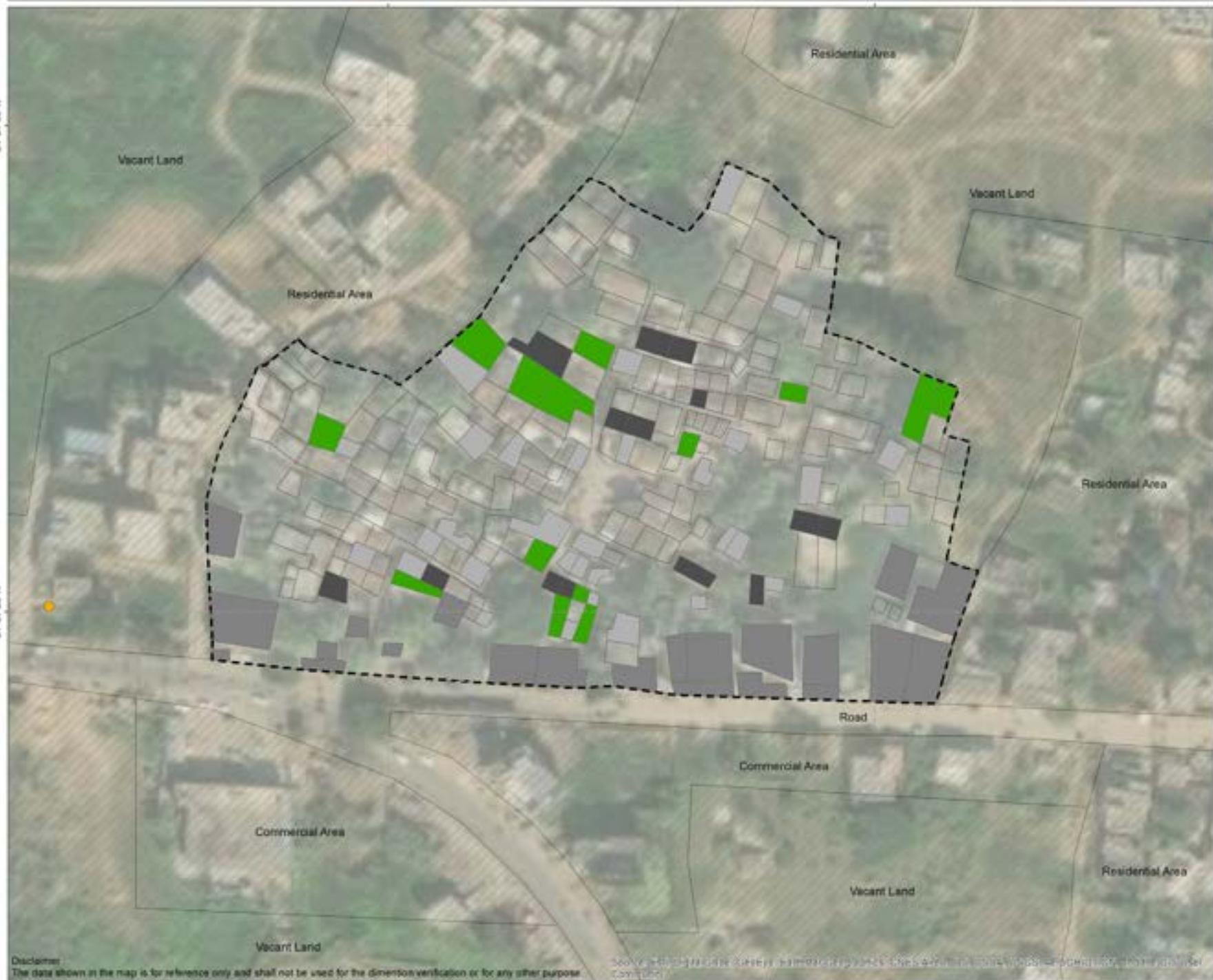
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.





Charbhati (Ward No. 34)




Household part of SHG

- Yes
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

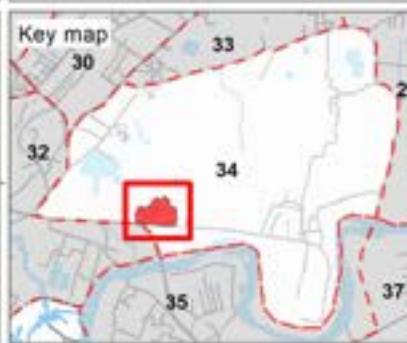
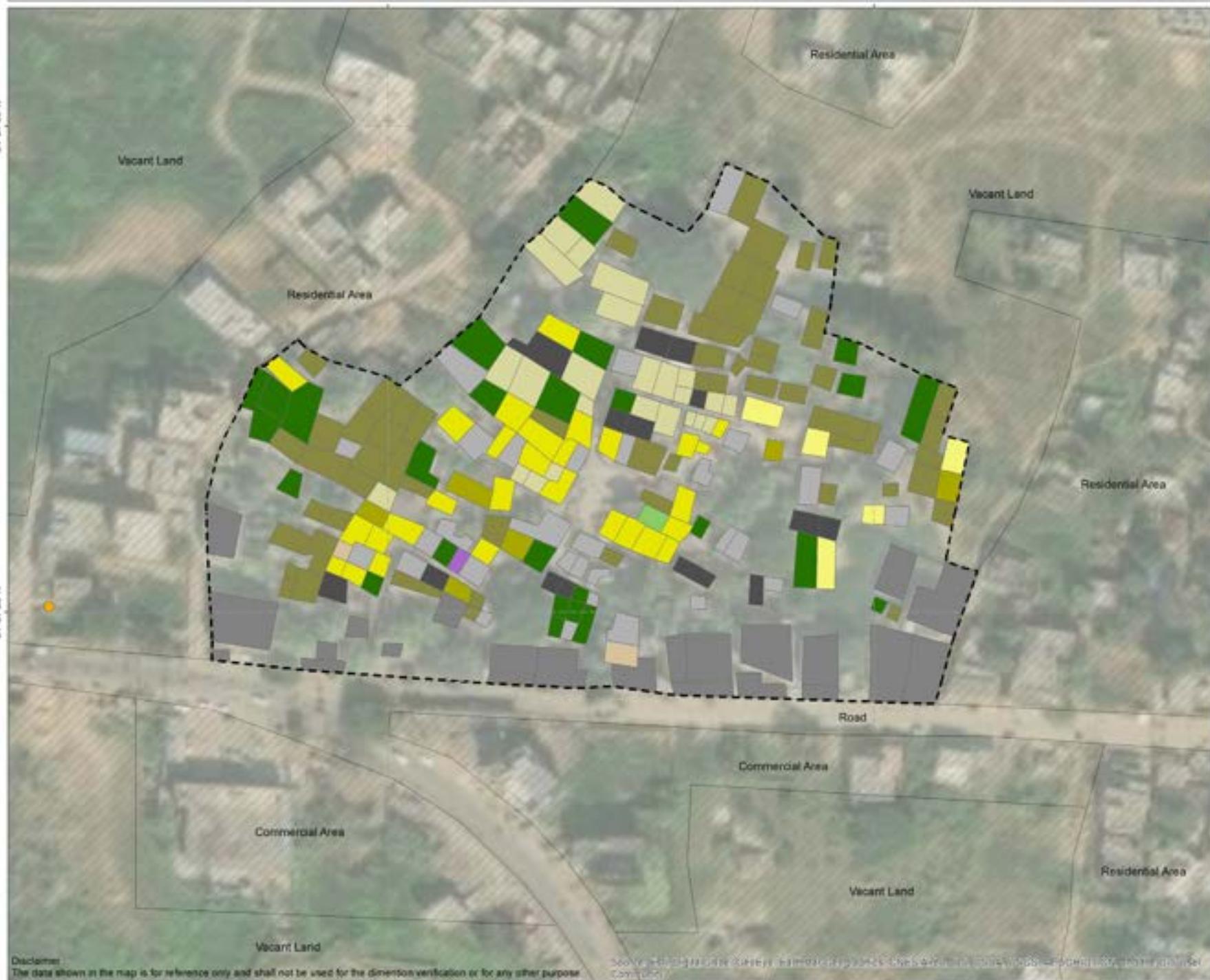
Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :



Disclaimer :
 The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.




Source of water in household

- Tap connection at home
- Tap connection at home & Private water tanker
- Stand post
- Stand post & Hand pump
- Stand post, Hand pump & Fetching water from neighbourhood
- Stand post & Fetching water from neighbourhood
- Private water tanker
- Hand pump
- Fetching water from neighbourhood
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

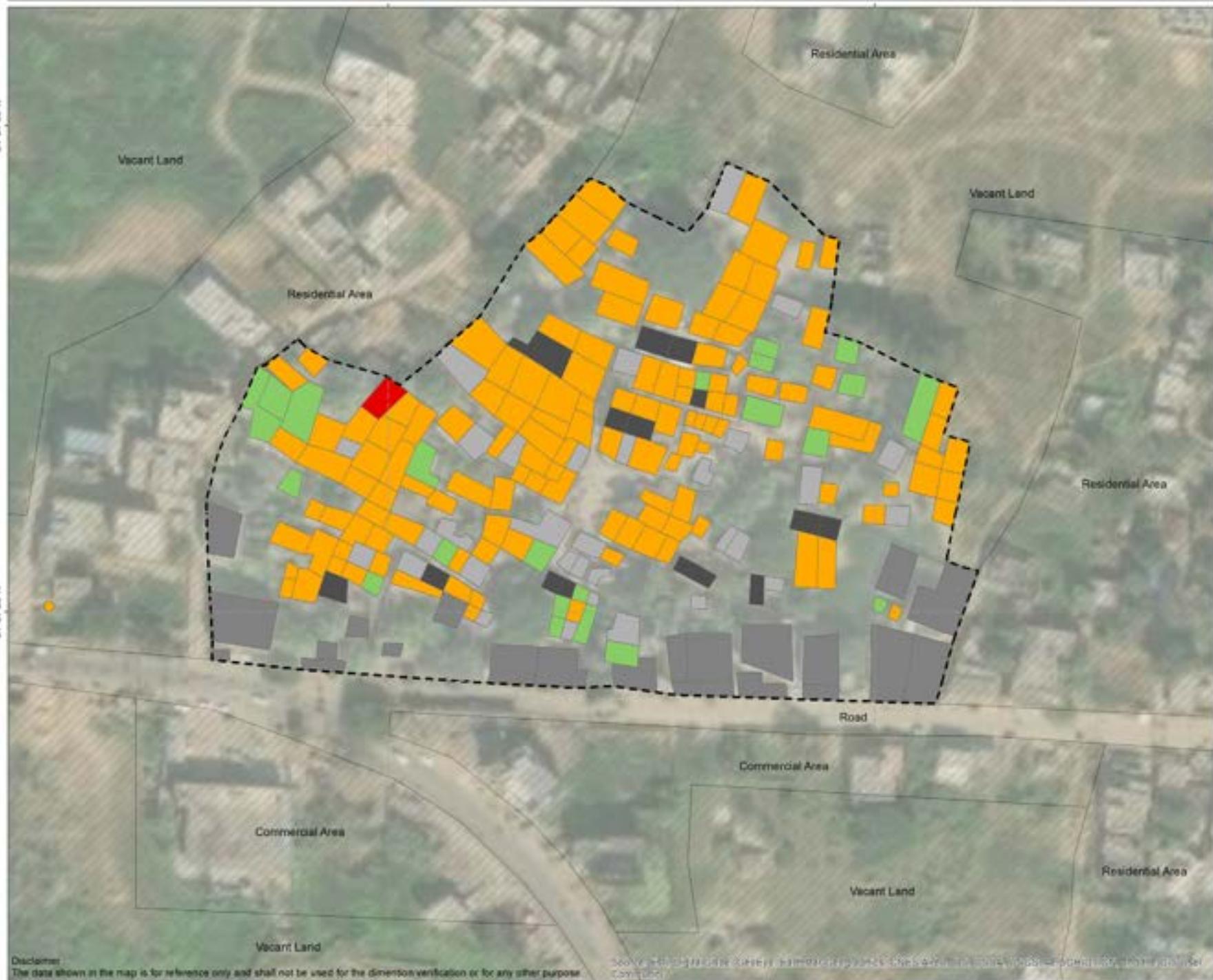
Scale :

0 10 20 40 60 m

N



Charbhati (Ward No. 34)



Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60
m

Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source : ORDNANCE SURVEY / ESTATE SURVEY / HAMPSHIRE SURVEY / 47TH PARADE SURVEY / CHART SURVEY
Company : Survey of India





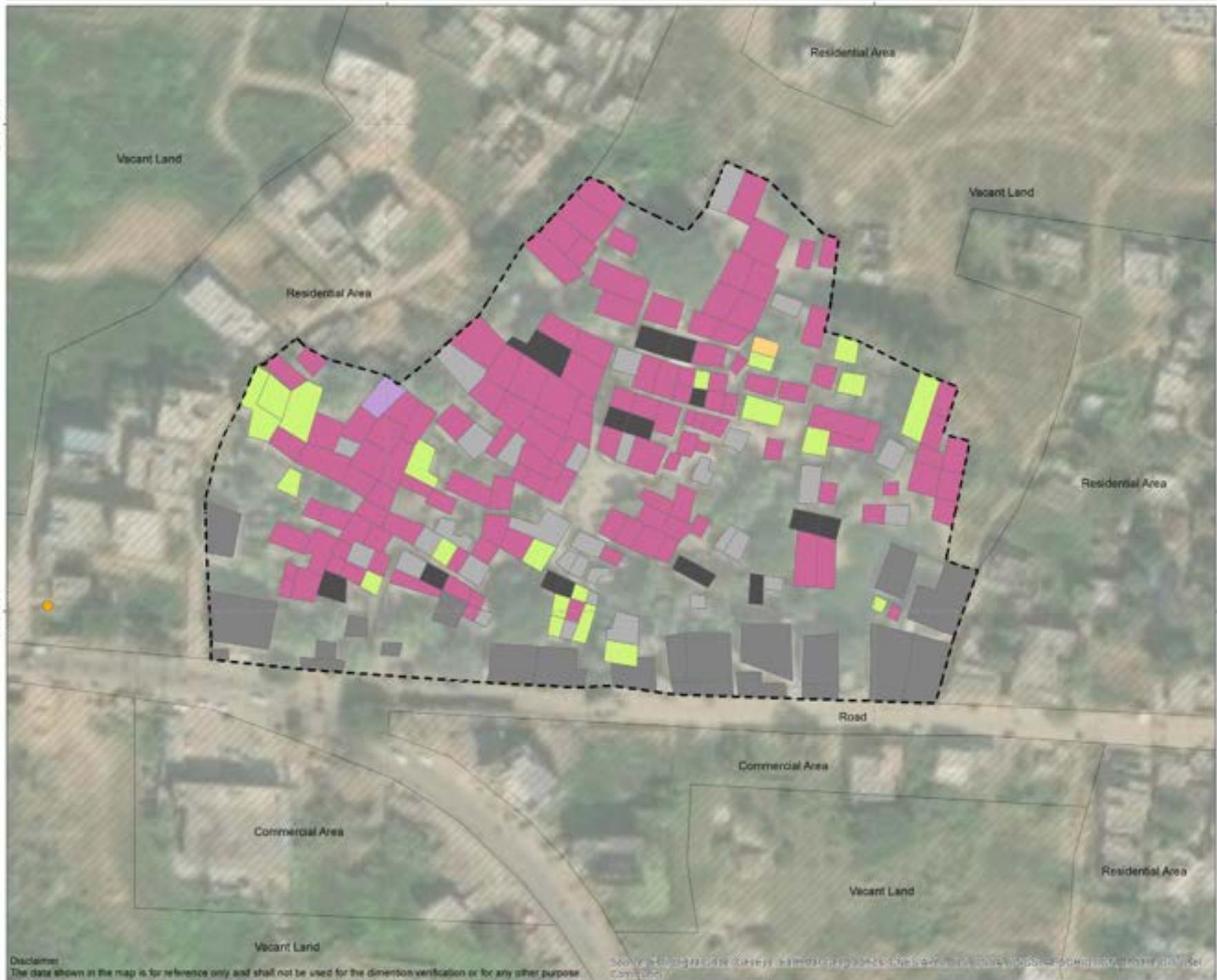
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Sambalpur

Charbhati (Ward No. 34)

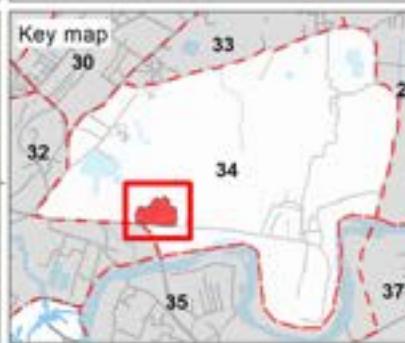
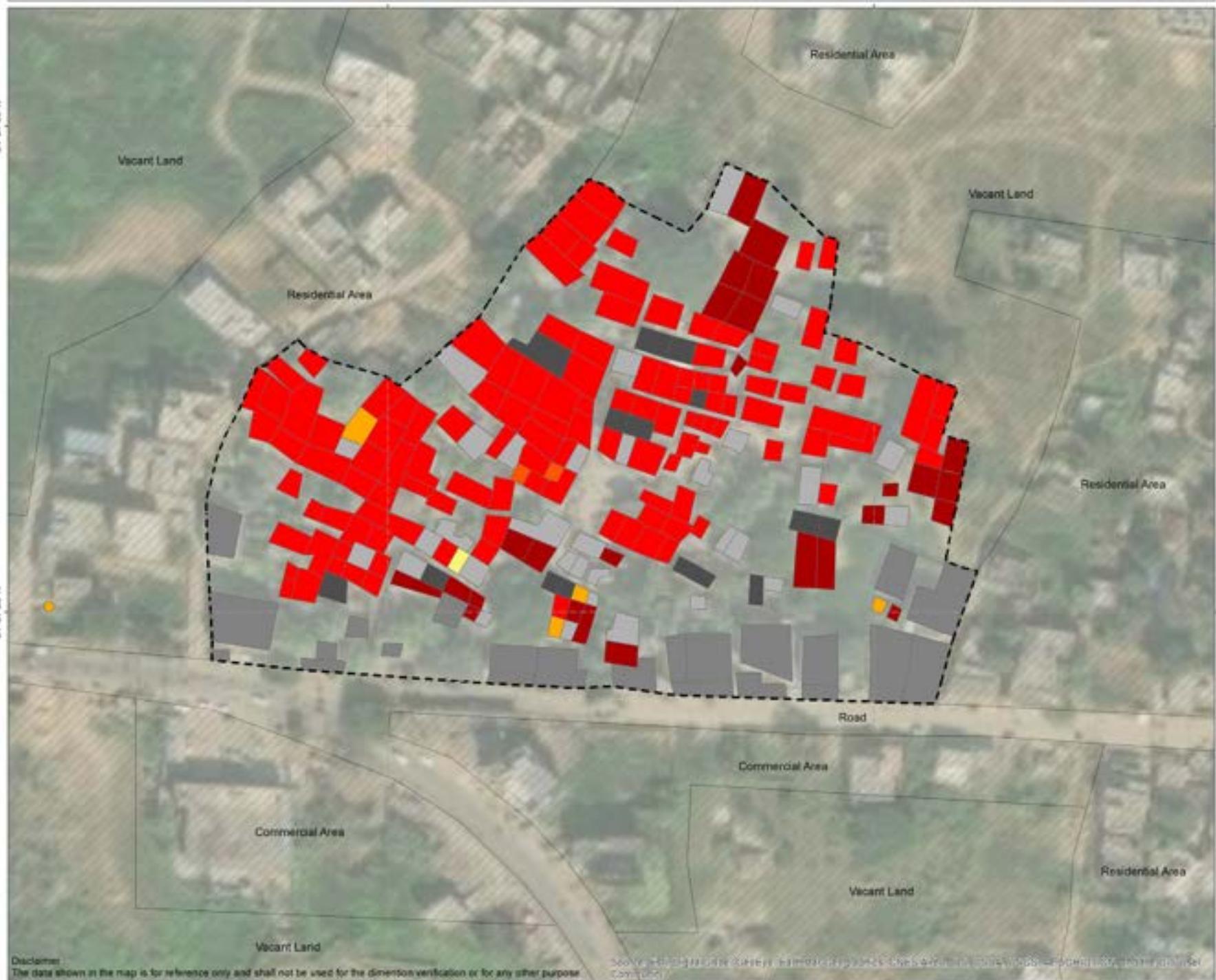


Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
0 10 20 40 60
 m



Charbhati (Ward No. 34)



Grey water disposed to :

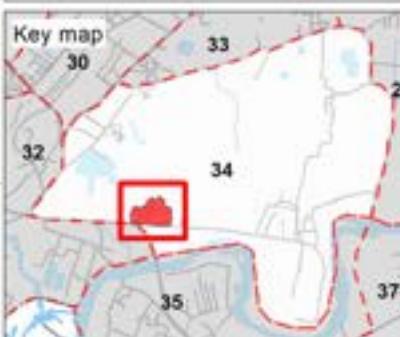
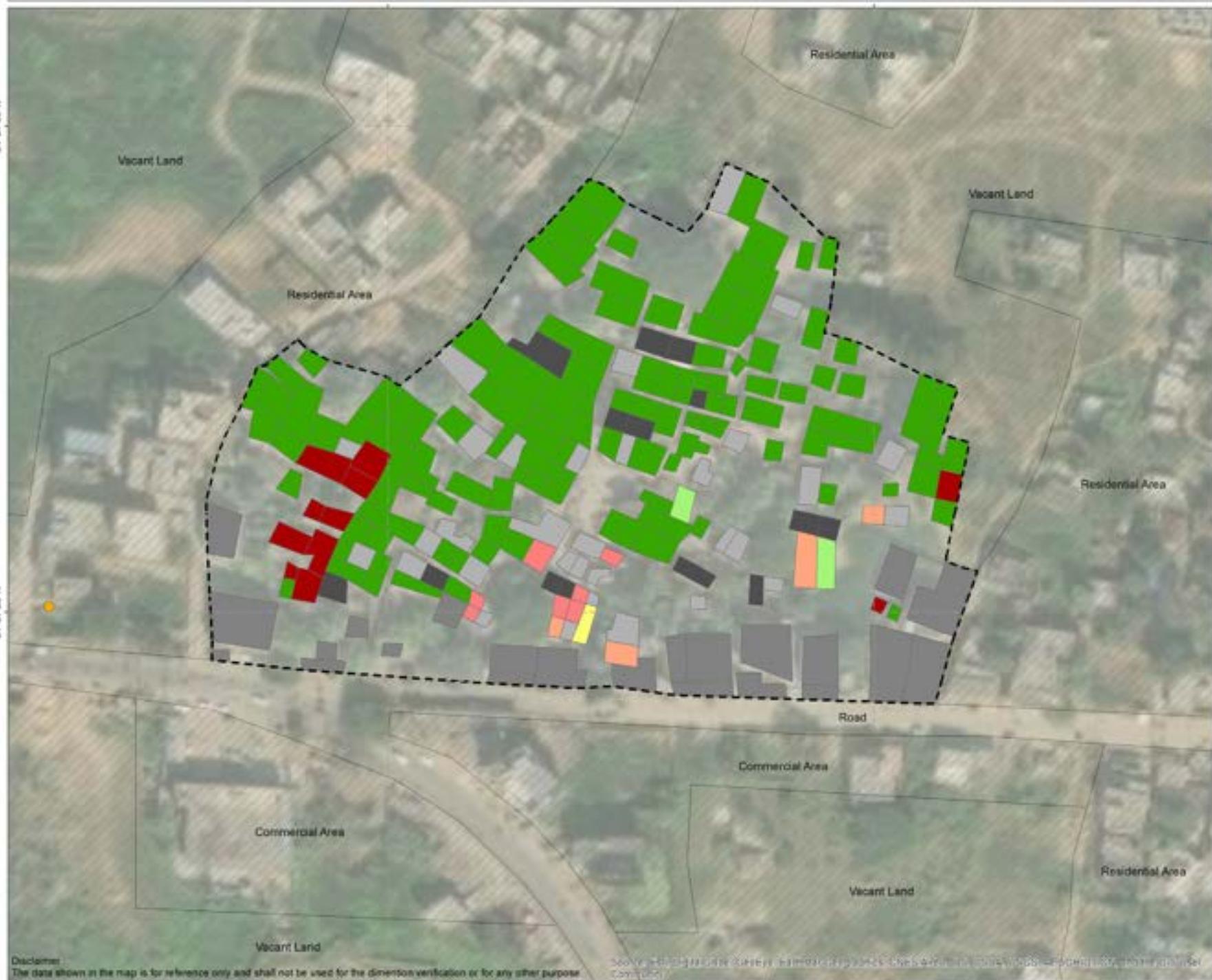
- Yellow: Single pit
- Light Yellow: Small pit (kundi) outside the house
- Red: Open drain
- Orange: Open plot
- Dark Red: Water is let out on the street
- Grey: No response
- Light Grey: Locked house
- Dark Grey: Other structures
- Yellow dot: Functional Community Toilet
- Dashed line: Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60
m

Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.





Ward - 35

Sambalpur

Ward name
35

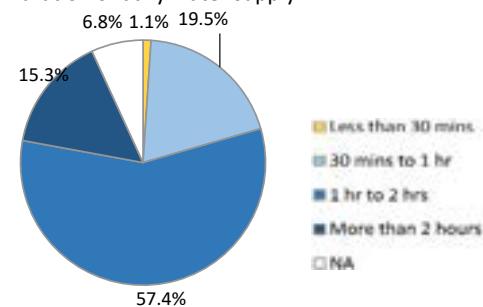


1. Access to municipal water supply

% of HHs with individual water tap connection **33%**

% of HHs satisfied with the quality of water supplied **89%**

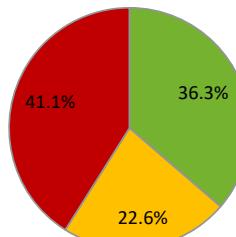
Duration of daily water supply



Number of slums
3

Total number of households in slums
201

2. Access to toilets



IHHL - Individual Household Latrine; Shared toilet - Shared toilet; PT/CT - Public /Community Toilet

Number of HHs having IHHL **69**

% of functional IHHLs **93%**

Number of PT/CTs near the slum **2**

Total number of persons dependent on PT/CTs **163**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water **32%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **83%**

4. Solid waste management system

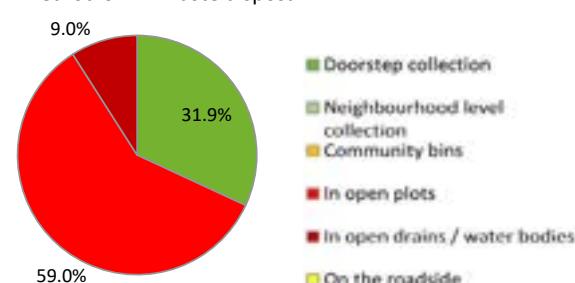


Total waste generation (kg)

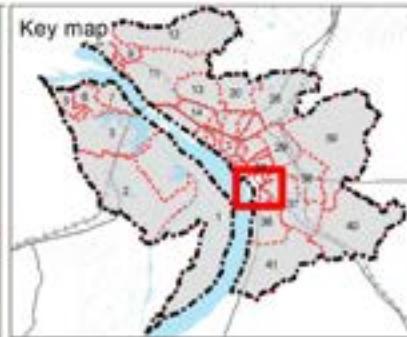
249

% of HHs segregating waste **14%**

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



Base layers

- Non-functional Community Toilet
- Functional Community Toilet
- Non-functional Public Toilet
- Slum
- National highway
- State highway
- Railway line
- Waterbody
- Ward boundary
- SMC boundary

Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 100 200 400 m



91. Dhanupali

Sambalpur

Slum name
DHANUPALI

Ward
35

Total number of households in the slum
38

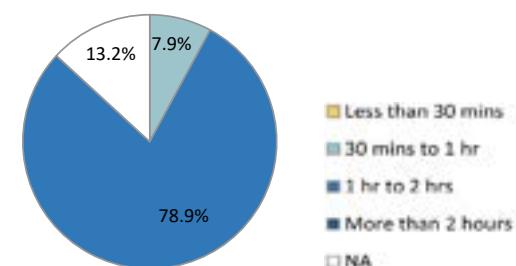
Approximate area of the slum
0.5 ha



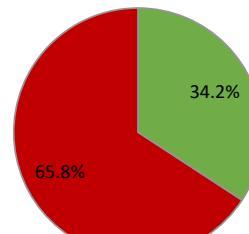
1. Access to municipal water supply

	% of HHs with individual water tap connection 61%
	% of HHs satisfied with the quality of water supplied 66%

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL
13

13

% of functional IHHLs
100%

100%

Number of PT/CTs near the slum
1

1

Total number of persons dependent on PT/CTs
-

-

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water
21%

21%

% of IHHLs connected to septic tank/ soak pit/ twin pit
92%

4. Solid waste management system

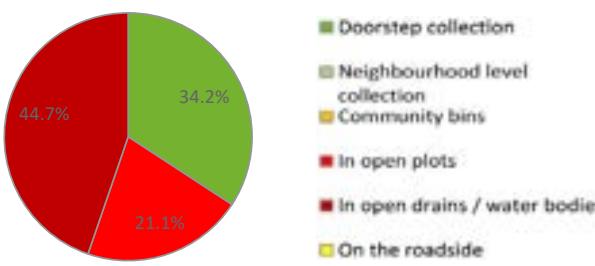


Total waste generation (kg)

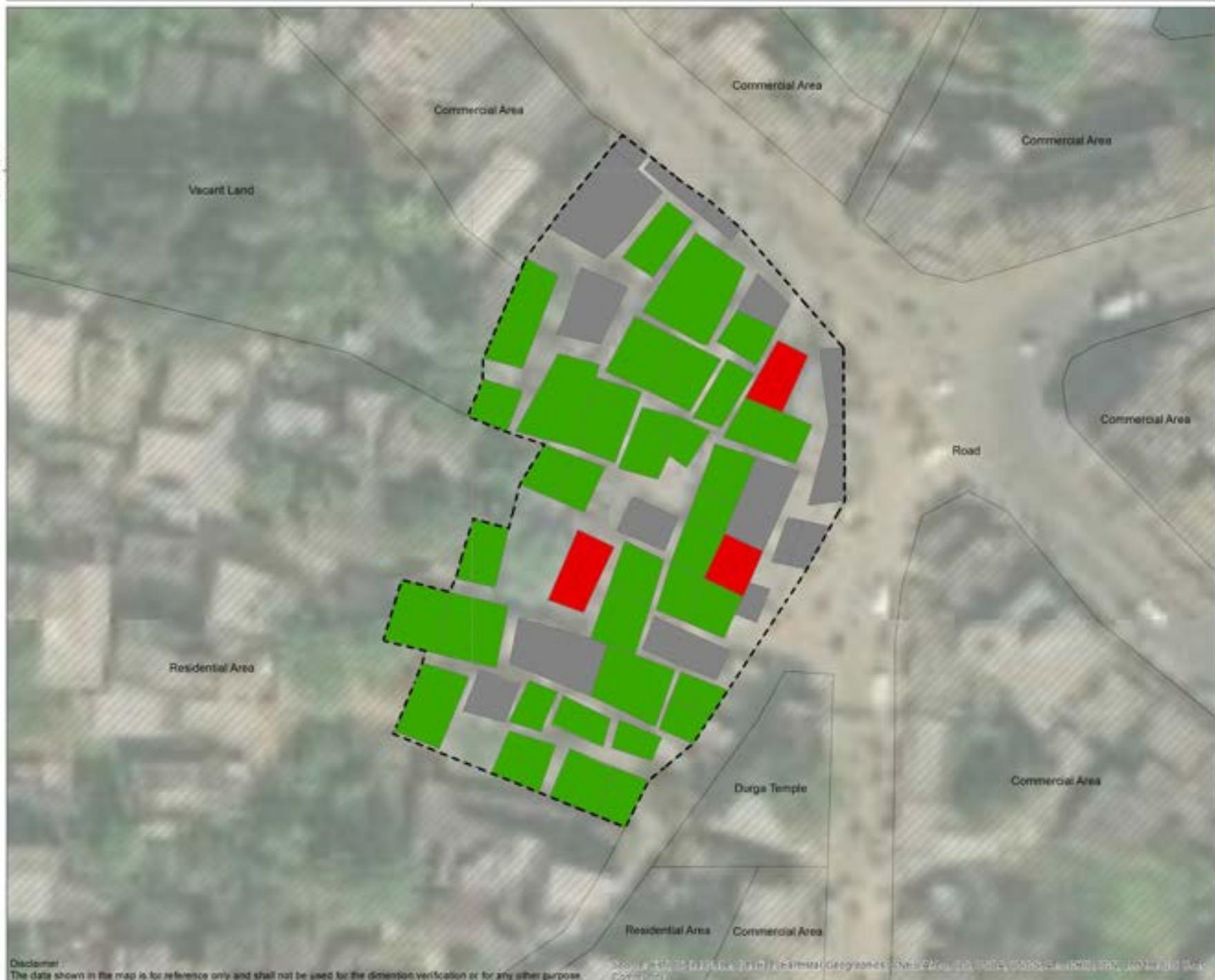
51

% of HHs segregating waste
45%

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



House ownership

- Owned
- Rented
- Other structures
- Slum boundary

As per the verbal information provided by the respondents.

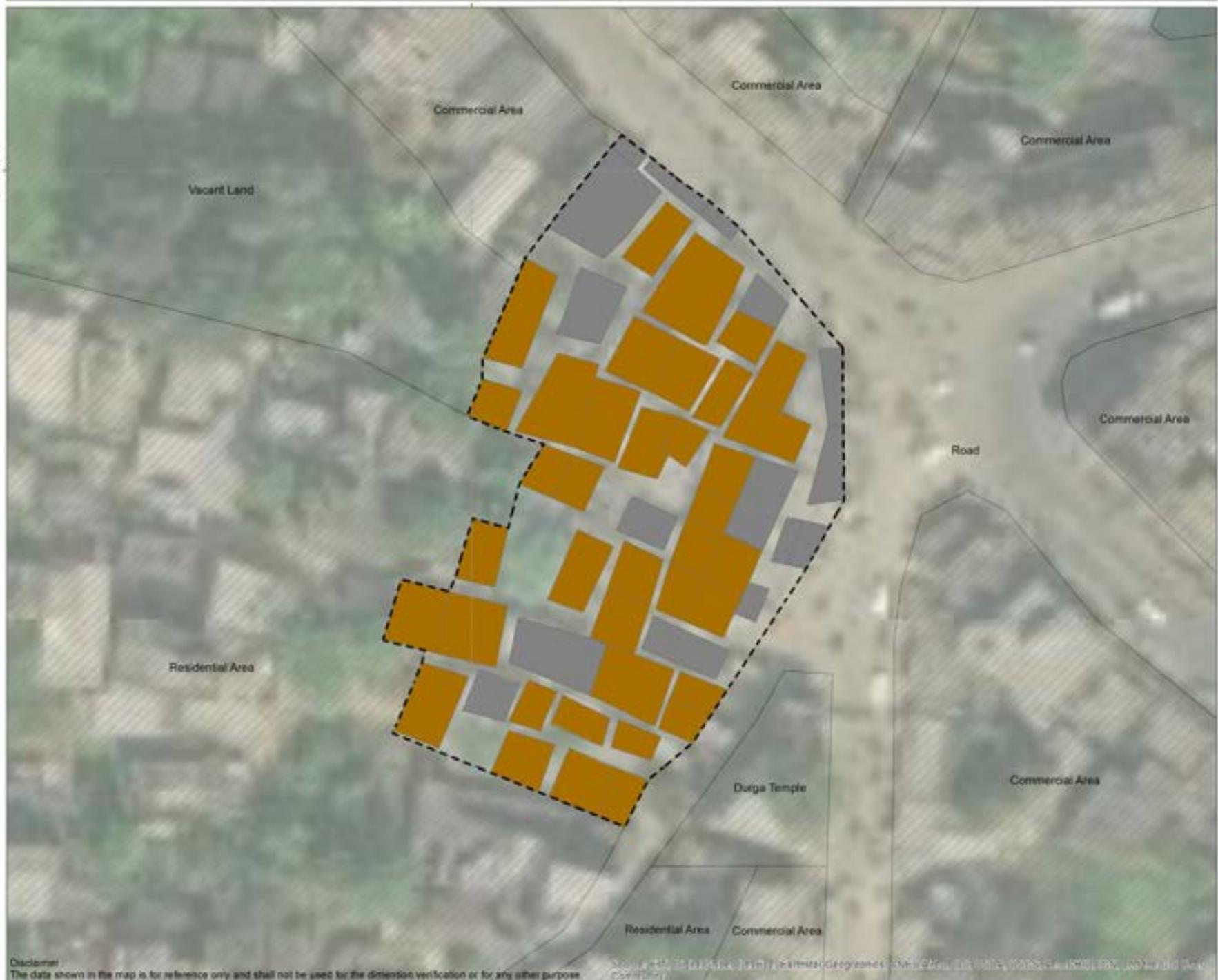
Source :

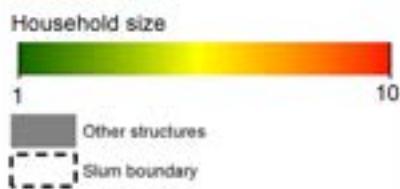
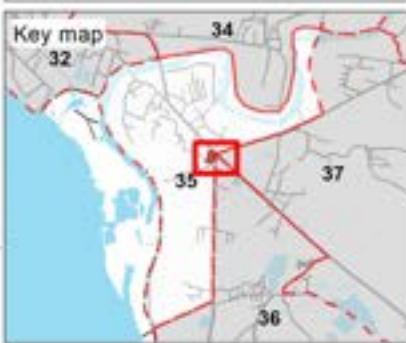
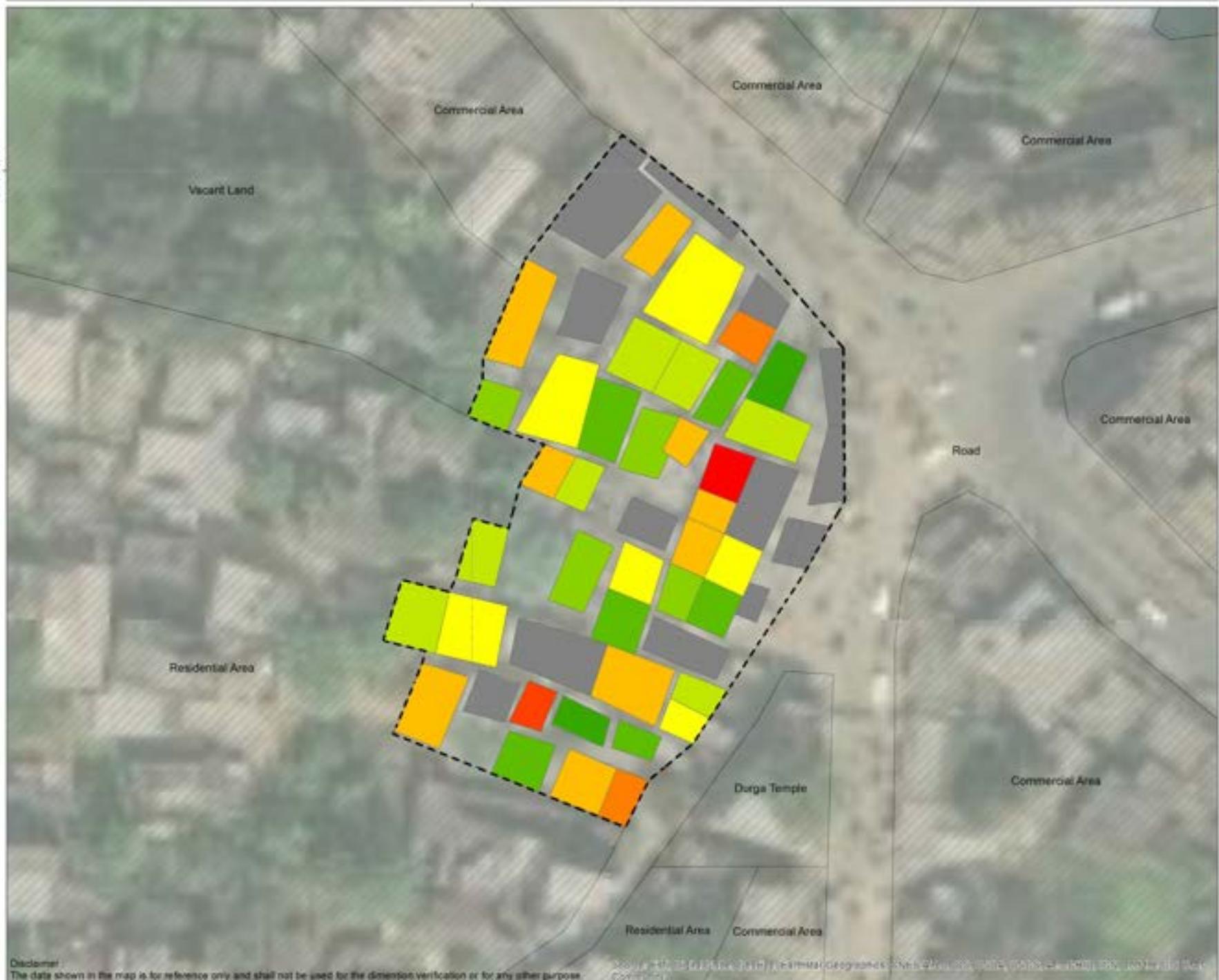
Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :

0 5 10 20 30 m





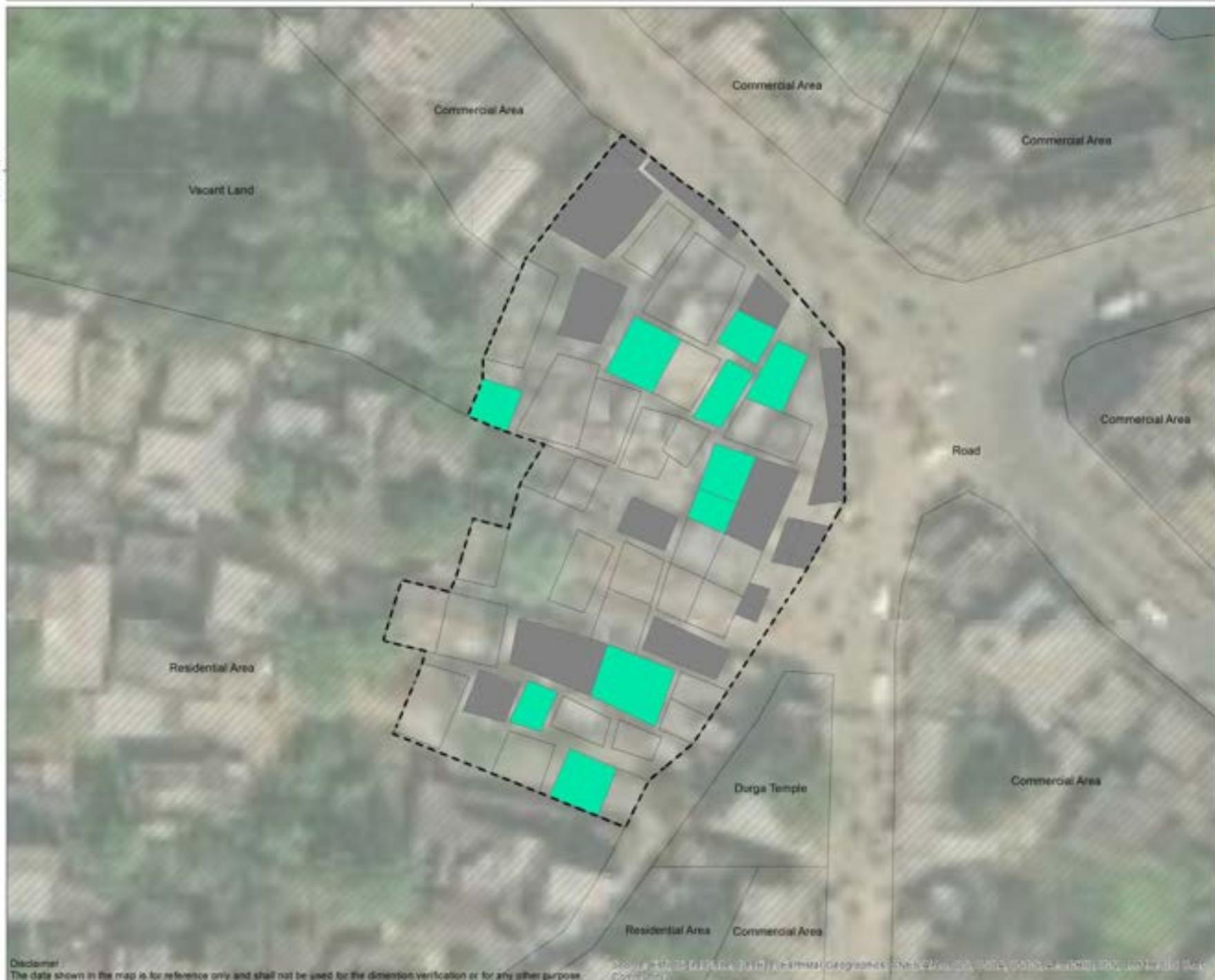


Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 5 10 20 30 m

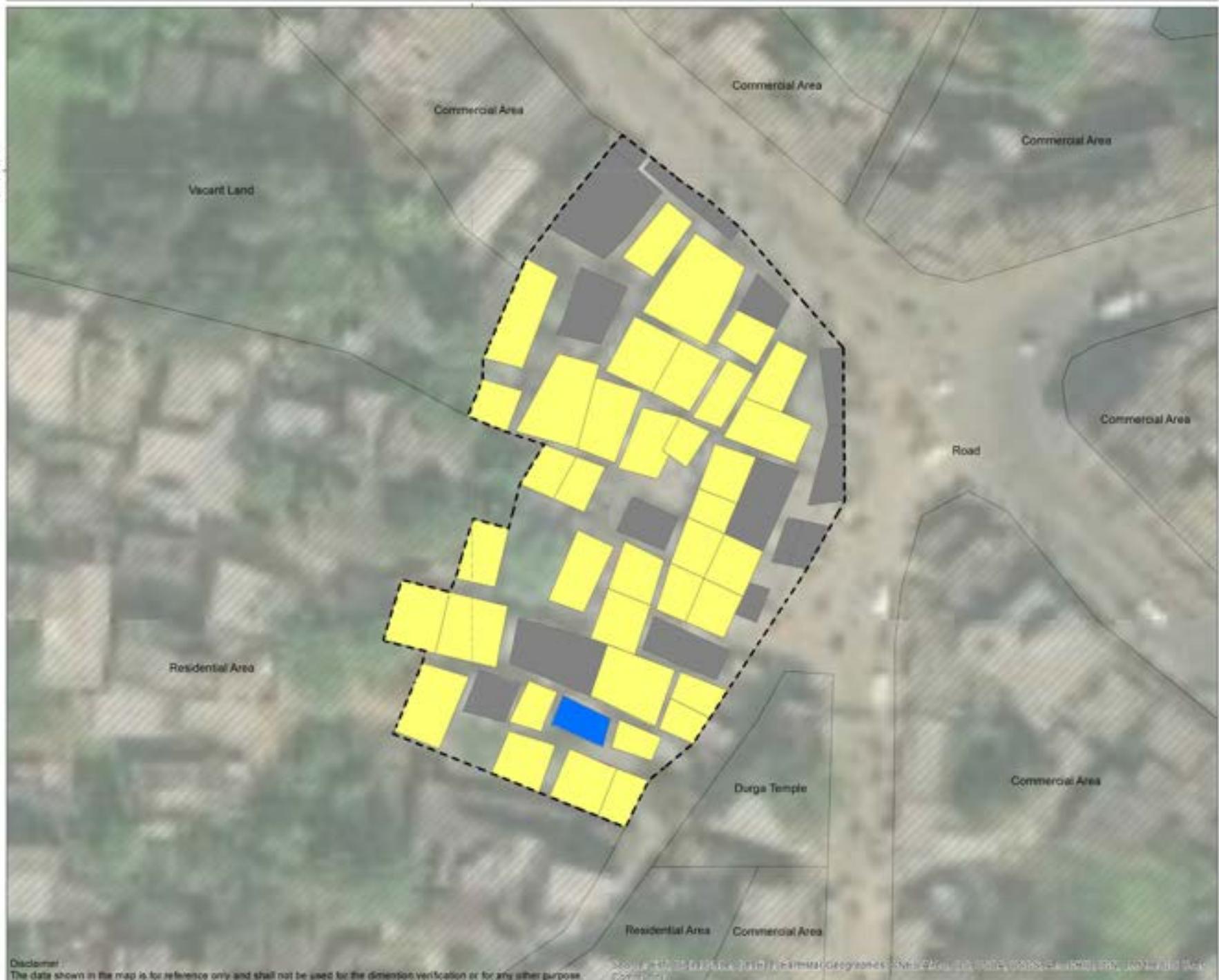


Dhanupali (Ward No. 35)





Dhanupali (Ward No. 35)



Household with PWD*

- █ Yes
- █ No
- █ Other structures
- █ Slum boundary

* Person with Disabilities

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 5 10 20 30 m





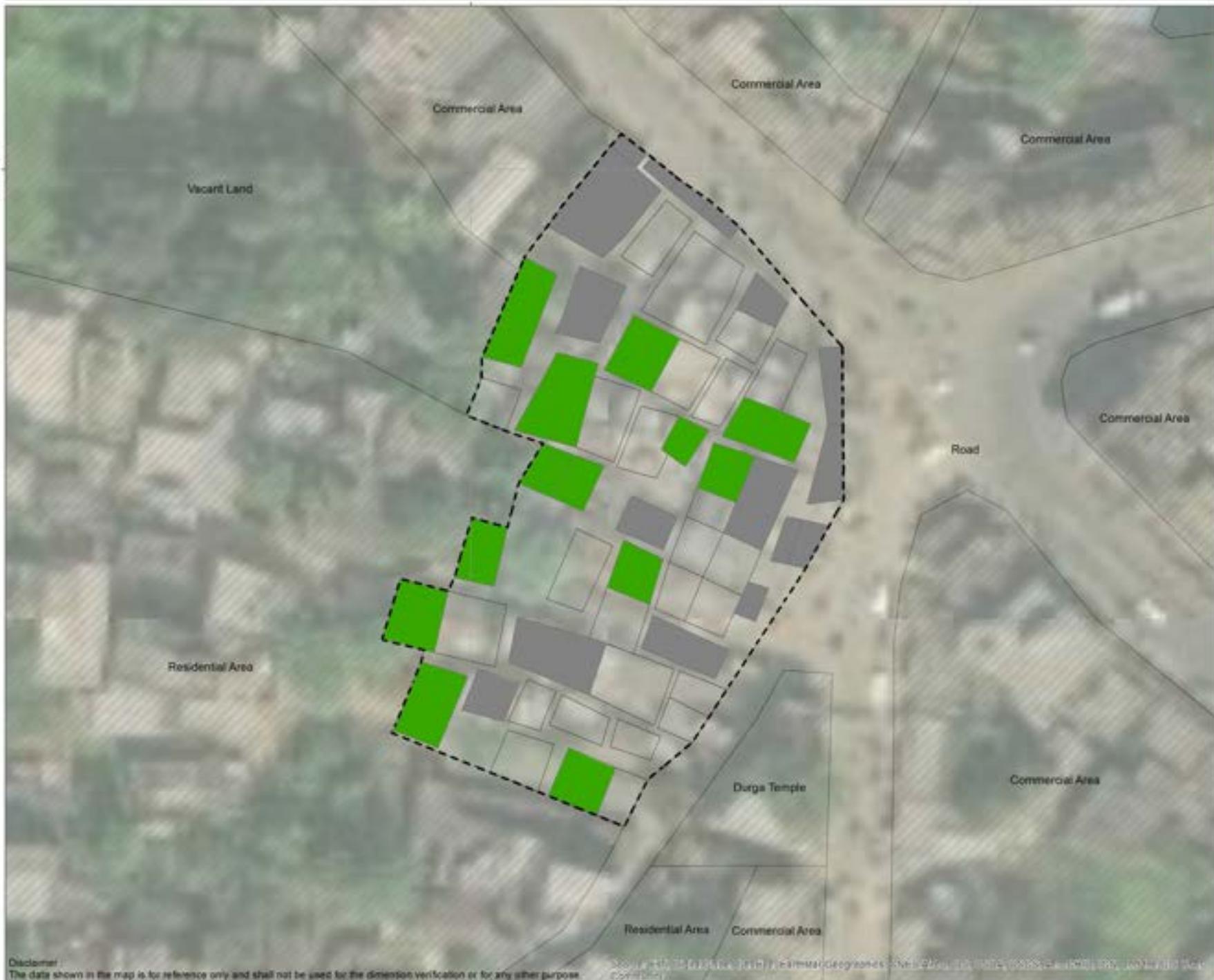
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UMC
Uitval Maatschappij voor Chemie

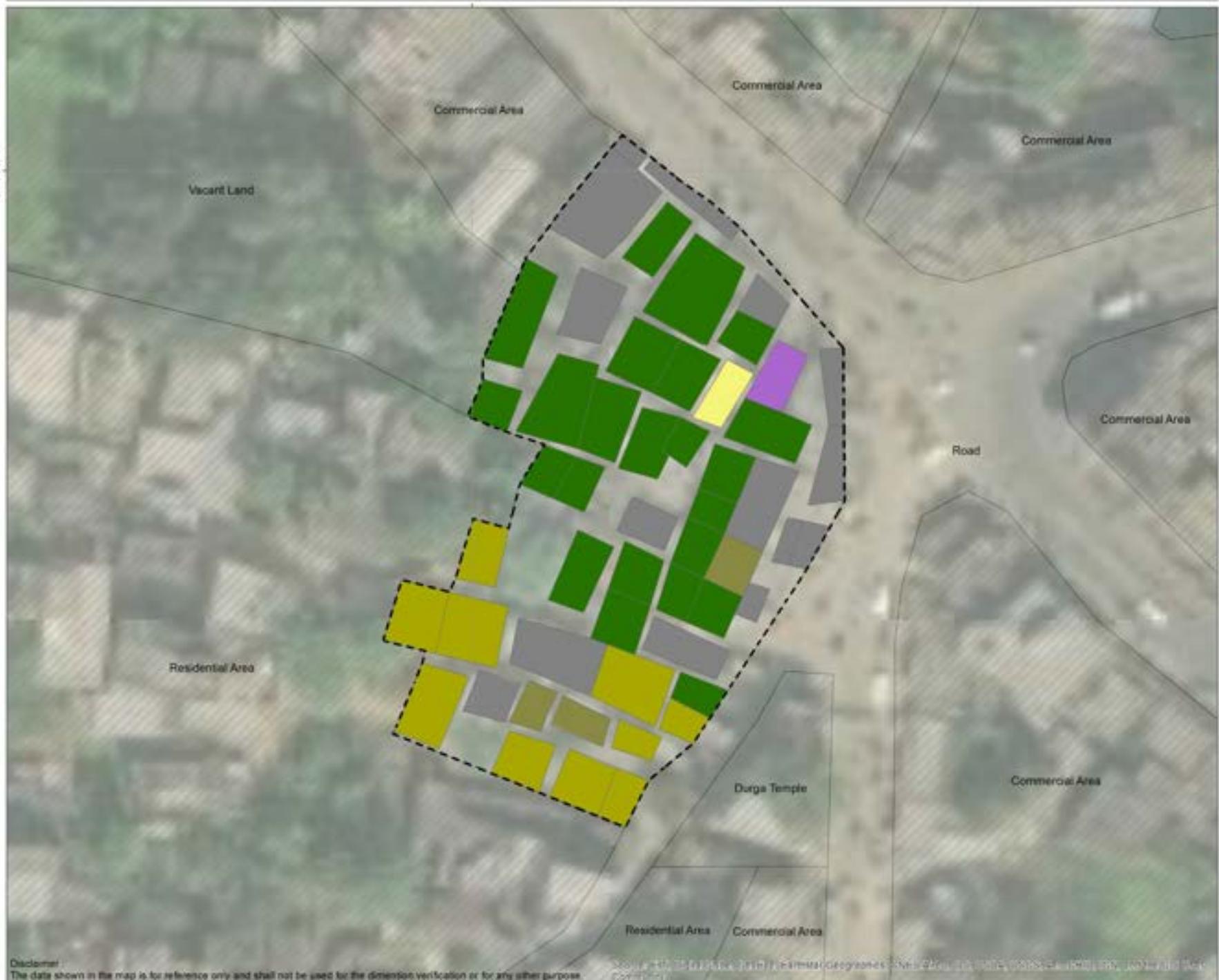
Sambalpur

Dhanupali (Ward No. 35)



Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
0 5 10 20 30



Source of water in household

- Tap connection at home
- Stand post
- Stand post & Hand pump
- Hand pump
- Private water tanker
- Other structures
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
 0 5 10 20 30 m





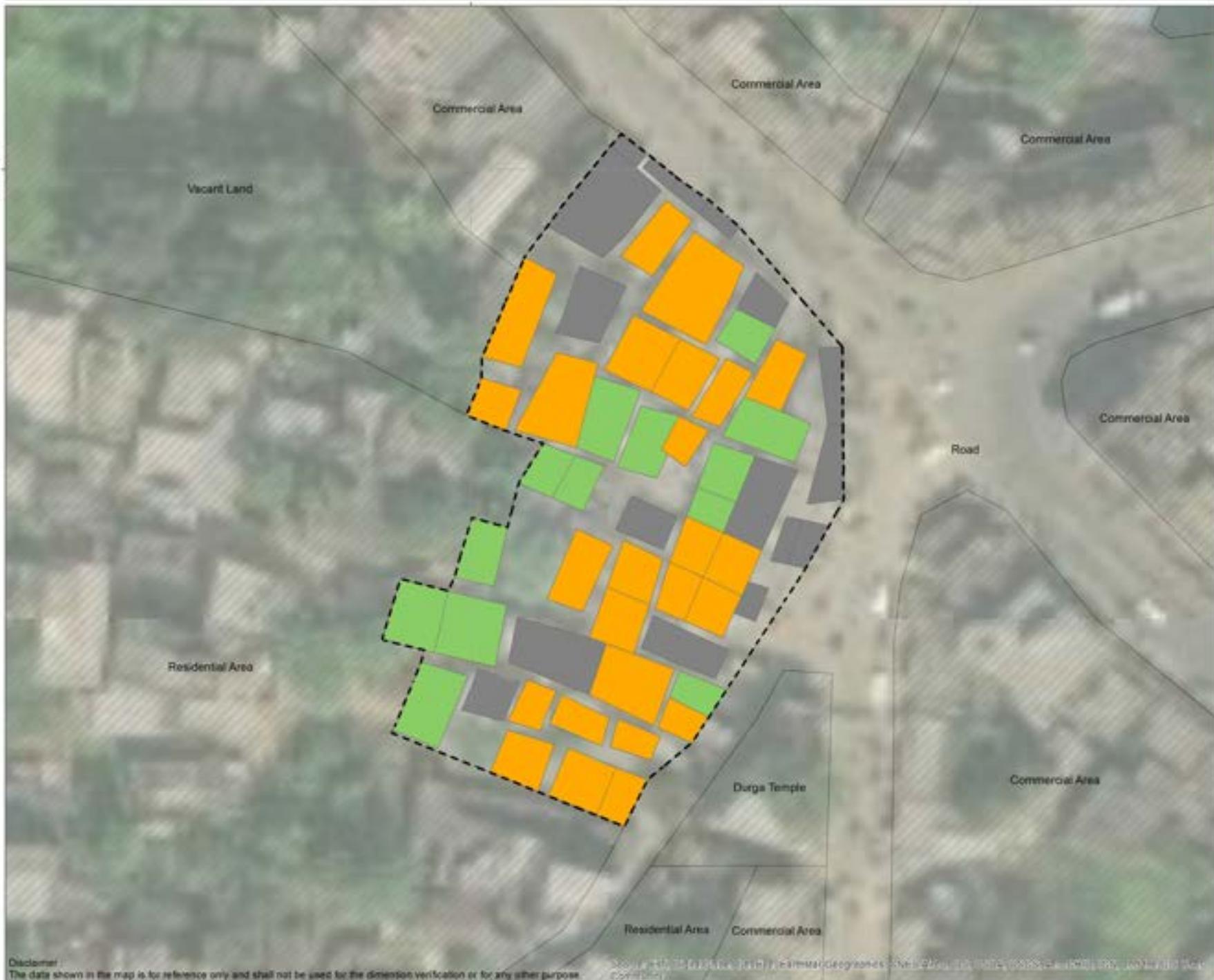
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URBAN MANAGEMENT CENTRE

Sambalpur

Dhanupali (Ward No. 35)



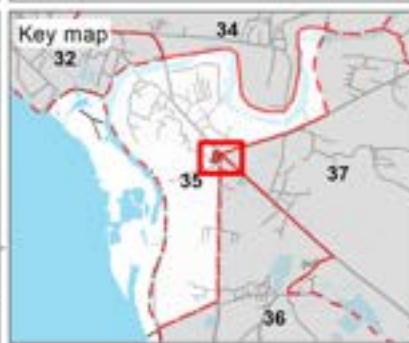
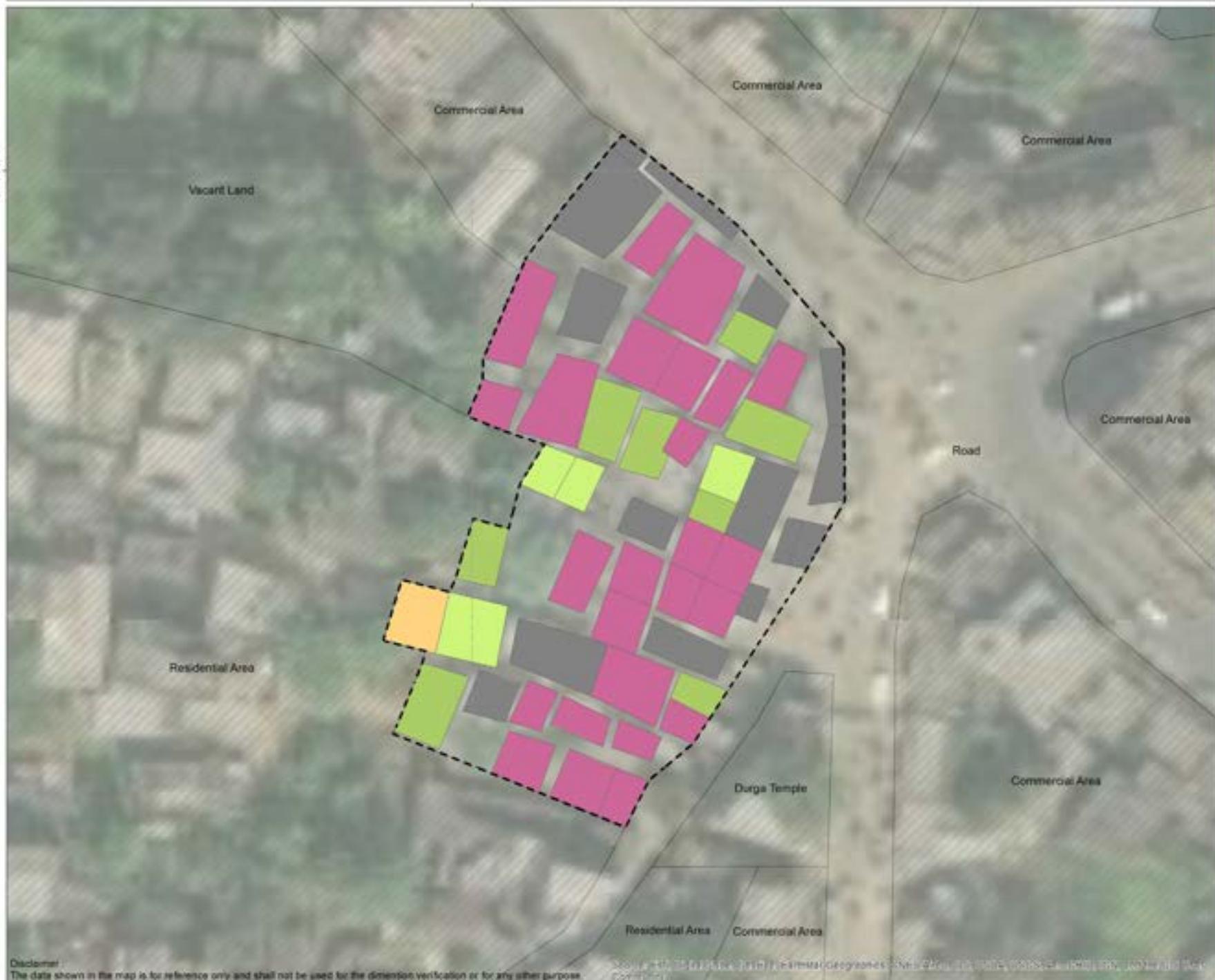
Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
0 5 10 20 30

Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



Dhanupali (Ward No. 35)



IHHL connected to :

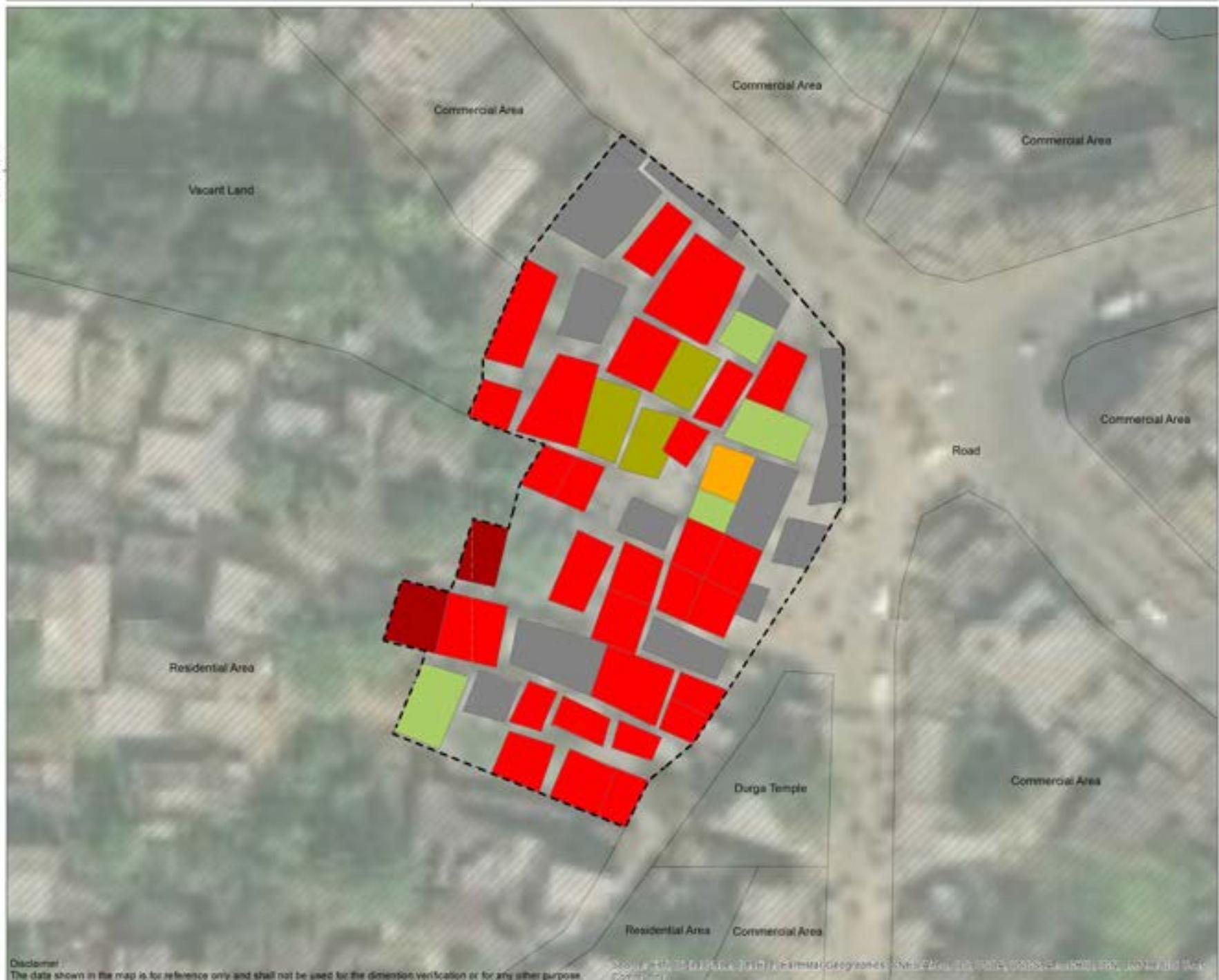
- Septic tank
- Soak pit
- Open drain
- No IHHL
- Other structures
- Slum boundary

Source :

Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :





Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 5 10 20 30

Disclaimer :
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2019-07-23 Generated by Esri's ArcGIS Geomatics Edition 2019.07.23.00.00.00.000000



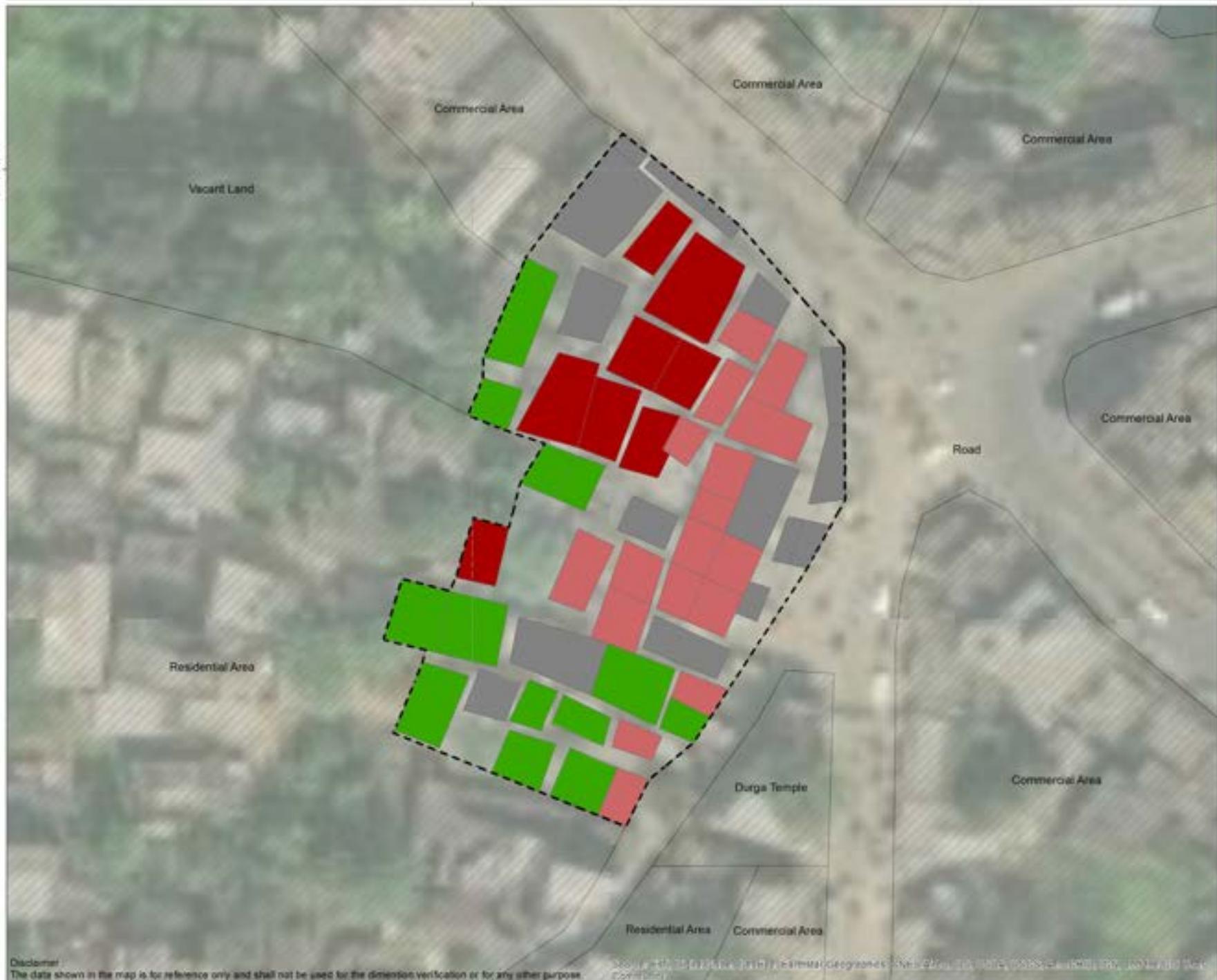
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URBAN MANAGEMENT CENTRE

Sambalpur

Dhanupali (Ward No. 35)



Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale :
0 5 10 20 30

92. Gobindhtolla

Sambalpur

Slum name
GOBINDTOLA

Ward
35

Total number of households in the slum
111

Approximate area of the slum
2.7 ha

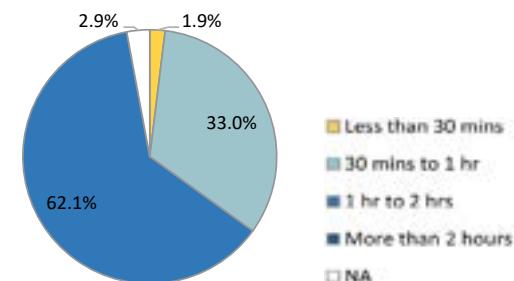


1. Access to municipal water supply

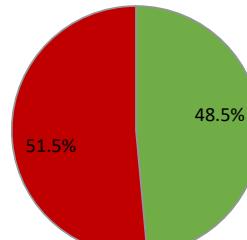
 % of HHs with individual water tap connection **34%**

% of HHs satisfied with the quality of water supplied **92%**

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **50**

% of functional IHHLs **90%**

Number of PT/CTs near the slum **-**

Total number of persons dependent on PT/CTs **-**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

% of IHHLs connected to septic tank/ soak pit/ twin pit **82%**

% of HHs connected with safe disposal system for grey water **47%**

4. Solid waste management system



Total waste generation (kg) **137**

% of HHs segregating waste **10%**

Method of HH waste disposal

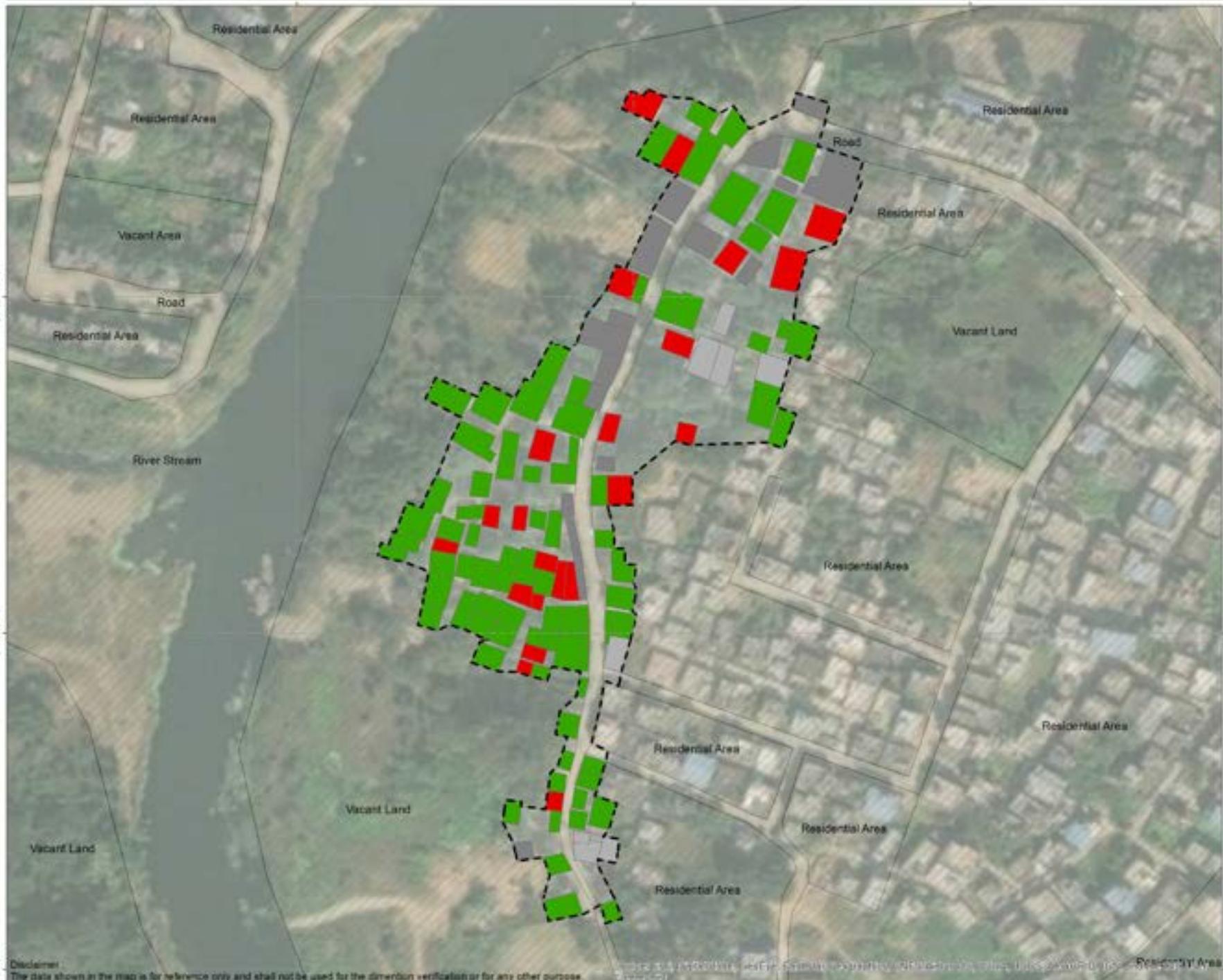


HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet



Sambalpur

Gobindhtolla (Ward No. 35)



As per the verbal information provided by the respondents.

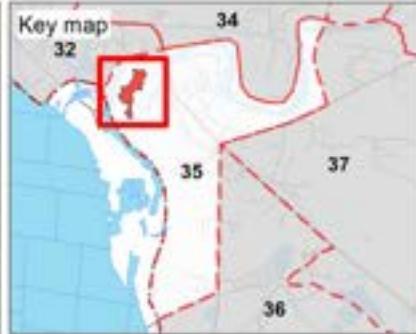
Source : Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale:

0 15 30 60 90



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.


Number of floors in the building

	Ground floor
	Ground floor + 1
	Ground floor + 2
	Locked house
	Other structures
	Slum boundary

Source :

 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :


N



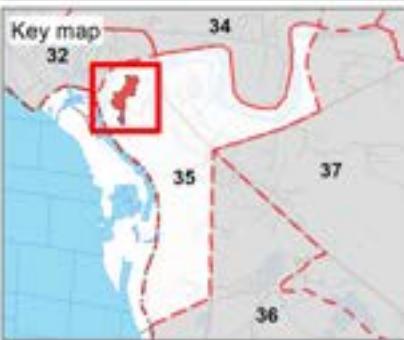
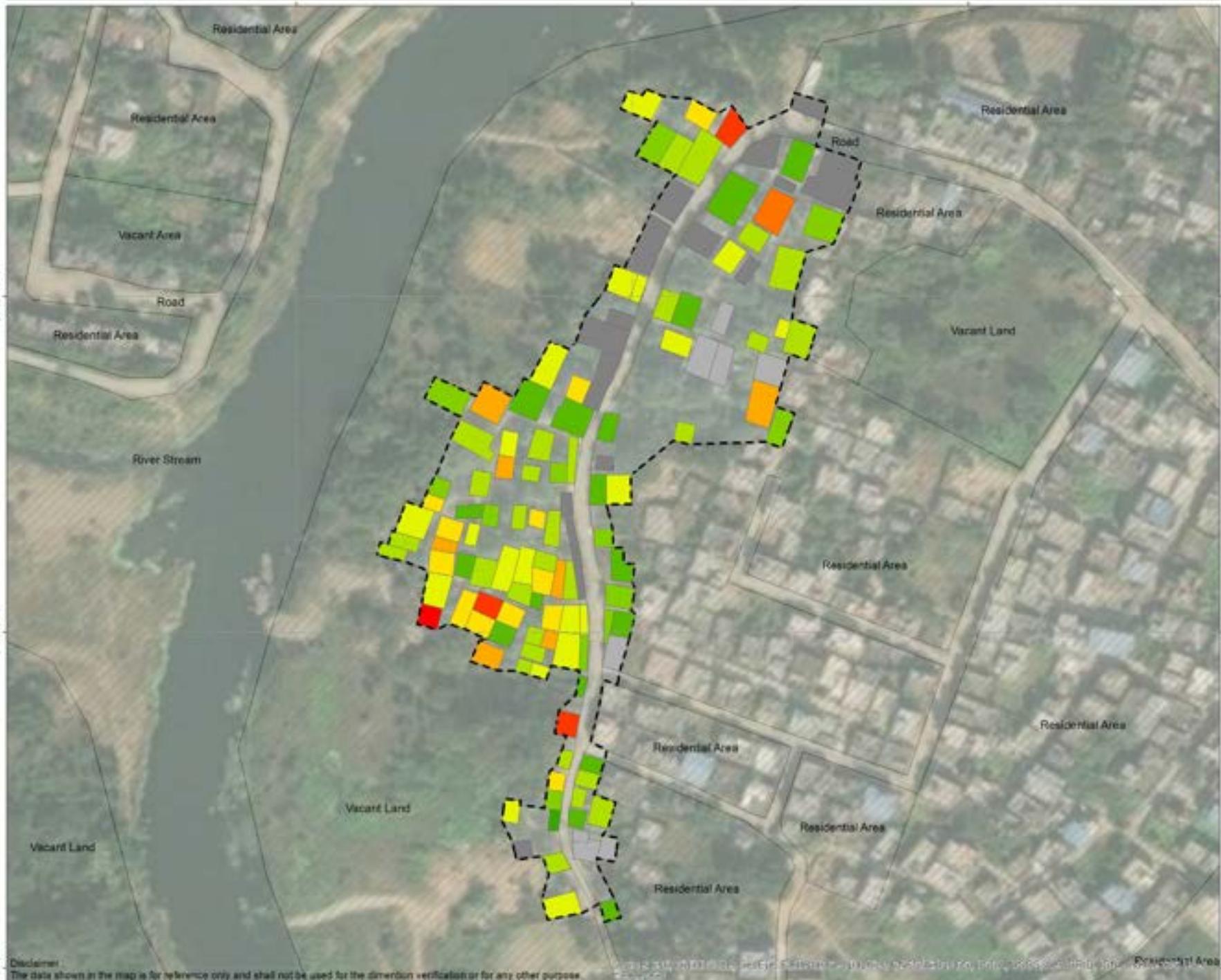
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URBAN MANAGEMENT CENTER

Sambalpur

Gobindhtolla (Ward No. 35)



Household size



Source:

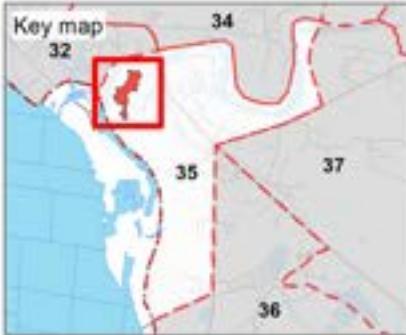
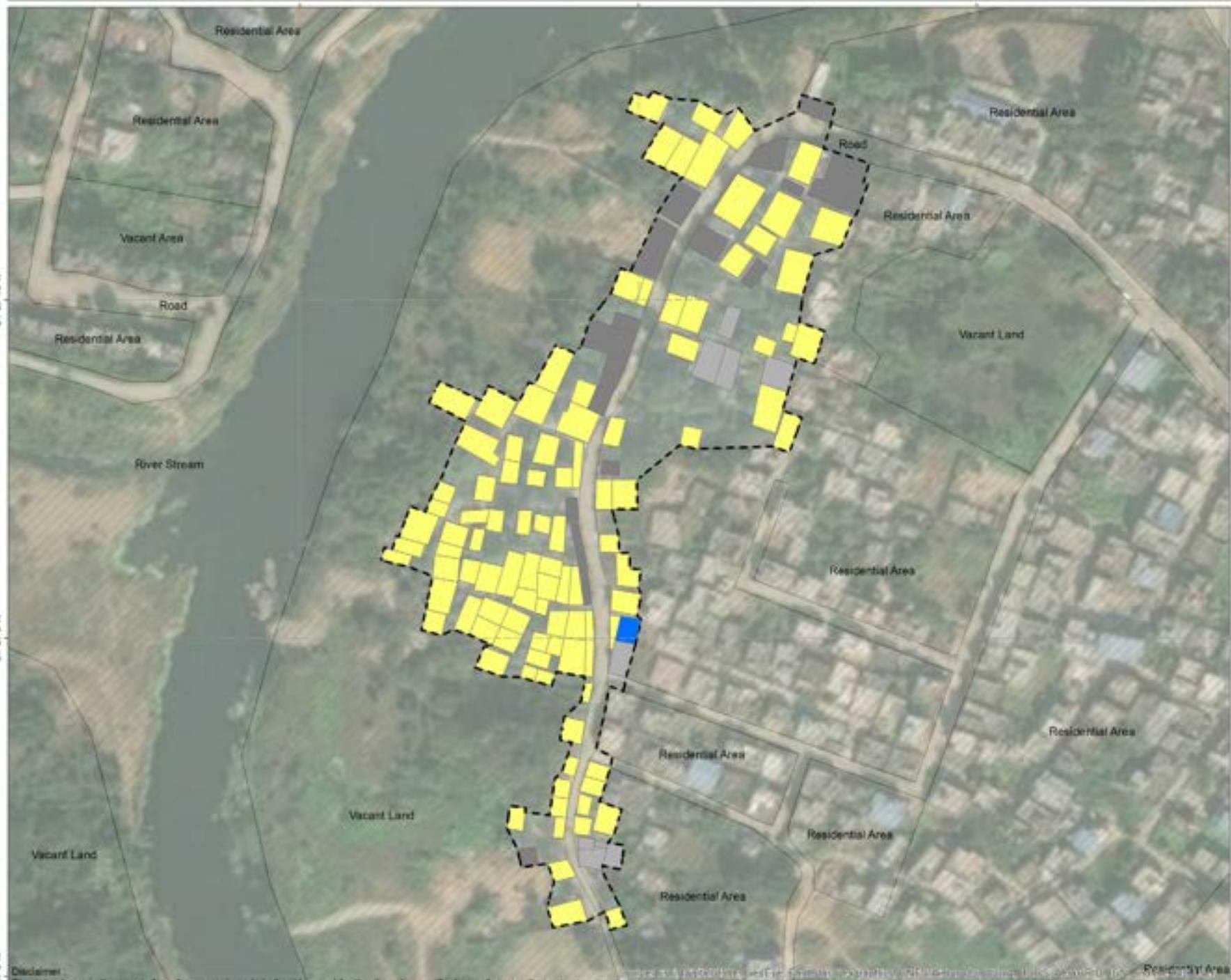
Urban Management Centre, (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.





Household with PWD*

- Yes
- No
- Locked house
- Other structures
- Slum boundary

* Person with Disabilities

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :

0 15 30 60 90
m





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Sambalpur

Gobindhtolla (Ward No. 35)

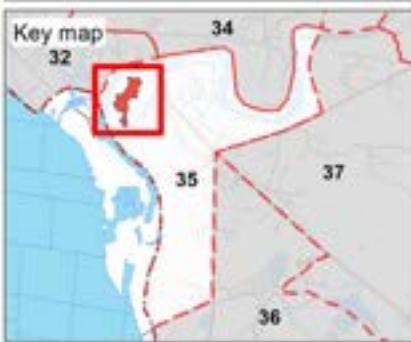
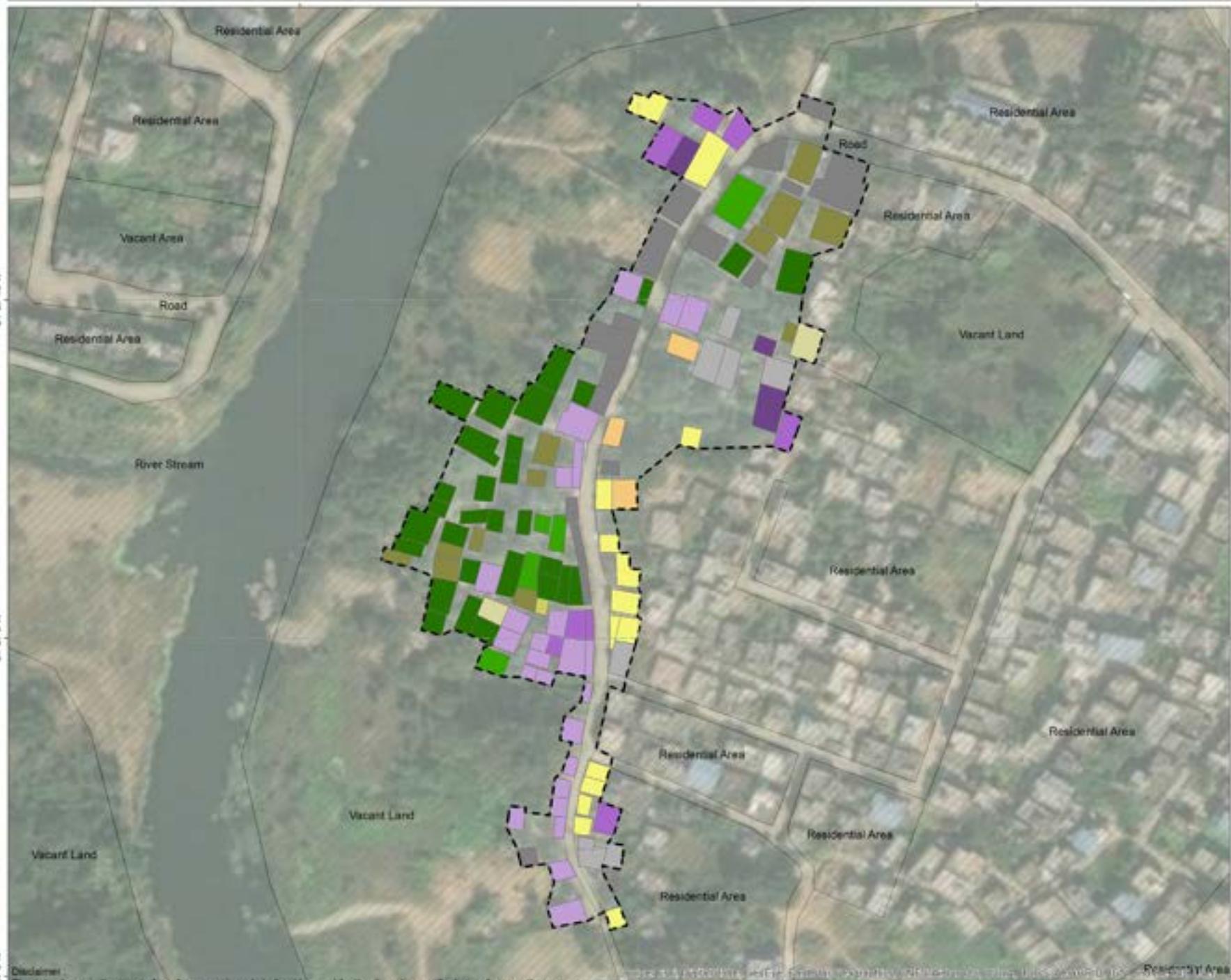


Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur. Odisha.

Scale:



Disclaimer: The data shown in the maps is for reference only and shall not be used for the dimension verification or for any other purpose.



Source of water in household

- Tap connection at home
- Tap connection at home & Stand post
- Stand post
- Stand post, Water tanker (Government) & Private water tanker
- Stand post & Hand pump
- Water tanker (Government)
- Private water tanker
- Private water tanker & Hand pump
- Hand pump
- Hand pump & Fetching water from neighbourhood
- Locked house
- Other structures
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale :
 0 15 30 60 90 m

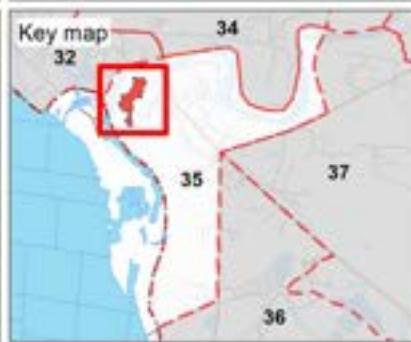
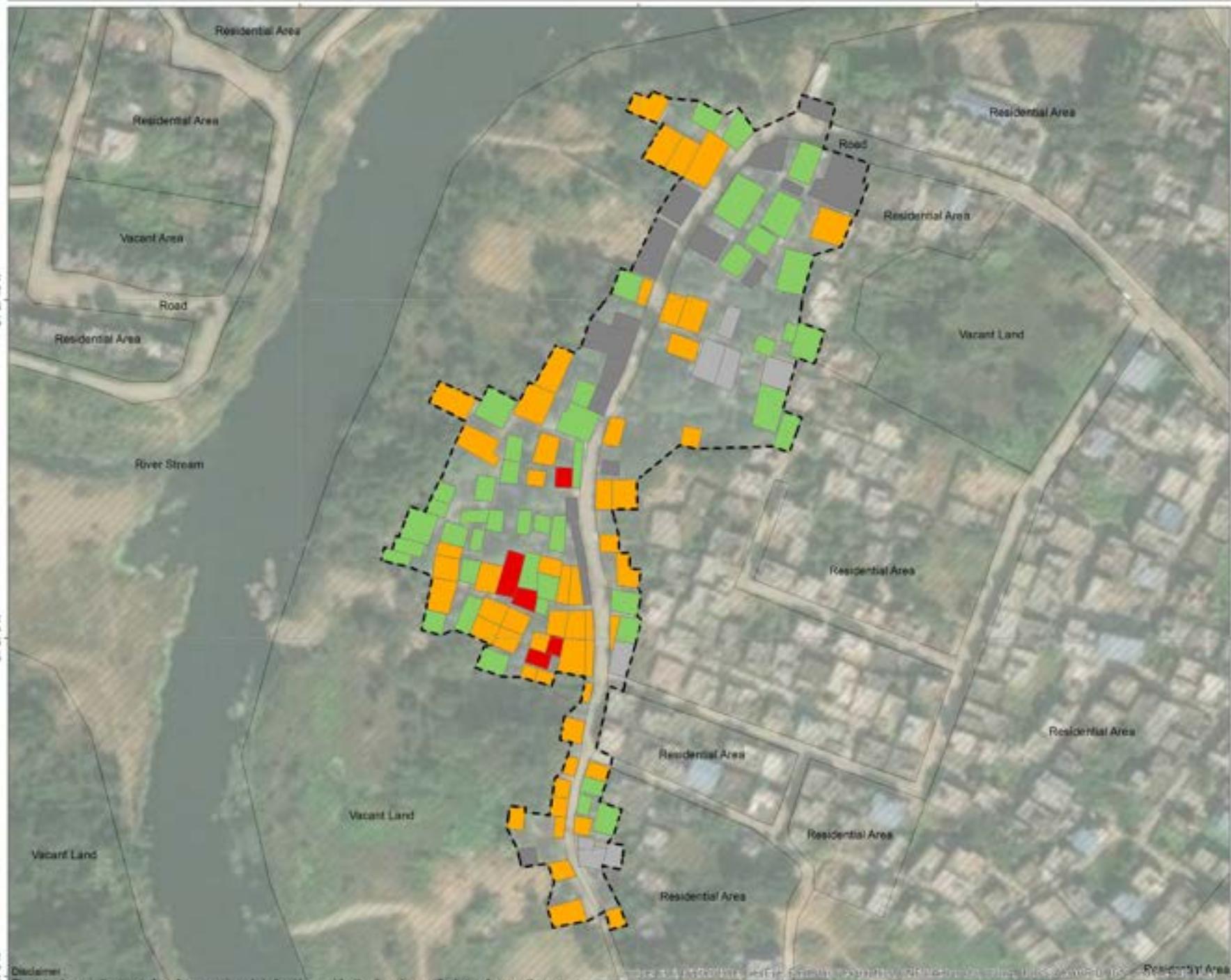
Disclaimer:
 The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

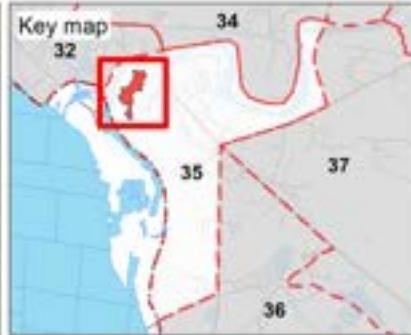
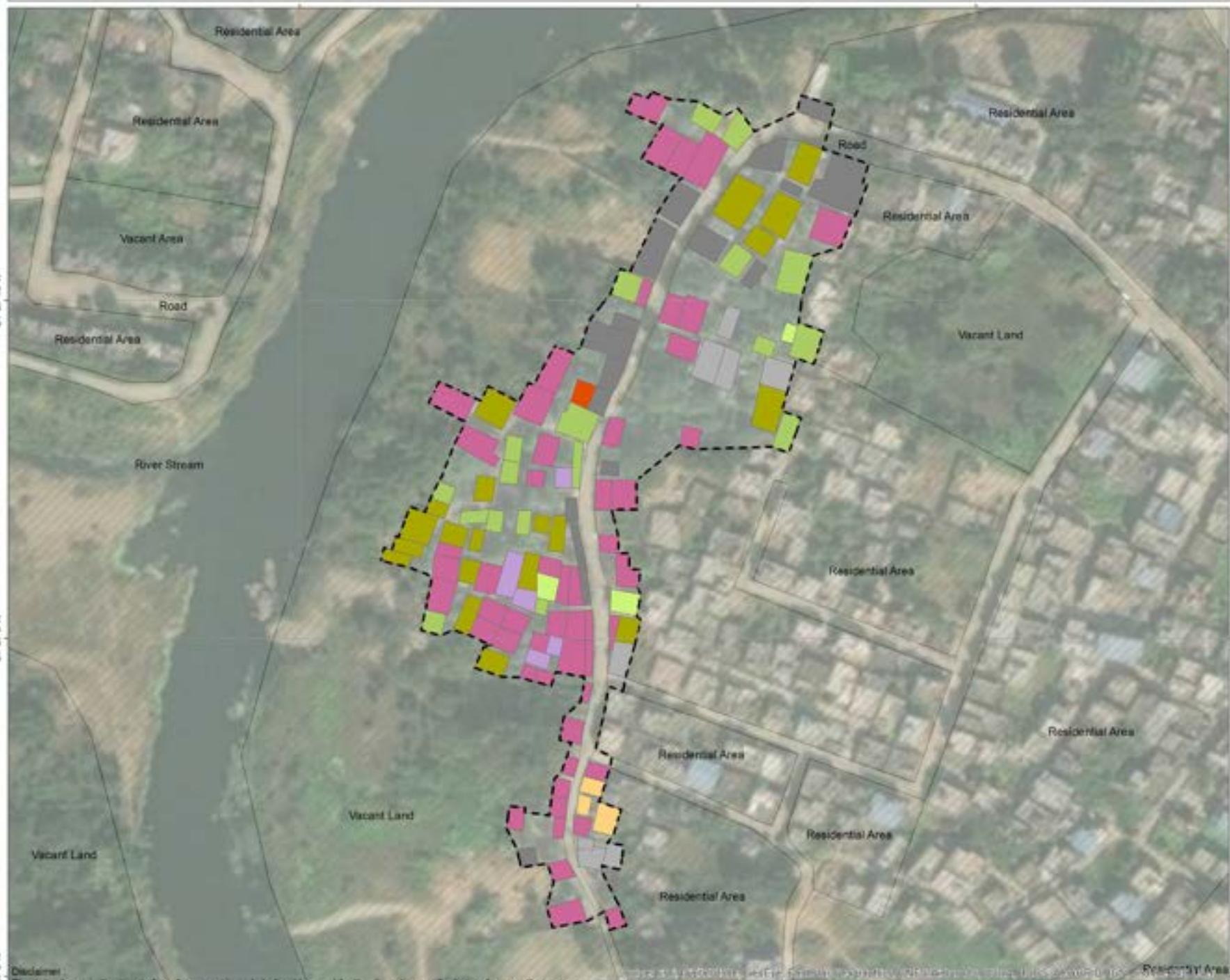
83°59'0"E

83°59'5"E

83°59'10"E






IHHL connected to :

- | |
|----------------------------|
| Septic tank |
| Soak pit |
| Twin pit |
| Open drain |
| No connection for disposal |
| Non-Functional IHHL |
| No IHHL |
| Locked house |
| Other structures |
| Slum boundary |

Source :

 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :

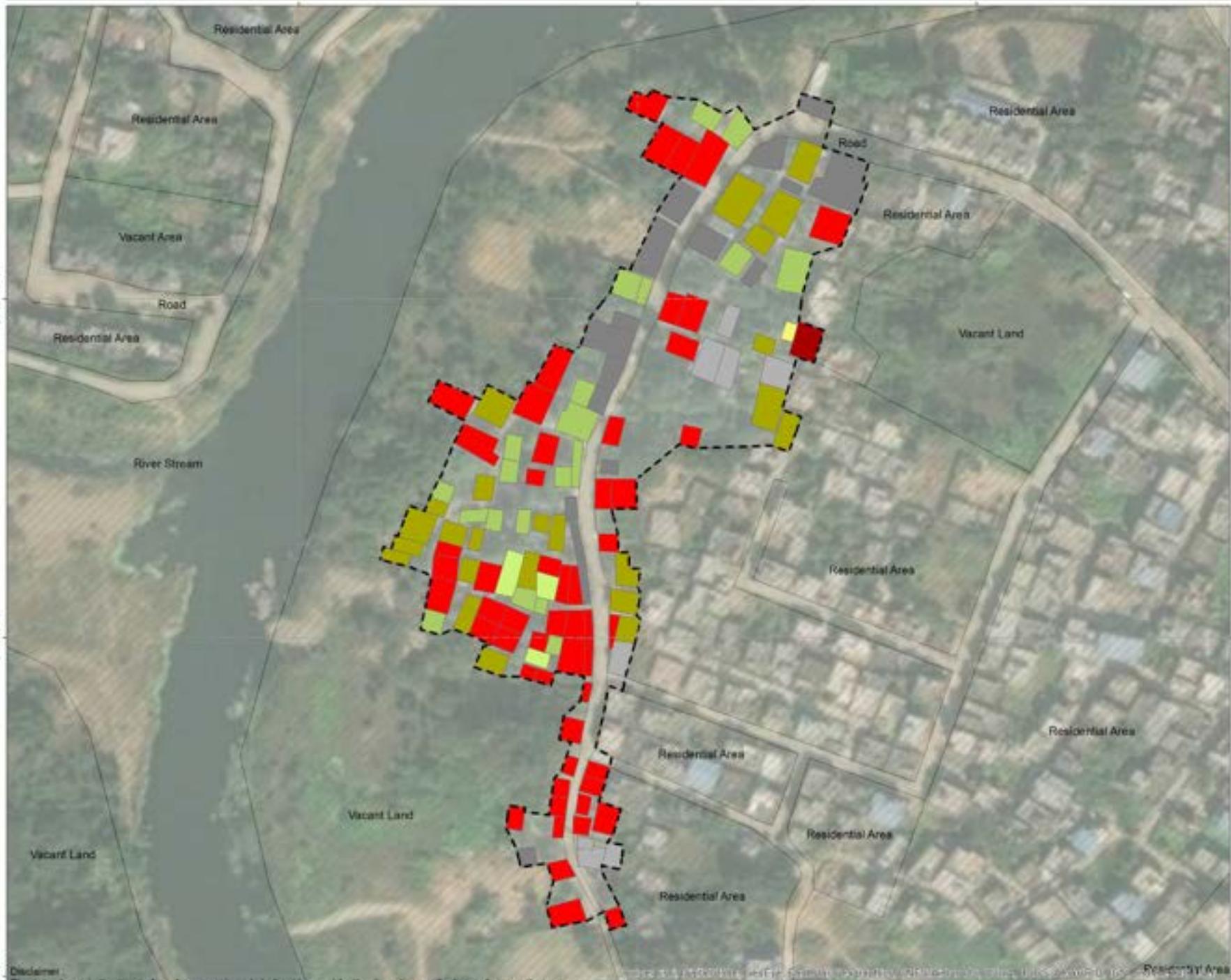
0 15 30 60 90 m





Sambalpur

Gobindhtolla (Ward No. 35)



Source : Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

Scale

0 15 30 60 90



Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



93. Turipada

Sambalpur

Slum name
TURIPADA

Ward
35

Total number of households in the slum
52

Approximate area of the slum
2.4 ha

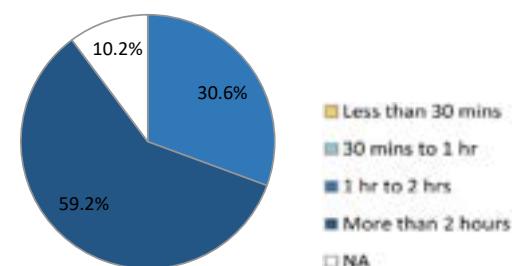


1. Access to municipal water supply

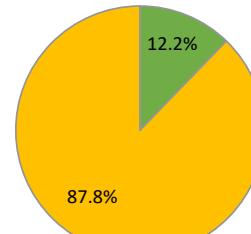
 % of HHs with individual water tap connection **10%**

% of HHs satisfied with the quality of water supplied **100%**

Duration of daily water supply



2. Access to toilets



3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

% of HHs connected with safe disposal system for grey water **10%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **67%**

4. Solid waste management system

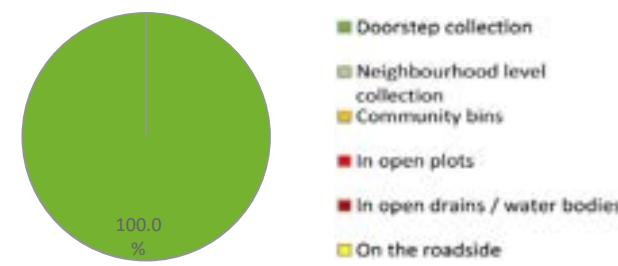


Total waste generation (kg)

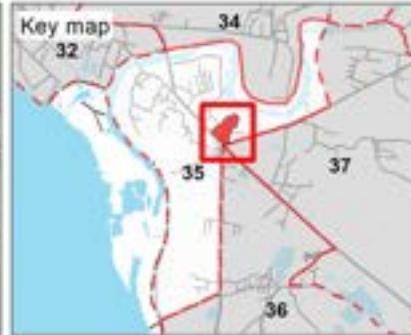
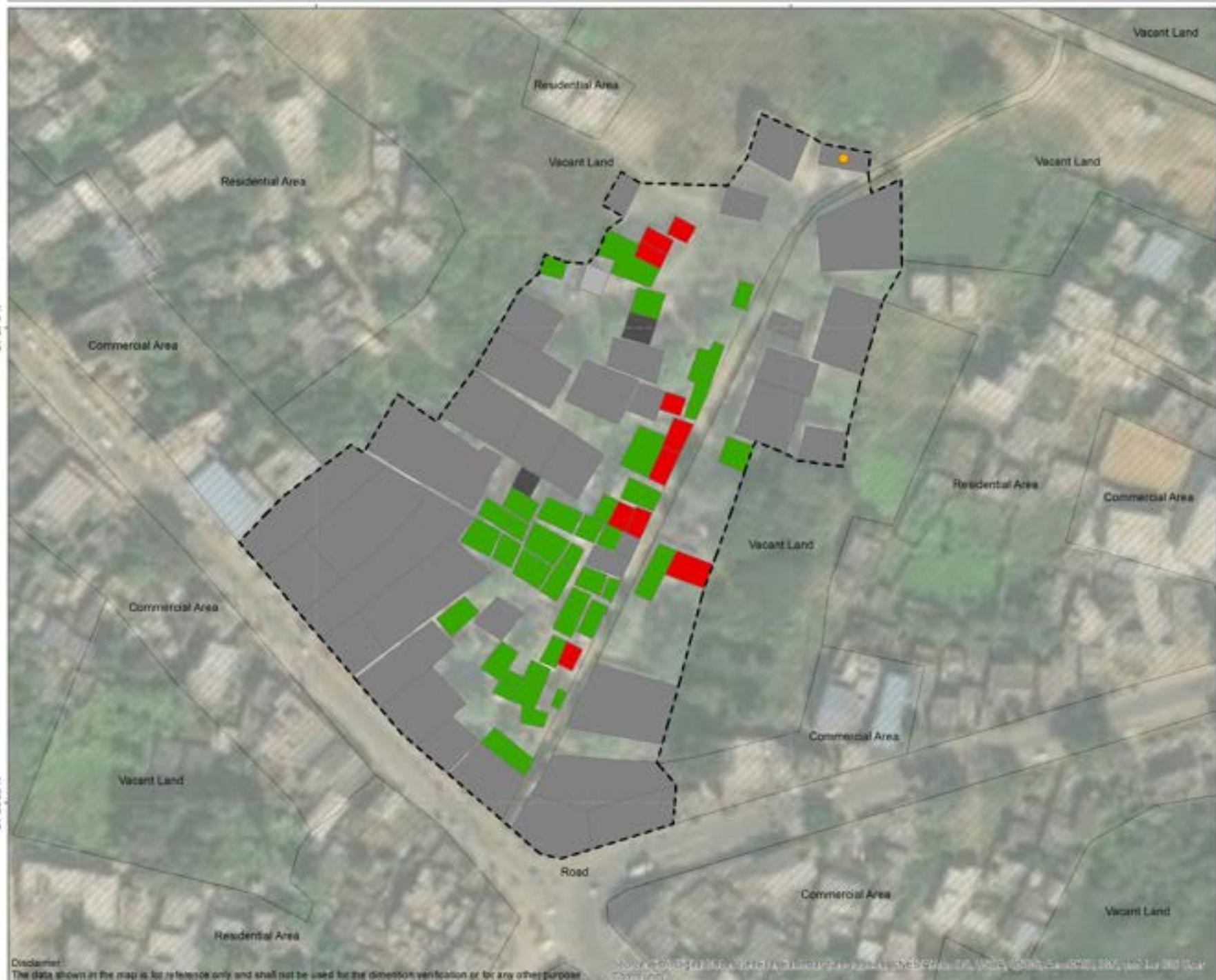
61

% of HHs segregating waste

Method of HH waste disposal



HH - Household, IHHL- Individual Household Latrine, PT/CT - Public /Community Toilet


House ownership

- Owned
- Rented
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

As per the verbal information provided by the respondents.

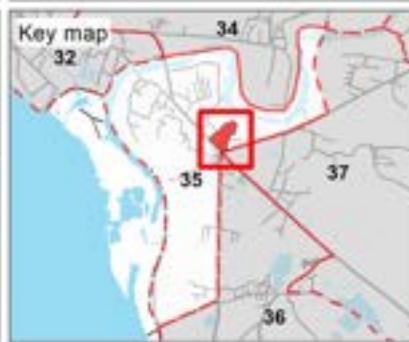
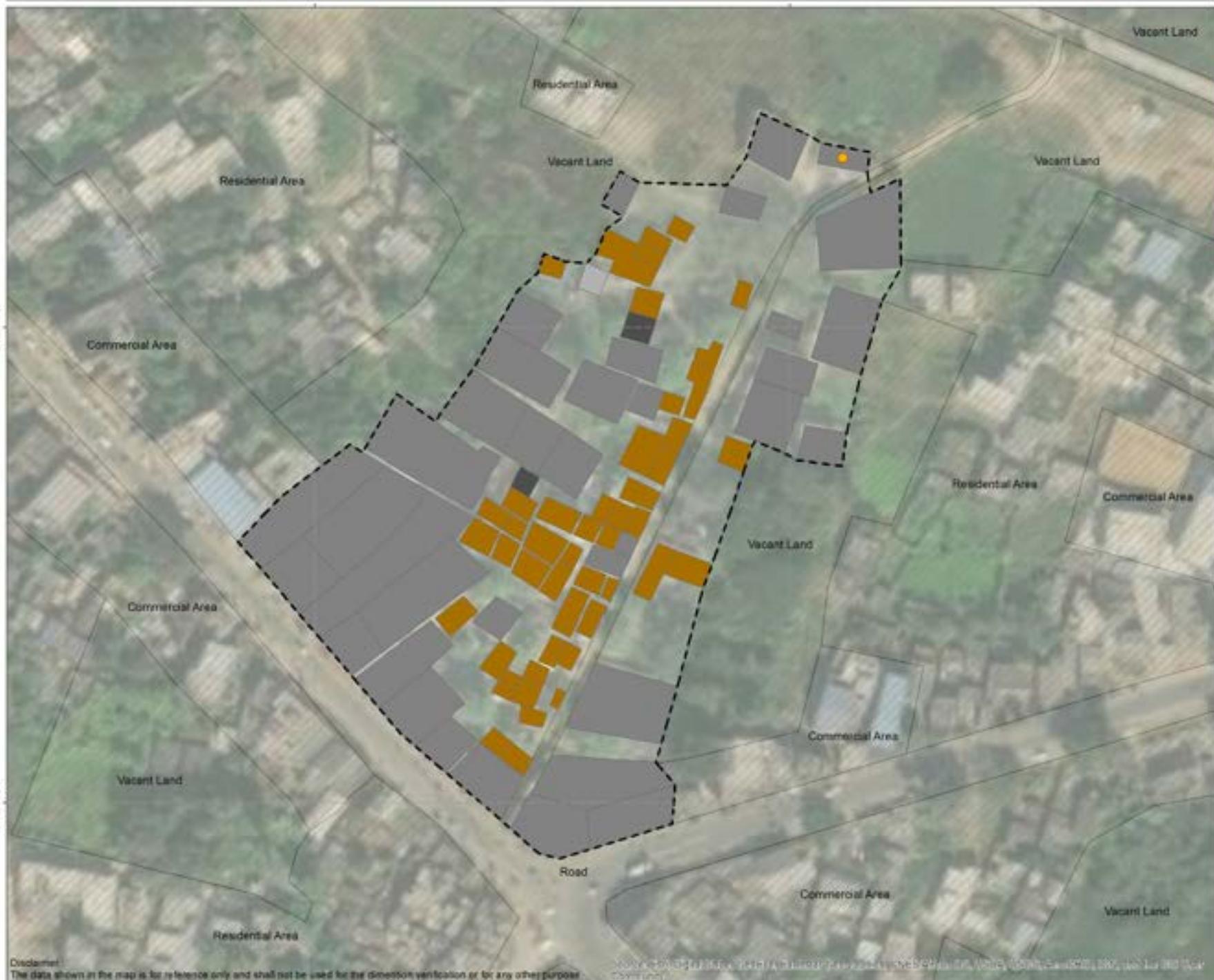
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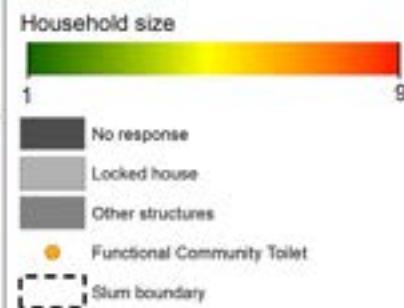
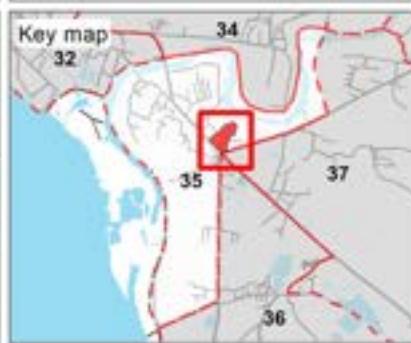
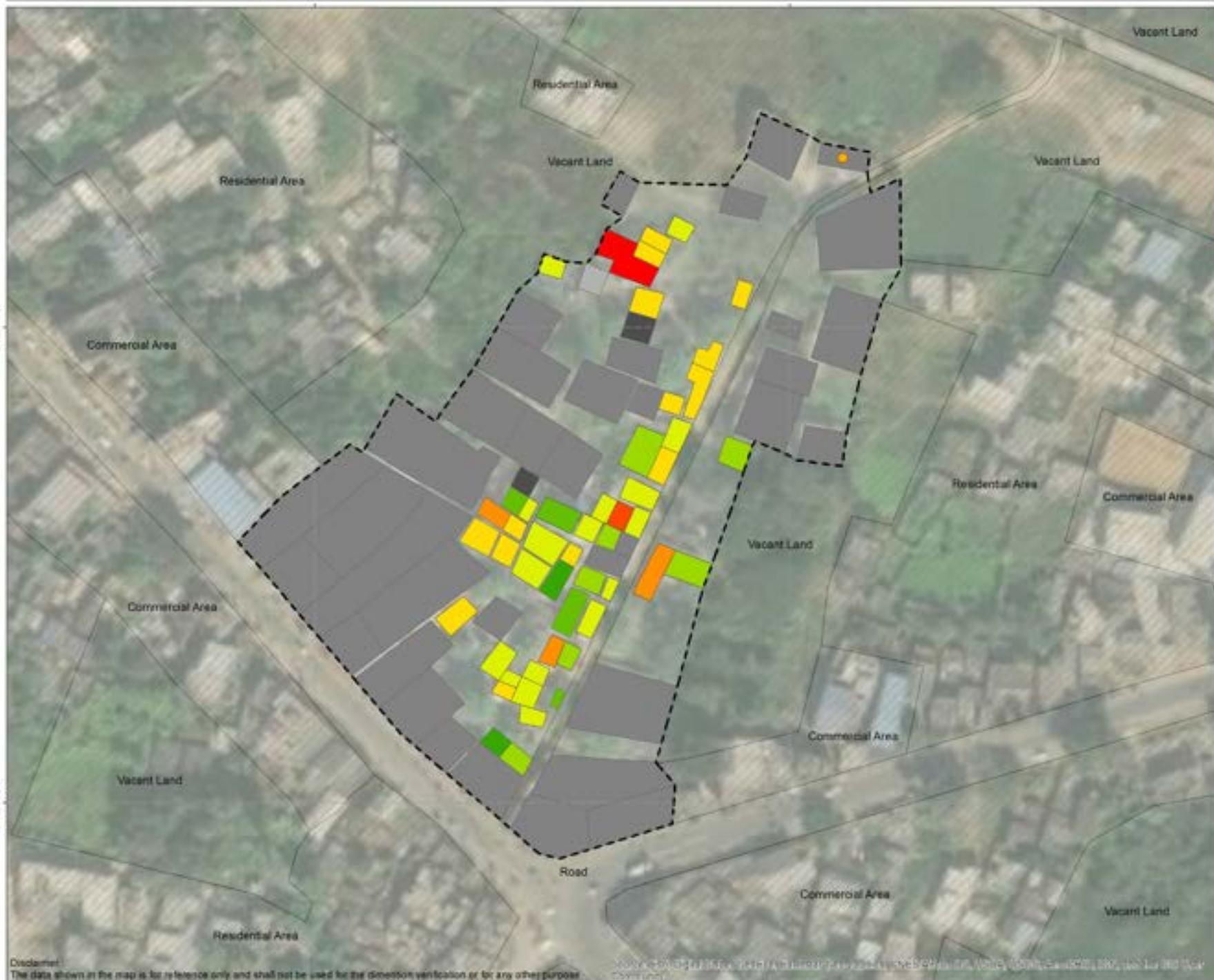
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.

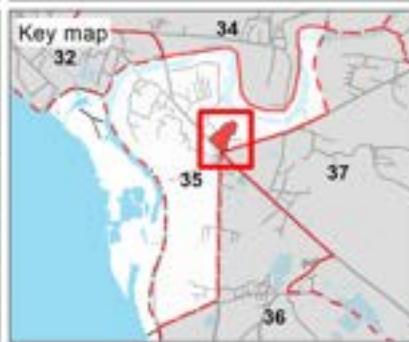
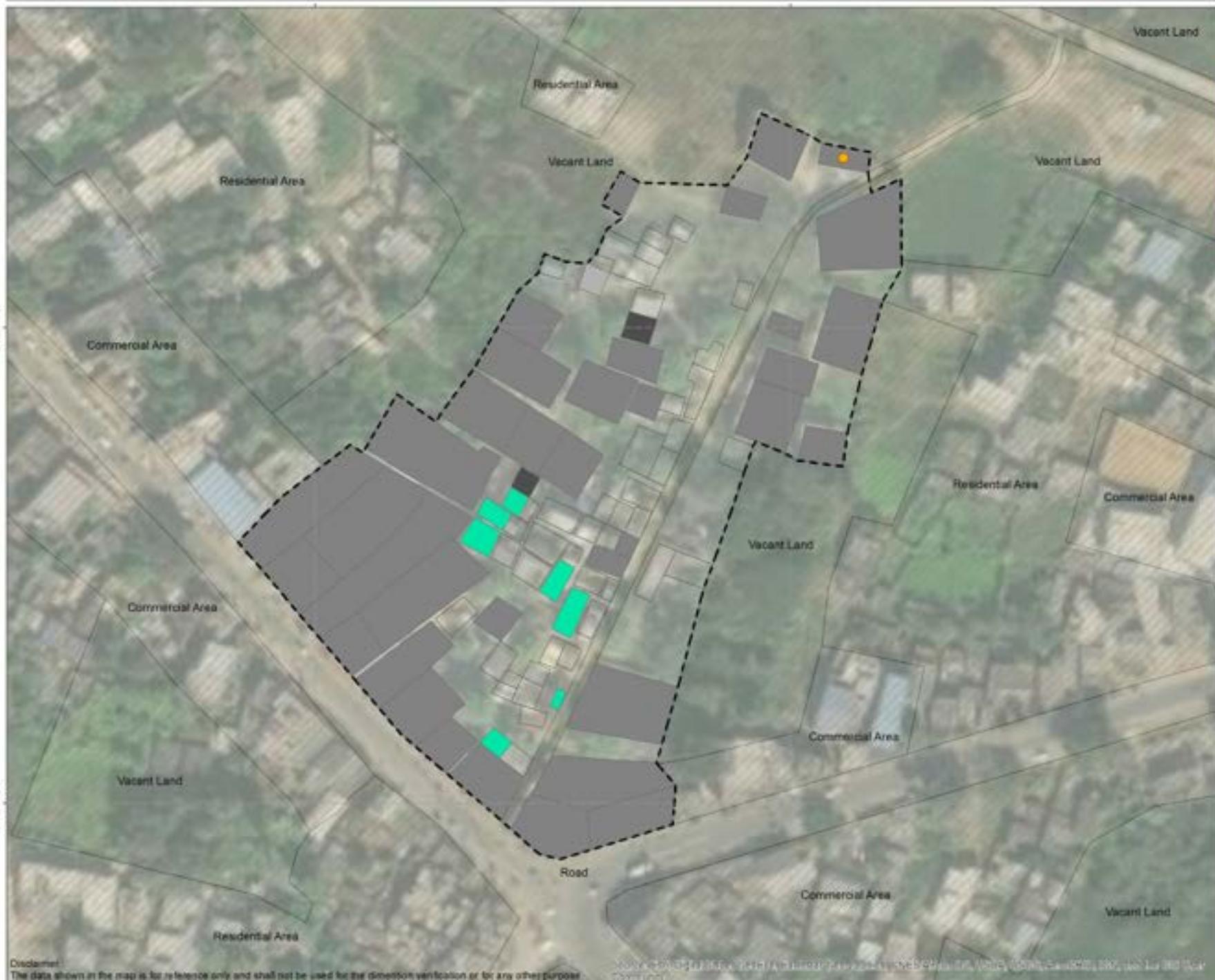
Scale :

Disclaimer:

The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.







Elderly citizen

- HH have elderly citizen
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

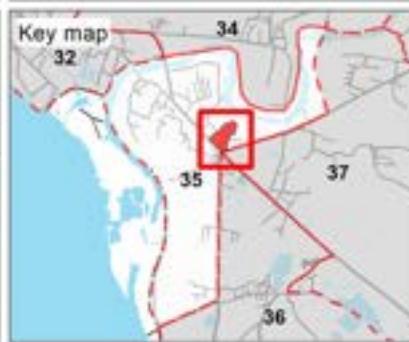
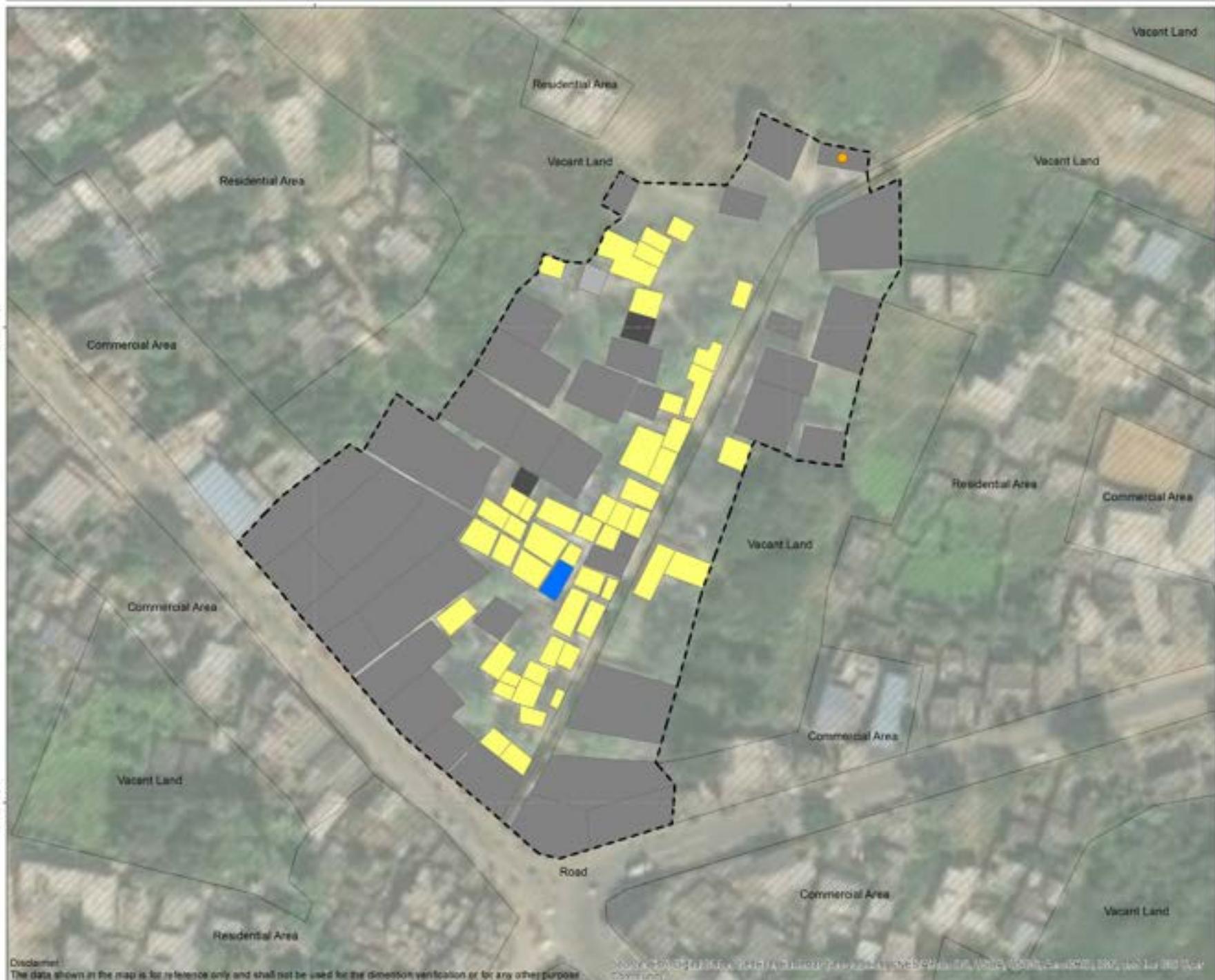
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

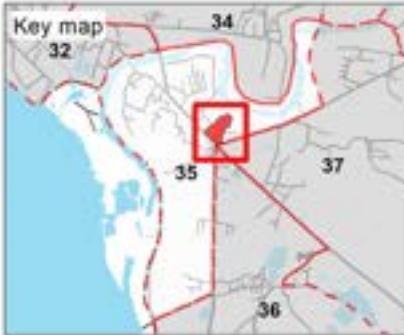
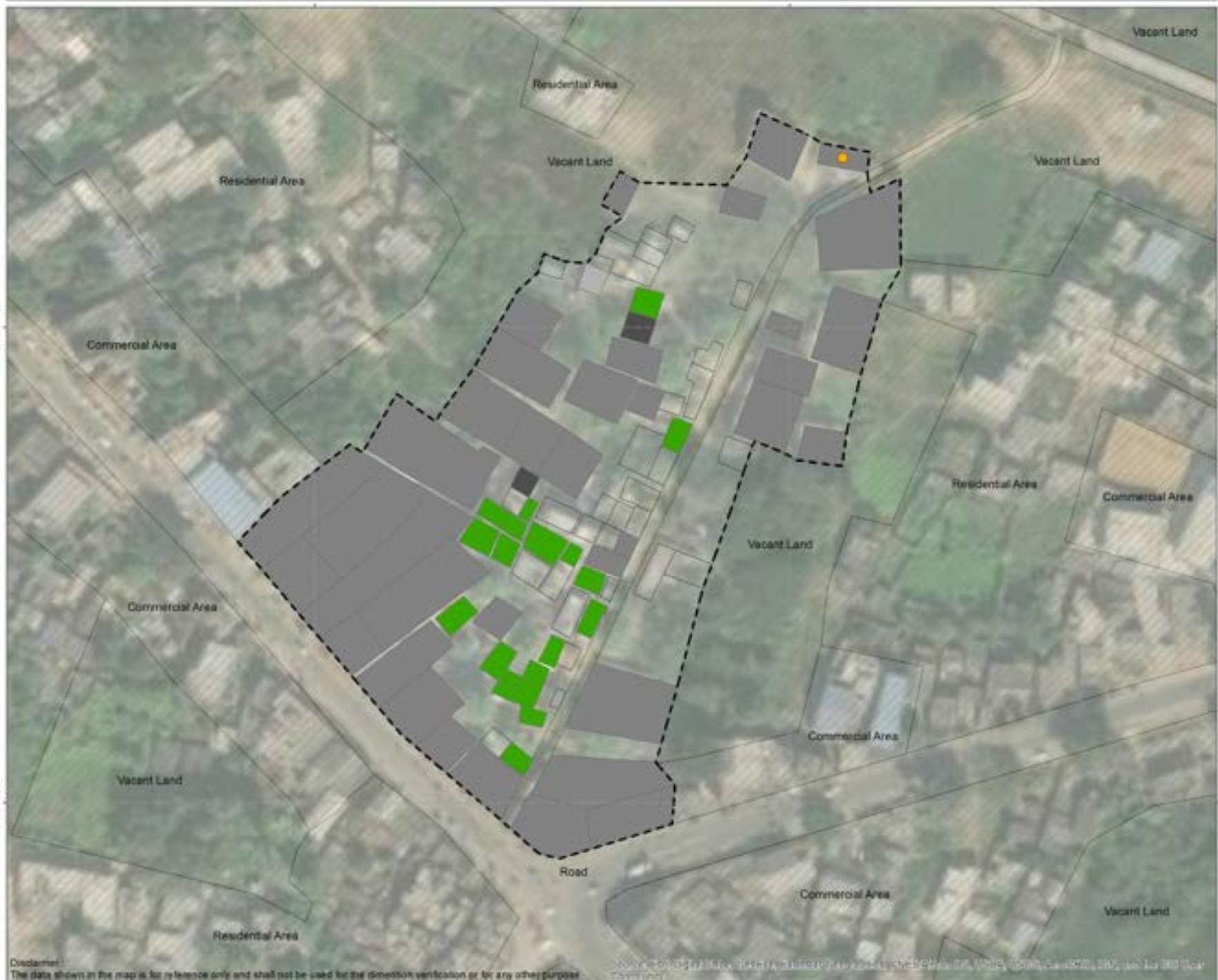
Scale :
0 10 20 40 60 m

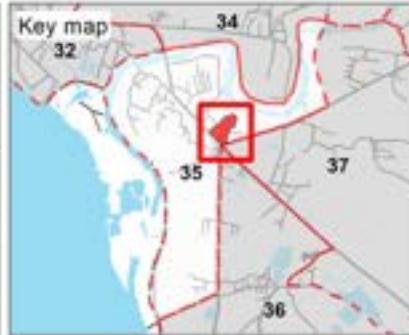
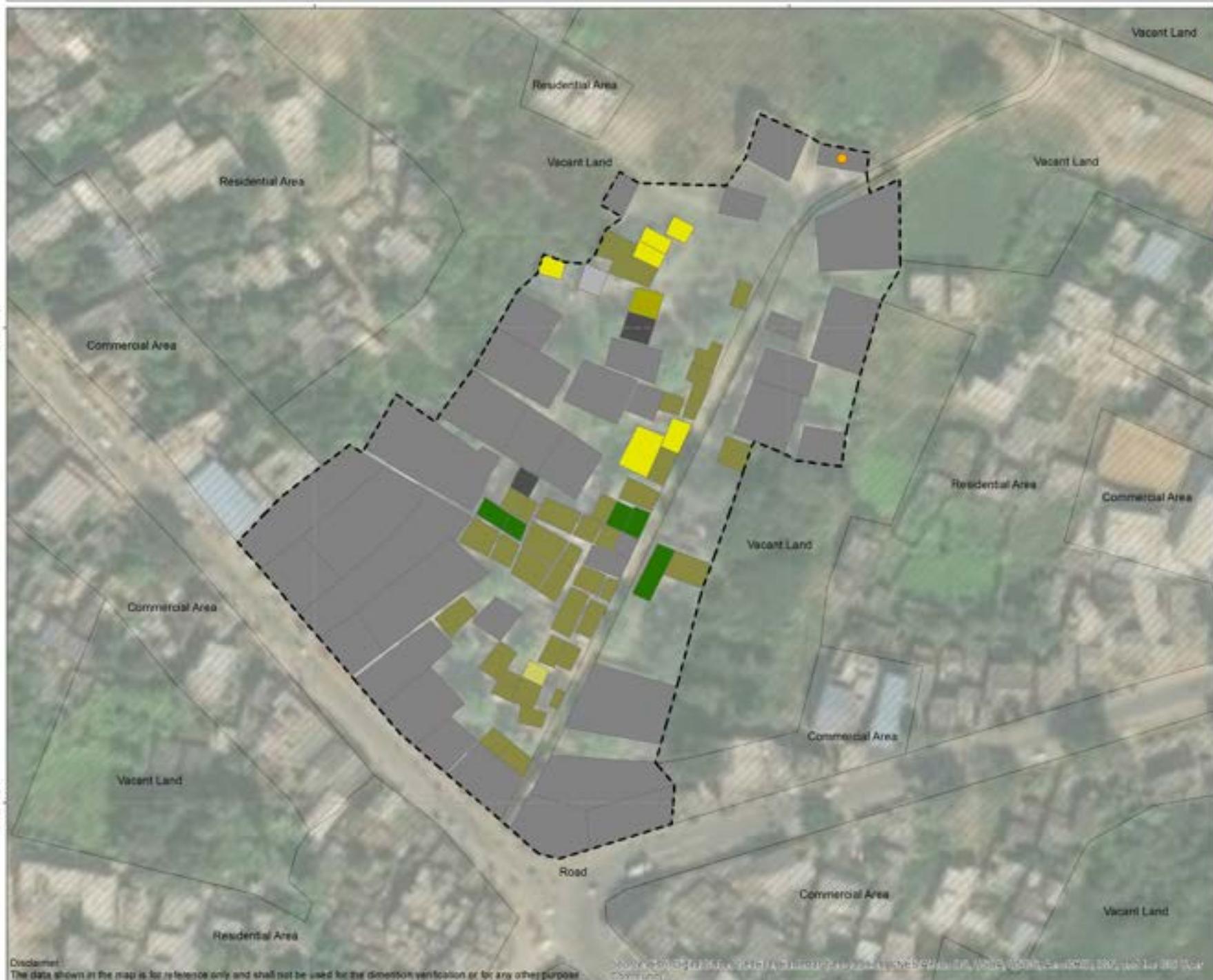
Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

83°59'30"E








Source of water in household

- Tap connection at home
- Stand post
- Stand post & Water tanker (Government)
- Stand post & Hand pump
- Stand post & Fetching water from neighbourhood
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :



0 10 20 40 60 m

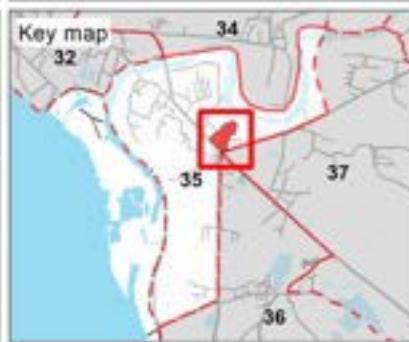
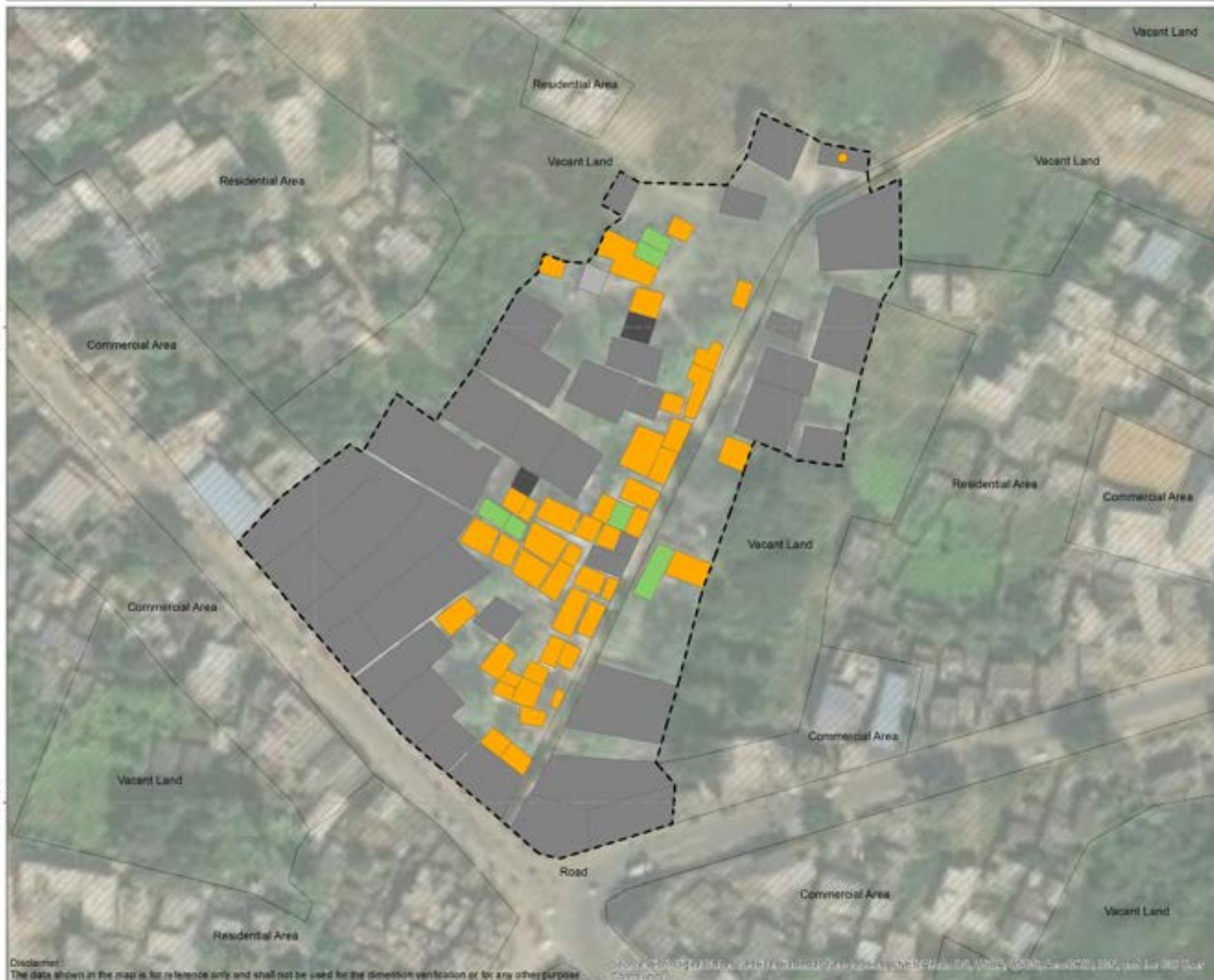
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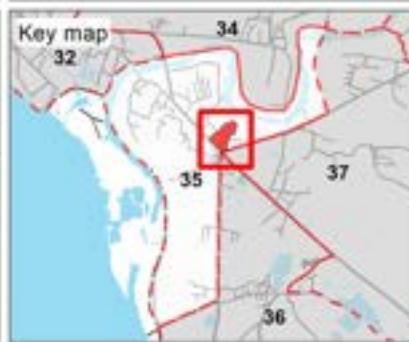
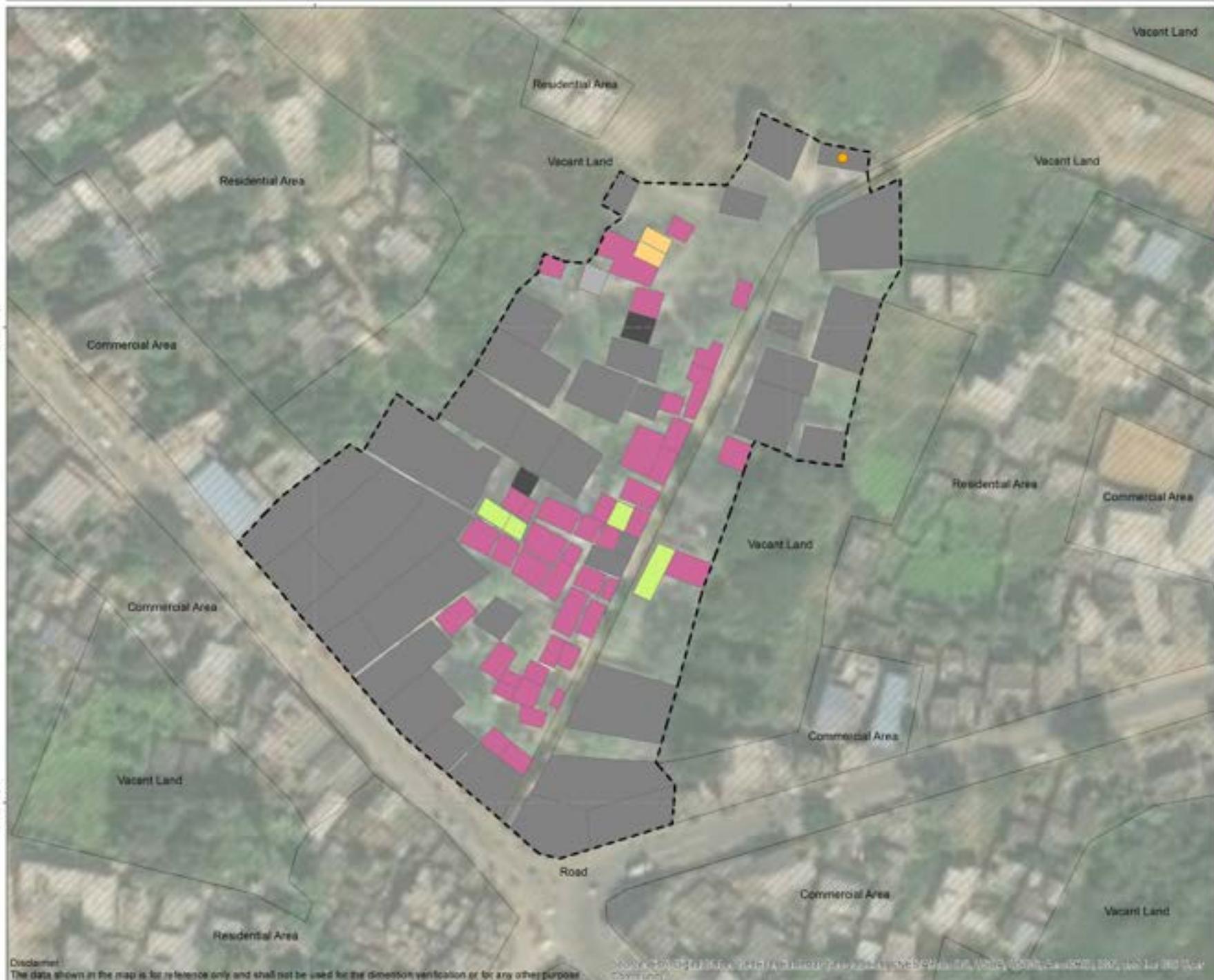
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

83°59'25"E

21°56'51"N





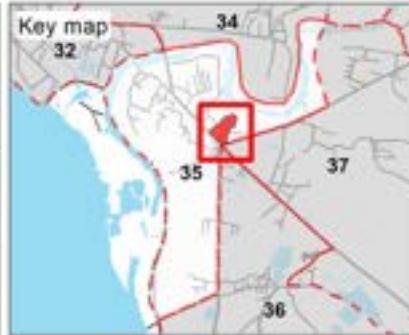
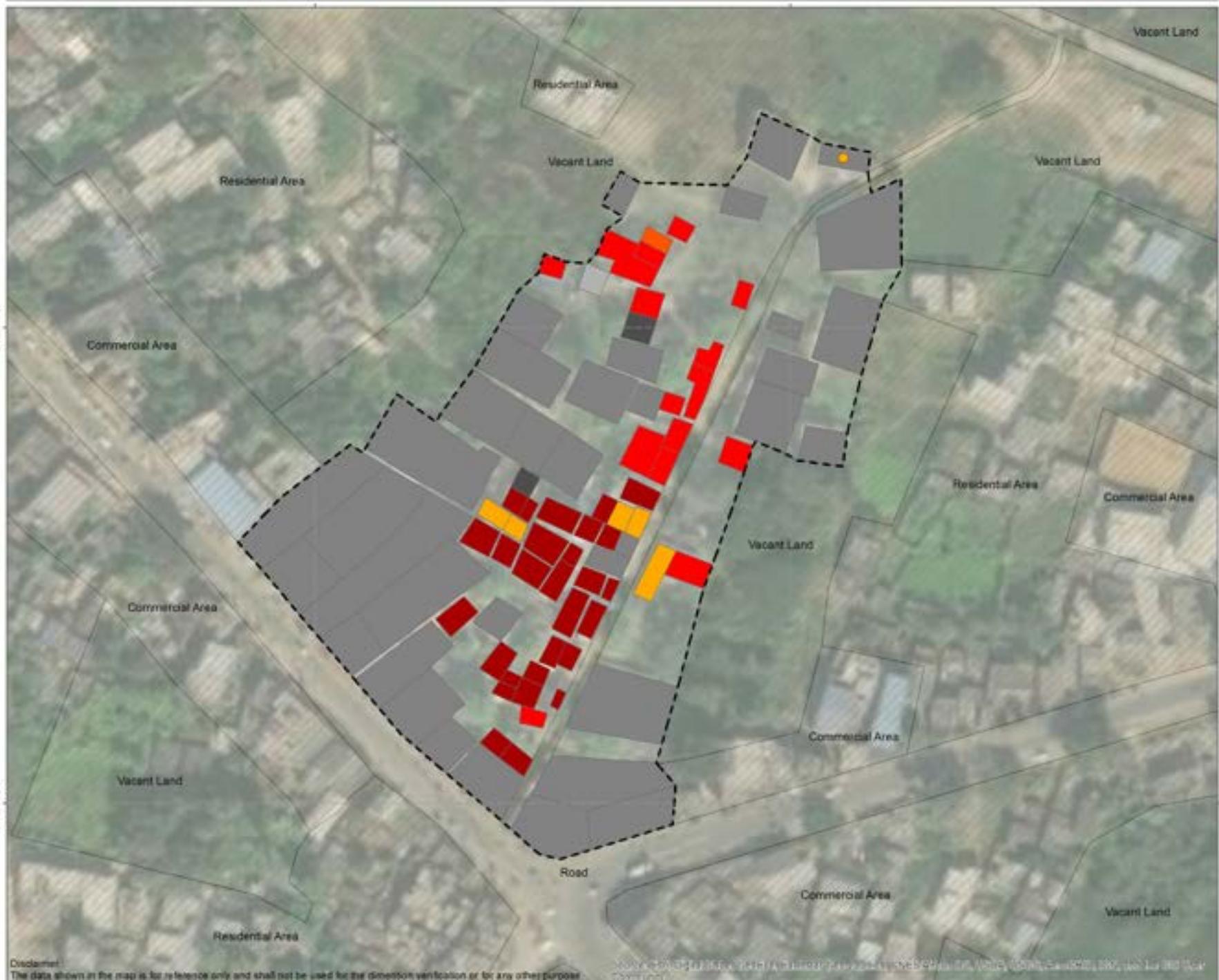

IHHL connected to :

- Soak pit
- Open drain
- No IHHL
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

Source :
 Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.




Turipada (Ward No. 35)



Grey water disposed to :

- [Yellow square] Single pit
- [Red square] Open drain
- [Orange square] Open plot
- [Dark Red square] Water is let out on the street
- [Grey square] No response
- [Light Grey square] Locked house
- [Medium Grey square] Other structures
- [Yellow dot] Functional Community Toilet
- [Dashed black line] Slum boundary

Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

Scale :
0 10 20 40 60 m

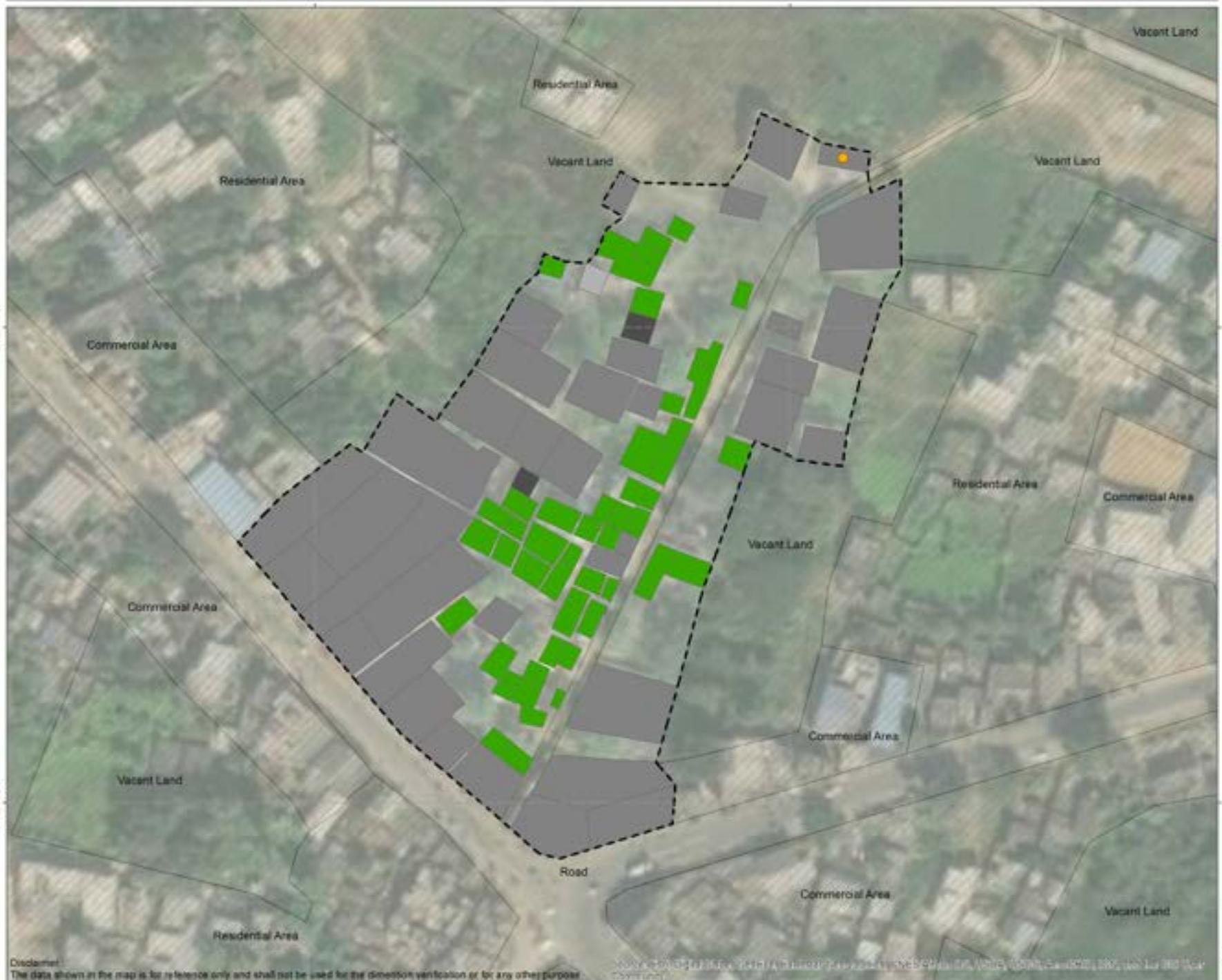
Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source :
Urban Management Centre. (2019). Primary household survey of slums in Sambalpur, Odisha.



83°59'25"E

83°59'30"E



Household disposing solid waste to :

- [Green Box] D to D service
- [Dark Grey Box] No response
- [Light Grey Box] Locked house
- [Medium Grey Box] Other structures
- [Yellow Dot] Functional Community Toilet
- [Dashed Line Box] Slum boundary

Source :
 Urban Management Centre. (2019).
 Primary household survey of slums in
 Sambalpur, Odisha.

Scale :
 0 10 20 40 60 m





Urban Management Centre
A-202, GCP Business Centre
Opposite Memnagar Fire Station
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