



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



Sanitation Mapping

Sambalpur

Volume - IV (Ward -21, 22, 23, 24, 25, 26 & 30)

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 piecemeal 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.



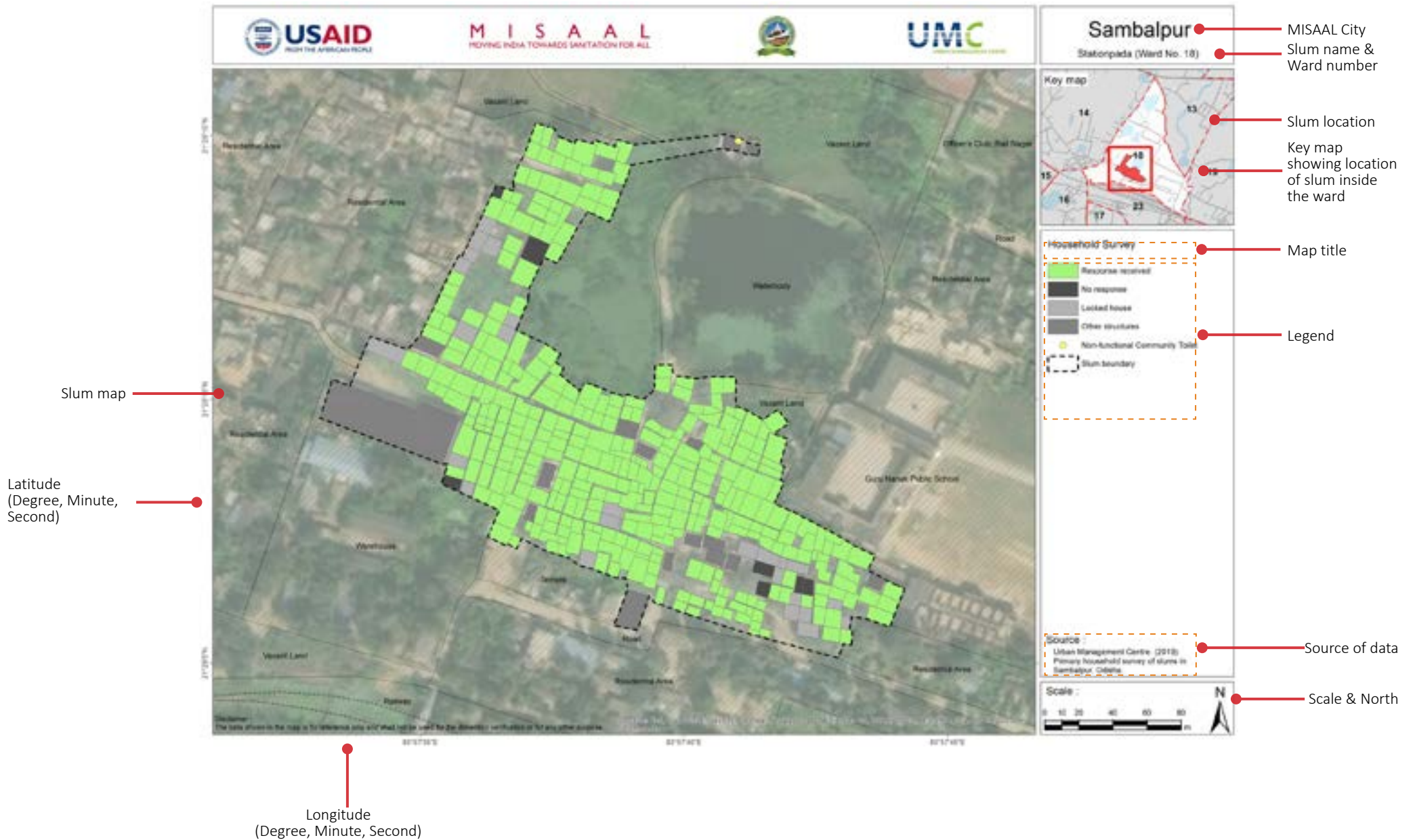
Reading this Slum atlas

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.

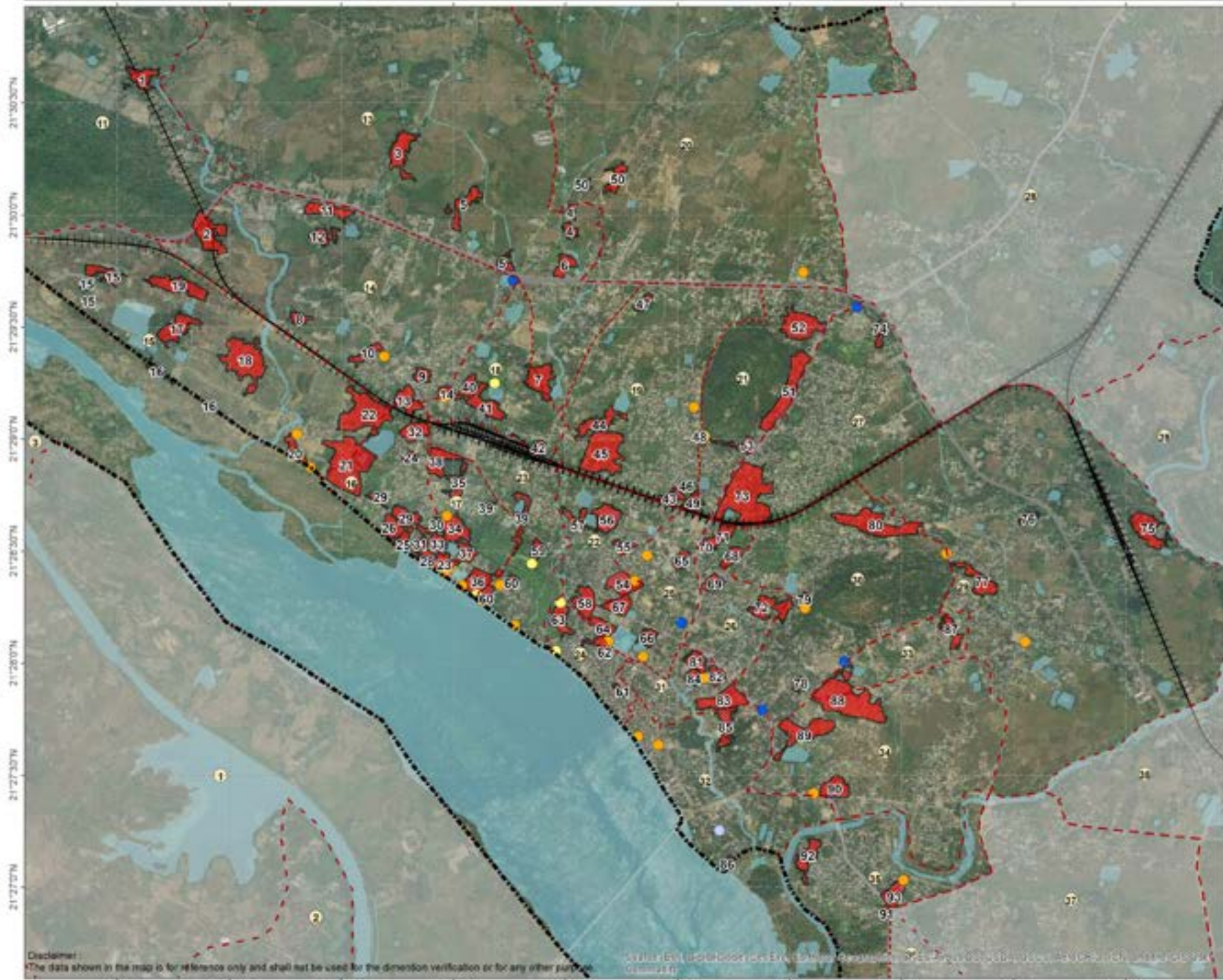
The Sambalpur Municipal Corporation (SMC) is headed by the municipal commissioner and the city administration is efficiently making efforts to improve the living condition and quality of life of people by improving urban basic services to its citizens. SMC has been able to achieve 50% piped water supply 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 % |



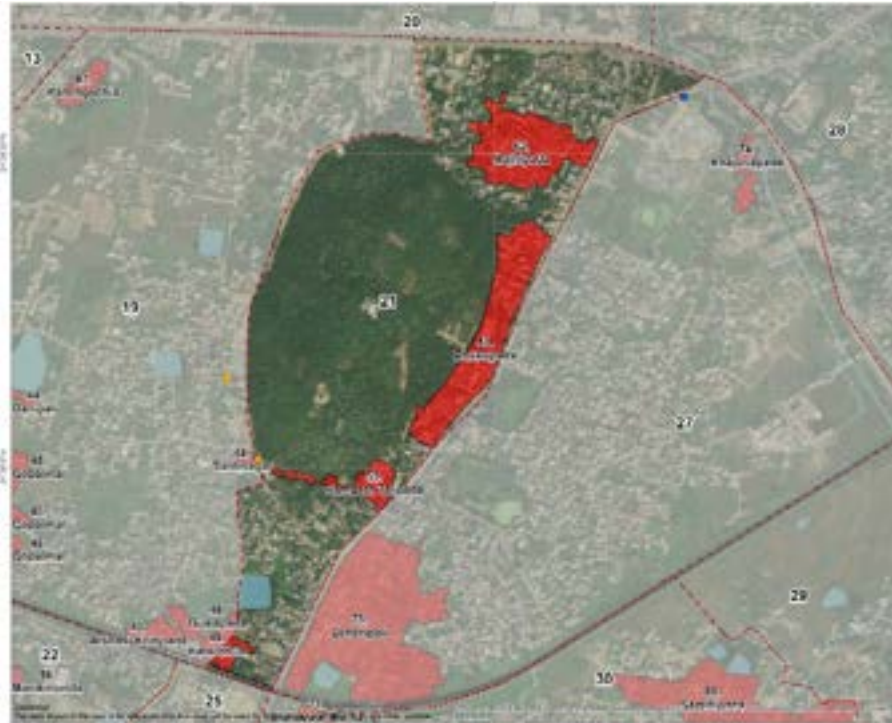
Ward - 21

Sambalpur

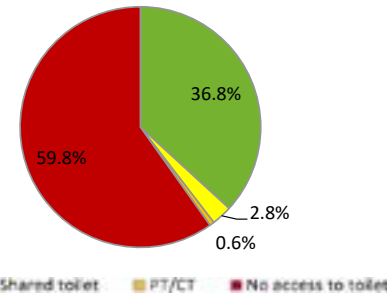
Ward name
21

Number of slums
3

Total number of households in slums
491



2. Access to toilets



Number of HHs having IHHL **120**

% of functional IHHLs **98%**

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

Total number of persons dependent on PT/CTs **43**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

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

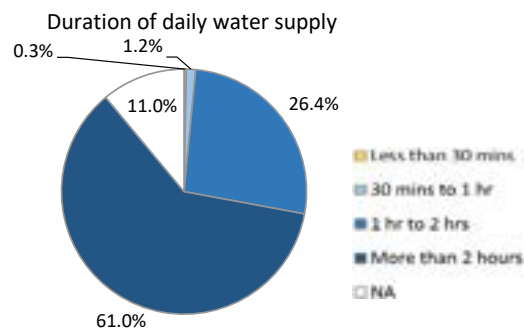
% of IHHLs connected to septic tank/ soak pit/ twin pit **59%**

1. Access to municipal water supply



% of HHs with individual water tap connection **57%**

% of HHs satisfied with the quality of water supplied **99%**



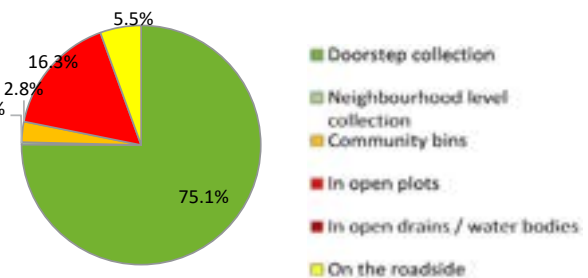
4. Solid waste management system



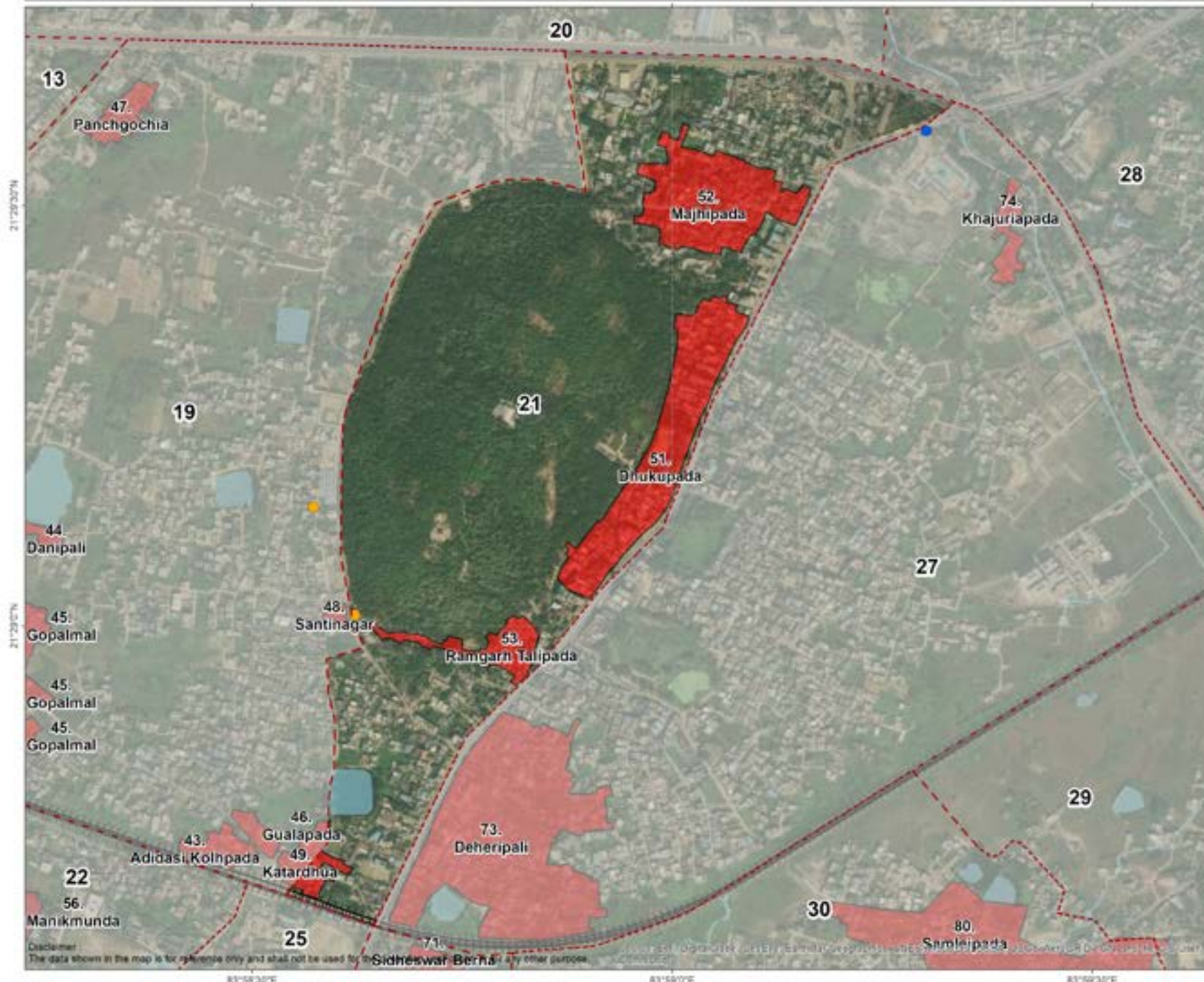
Total waste generation (kg) **414**

% of HHs segregating waste **40%**

Method of HH waste disposal



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



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



21°29'37"N

21°29'07"N

83°58'30"E

83°59'0"E

83°59'30"E

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

51. Dhukupada

Sambalpur

Slum name
DHUKUPADA

Ward
21

Total number of households in the slum
81

Approximate area of the slum
6.6 ha

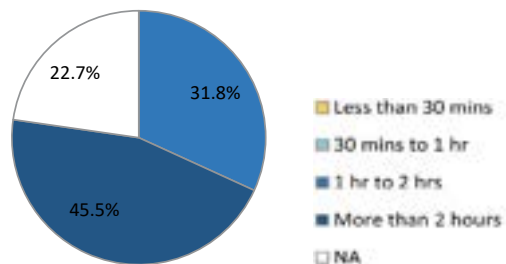


1. Access to municipal water supply

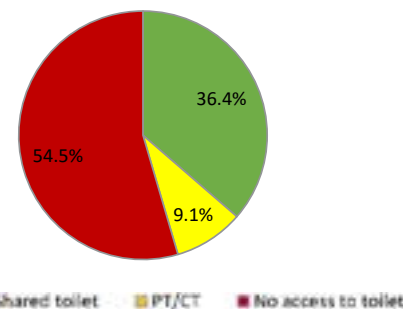
% of HHs with individual water tap connection **55%**

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

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **8**

% 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 HHs connected with safe disposal system for grey water **-**

% of IHHLs connected to septic tank/soak pit/twin pit **88%**

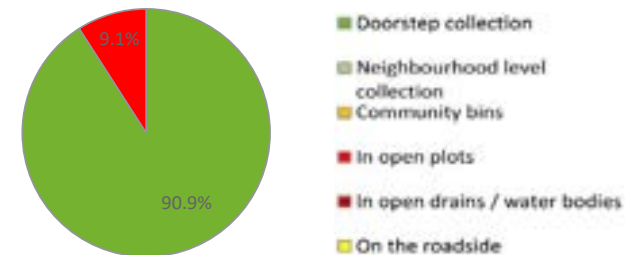
4. Solid waste management system



Total waste generation (kg) **37**

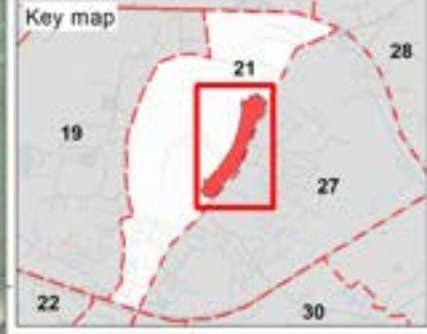
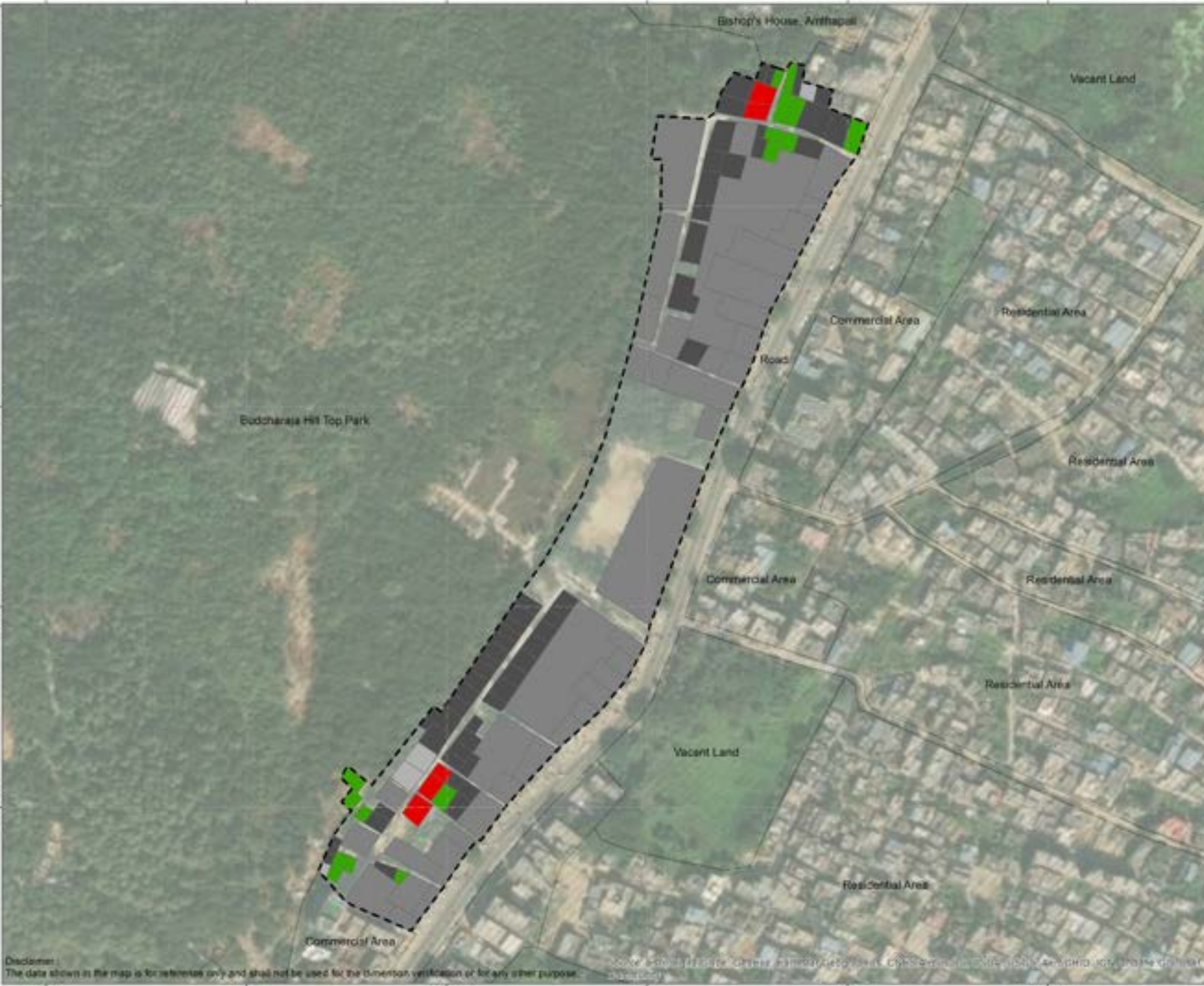
% of HHs segregating waste **-**

Method of HH waste disposal



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

21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



House ownership

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

As per the verbal information provided by the respondents.

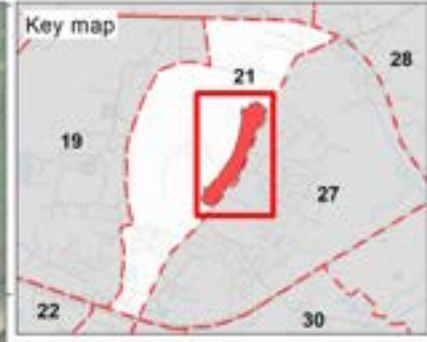
Source :
Urban Management Centre. (2019).
Primary household survey of slums in Sambalpur, Odisha.



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°58'50"E 83°58'55"E 83°59'0"E 83°59'5"E 83°59'10"E

21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



Number of floors in the building

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

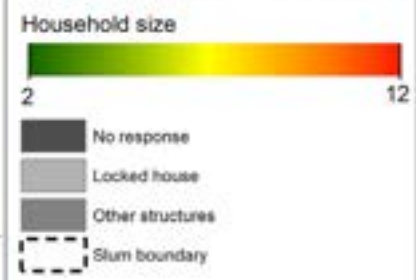
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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



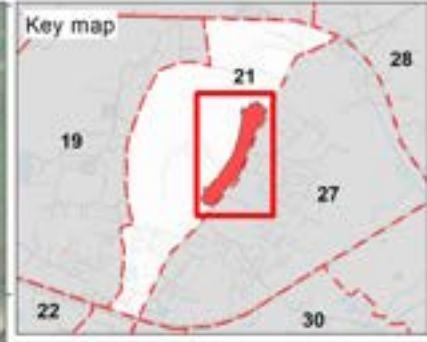
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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



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.



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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



Household with PWD*

- Yes
 - No
 - No response
 - Locked house
 - Other structures
 - Slum boundary
- * Person with Disabilities

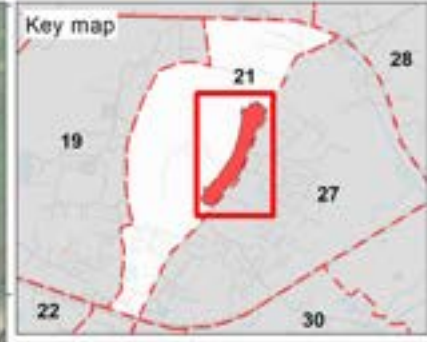
Source :
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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



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.

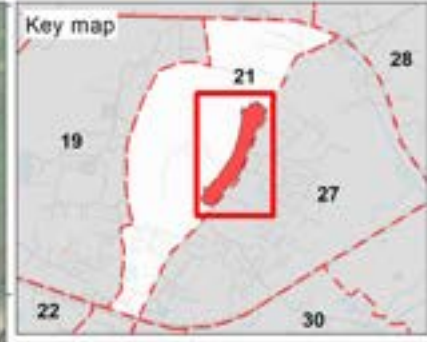


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21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N

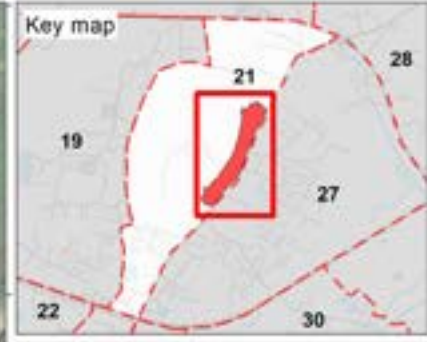


Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



Functionality of IHHL

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

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



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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



IHHL connected to :

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

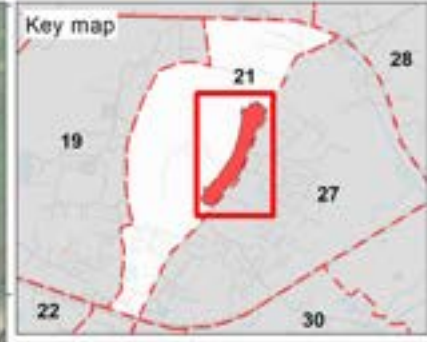
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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



Grey water disposed to :

- Open drain
- No response
- Locked house
- Other structures
- Slum boundary

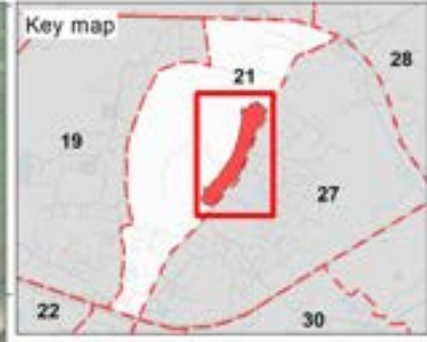
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21°29'25"N
21°29'20"N
21°29'15"N
21°29'10"N
21°29'05"N



- Household disposing solid waste to :
- D to D service
 - In open plot & On road side
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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



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 : <https://www.csis.org/press-releases/2019/06/14/190614-usaid-odisha-slum-survey>

83°58'45"E 83°58'50"E 83°58'55"E 83°59'0"E 83°59'5"E 83°59'10"E

52. Majhipada

Sambalpur

Slum name
MAHJHIPADA

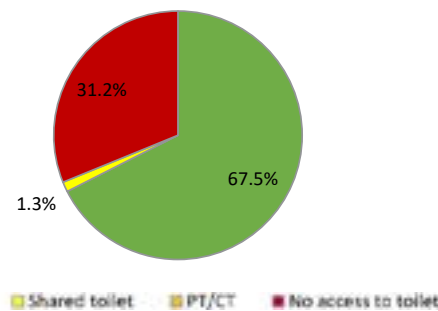
Ward
21

Total number of households in the slum
183

Approximate area of the slum
5.6 ha



2. Access to toilets



Number of HHs having IHHL **52**

% of functional IHHLs **98%**

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 HHs connected with safe disposal system for grey water **-**

% of IHHLs connected to septic tank/soak pit/twin pit **37%**

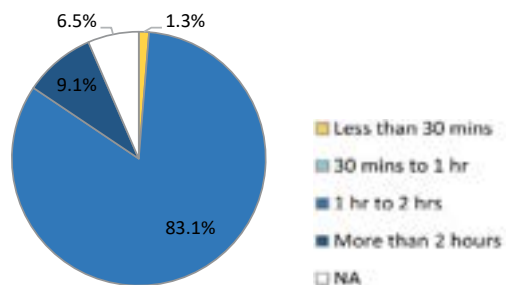
1. Access to municipal water supply



% of HHs with individual water tap connection **88%**

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

Duration of daily water supply



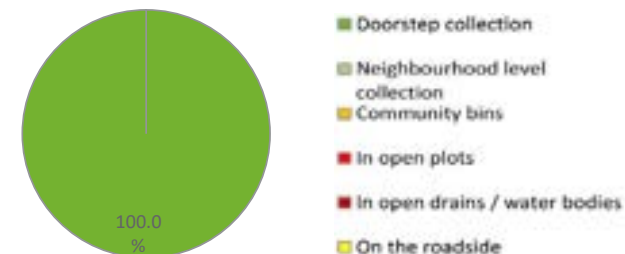
4. Solid waste management system



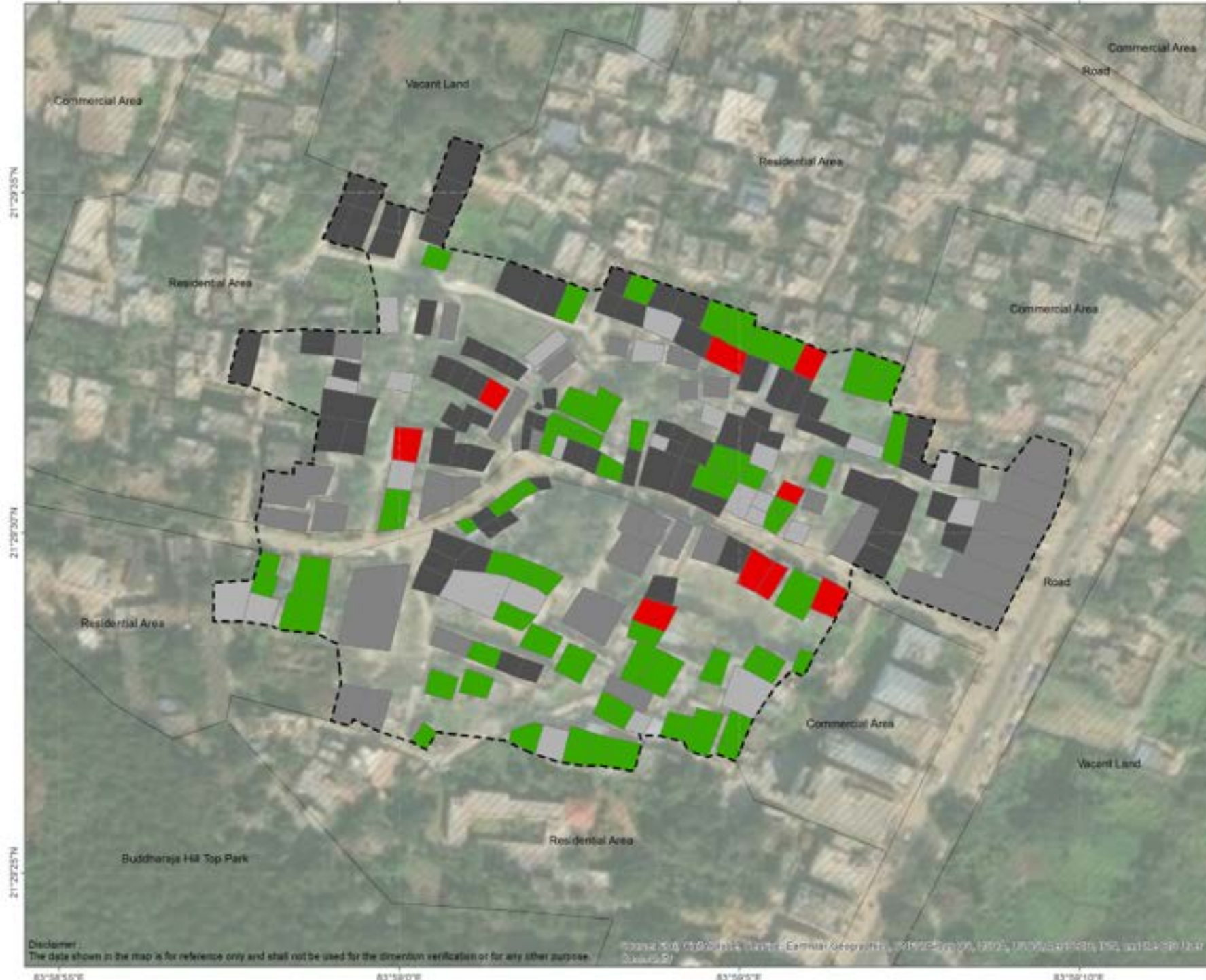
Total waste generation (kg) **87**

% of HHs segregating waste **97%**

Method of HH waste disposal



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

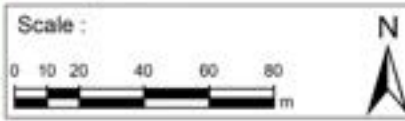


House ownership

- 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.

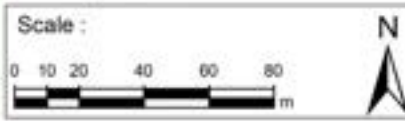




Number of floors in the building

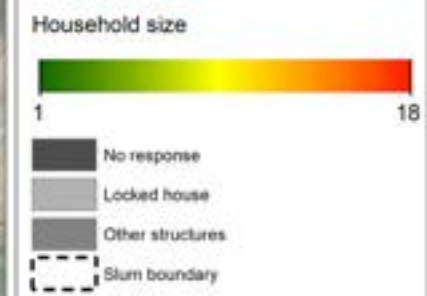
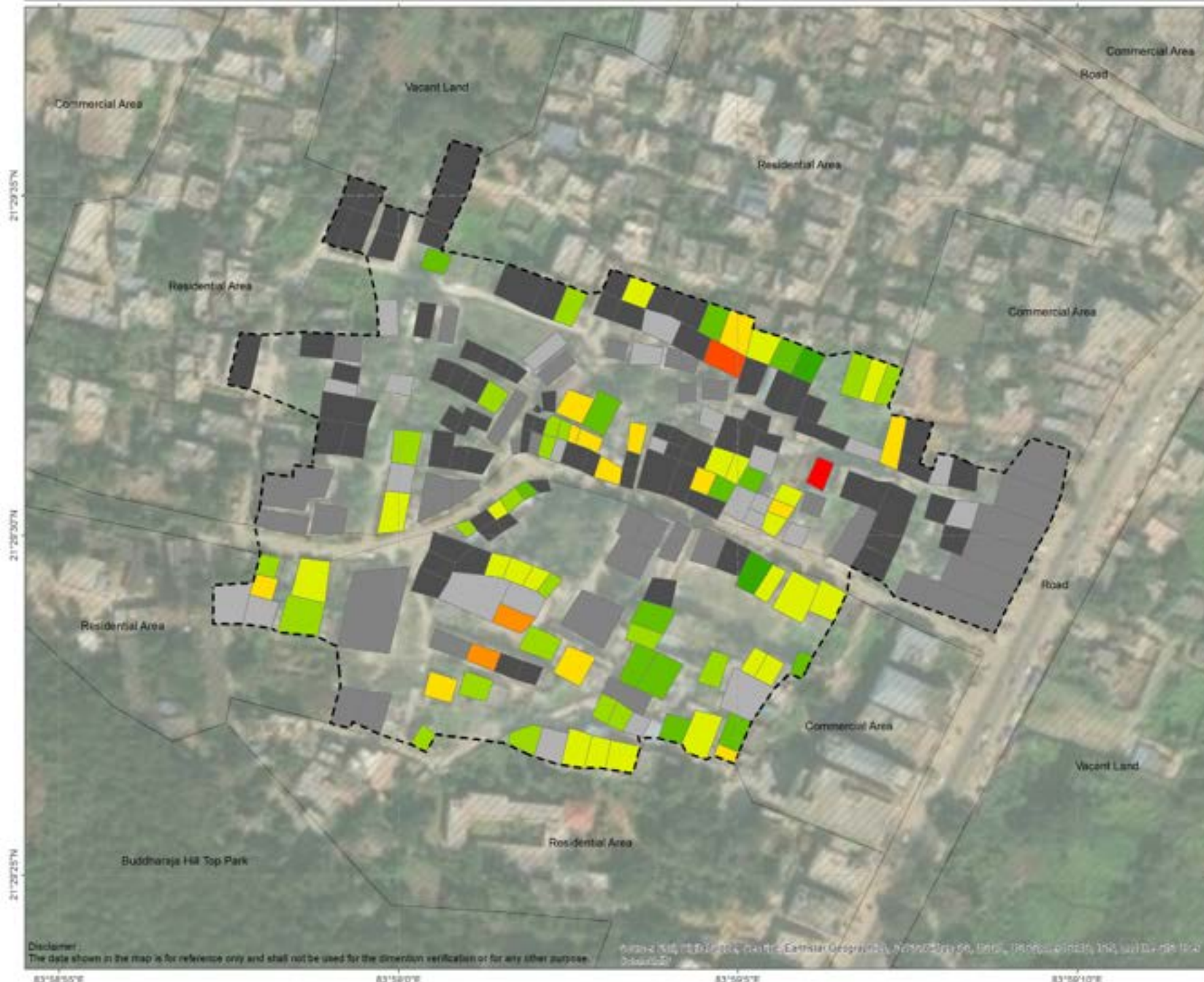
- Ground floor
- Ground floor + 1
- Ground floor + 2
- No response
- Locked house
- Other structures
- Slum boundary

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

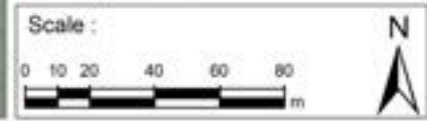


Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: Map of Odisha, India - Earthranger Geographics, 2016, OpenStreetMap contributors, Imagery © Mapbox, Imagery © OpenStreetMap contributors, Imagery © Mapbox

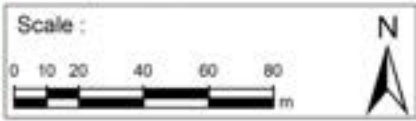


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.





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





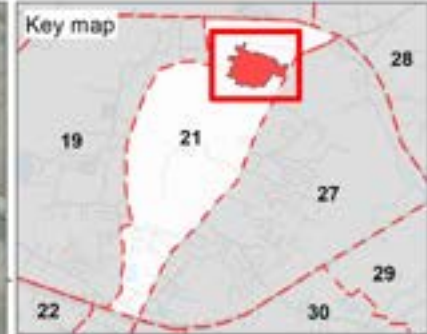
Household with PWD*

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

* Person with Disabilities

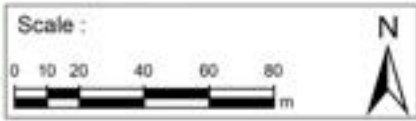
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





- Source of water in household**
- Tap connection at home
 - Tap connection at home & Water tanker (Government)
 - Hand pump
 - Fetching water from neighbourhood
 - Nearby water bodies
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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

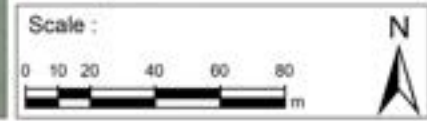




Functionality of IHHL

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

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





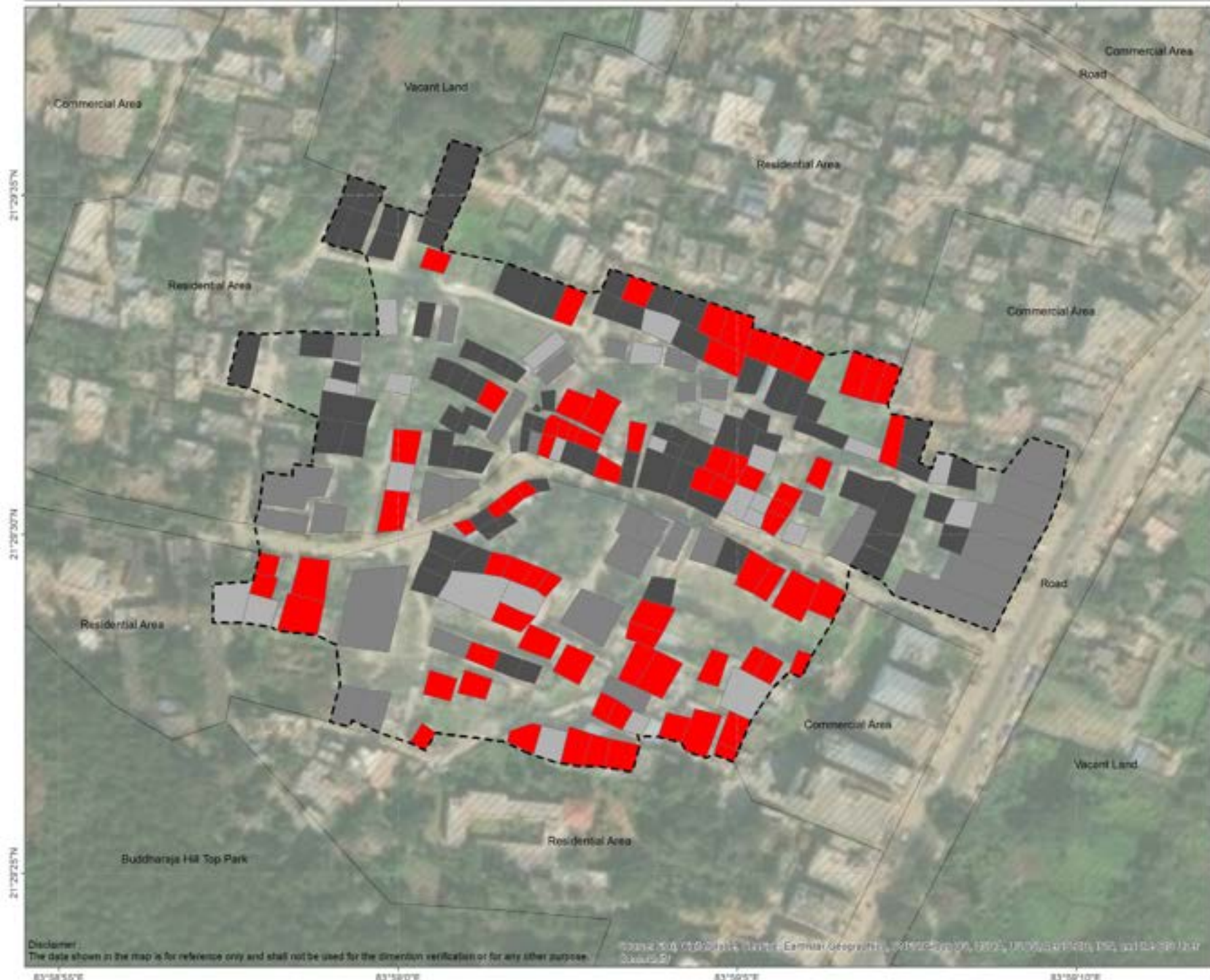
IHHL connected to :

- Septic tank
- Twin pit
- Soak pit
- Open drain
- 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.



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.



Grey water disposed to :

- Open drain
- No response
- Locked house
- Other structures
- Slum boundary

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



53. Ramgarh Talipada

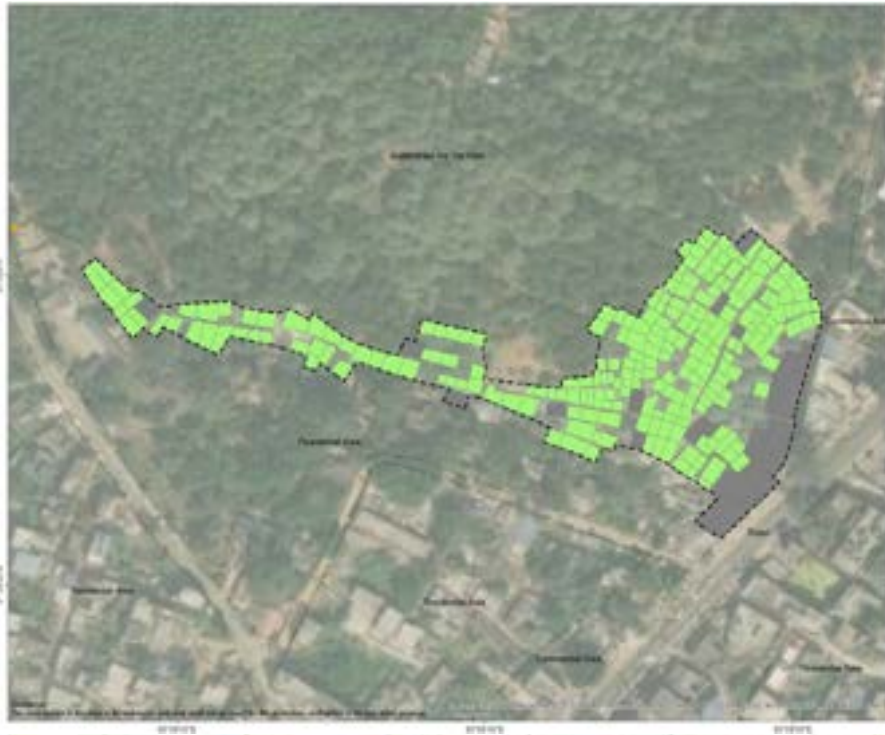
Sambalpur

Slum name
RAMGARH

Ward
21

Total number of households in the slum
227

Approximate area of the slum
1.5 ha



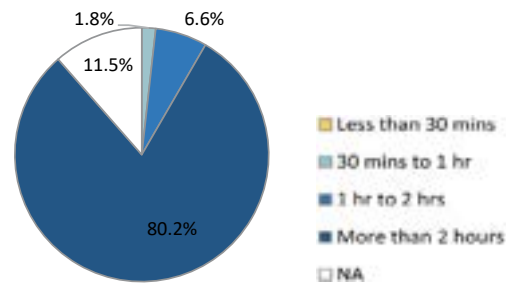
1. Access to municipal water supply



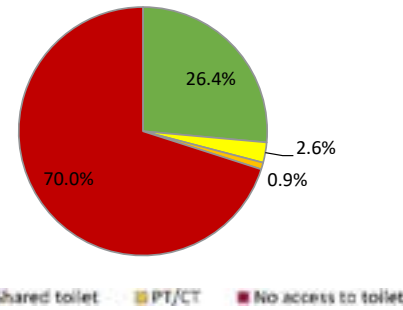
% of HHs with individual water tap connection **47%**

% of HHs satisfied with the quality of water supplied **99%**

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **60**

% of functional IHHLs **98%**

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

Total number of persons dependent on PT/CTs **43**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

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

% of IHHLs connected to septic tank/soak pit/twin pit **75%**

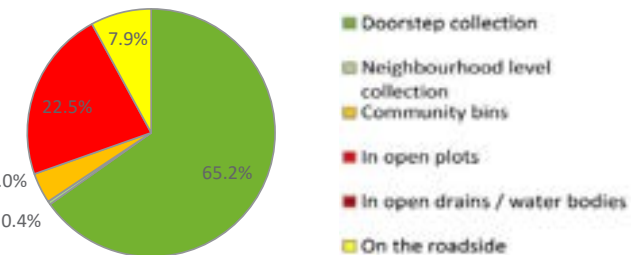
4. Solid waste management system



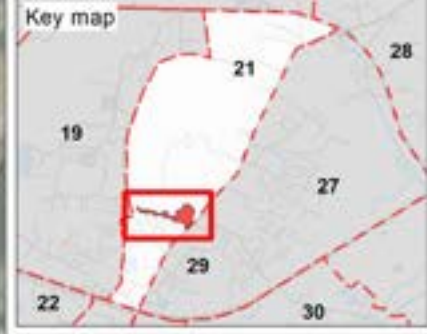
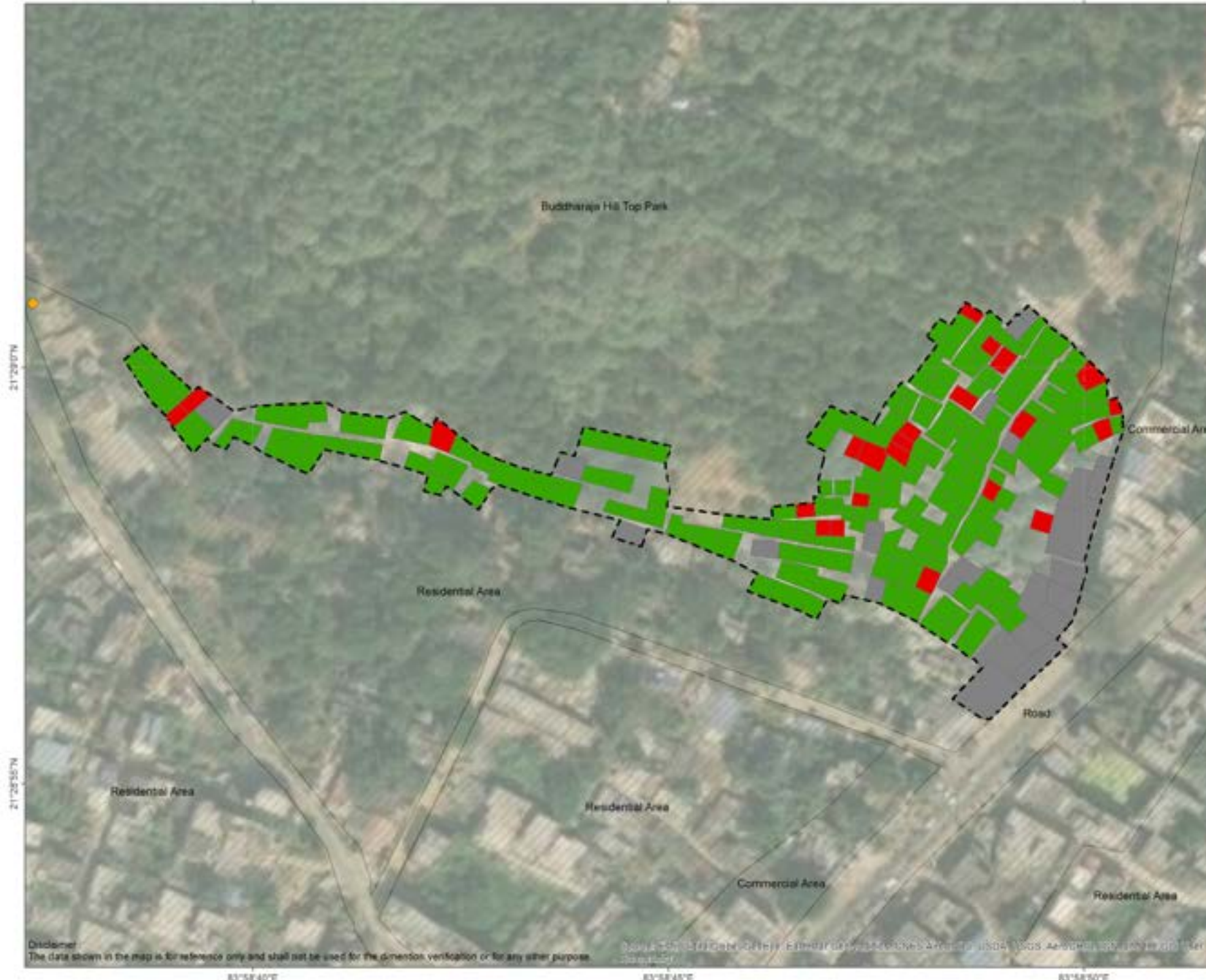
Total waste generation (kg) **290**

% of HHs segregating waste **25%**

Method of HH waste disposal



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

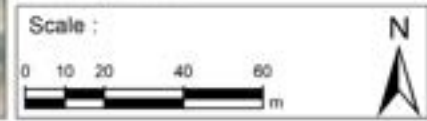


House ownership

- Owned
- Rented
- 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.

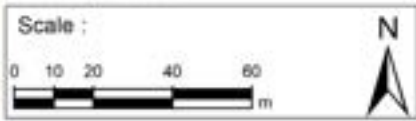


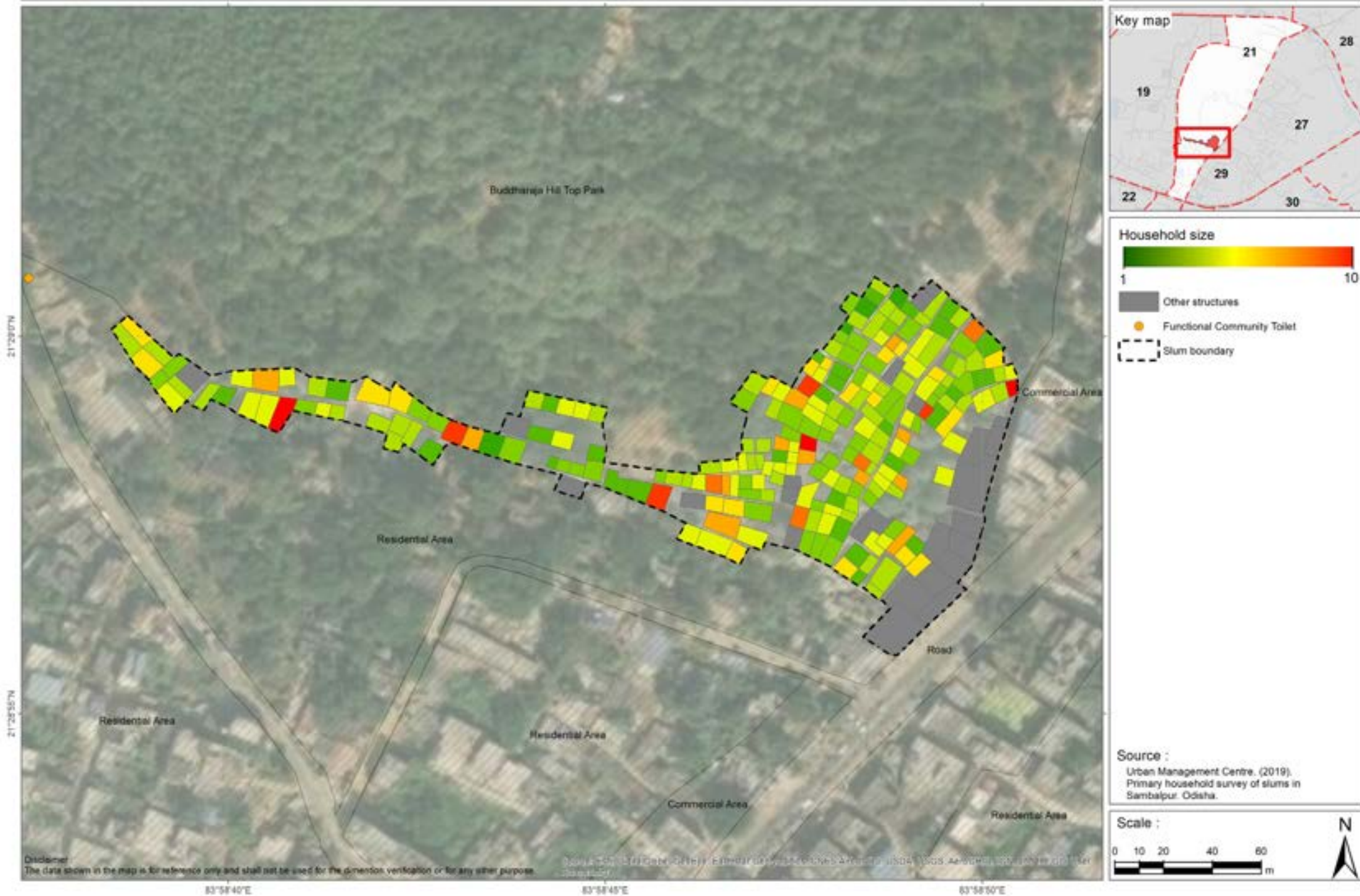


Number of floors in the building

- Ground floor
- Ground floor + 1
- Ground floor + 2
- Other structures
- Functional Community Toilet
- Slum boundary

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



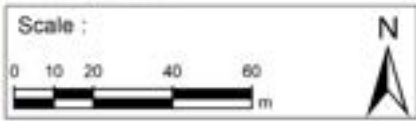


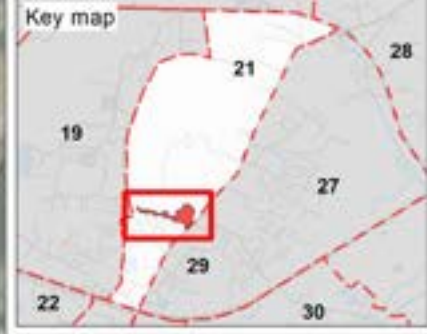
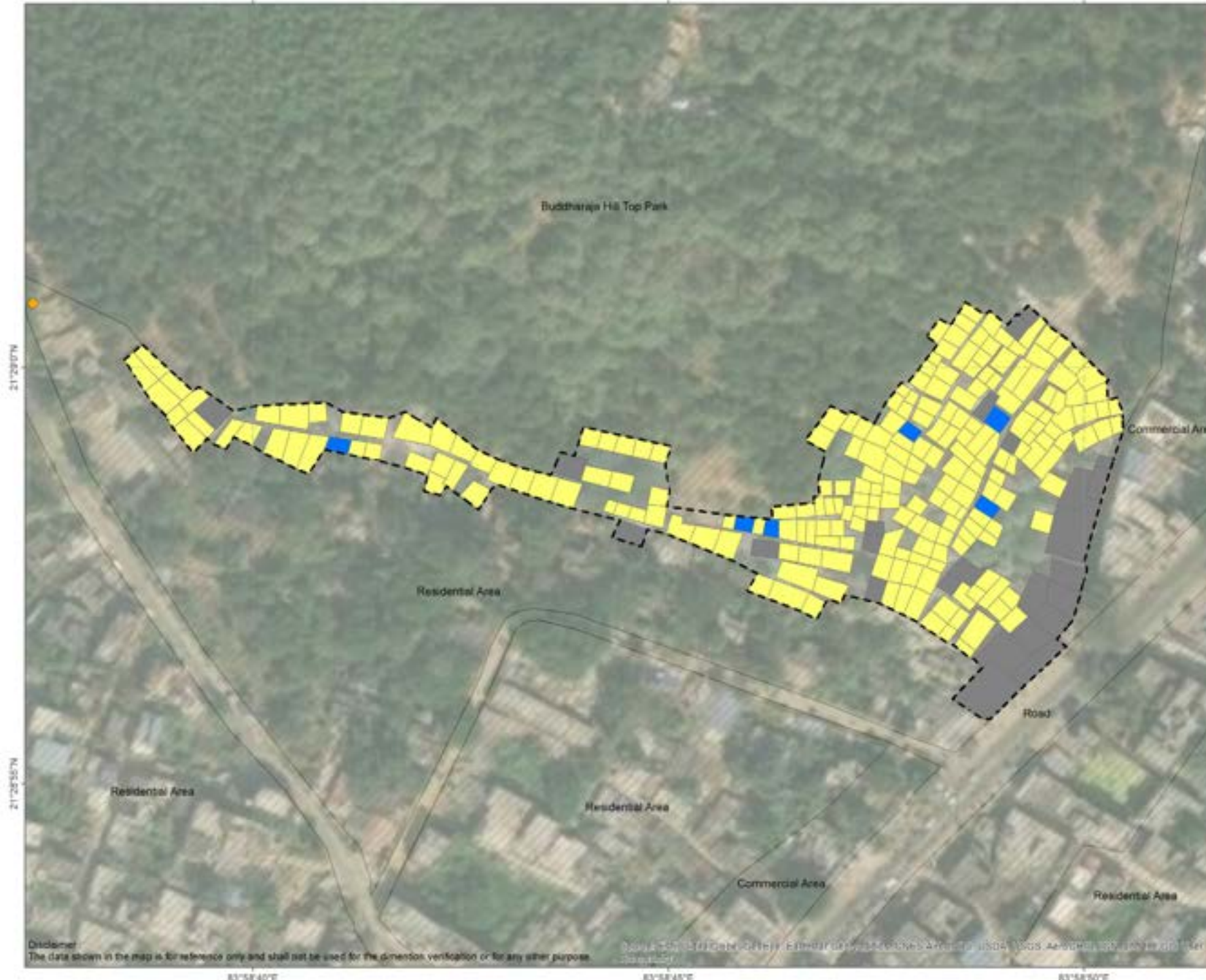


Elderly citizen

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

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



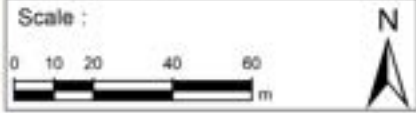


Household with PWD*

- 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.

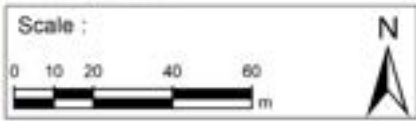




Household part of SHG

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

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

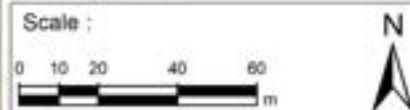


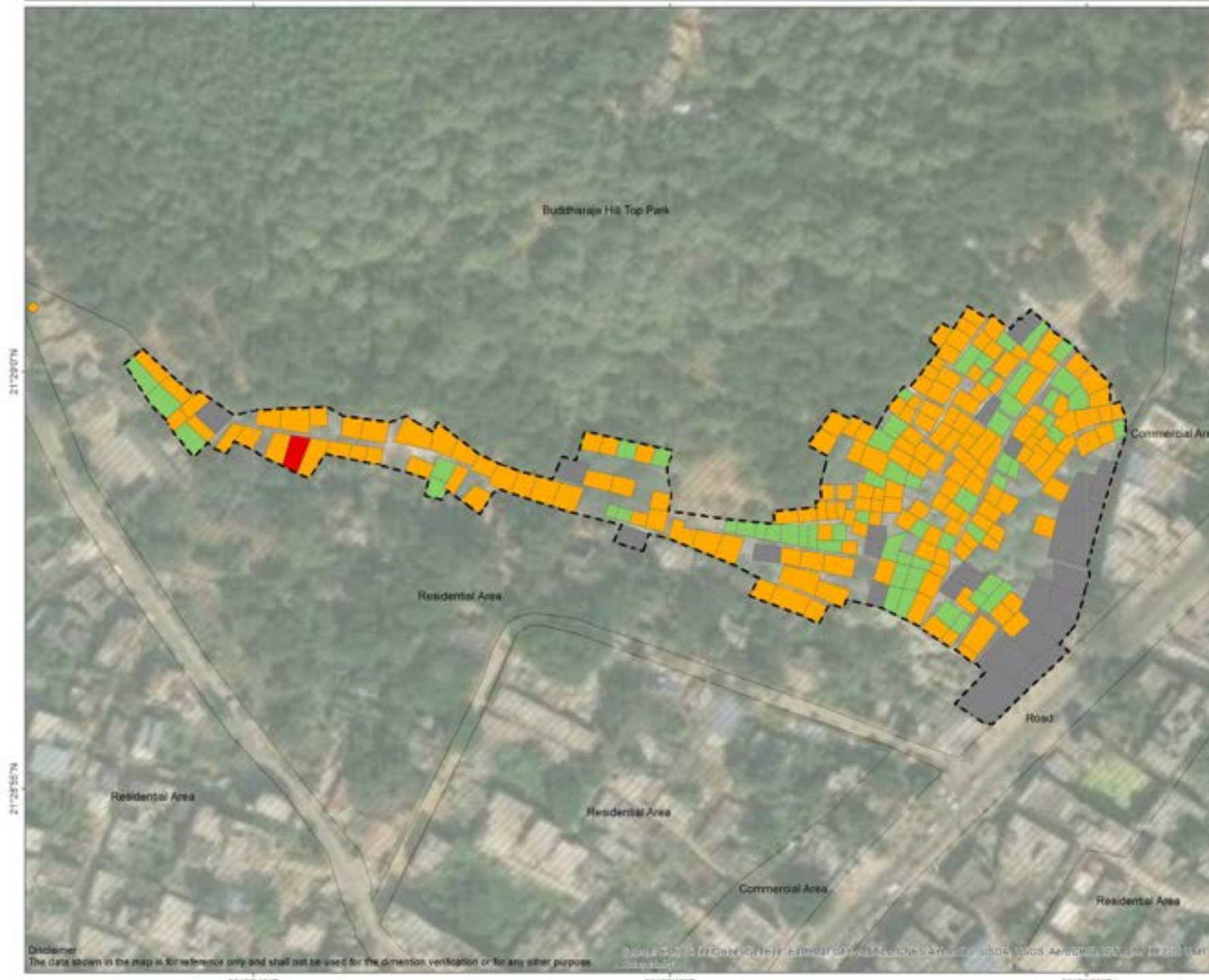


Source of water in household



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

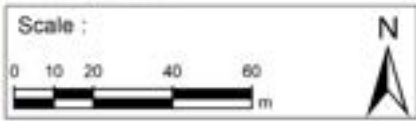


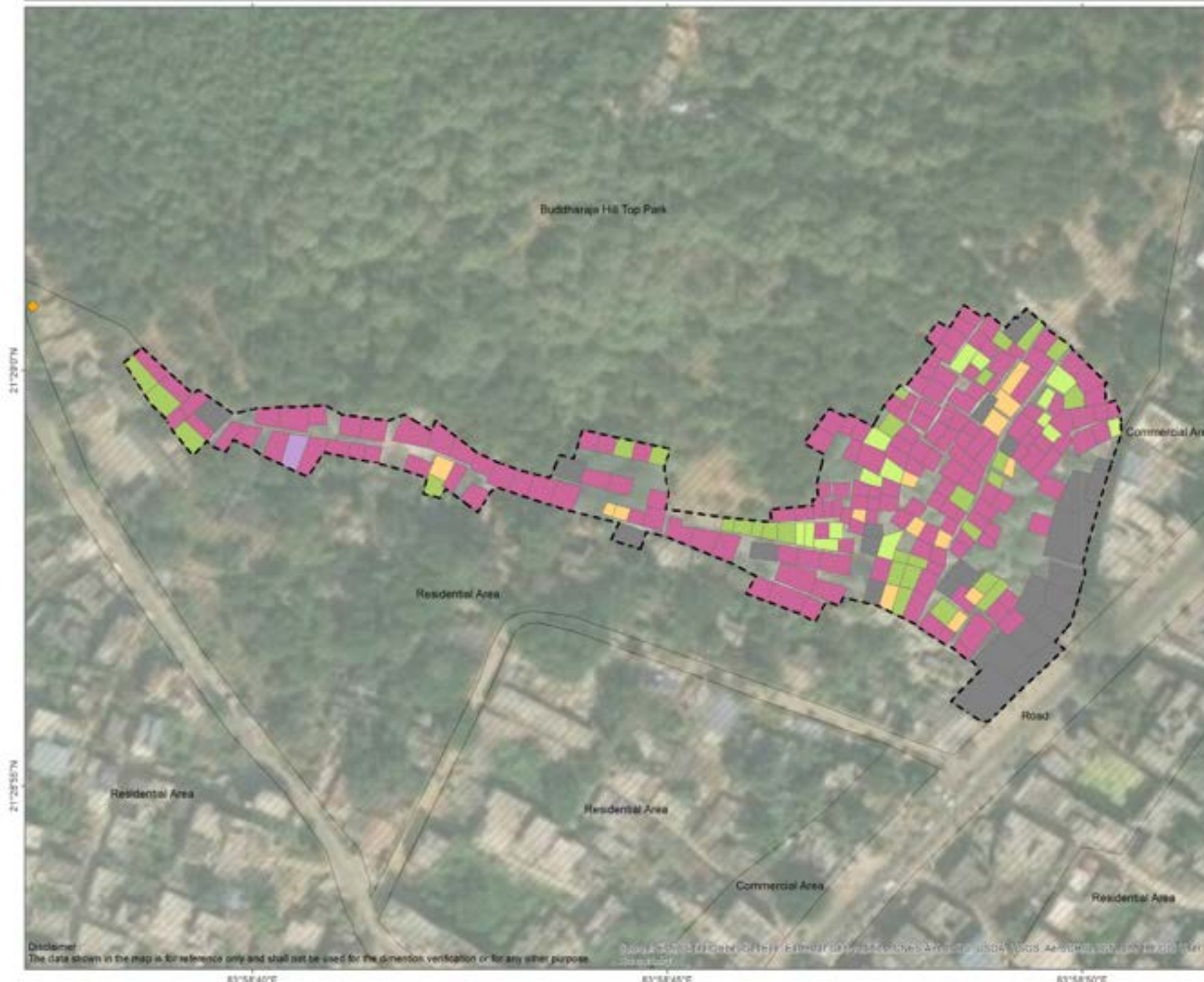


Functionality of IHHL

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

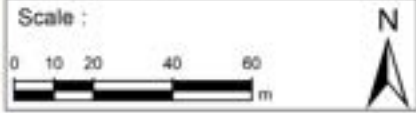
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

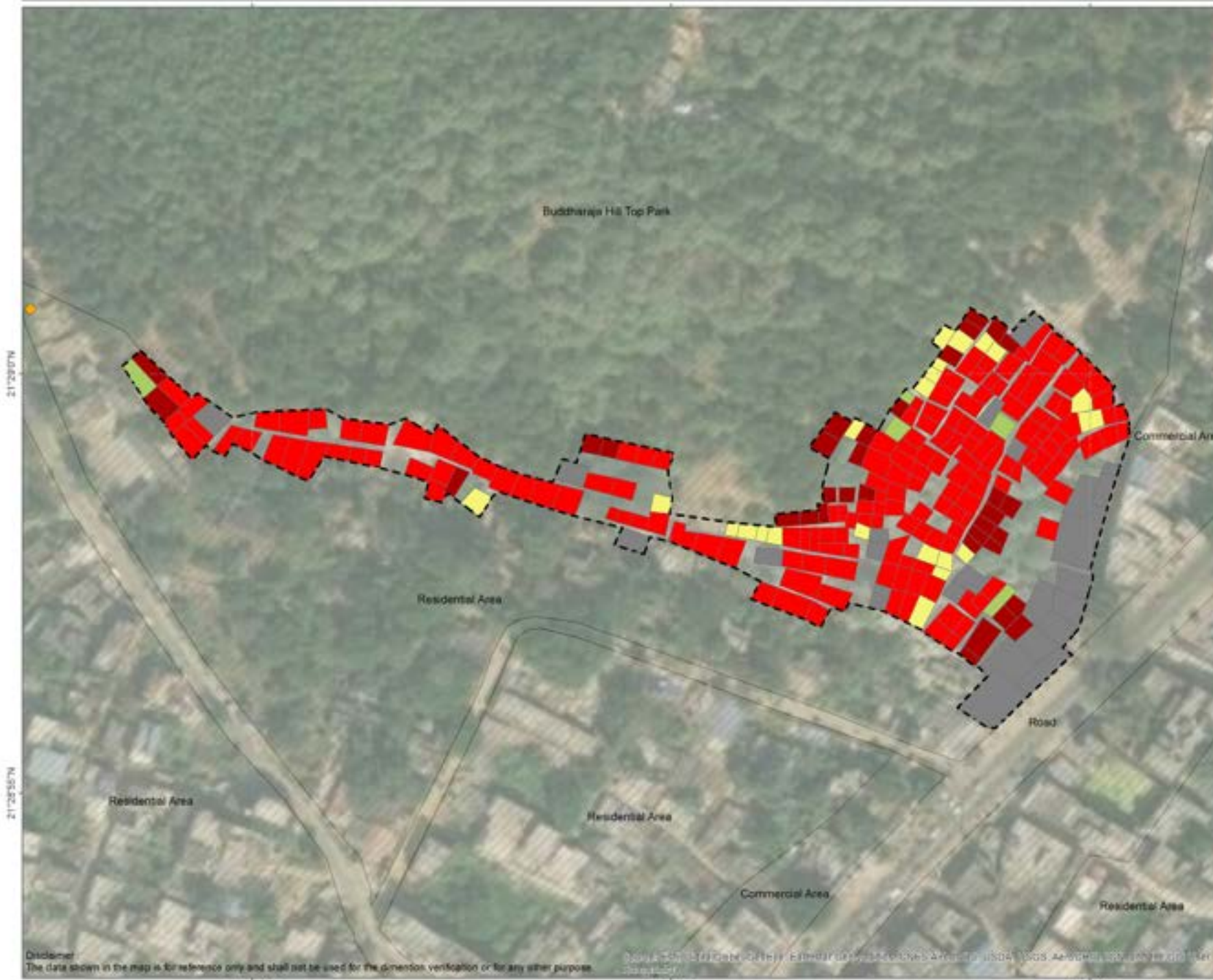




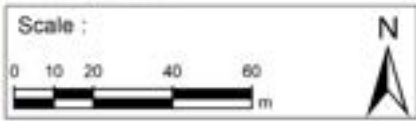
- IHHL connected to :**
- Septic tank
 - Soak pit
 - Open drain
 - Non-Functional IHHL
 - No IHHL
 - Other structures
 - Functional Community Toilet
 - Slum boundary

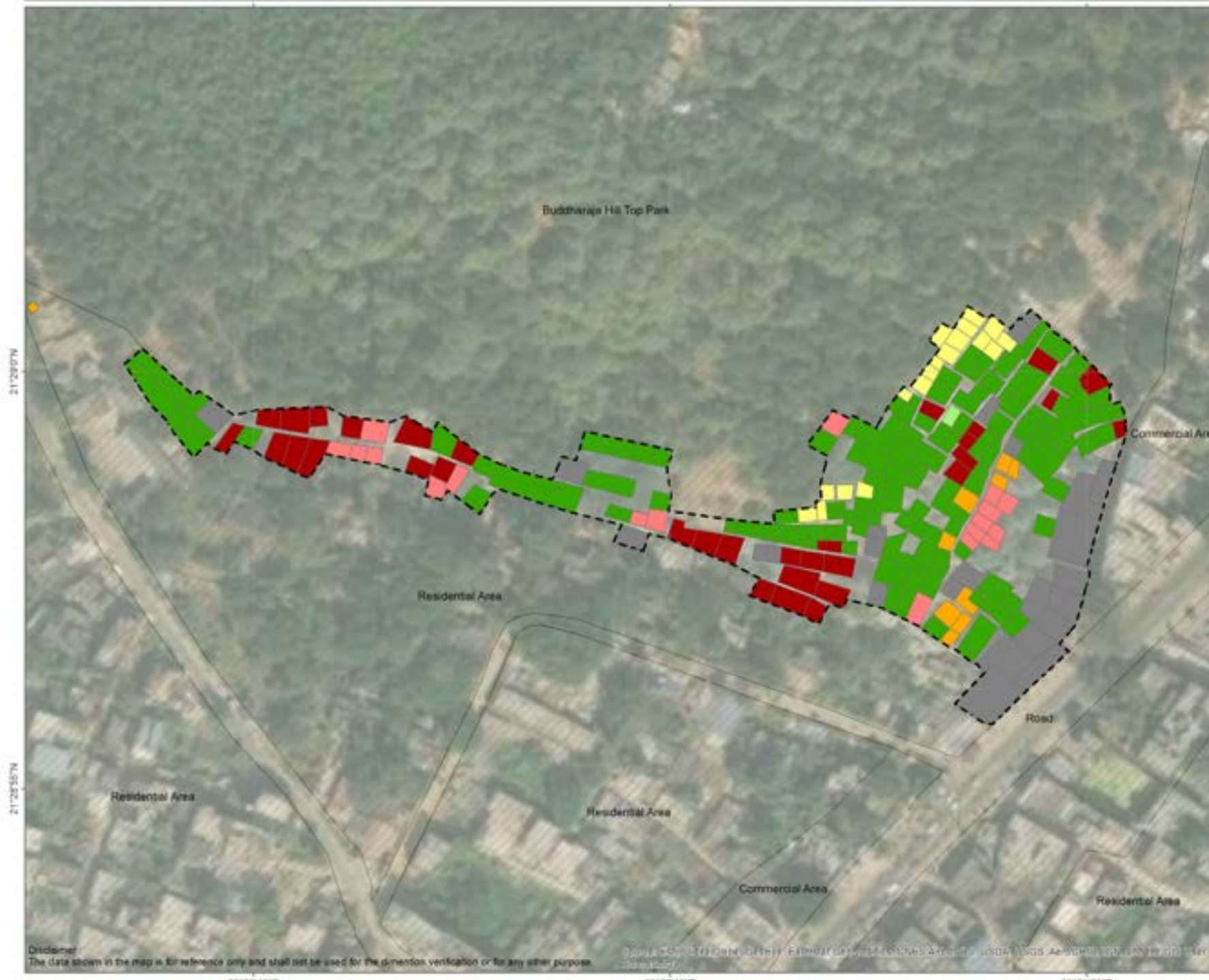
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





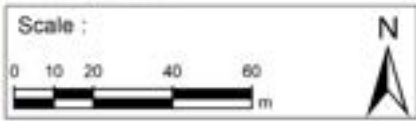
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





- Household disposing solid waste to :
- D to D service
 - Handover to municipal waste collector
 - Road side dustbin
 - On road side
 - In open plot & On road side
 - In open plot
 - Other structures
 - Functional Community Toilet
 - Slum boundary

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



Ward - 22

Sambalpur

Ward name

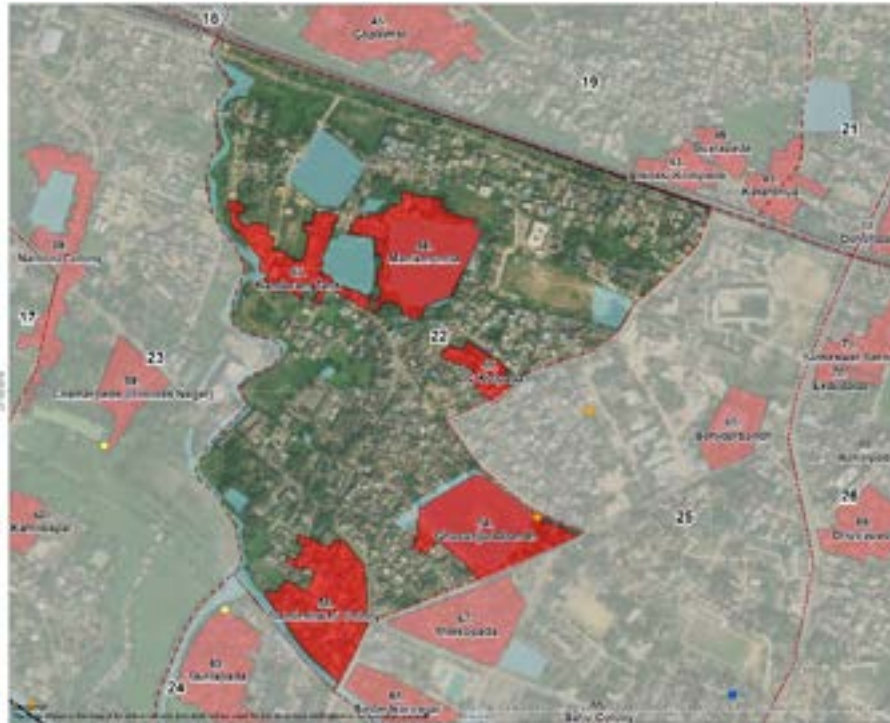
22

Number of slums

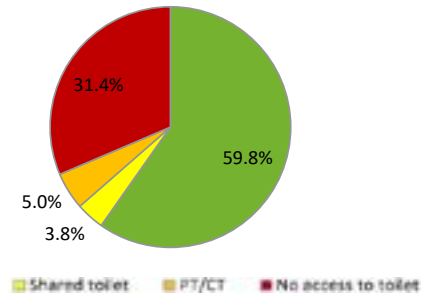
5

Total number of households in slums

483



2. Access to toilets



Number of HHs having IHHL **251**

% of functional IHHLs **98%**

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

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

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers

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

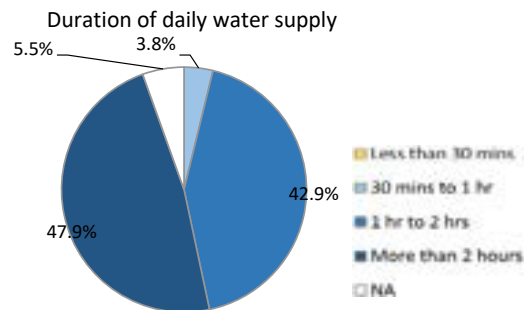
% of IHHLs connected to septic tank/ soak pit/ twin pit **90%**

1. Access to municipal water supply



% of HHs with individual water tap connection **58%**

% of HHs satisfied with the quality of water supplied **99%**



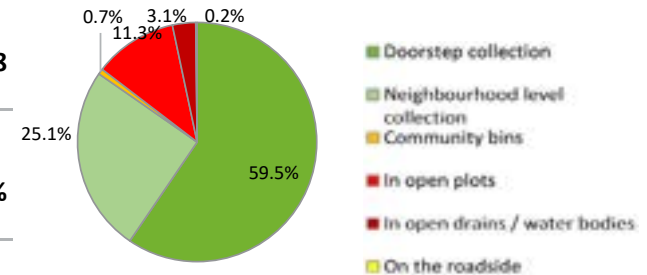
4. Solid waste management system



Total waste generation (kg) **518**

% of HHs segregating waste **15%**

Method of HH waste disposal



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

54. Ghusrijudabandh

Sambalpur

Slum name
GHUSRIJUDABANDH

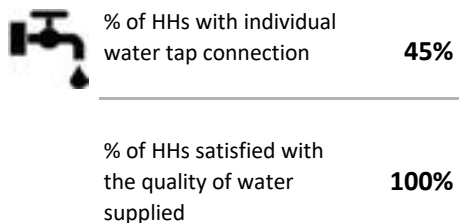
Ward
22

Total number of households in the slum
85

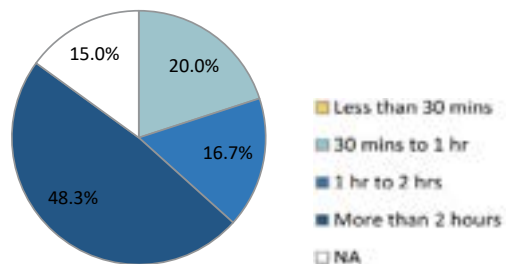
Approximate area of the slum
3.3 ha



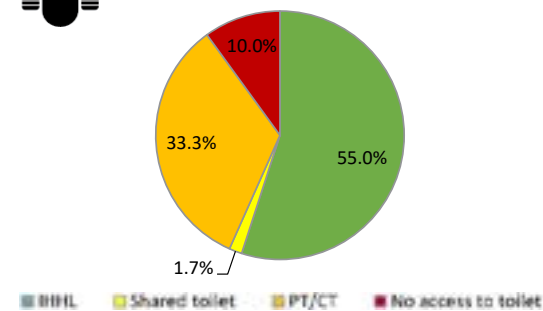
1. Access to municipal water supply



Duration of daily water supply



2. Access to toilets



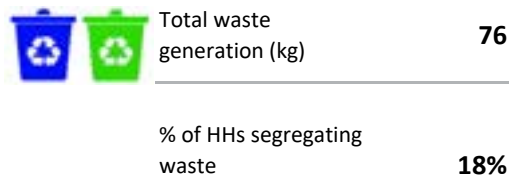
| | |
|---|-------------|
| Number of HHs having IHHL | 33 |
| % of functional IHHLs | 100% |
| Number of PT/CTs near the slum | - |
| Total number of persons dependent on PT/CTs | 78 |

3. Access to safe wastewater disposal system

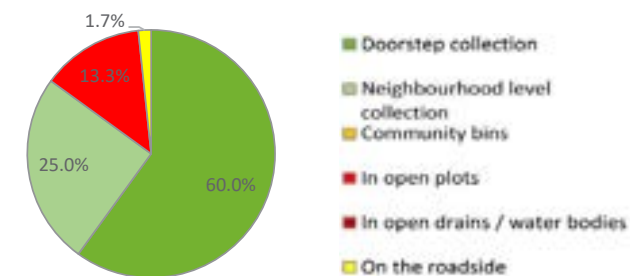


| | | | |
|---|------------|---|------------|
| % of IHHLs connected to sewers | - | % of HHs connected with safe disposal system for grey water | 23% |
| % of IHHLs connected to septic tank/soak pit/twin pit | 70% | | |

4. Solid waste management system



Method of HH waste disposal



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

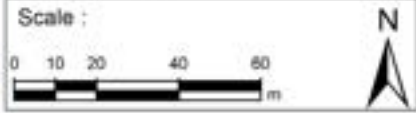


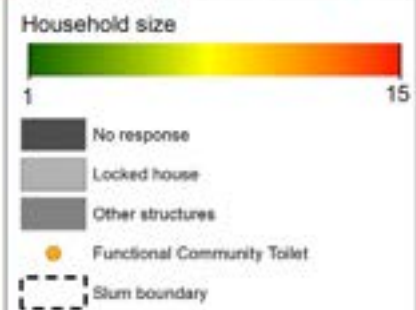
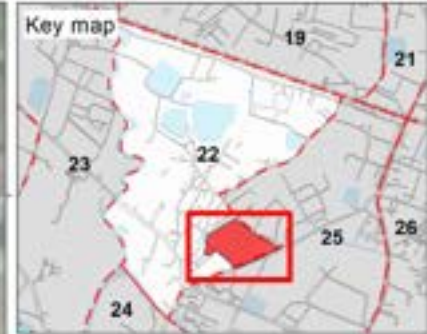
House ownership

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

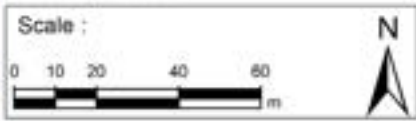
As per the verbal information provided by the respondents.

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





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



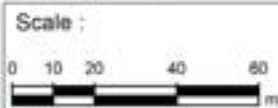
21°20'25"N
21°20'20"N



Household with PWD*

- 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.



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, Sambalpur, Odisha. (2019). Primary household survey of slums in Sambalpur, Odisha. Unpublished report and the GIS user interface.

83°58'10"E

83°58'15"E

83°58'20"E

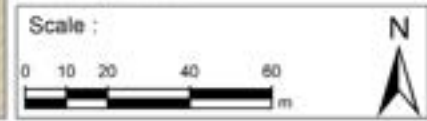
21°20'25"N
21°20'20"N

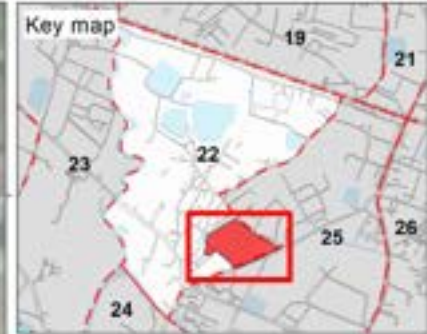


Household part of SHG

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

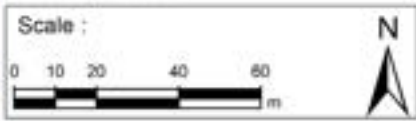
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





- IHHL connected to :**
- Twin pit
 - 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.



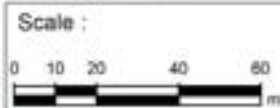
21°20'25"N
21°20'20"N



Household disposing solid waste to :

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

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



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: Survey of Sanitation and Hygiene in Urban Slums (SSHUS) 2019, funded by USAID, and the GIS User.

55. LIC Kolpada

Sambalpur

Slum name
LIC KOLPADA

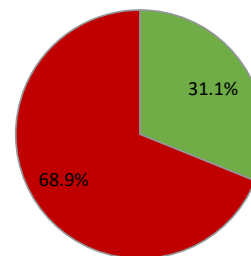
Ward
22

Total number of households in the slum
46

Approximate area of the slum
0.7 ha



2. Access to toilets



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

Number of HHs having IHHL **14**

% 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 HHs connected with safe disposal system for grey water **-**

% of IHHLs connected to septic tank/soak pit/twin pit **93%**

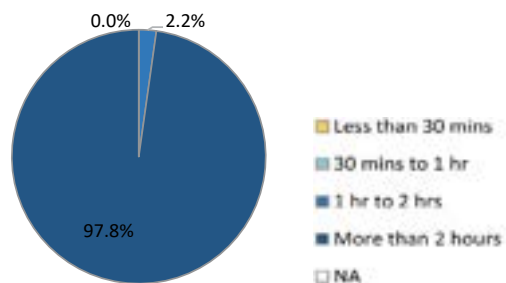
1. Access to municipal water supply



% of HHs with individual water tap connection **49%**

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

Duration of daily water supply



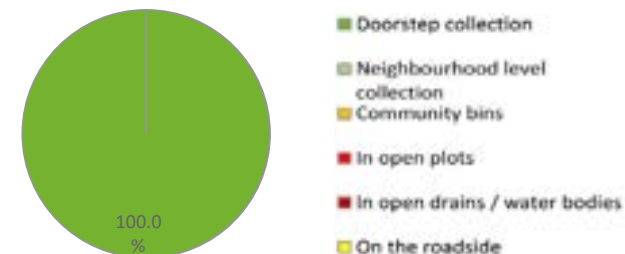
4. Solid waste management system



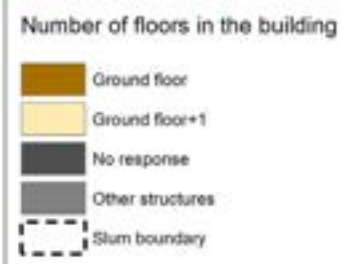
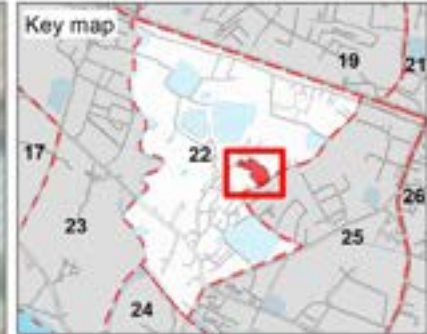
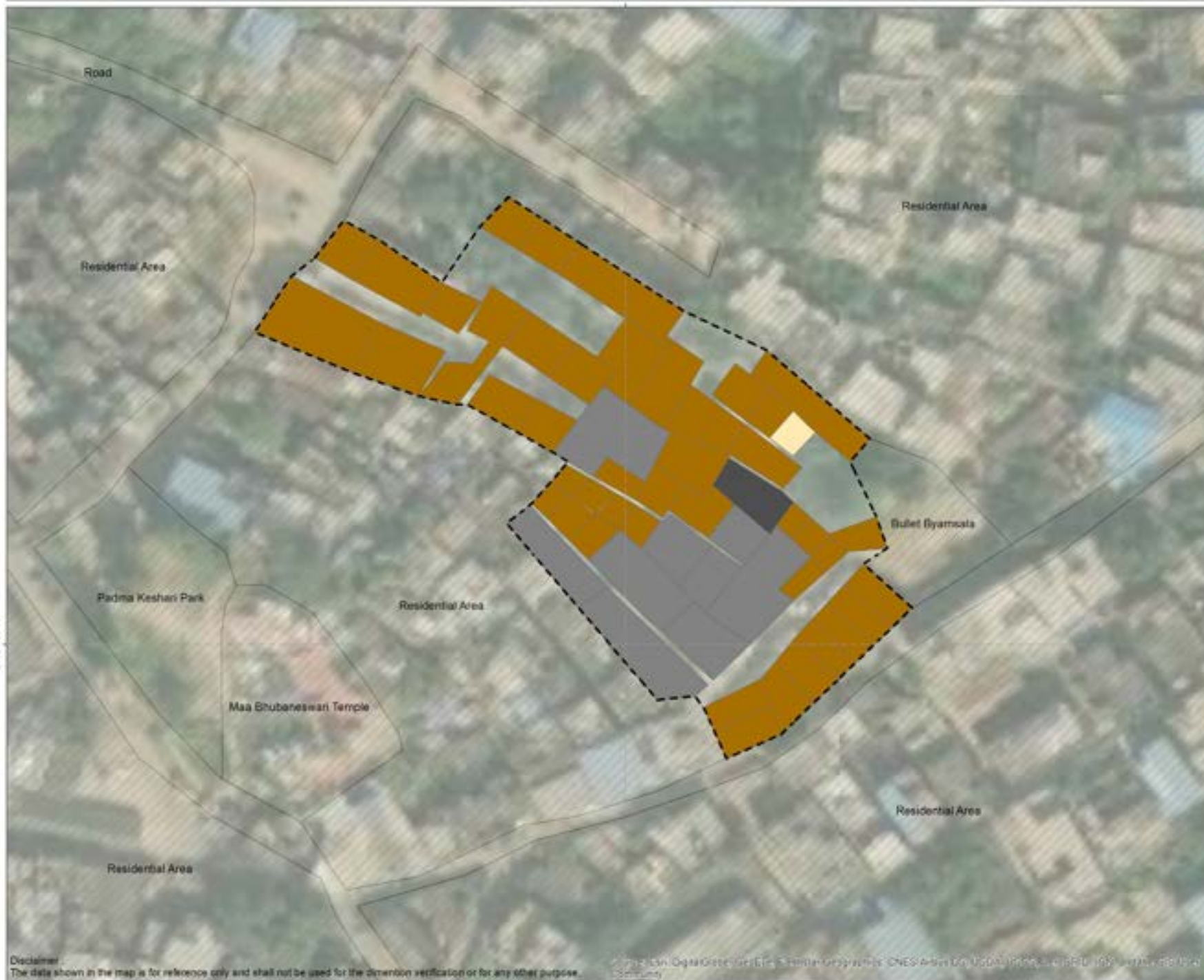
Total waste generation (kg) **53**

% of HHs segregating waste **9%**

Method of HH waste disposal



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



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

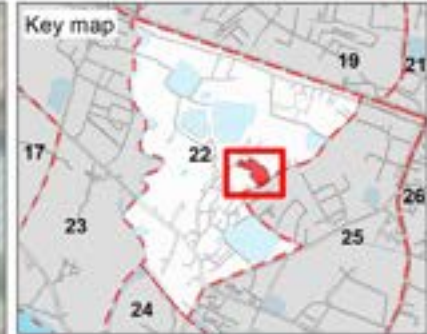
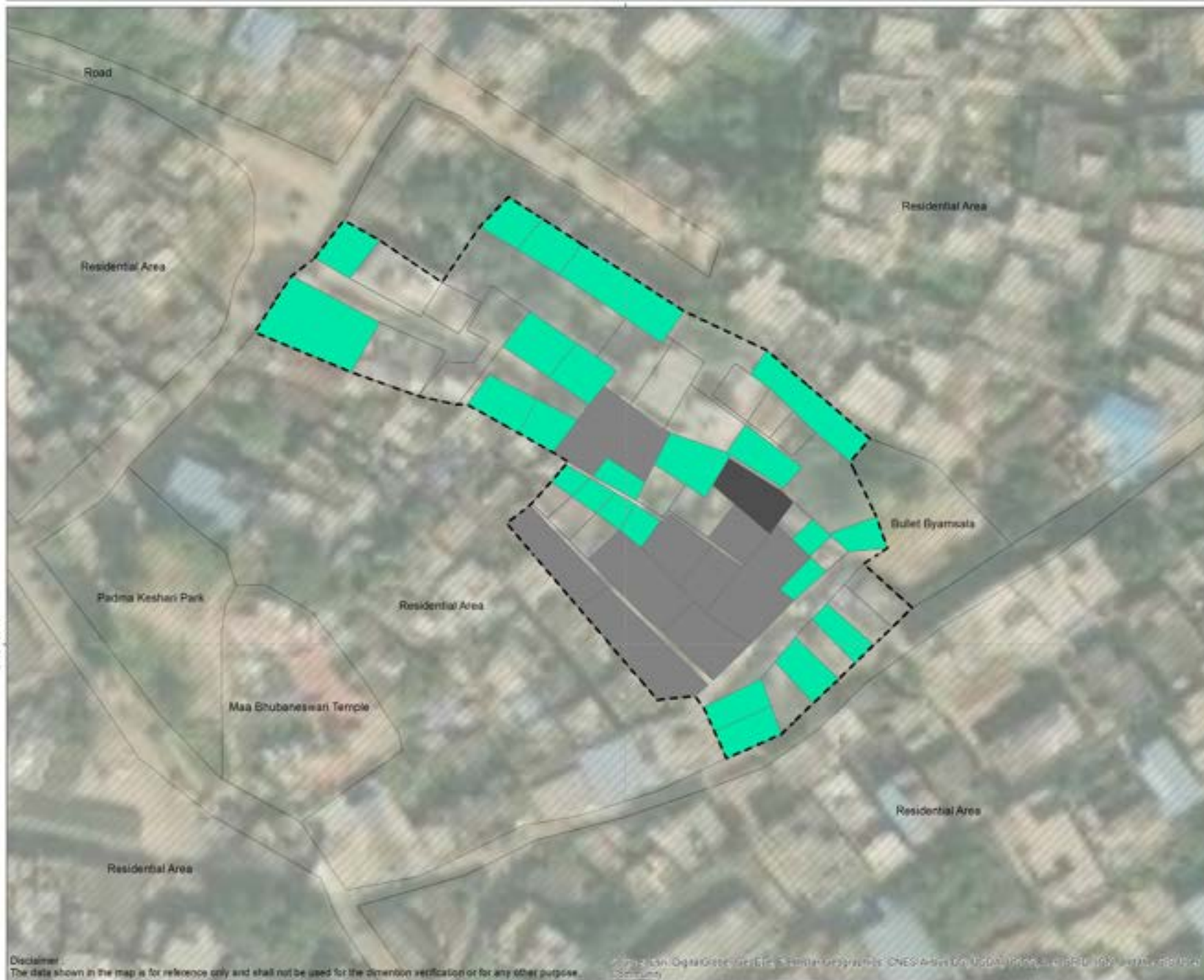


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83°38'15"E

21°28'30"N



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.



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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56. Manikmunda

Sambalpur

Slum name
MANIKMUNDA

Ward
22

Total number of households in the slum
160

Approximate area of the slum
3.5 ha

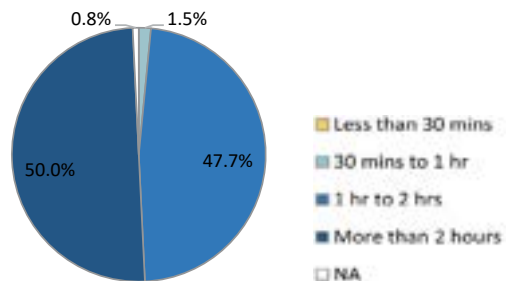


1. Access to municipal water supply

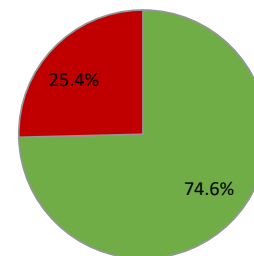
% of HHs with individual water tap connection **62%**

% of HHs satisfied with the quality of water supplied **98%**

Duration of daily water supply



2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL **97**

% of functional IHHLs **97%**

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 **48%**

% of IHHLs connected to septic tank/soak pit/twin pit **94%**

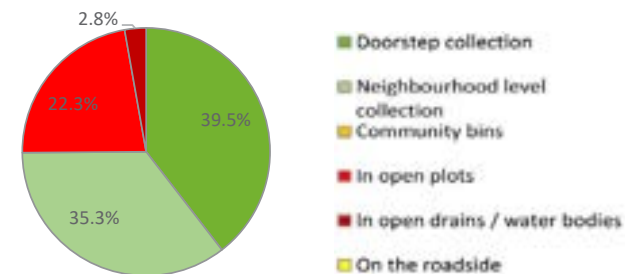
4. Solid waste management system



Total waste generation (kg) **170**

% of HHs segregating waste **20%**

Method of HH waste disposal

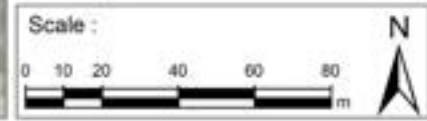


HH - Household, IHHL - Individual Household Latrine, PT/CT - Public /Community Toilet



As per the verbal information provided by the respondents.

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





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.

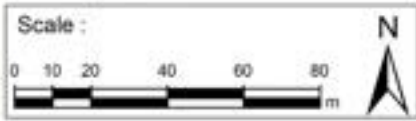
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Number of floors in the building

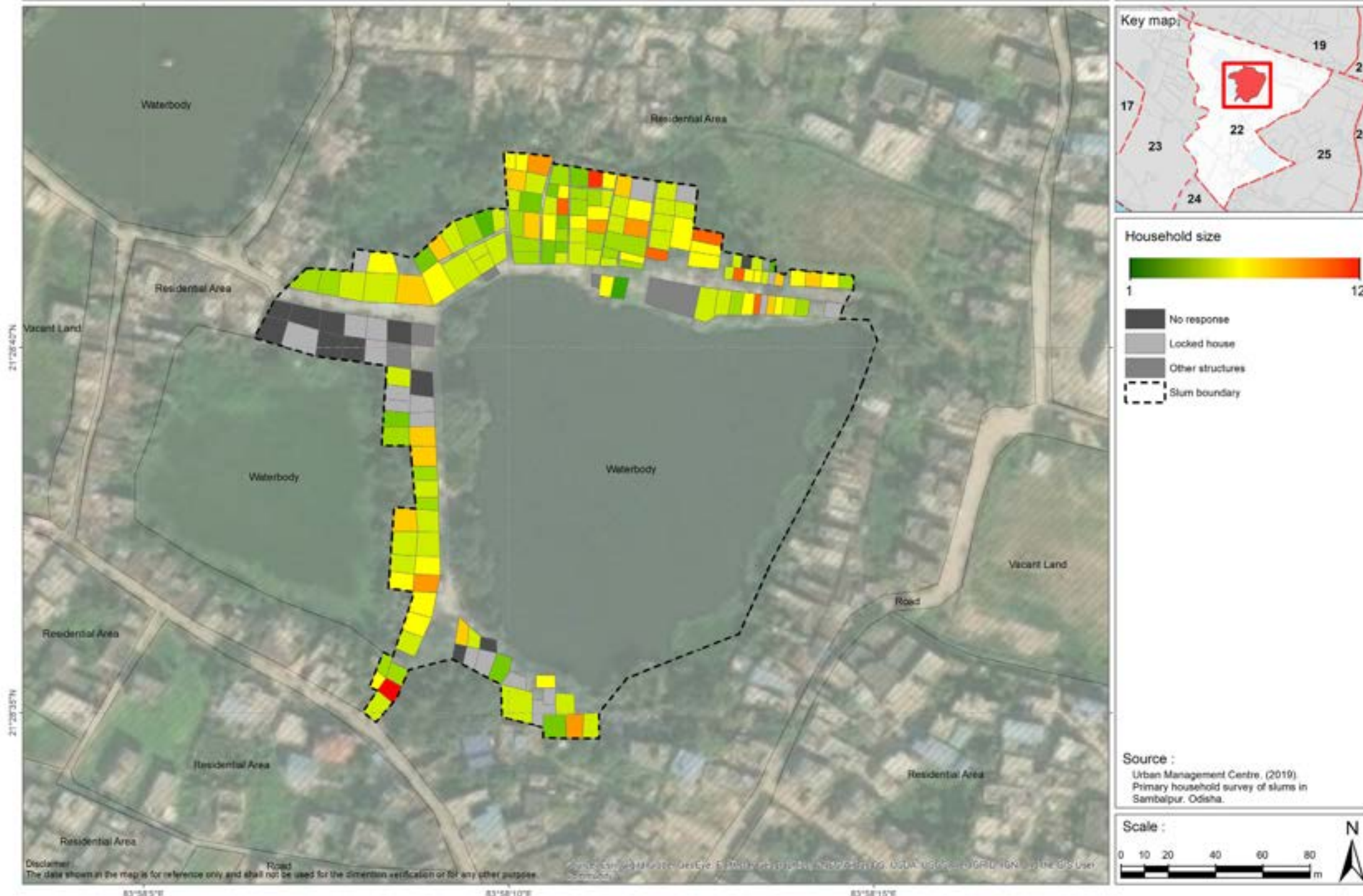
-  Ground floor
-  Ground floor + 1
-  Ground floor + 2
-  No response
-  Locked house
-  Other structures
-  Slum boundary

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



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°58'5"E 83°58'10"E 83°58'15"E

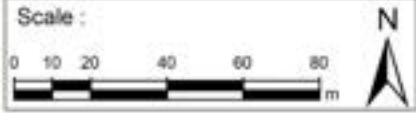




Elderly citizen

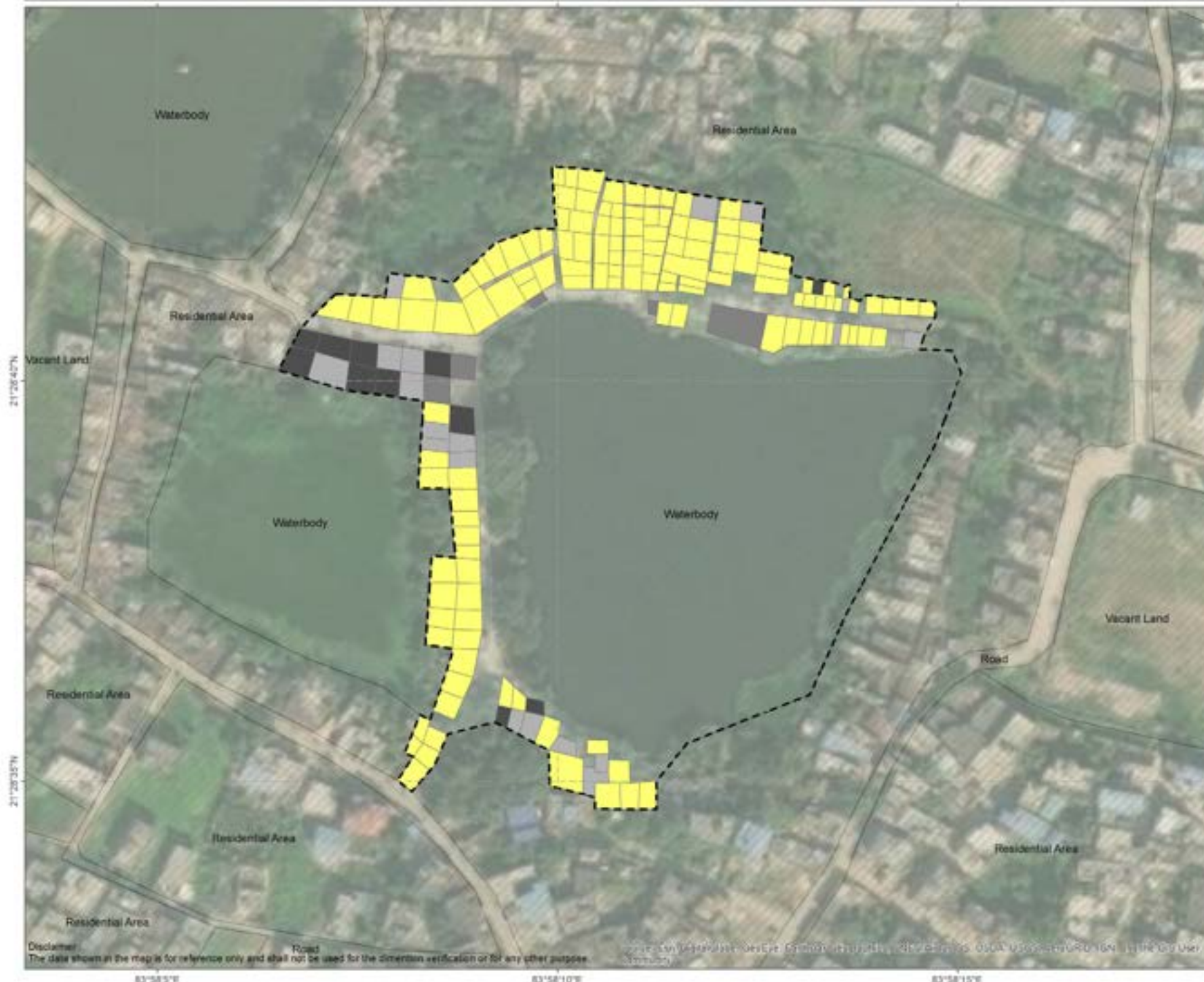
- HH have elderly citizen
- No response
- Locked house
- Other structures
- Slum boundary

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



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

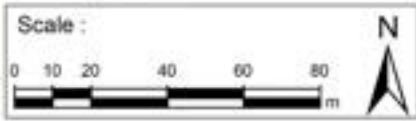
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Household with PWD*

- No
- No response
- Locked house
- Other structures
- Slum boundary
- Person with Disabilities

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



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.

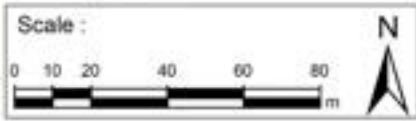
Source: Urban Management Centre, Sambalpur, Odisha, India. (2019). Primary household survey of slums in Sambalpur, Odisha.



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.

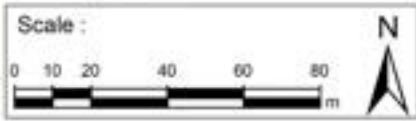


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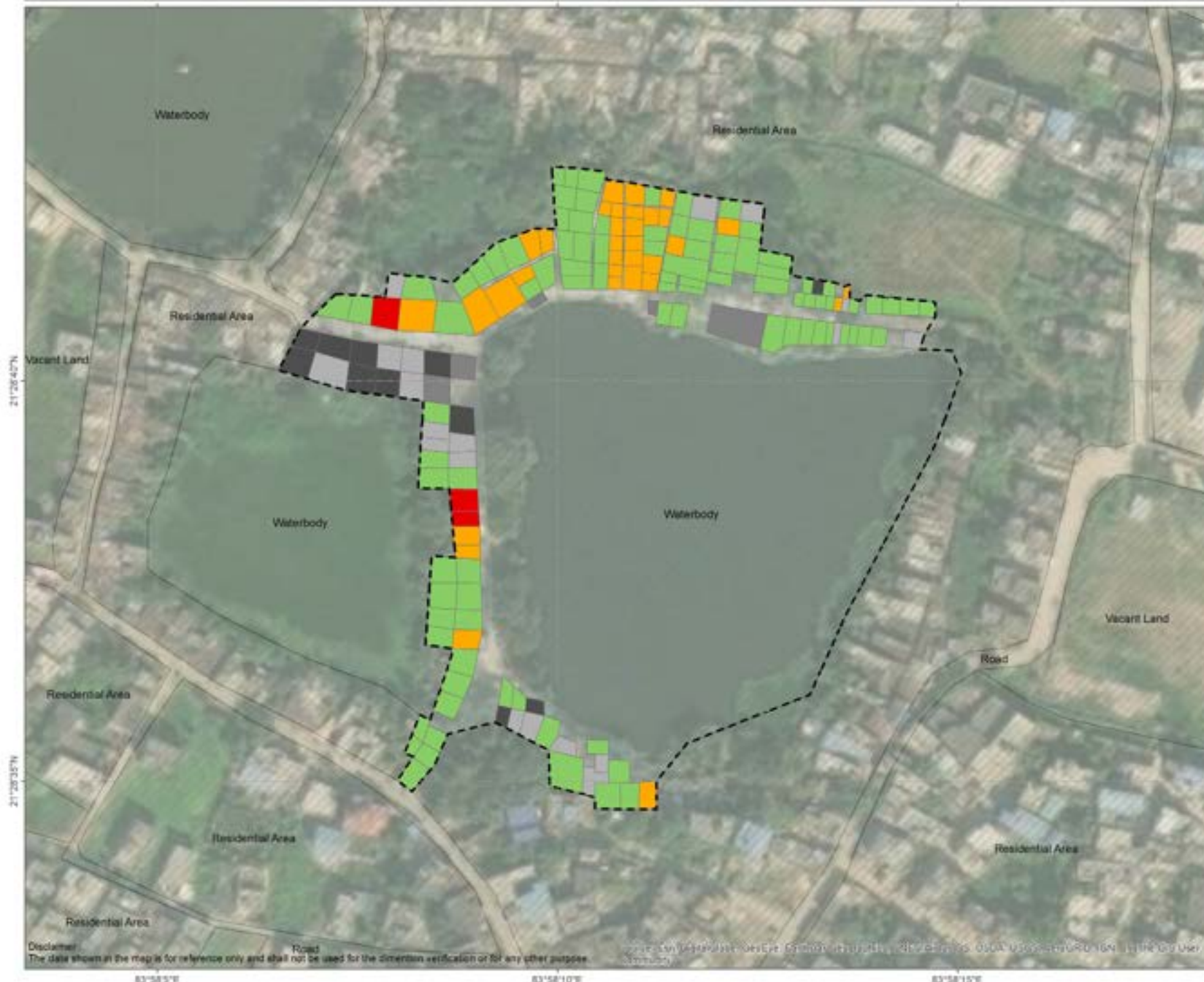


Source :
Urban Management Centre. (2019).
Primary household survey of slums in Sambalpur, Odisha.



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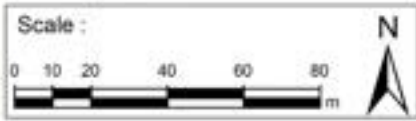
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Functionality of IHHL

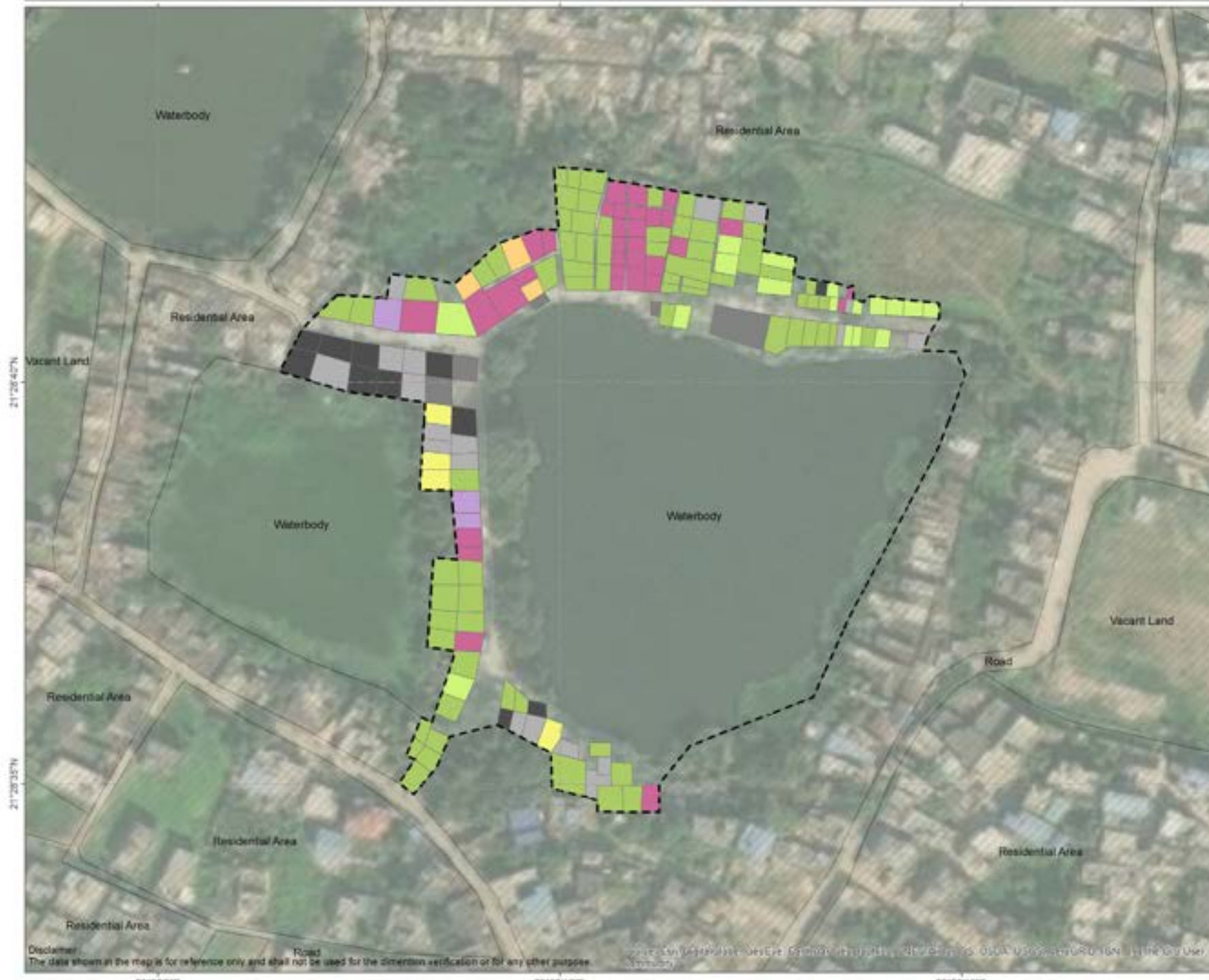
- Yes
- No
- No IHHL
- No response
- Locked house
- Other structures
- Slum boundary

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



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.

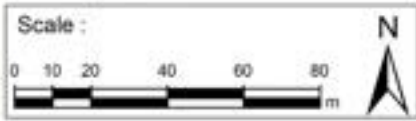
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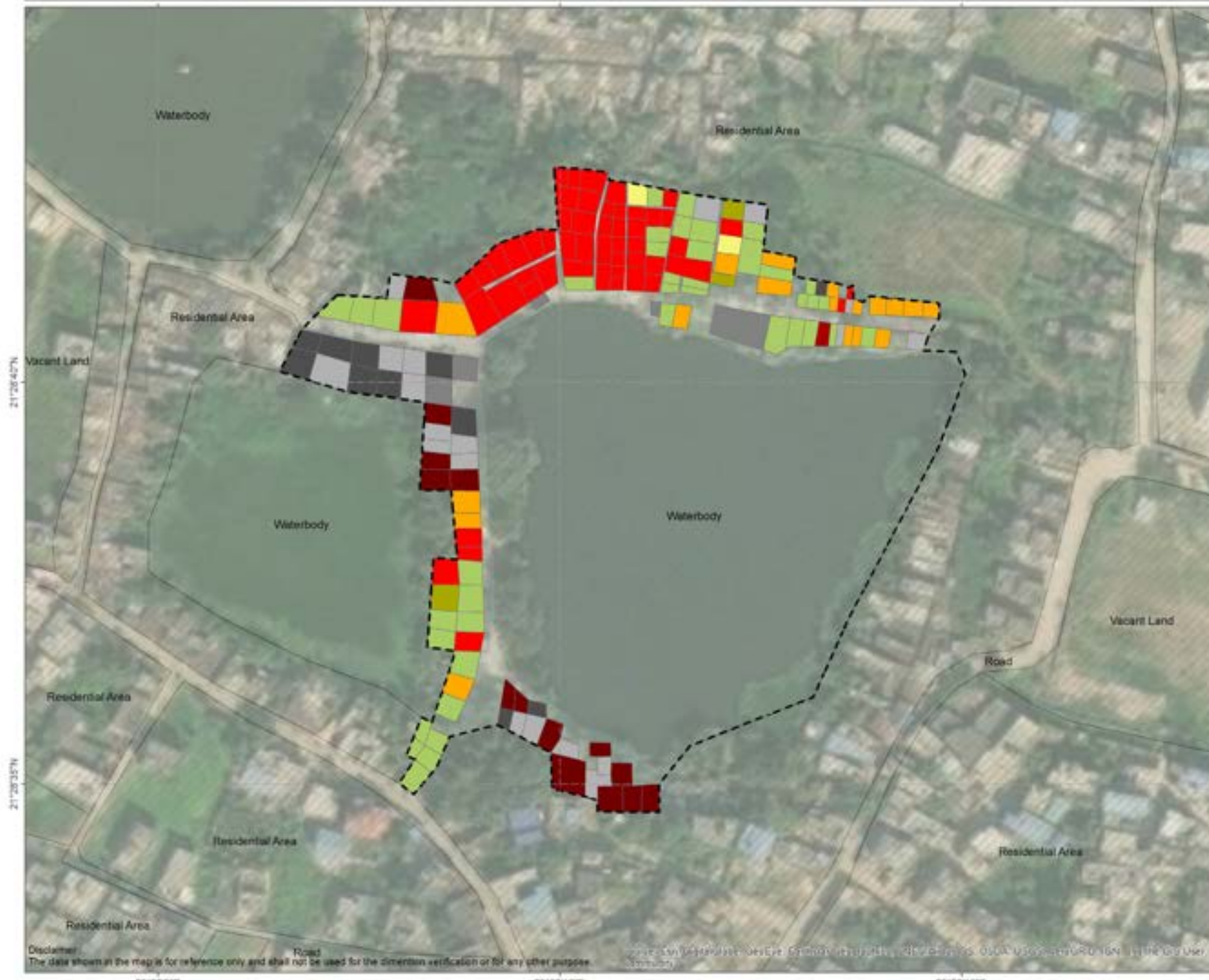
IHHL connected to :

- Septic tank
- Soak pit
- Ring
- Open drain
- 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.

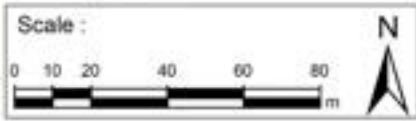


Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



- Grey water disposed to :
- Septic tank
 - Twin pit
 - Single pit
 - Small pit (kundi) outside the house
 - Open drain
 - Water is let out on streets
 - Pond
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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



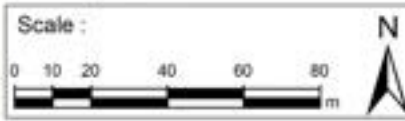
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83°58'5"E 83°58'10"E 83°58'15"E



- Household disposing solid waste to :
- D to D service
 - Handover to municipal waste collector
 - In Open plot & In open drains/waterbody
 - In Open plot
 - In open drains/waterbody
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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



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57. Nandaram Tank

Sambalpur

Slum name
NANDARAM TANK

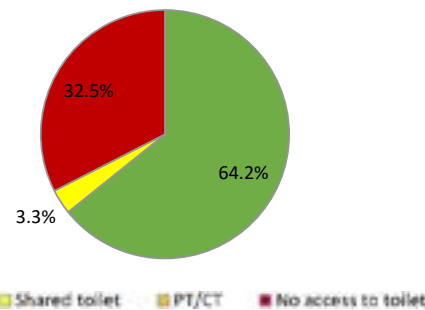
Ward
22

Total number of households in the slum
124

Approximate area of the slum
1.8 ha



2. Access to toilets



Number of HHs having IHHL **79**

% of functional IHHLs **99%**

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 | 21% |
| % of IHHLs connected to septic tank/soak pit/twin pit | 96% | | |

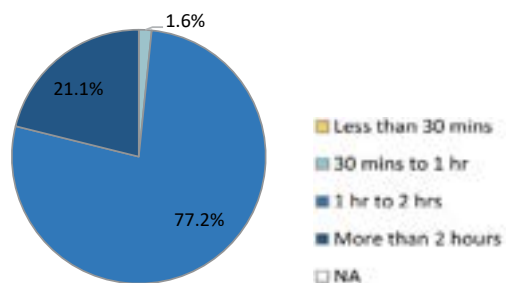
1. Access to municipal water supply



% of HHs with individual water tap connection **74%**

% of HHs satisfied with the quality of water supplied **98%**

Duration of daily water supply



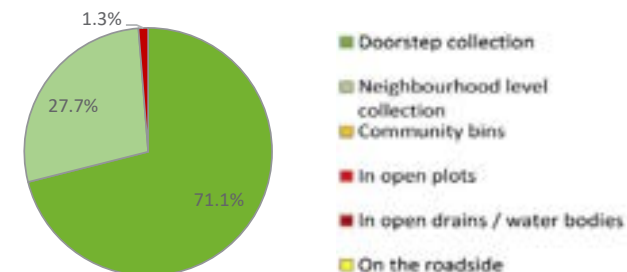
4. Solid waste management system



Total waste generation (kg) **154**

% of HHs segregating waste **1%**

Method of HH waste disposal



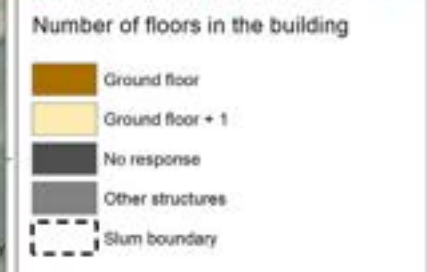
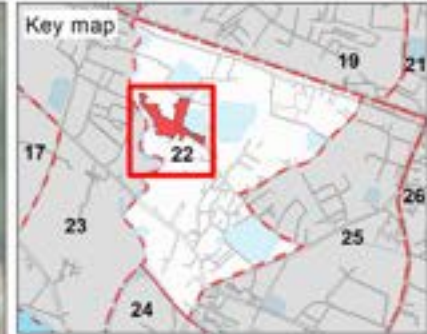
HH - Household, IHHL - Individual Household Latrine, PT/CT - Public /Community Toilet



As per the verbal information provided by the respondents.

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

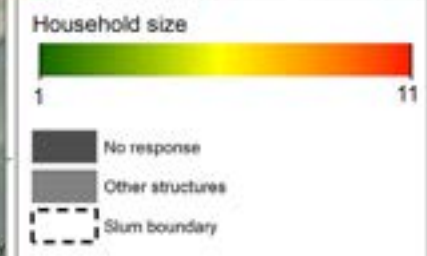
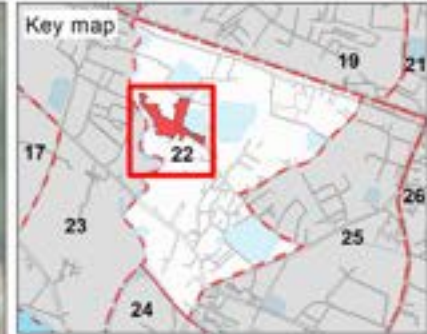
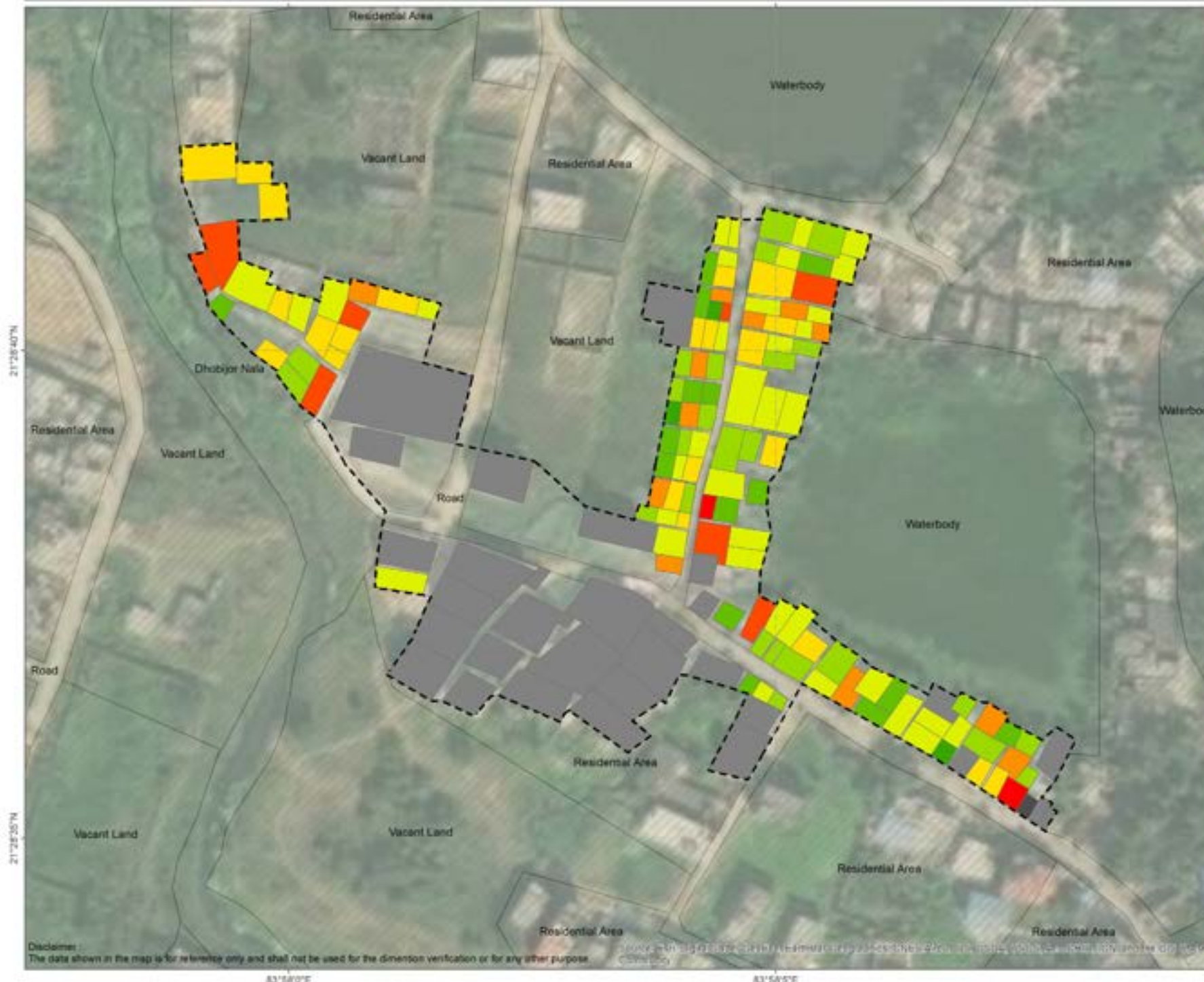




Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



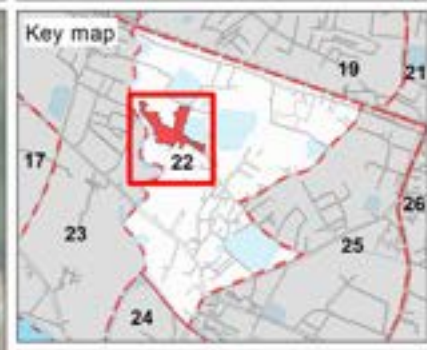
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Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



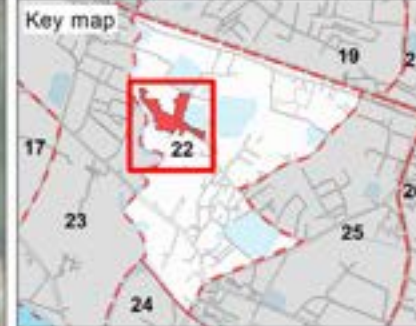
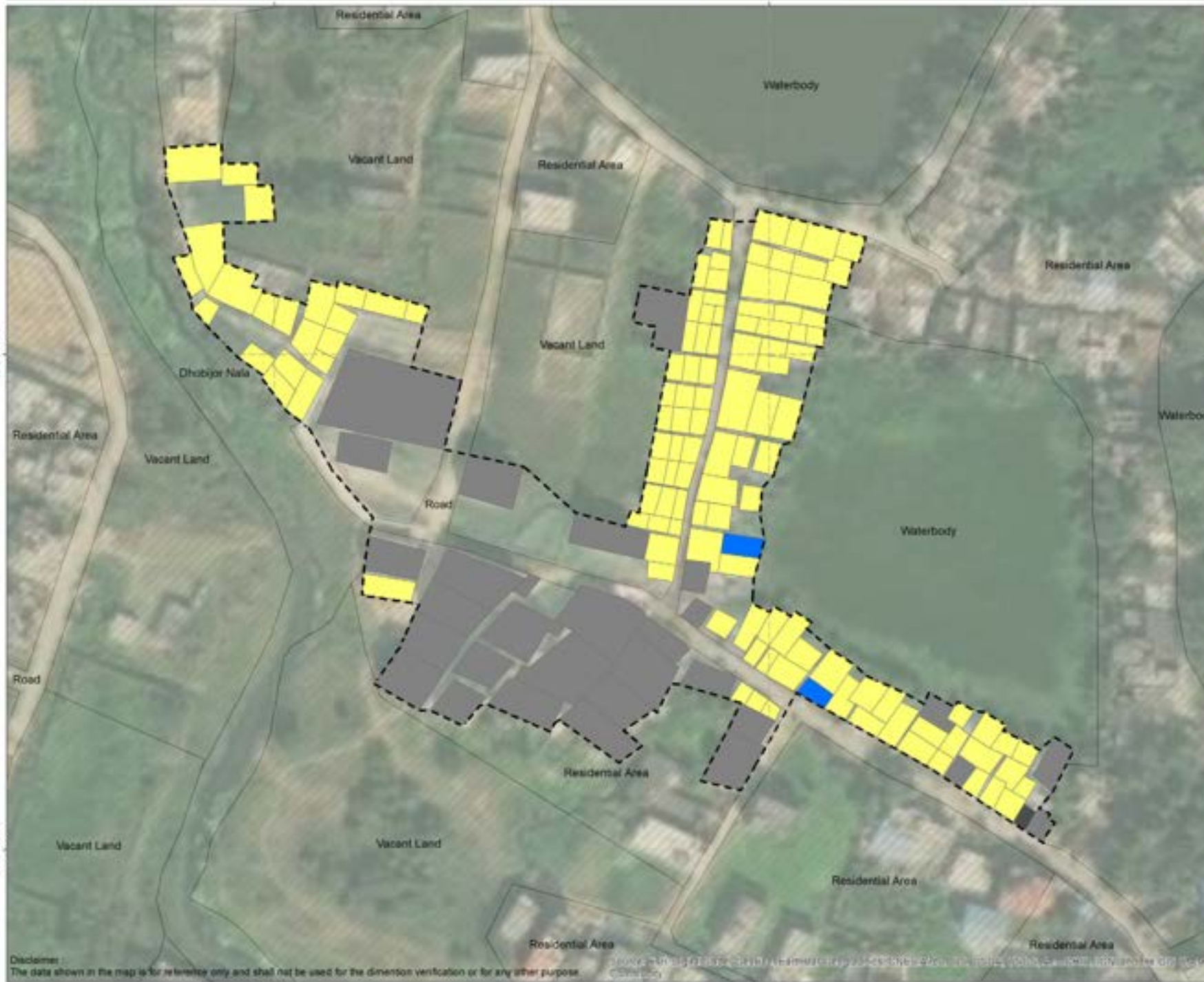
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Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



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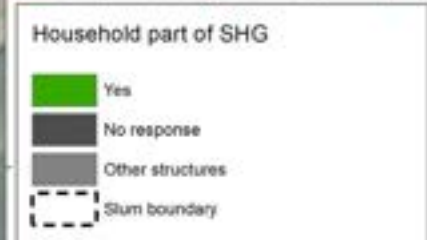
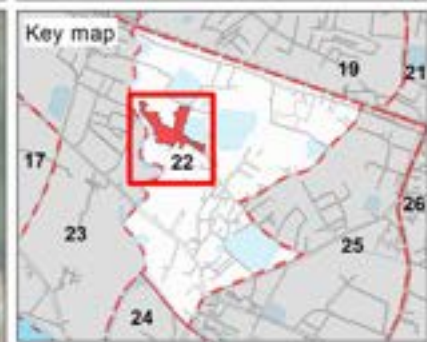


Household with PWD*

- Yes
 - No
 - No response
 - Other structures
 - Slum boundary
- * Person with Disabilities

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

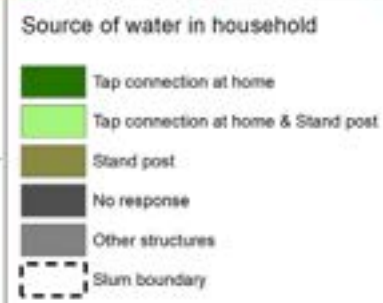
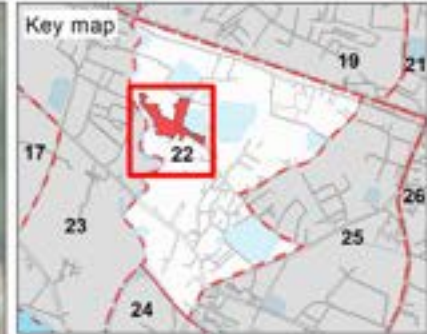




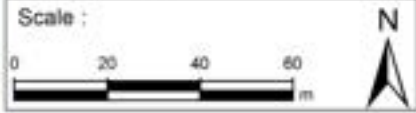
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



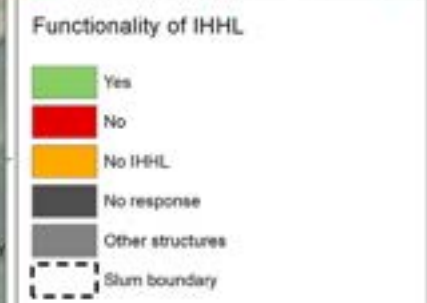
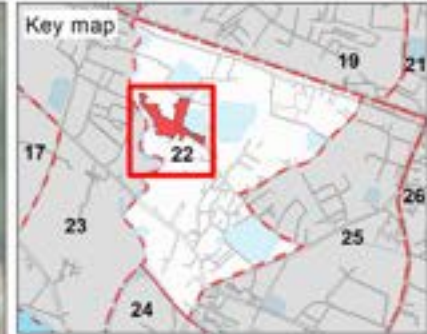
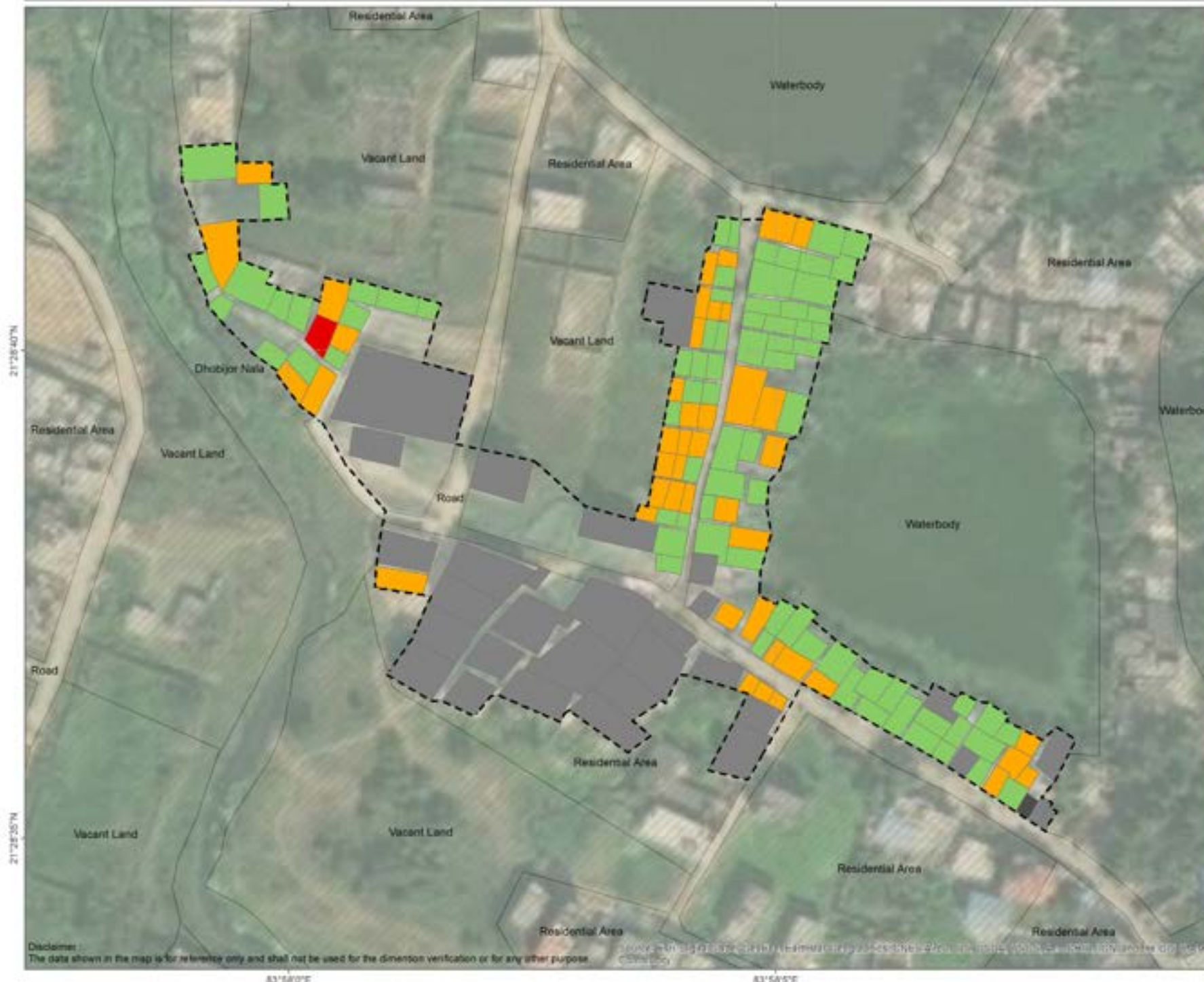
Disclaimer : The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



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



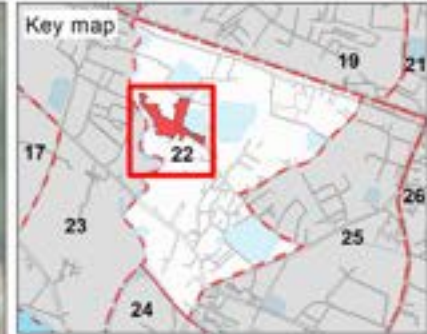
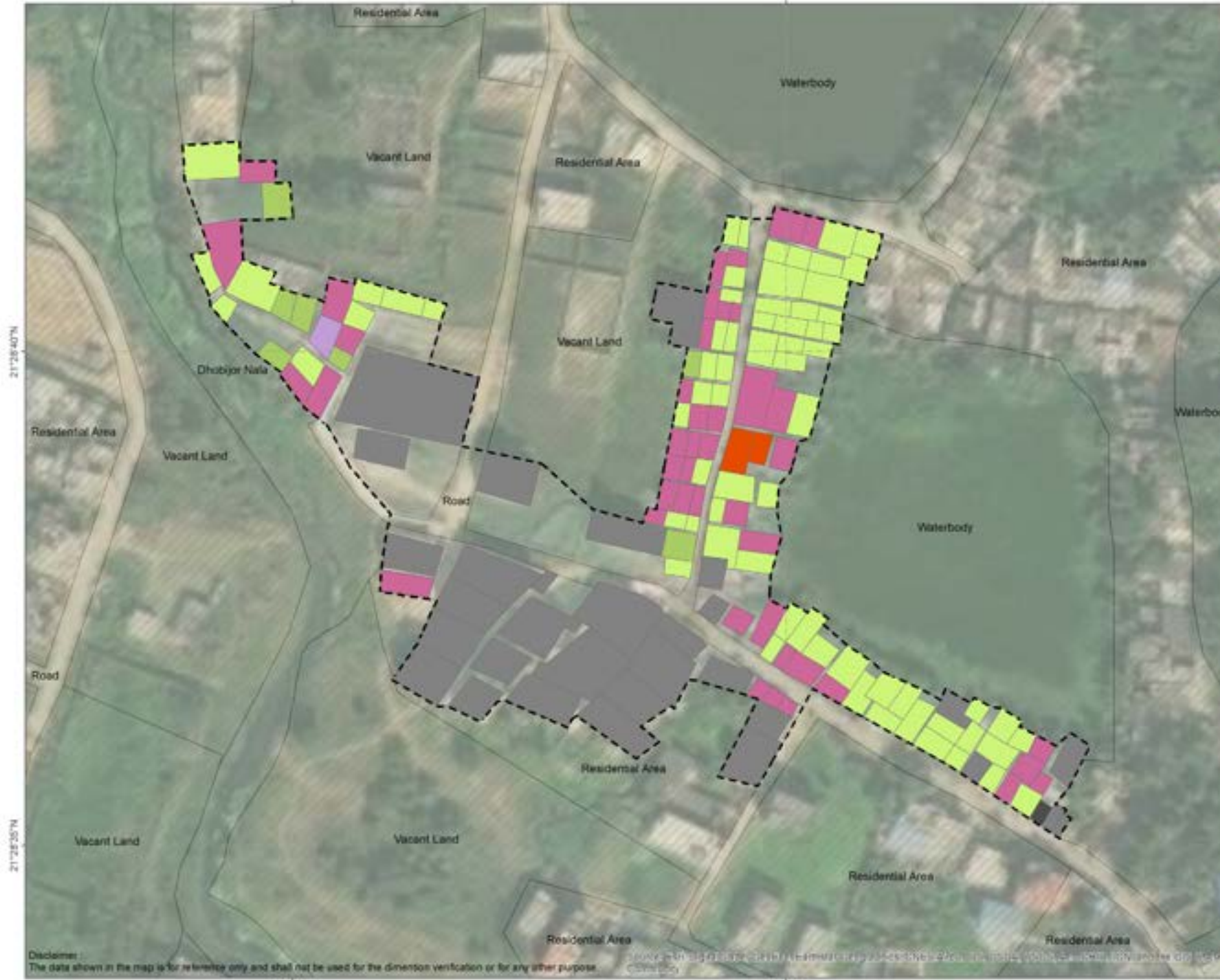
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Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

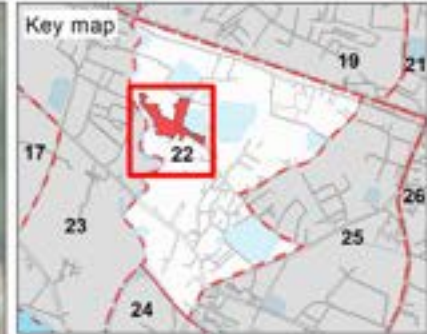


Disclaimer :
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Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

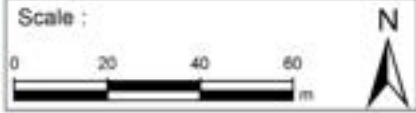




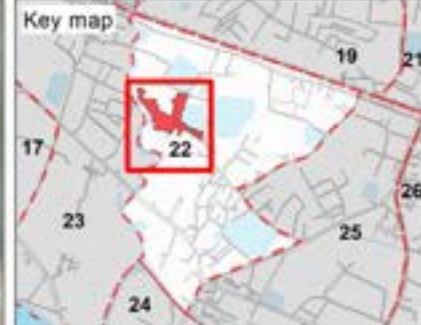
Grey water disposed to :

- Septic tank
- Single pit
- Open drain
- Open plot
- Water is let out on the street
- Pond
- No response
- Other structures
- Slum boundary

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



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 disposing solid waste to :



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



58. Samleshwari Colony

Sambalpur

Slum name
SAMALESWARI COLONY

Ward
22

Total number of households in the slum
68

Approximate area of the slum
3.1 ha



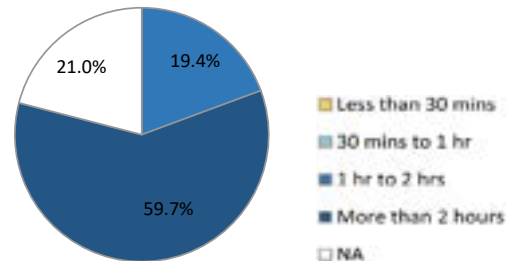
1. Access to municipal water supply



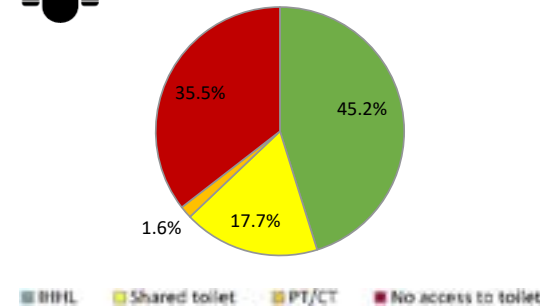
% of HHs with individual water tap connection **37%**

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

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **28**

% 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 HHs connected with safe disposal system for grey water **35%**

% of IHHLs connected to septic tank/soak pit/twin pit **86%**

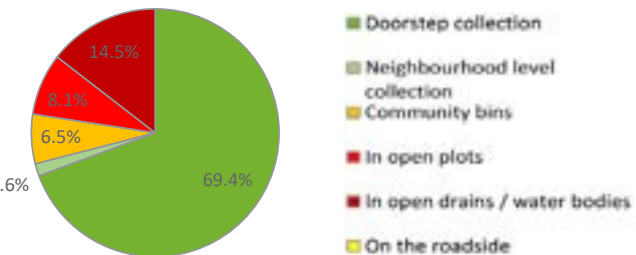
4. Solid waste management system



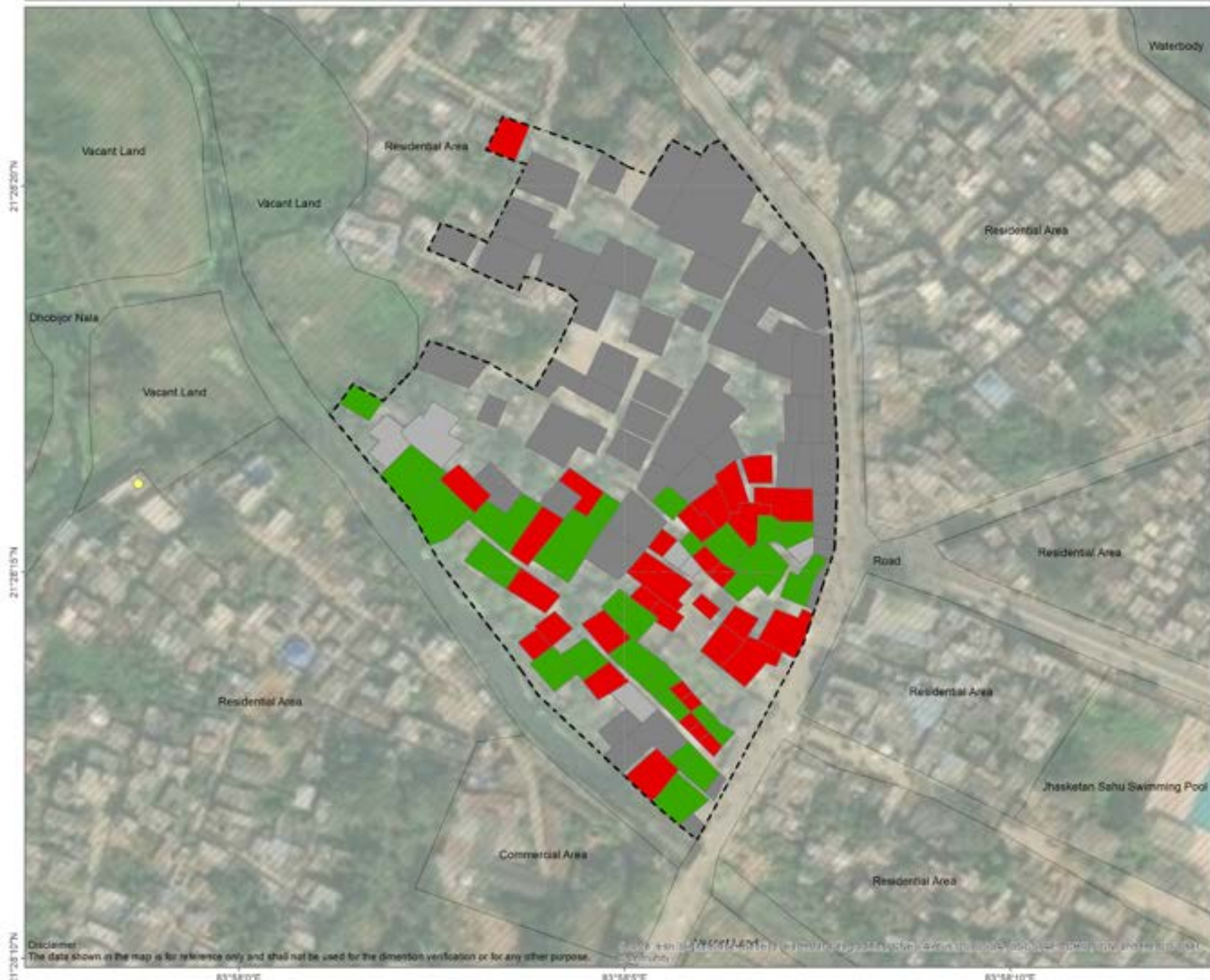
Total waste generation (kg) **65**

% of HHs segregating waste **37%**

Method of HH waste disposal



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



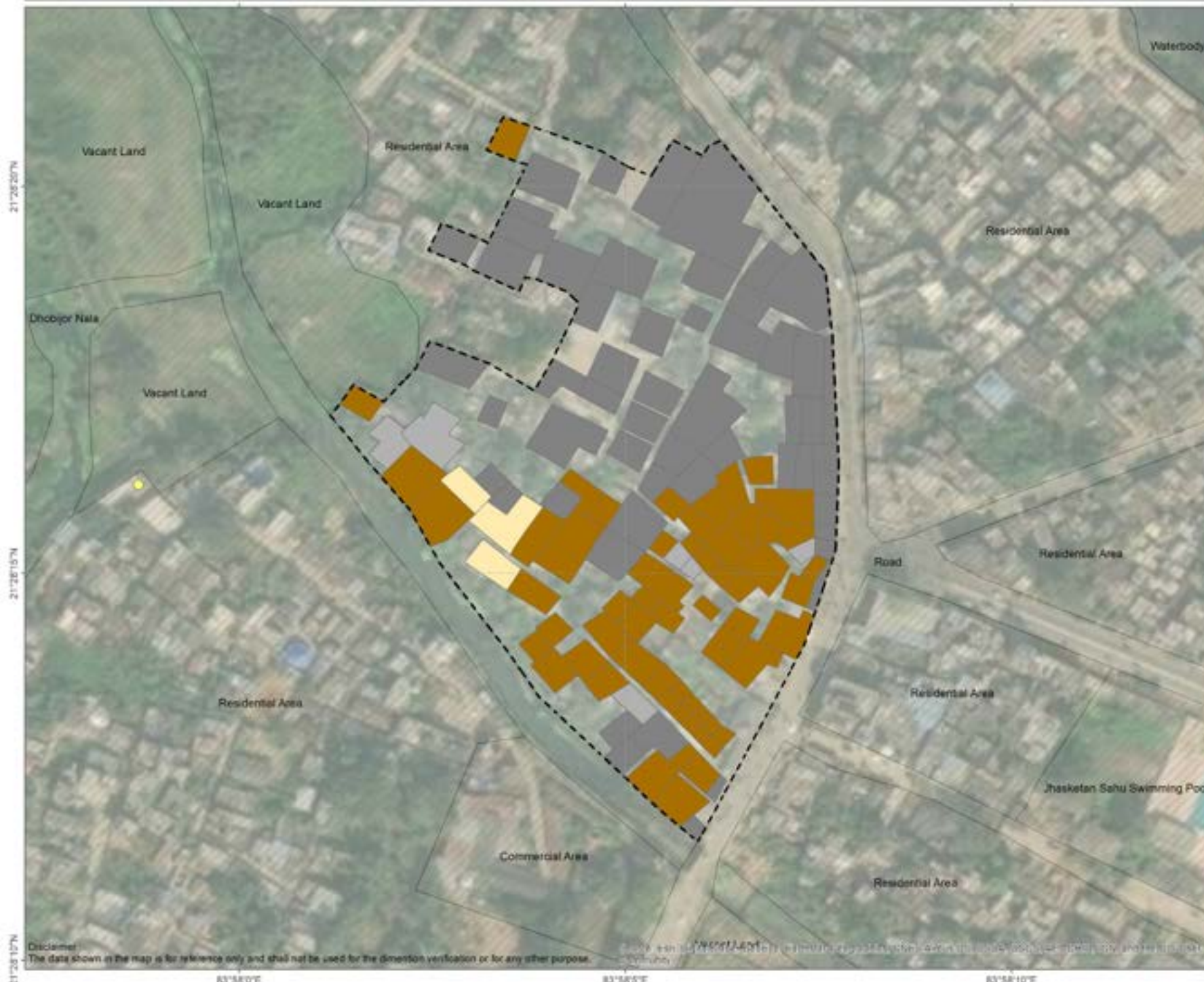
House ownership

- Owned
- Rented
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

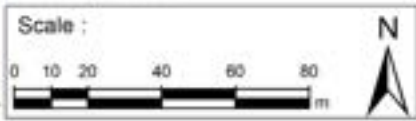
As per the verbal information provided by the respondents.

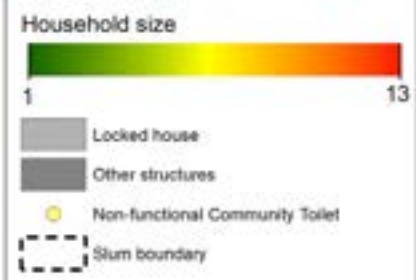
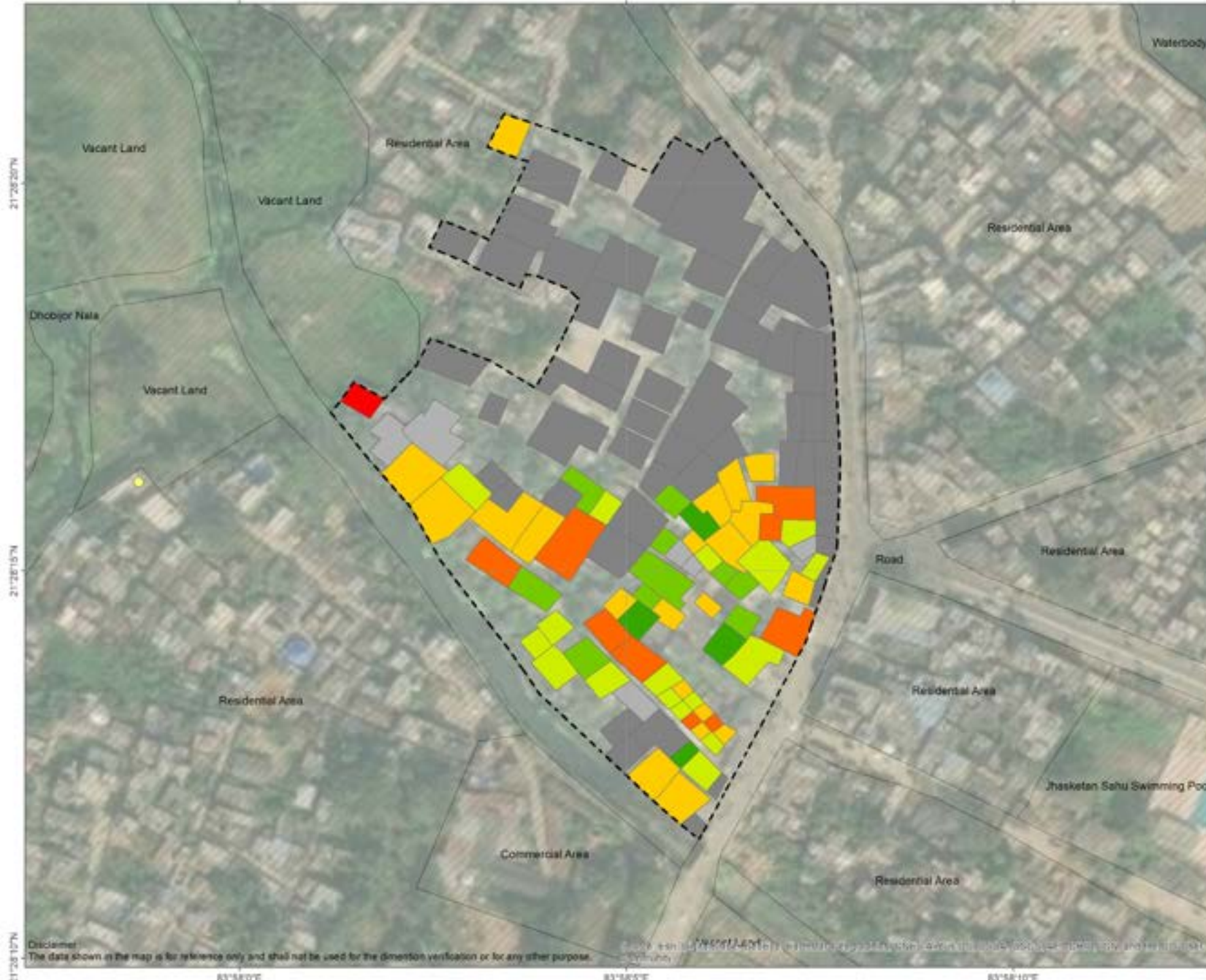
Source :
Urban Management Centre. (2019).
Primary household survey of slums in Sambalpur, Odisha.



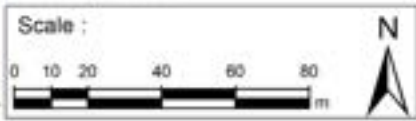


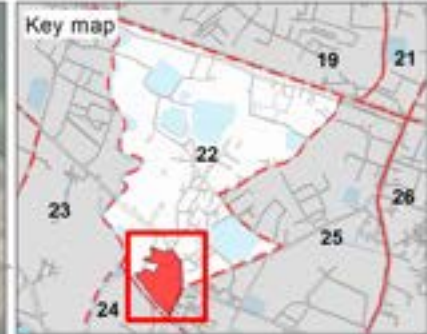
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





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

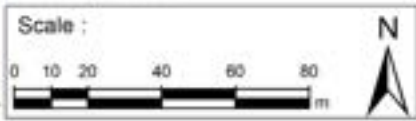


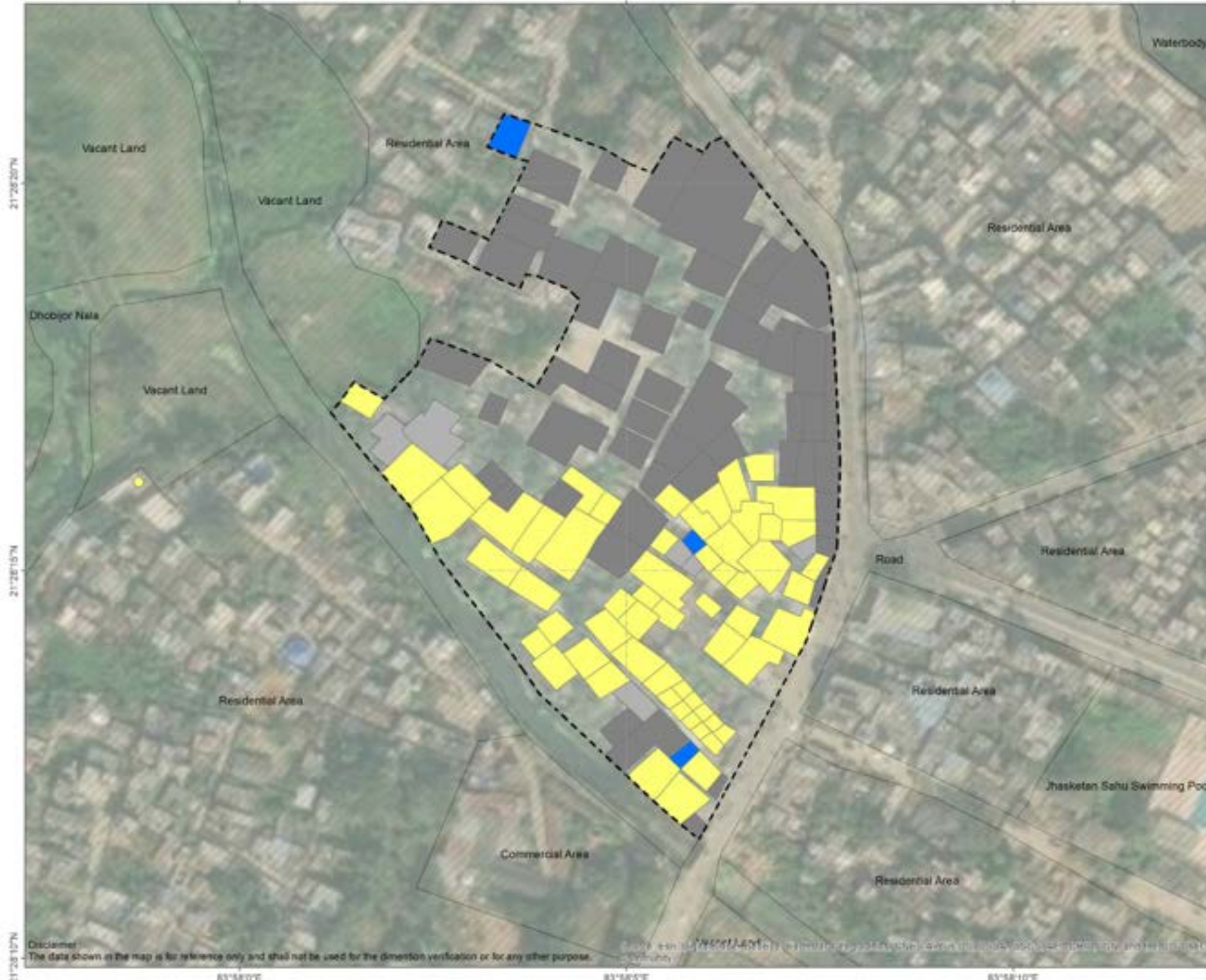


Elderly citizen

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

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



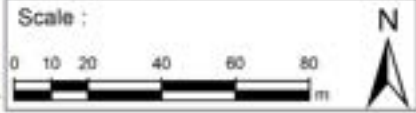


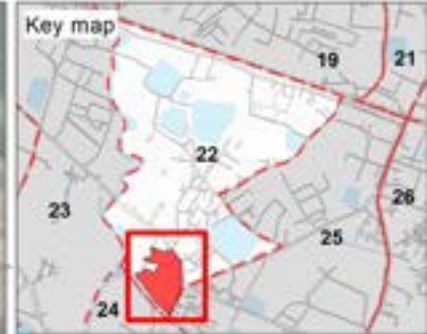
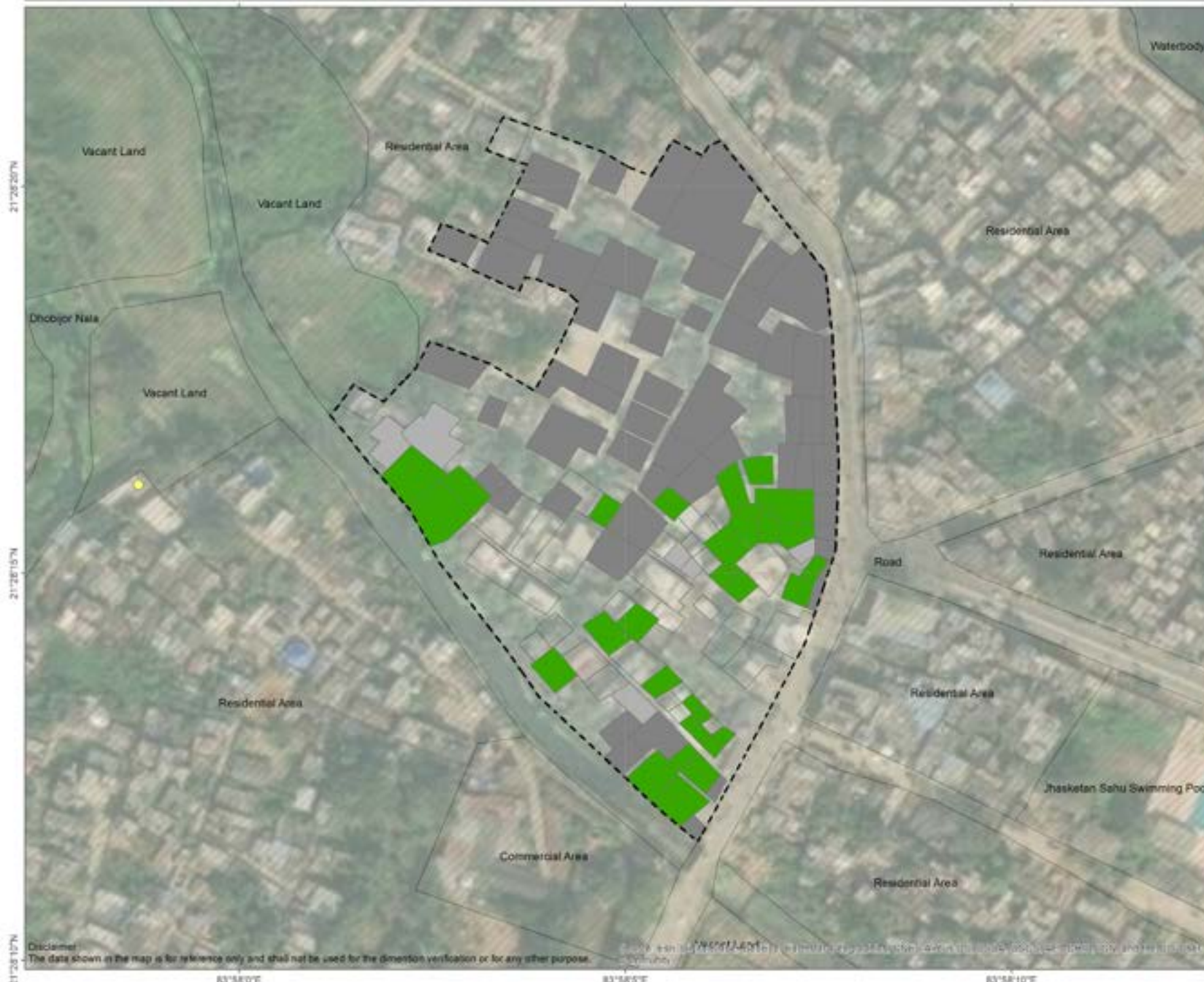
Household with PWD*

- Yes
- No
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

* Person with Disabilities

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

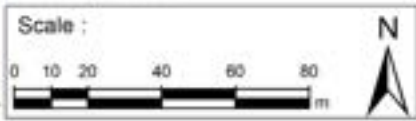


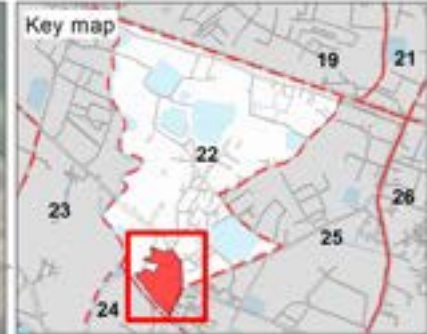
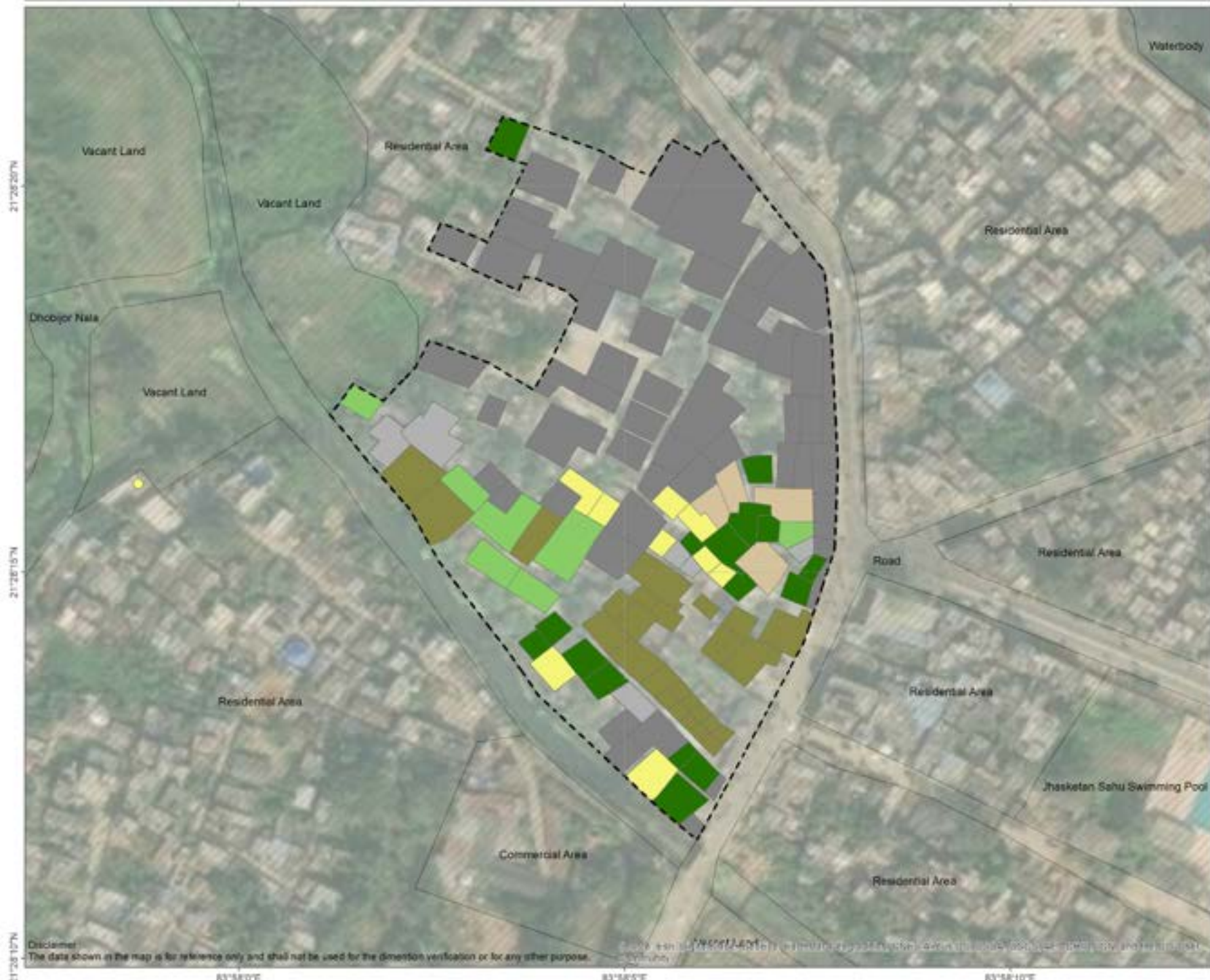


Household part of SHG

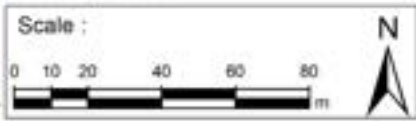
- Yes
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

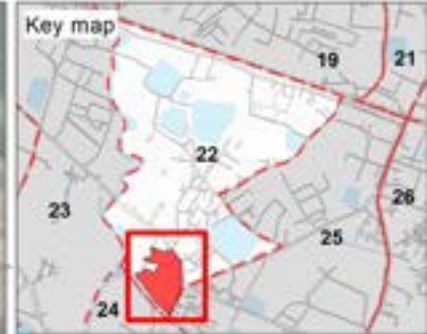
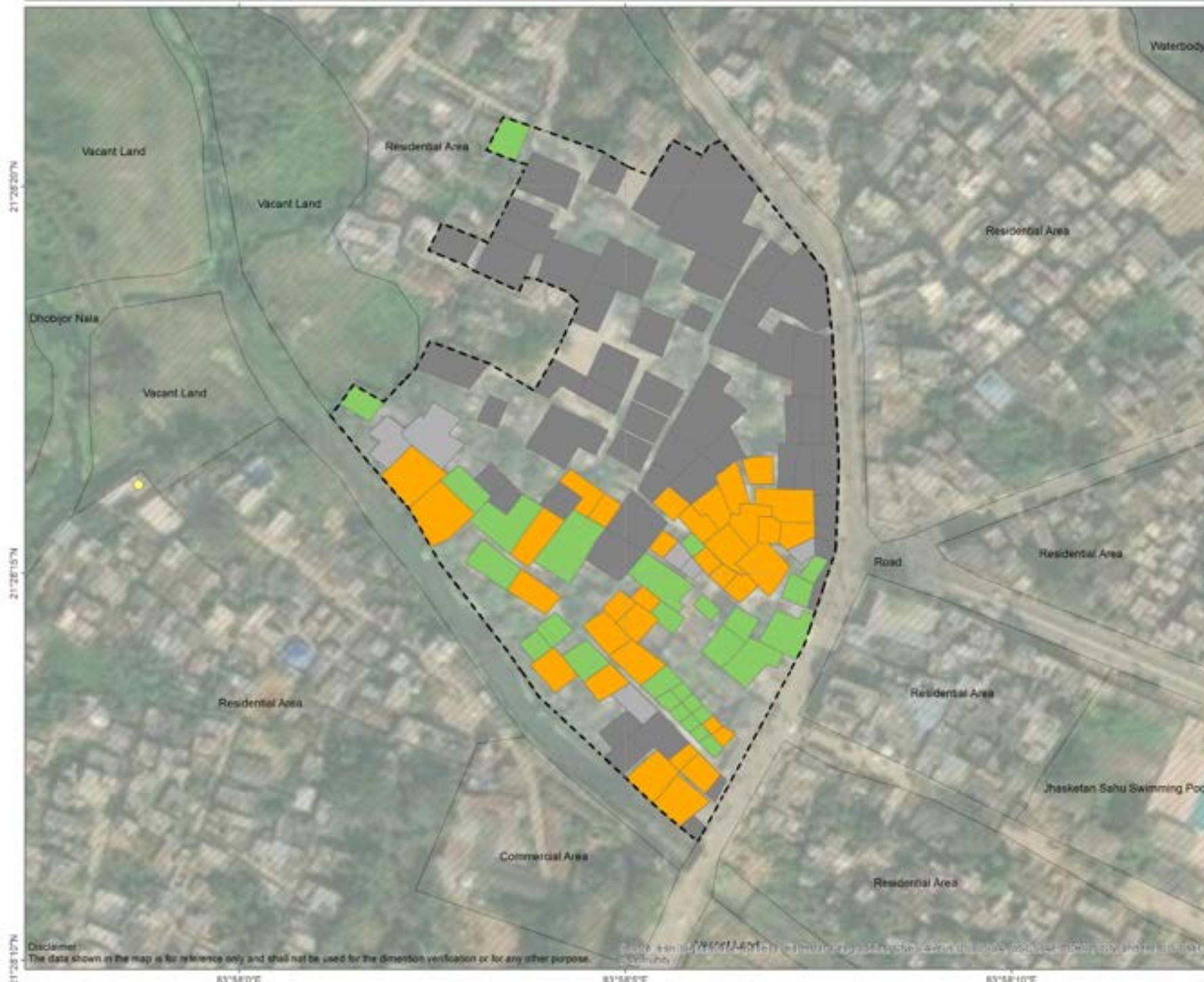
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





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

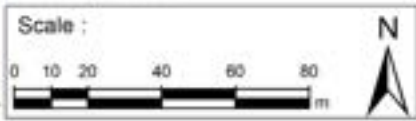


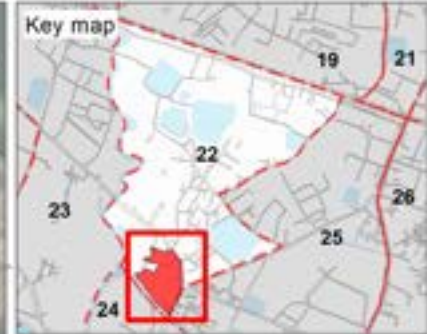
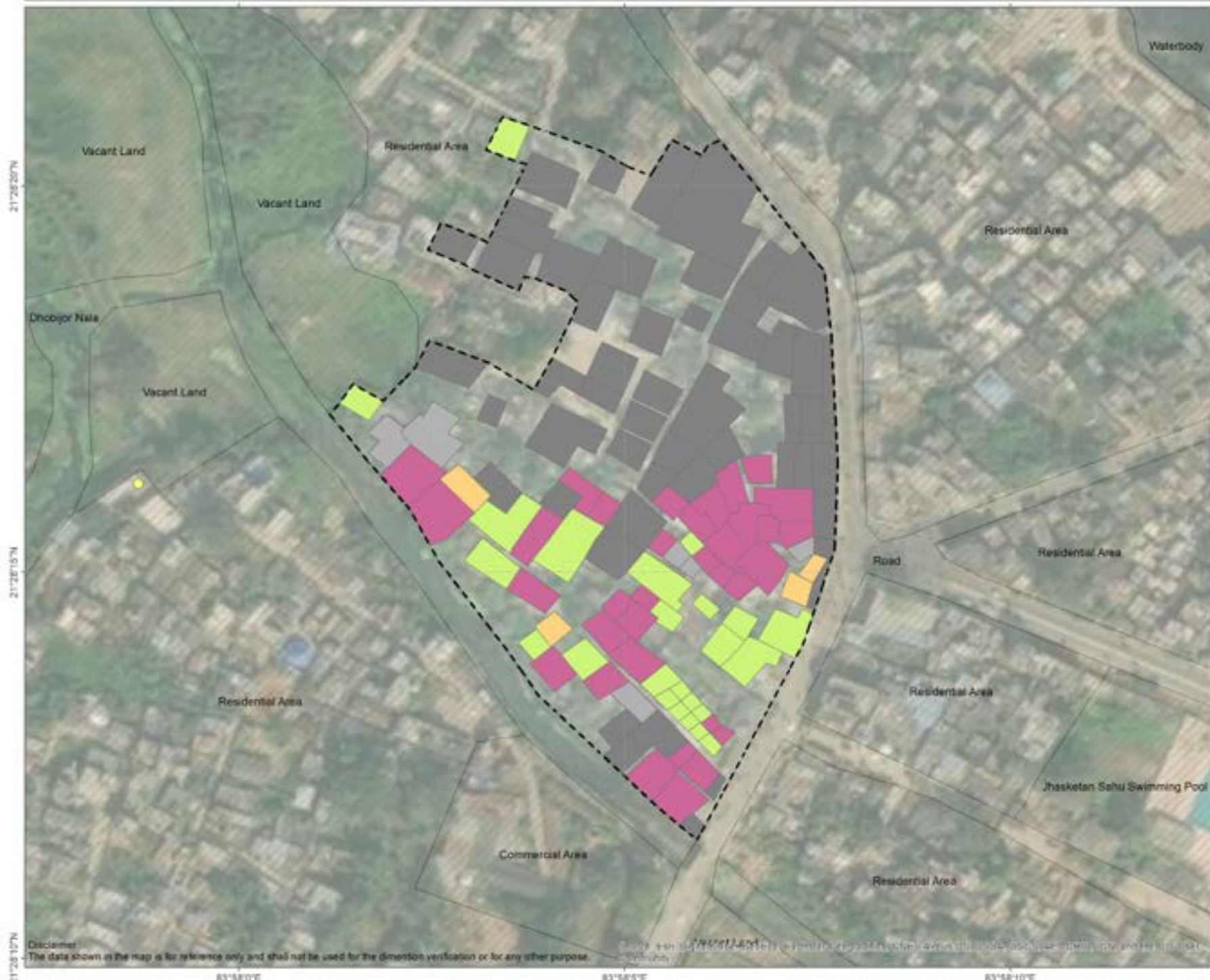


Functionality of IHHL

- Yes
- No IHHL
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

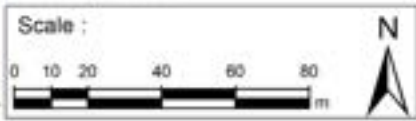
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

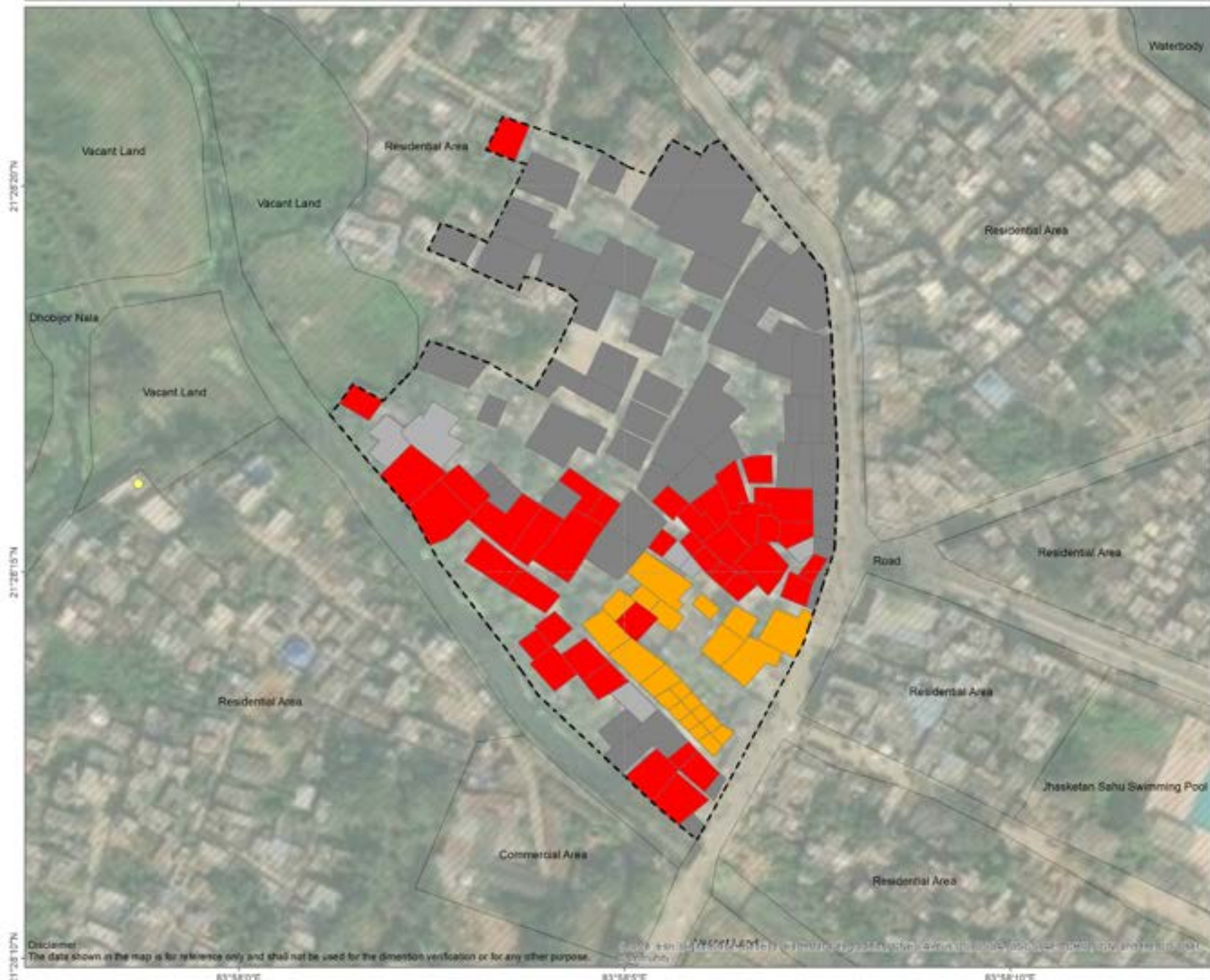




- IHHL connected to :**
- Soak pit
 - Open drain
 - No IHHL
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

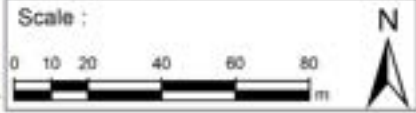
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

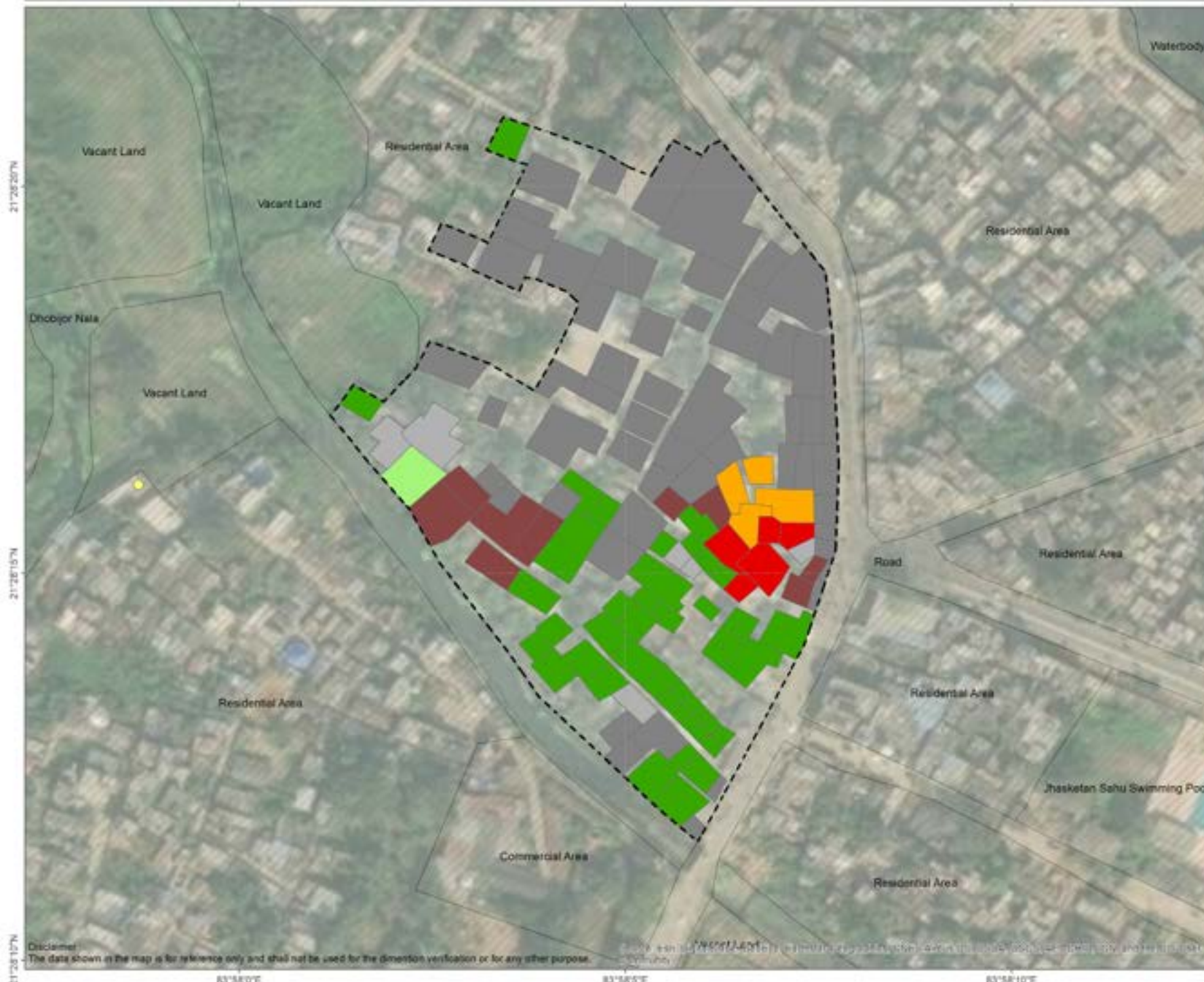




- Grey water disposed to :
- Single pit
 - Open drain
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

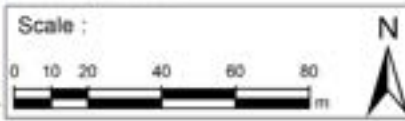
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





- Household disposing solid waste to :
- D to D service
 - Handover to municipal waste
 - Nearby community bin
 - In open plot, On road side & In open drains/waterbody
 - In open drains/waterbody & On road side
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

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



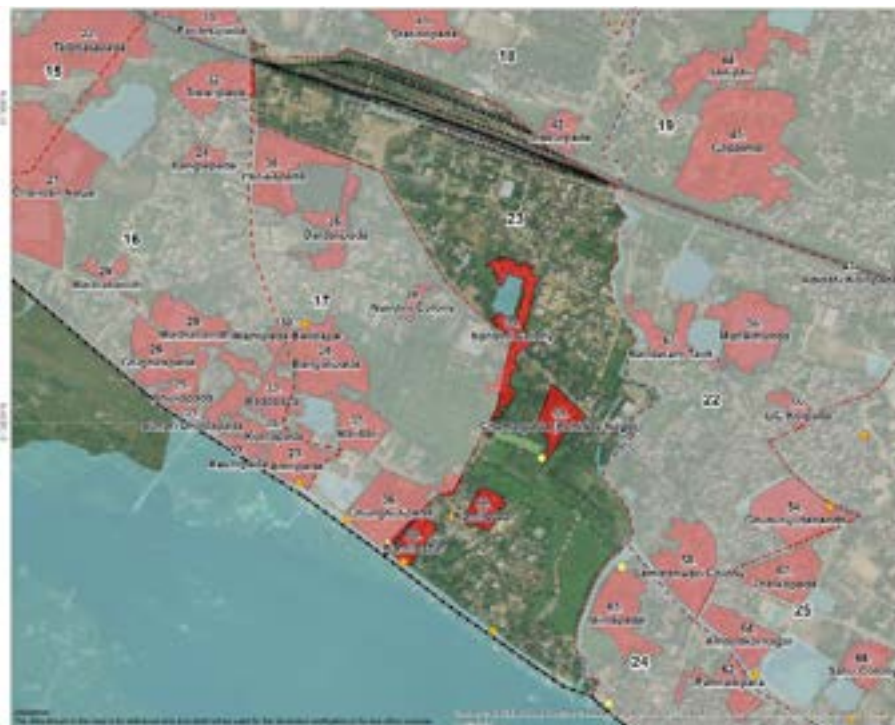
Ward - 23

Sambalpur

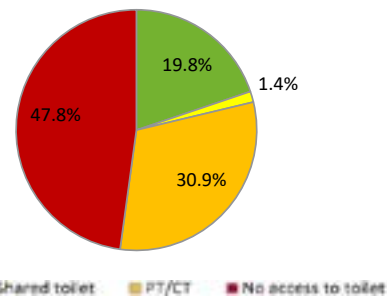
Ward name
23

Number of slums
2

Total number of households in slums
224



2. Access to toilets



| | |
|---|------------|
| Number of HHs having IHHL | 41 |
| % of functional IHHLs | 93% |
| Number of PT/CTs near the slum | 3 |
| Total number of persons dependent on PT/CTs | 269 |

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

% of IHHLs connected to septic tank/ soak pit/ twin pit **73%**

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

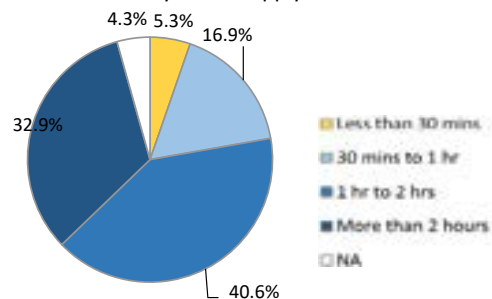
1. Access to municipal water supply



% of HHs with individual water tap connection **56%**

% of HHs satisfied with the quality of water supplied **90%**

Duration of daily water supply



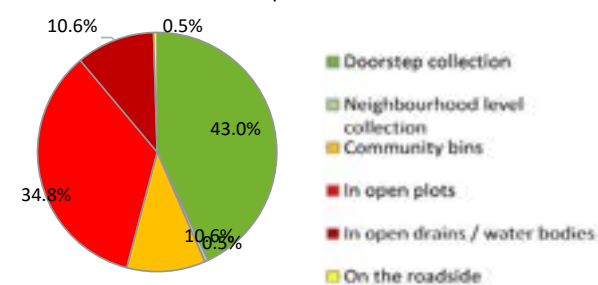
4. Solid waste management system



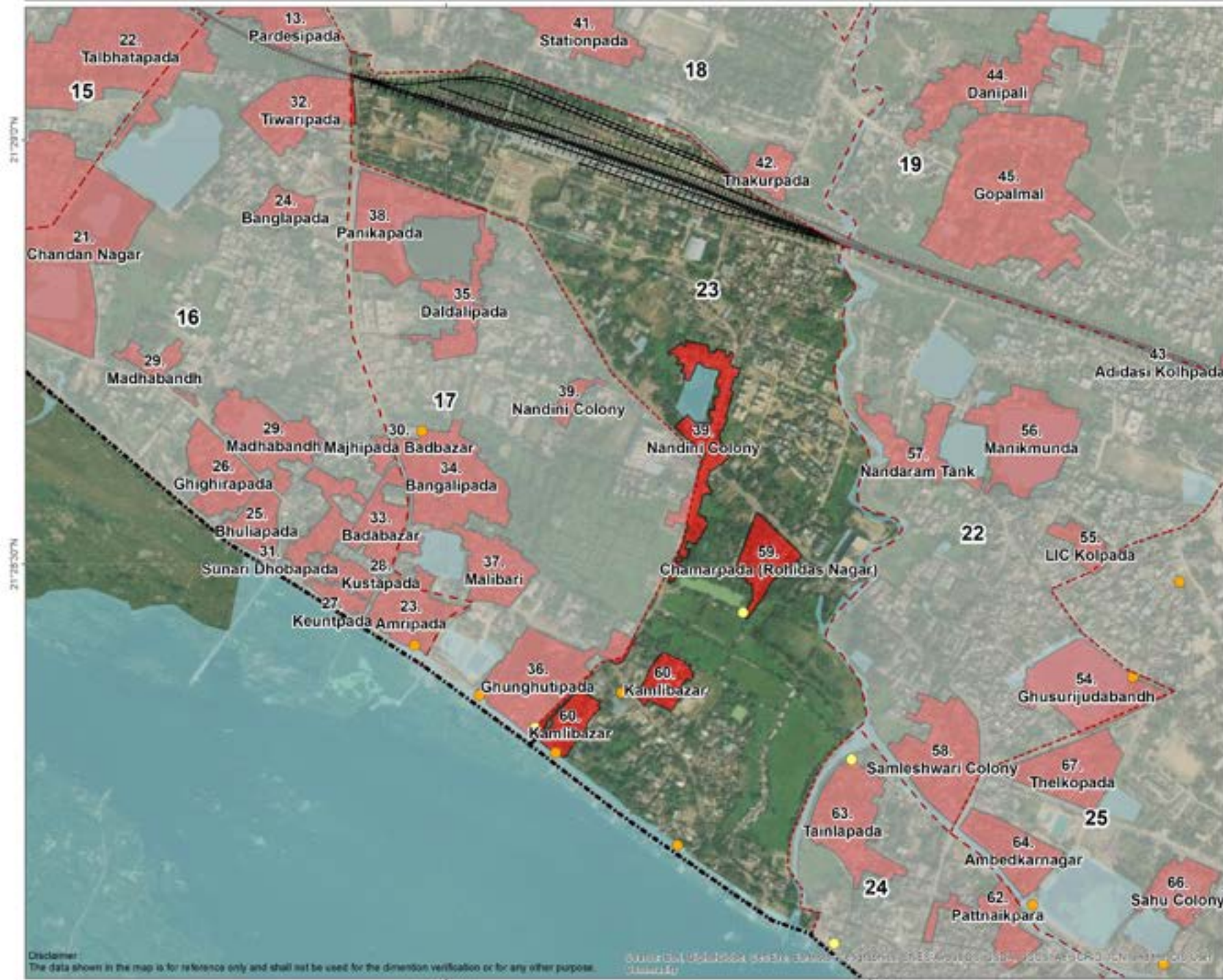
Total waste generation (kg) **248**

% of HHs segregating waste **44%**

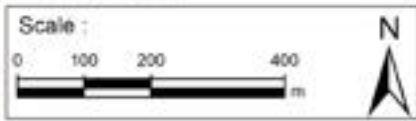
Method of HH waste disposal



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



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



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

59. Chamarpada

Sambalpur

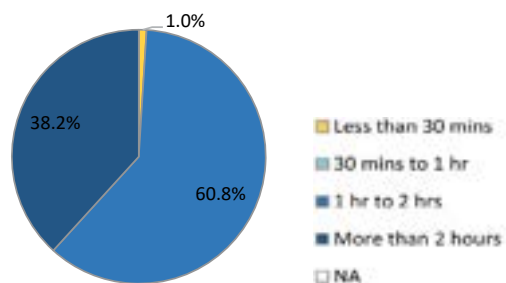
| | | | |
|---------------------------|------|--|------------------------------|
| Slum name | Ward | Total number of households in the slum | Approximate area of the slum |
| CHAMARPADA (ROHIDASNAGAR) | 23 | 110 | 1.4 ha |



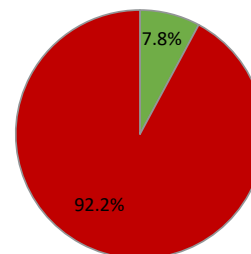
1. Access to municipal water supply

| | |
|---|------------|
| % of HHs with individual water tap connection | 71% |
| % of HHs satisfied with the quality of water supplied | 88% |

Duration of daily water supply



2. Access to toilets



| | |
|---|------------|
| Number of HHs having IHHL | 8 |
| % of functional IHHLs | 75% |
| Number of PT/CTs near the slum | 1 |
| Total number of persons dependent on PT/CTs | 4 |

3. Access to safe wastewater disposal system



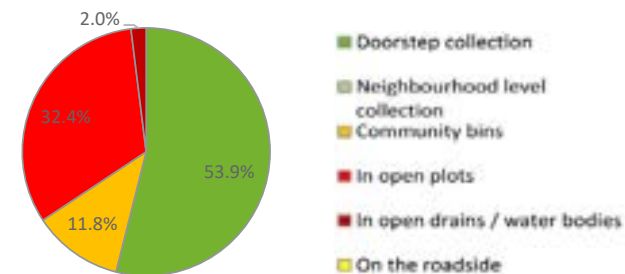
| | | | |
|---|------------|---|-----------|
| % of IHHLs connected to sewers | - | % of HHs connected with safe disposal system for grey water | 7% |
| % of IHHLs connected to septic tank/soak pit/twin pit | 38% | | |

4. Solid waste management system



| | |
|-----------------------------|------------|
| Total waste generation (kg) | 118 |
| % of HHs segregating waste | 56% |

Method of HH waste disposal



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



House ownership

- Owned
- Rented
- Locked house
- Other structures
- Non-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.



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

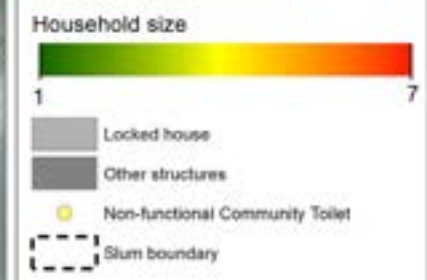
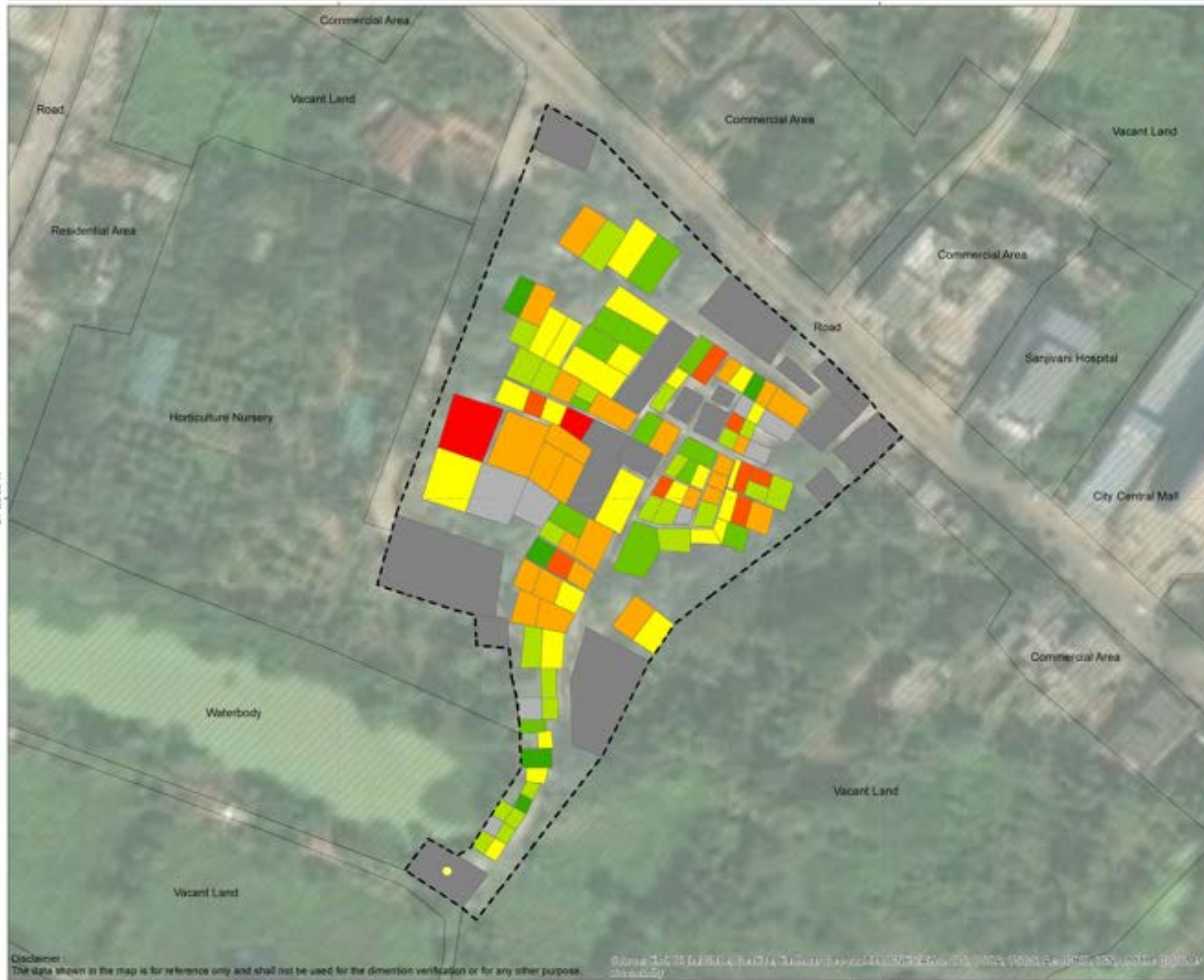


Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



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

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

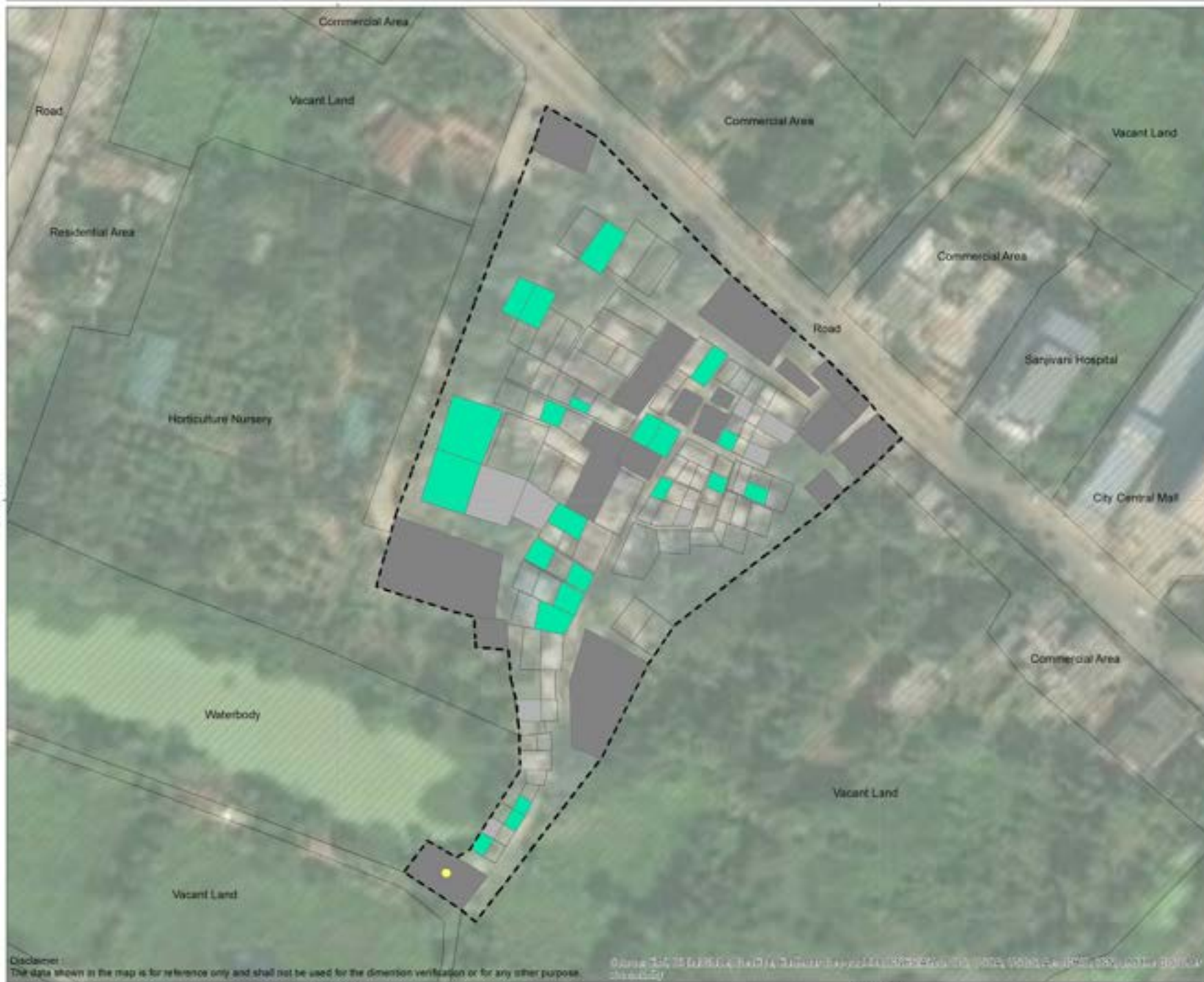


Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



Disclaimer :
This 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.



- Elderly citizen**
- HH have elderly citizen
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

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

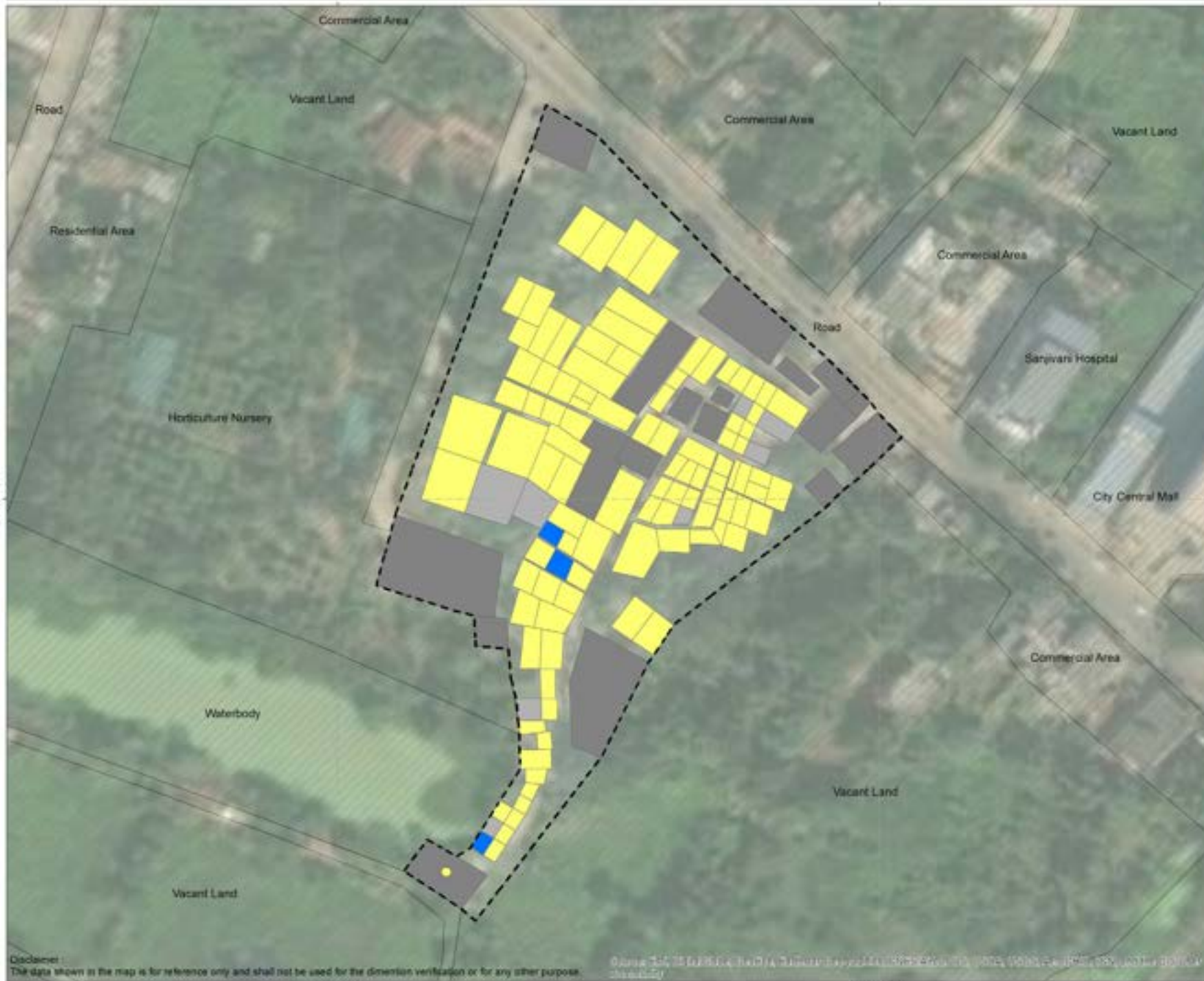


Disclaimer :
This data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

83°57'50"E

83°57'55"E

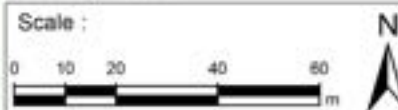
21°28'30"N



Household with PWD*

- Yes
 - No
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary
- * Person with Disabilities

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





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



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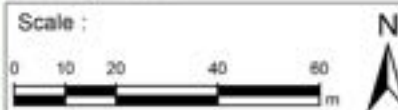
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.

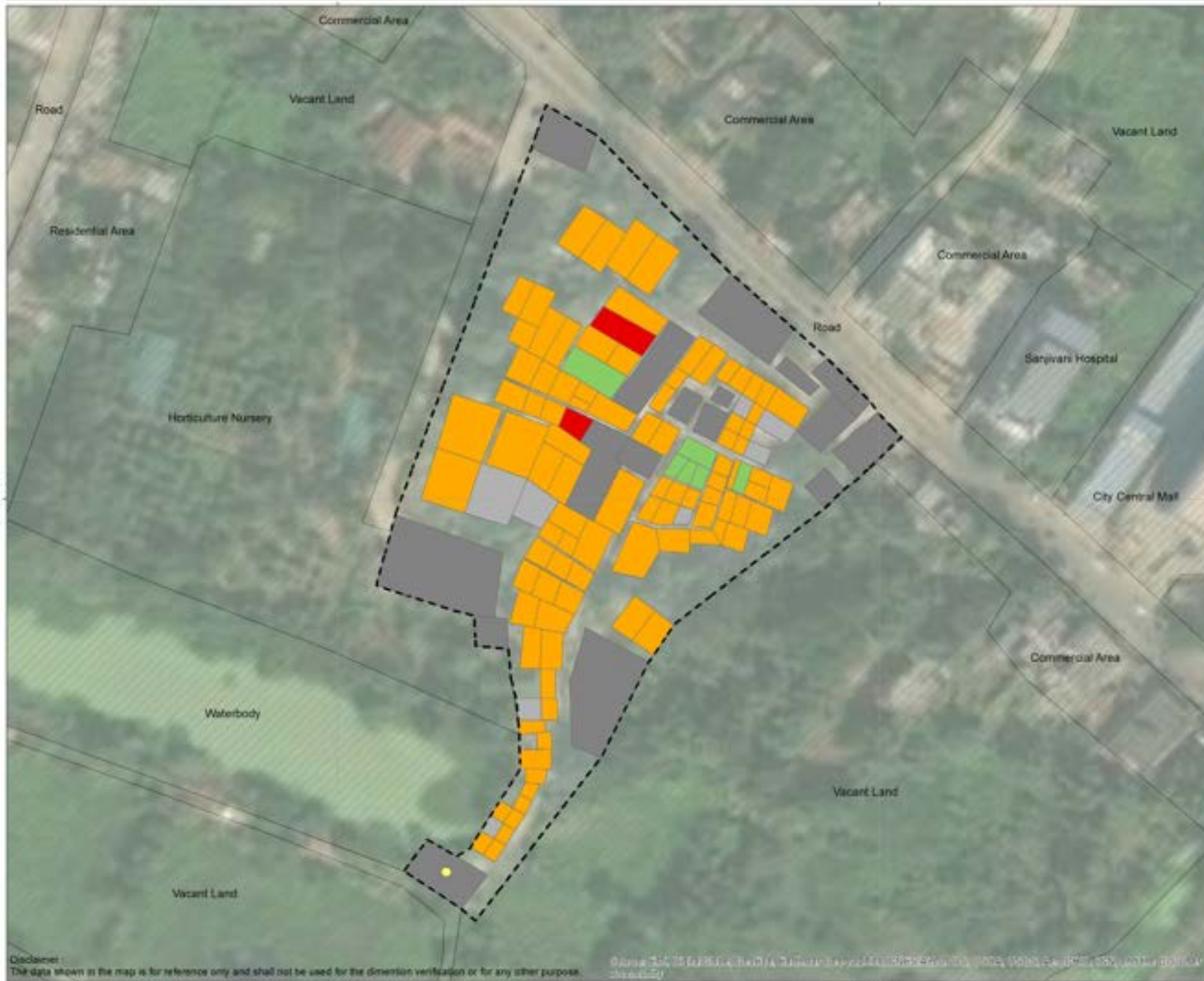


Source of water in household

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

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



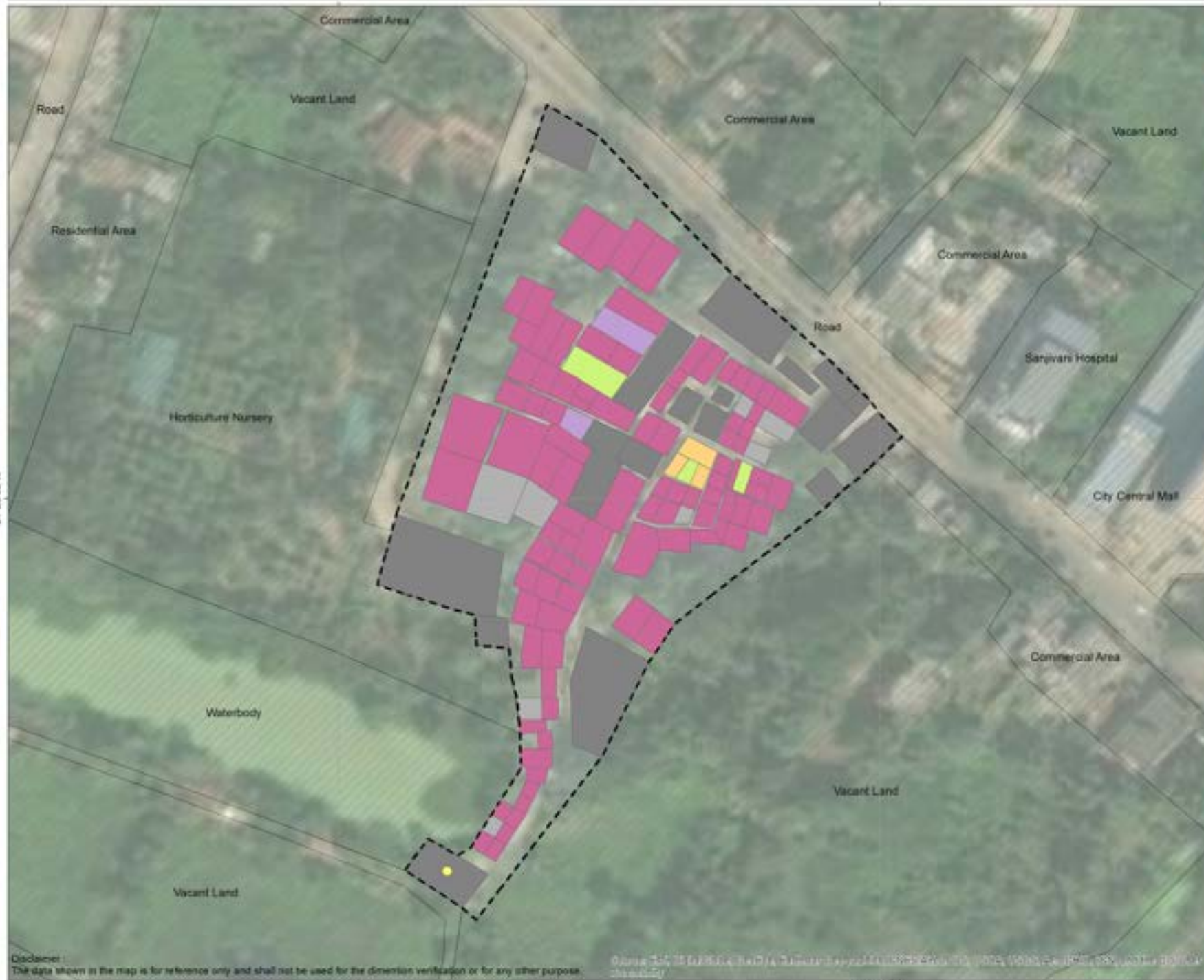


Functionality of IHHL

- Yes
- No
- No IHHL
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

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



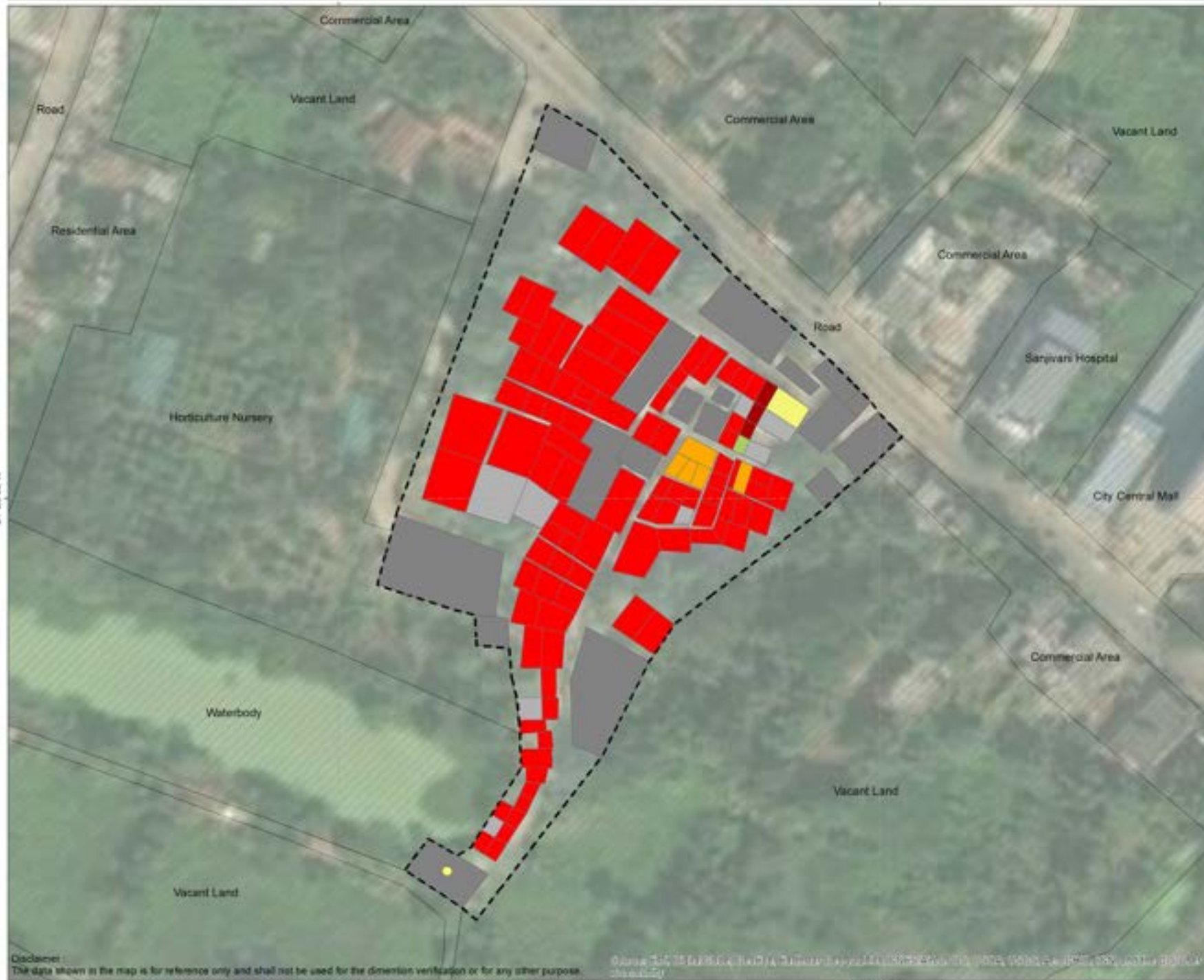


- IHHL connected to :**
- Soak pit
 - Open drain
 - Non-Functional IHHL
 - No IHHL
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

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



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



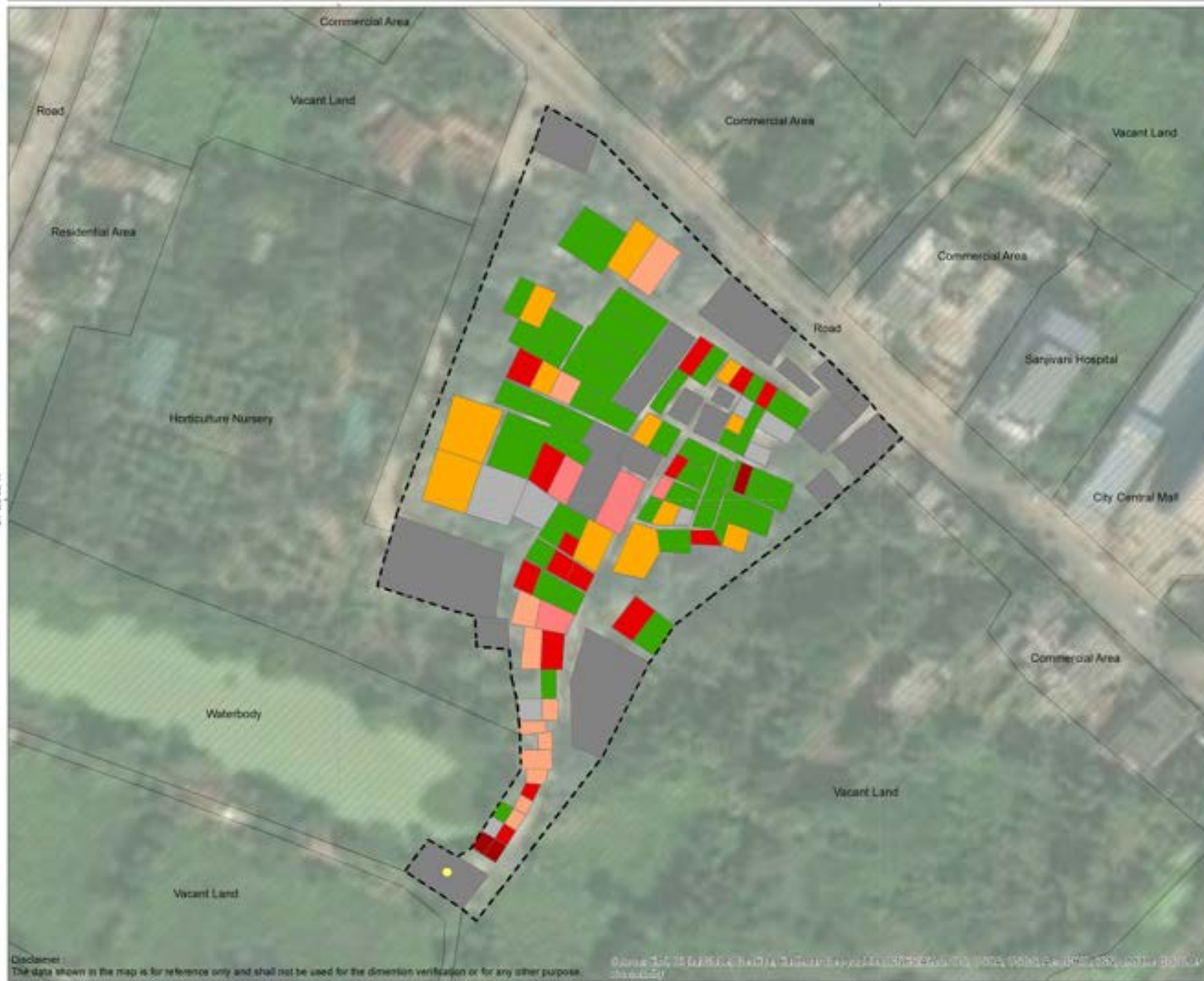
- Grey water disposed to :
- Septic tank
 - Single pit
 - Small pit (kundi) outside the house
 - Open drain
 - Water is let out on the street
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

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



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

83°57'50"E 83°57'55"E



- Household disposing solid waste to :**
- D to D service
 - Nearby community bin
 - In open plot & On road side
 - In open plot & in open drains/waterbody
 - In open plot, On road side & In open drains/waterbody
 - In open plot
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

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



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Source: USAID, MISAAAL, UMC, and other partners. Data collected from household surveys and other sources.

60. Kamlibazar

Sambalpur

Slum name
KAMLIBAZAR

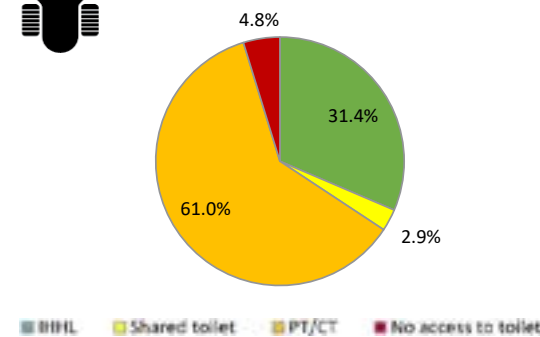
Ward
23

Total number of households in the slum
114

Approximate area of the slum
1.8 ha



2. Access to toilets



Number of HHs having IHHL **33**

% of functional IHHLs **97%**

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

Total number of persons dependent on PT/CTs **265**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

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

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

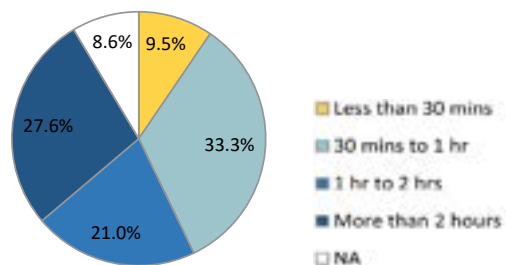
1. Access to municipal water supply



% of HHs with individual water tap connection **42%**

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

Duration of daily water supply



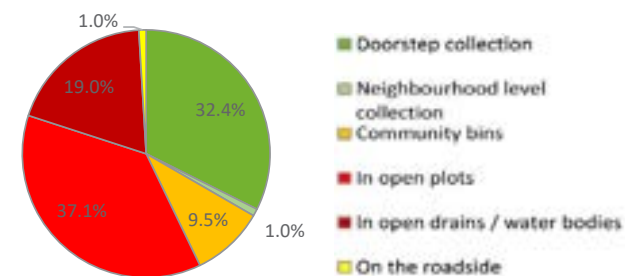
4. Solid waste management system



Total waste generation (kg) **130**

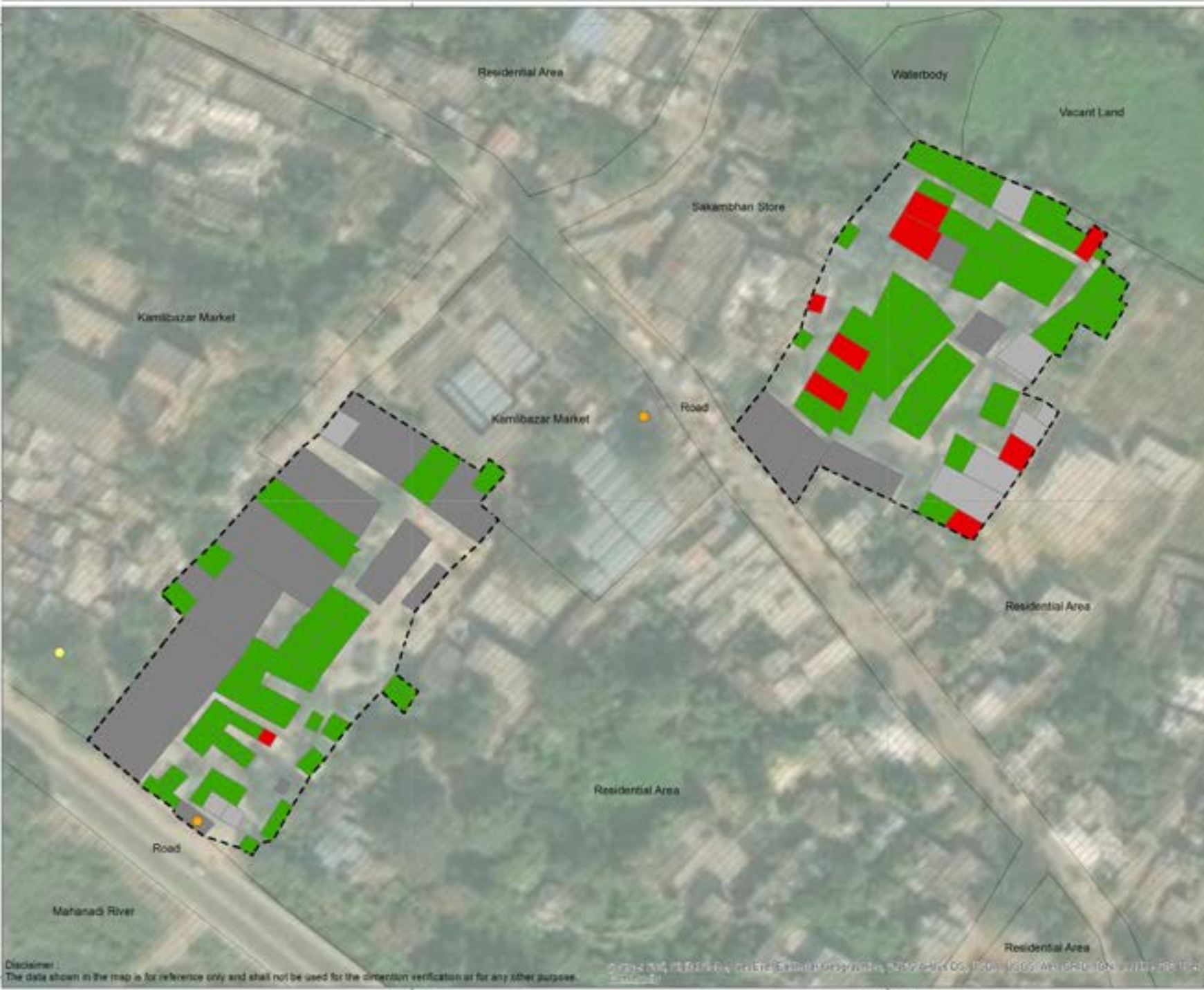
% of HHs segregating waste **32%**

Method of HH waste disposal



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

21°25'25"N
21°25'25"N
21°25'15"N

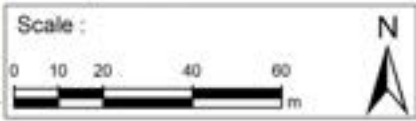


House ownership

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

As per the verbal information provided by the respondents.

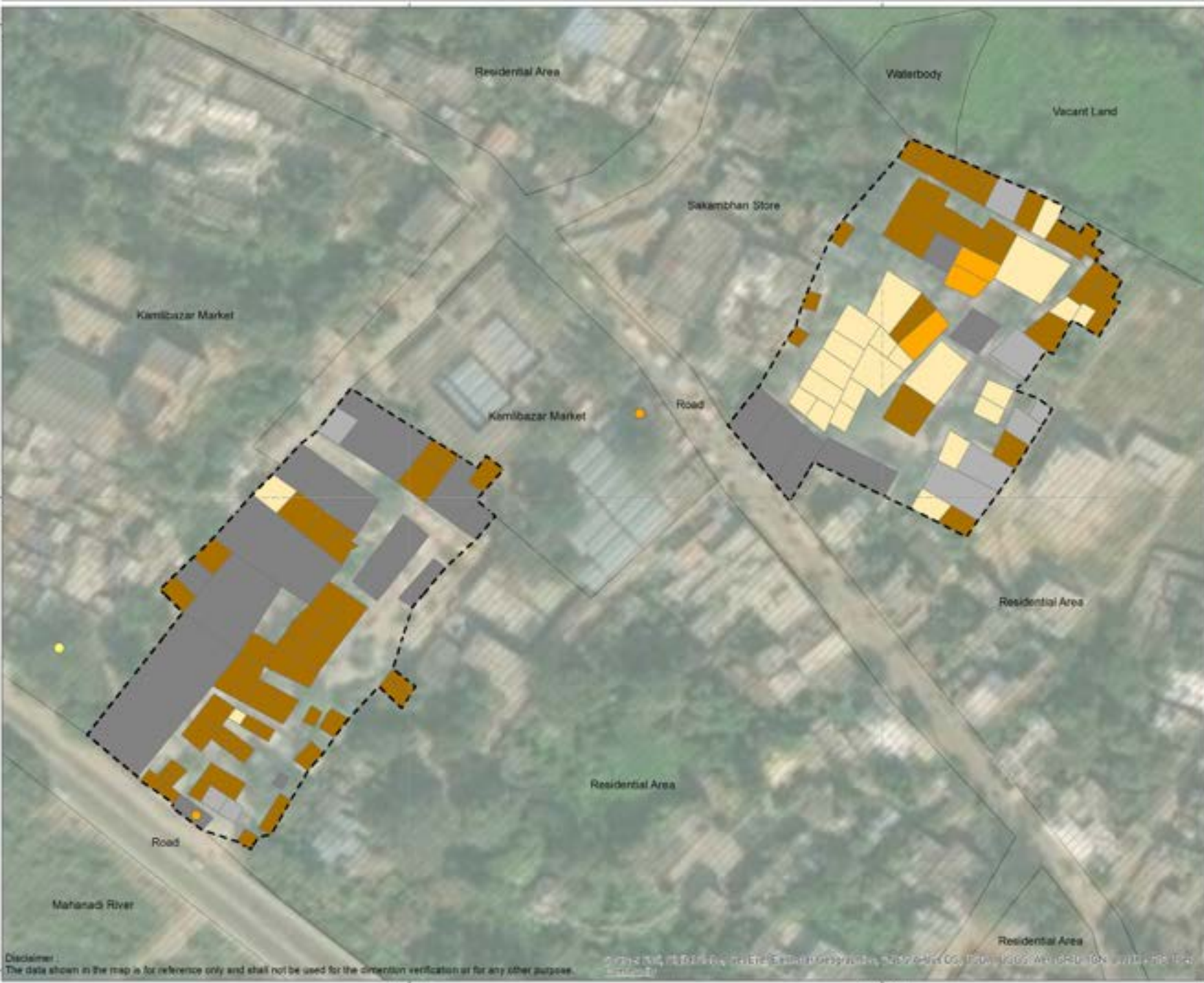
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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

83°57'40"E 83°57'45"E

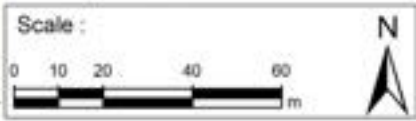
21°26'25"N
21°26'25"N
21°26'15"N



Number of floors in the building

-  Ground floor
-  Ground floor + 1
-  Ground floor + 2
-  Locked house
-  Other structures
-  Non-functional Community Toilet
-  Functional Community Toilet
-  Slum boundary

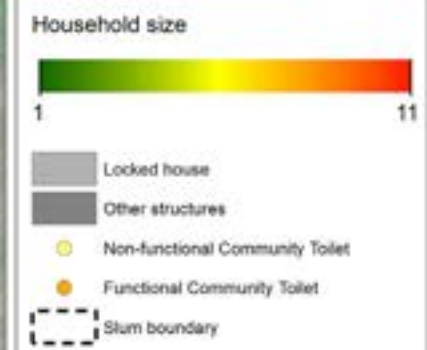
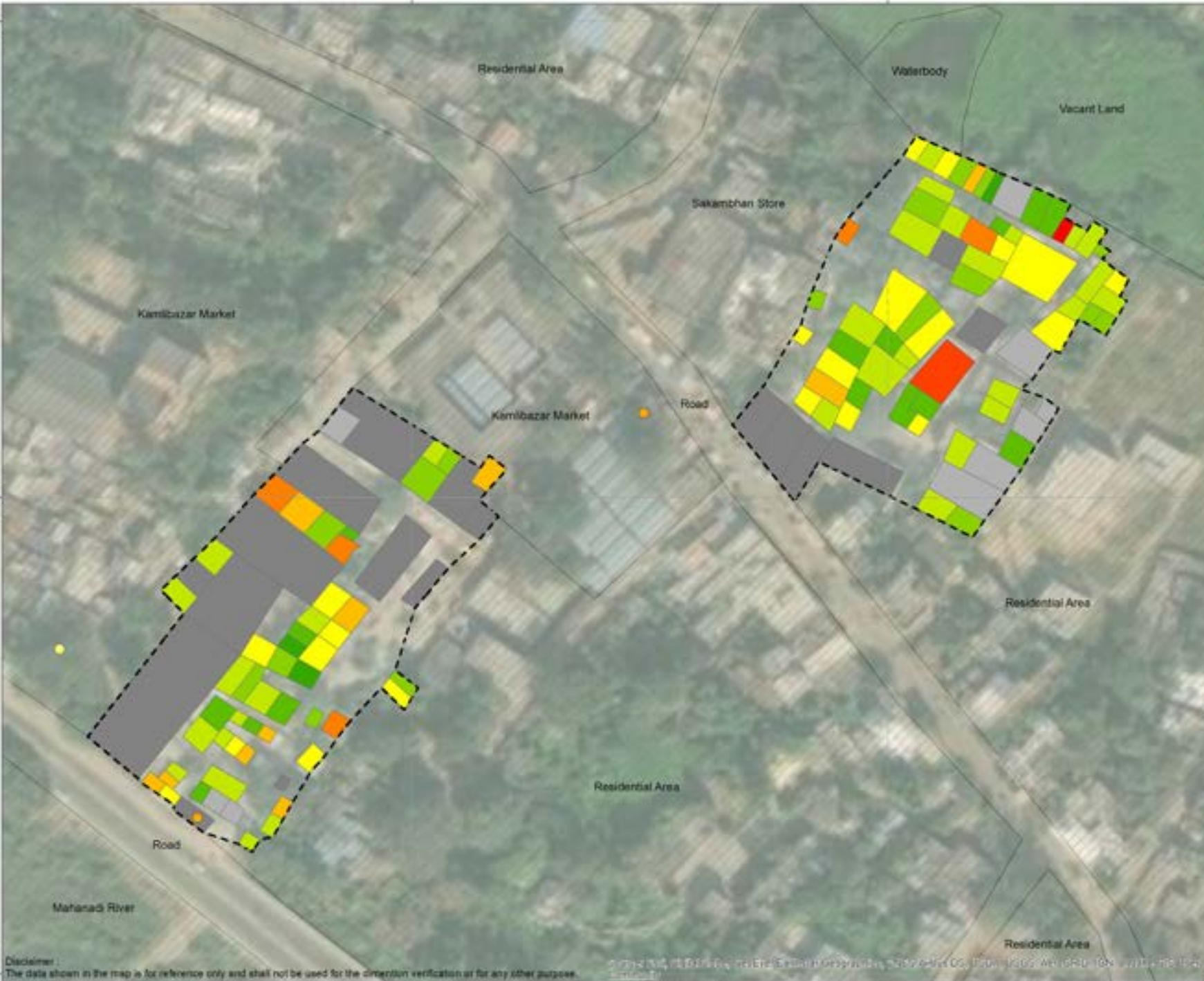
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



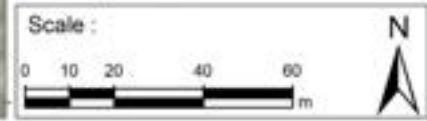
Disclaimer :
The data shown in the map is for reference only and shall not be used for the citation verification or for any other purpose.

83°57'40"E 83°57'45"E

21°26'25"N
21°26'25"N
21°26'15"N



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



Disclaimer :
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83°57'40"E 83°57'45"E

21°26'25"N
21°26'25"N
21°26'15"N



- Elderly citizen**
- HH have elderly citizen
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Functional Community Toilet
 - Slum boundary

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

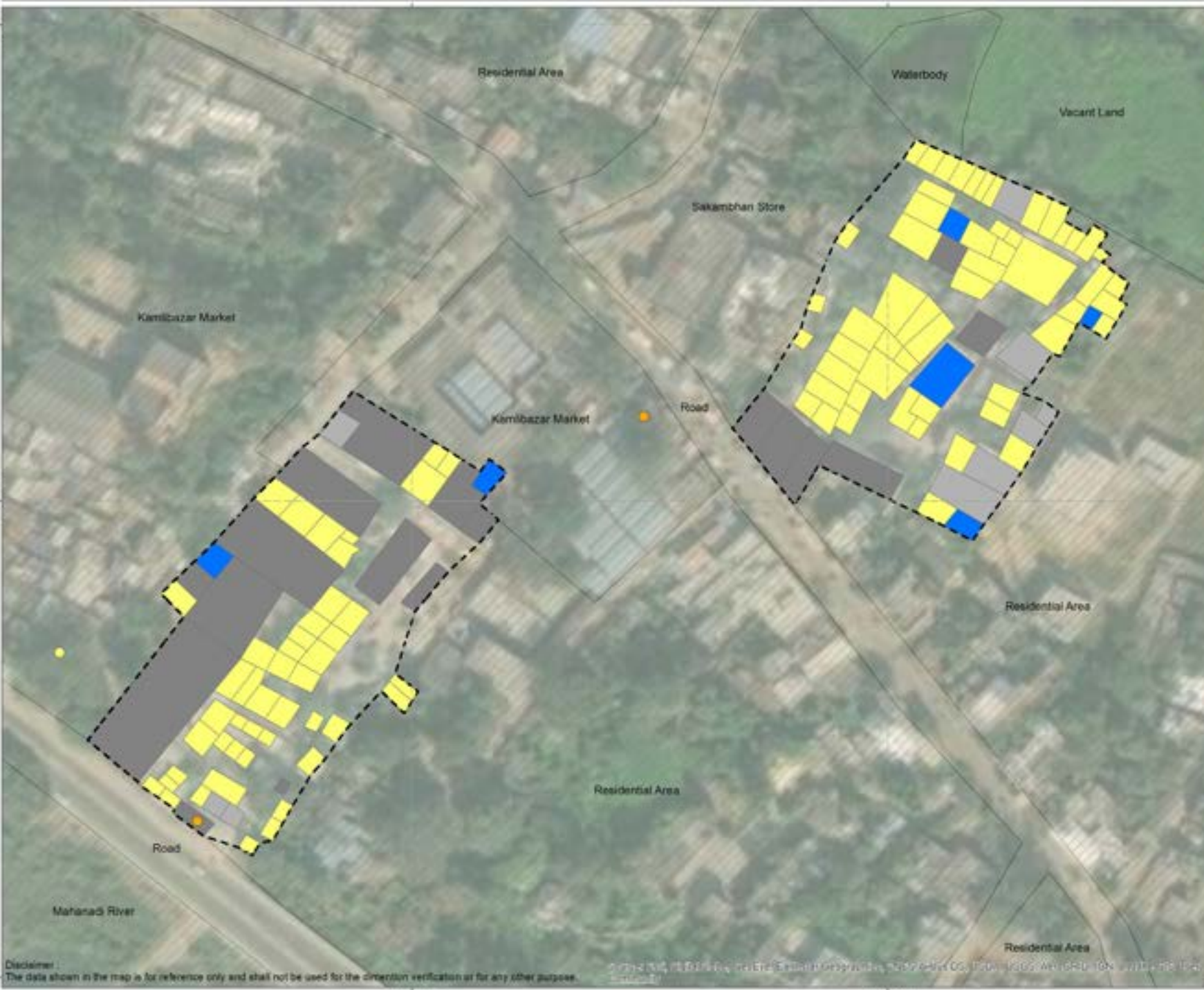


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83°57'40"E 83°57'45"E

21°26'25"N
21°26'25"N
21°26'15"N

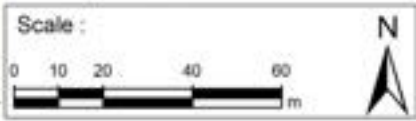


Household with PWD*

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

* Person with Disabilities

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



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83°57'40"E 83°57'45"E

21°26'25"N
21°26'25"N
21°26'15"N
21°26'15"N



- Household part of SHG**
- Yes
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Functional Community Toilet
 - Slum boundary

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



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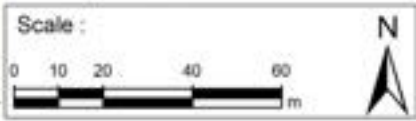
83°57'40"E 83°57'45"E

21°25'25"N
21°25'25"N
21°25'15"N
21°25'15"N



- Source of water in household**
- Tap connection at home
 - Tap connection at home & Stand post
 - Tap connection at home & Fetching water from neighbourhood
 - Stand post
 - Stand post & Fetching water from neighbourhood
 - Private water tanker
 - Hand pump
 - Fetching water from neighbourhood
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Functional Community Toilet
 - Slum boundary

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

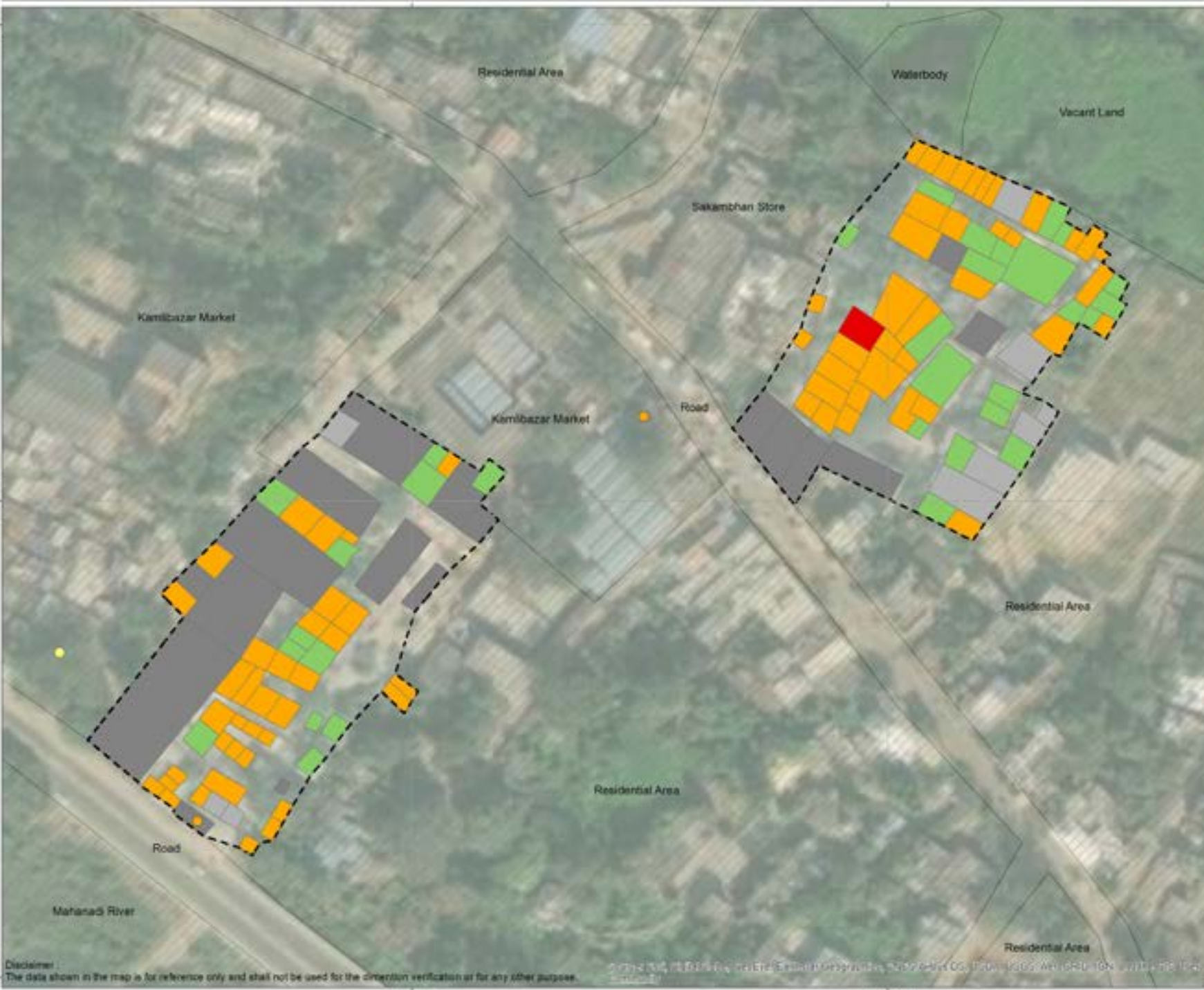


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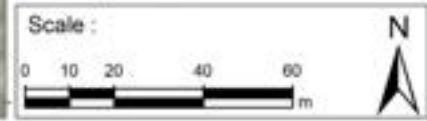
Source: https://www.cia.gov/library/publications/the-world-factbook/docs/1001_1002_Worldwide_Web_2014.pdf

83°57'40"E 83°57'45"E

21°25'25"N
21°25'25"N
21°25'15"N



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

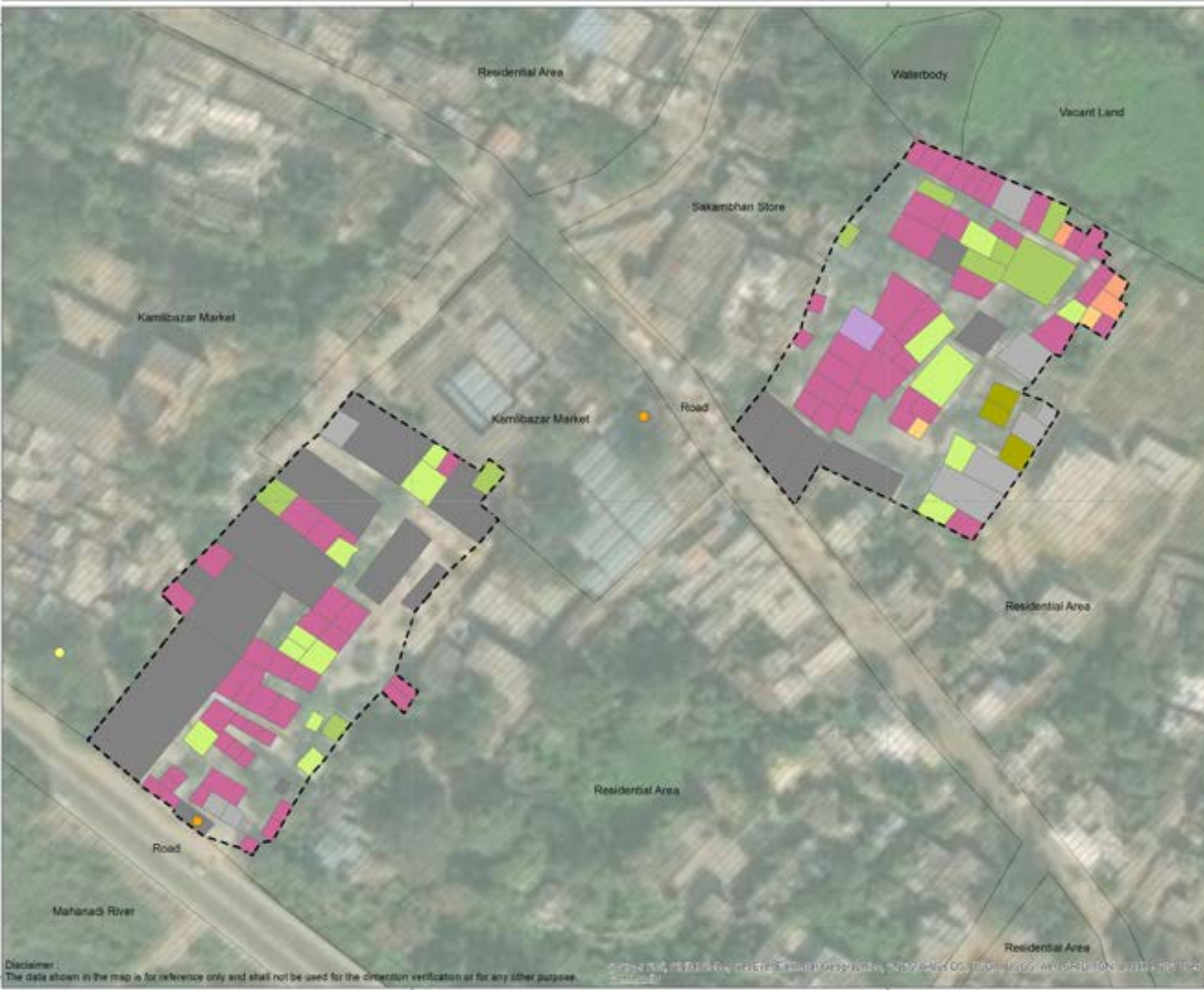


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83°57'40"E 83°57'45"E

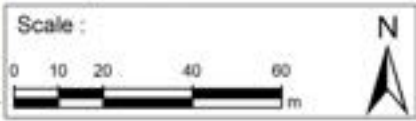
21°26'25"N
21°26'25"N
21°26'15"N



IHHL connected to :

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

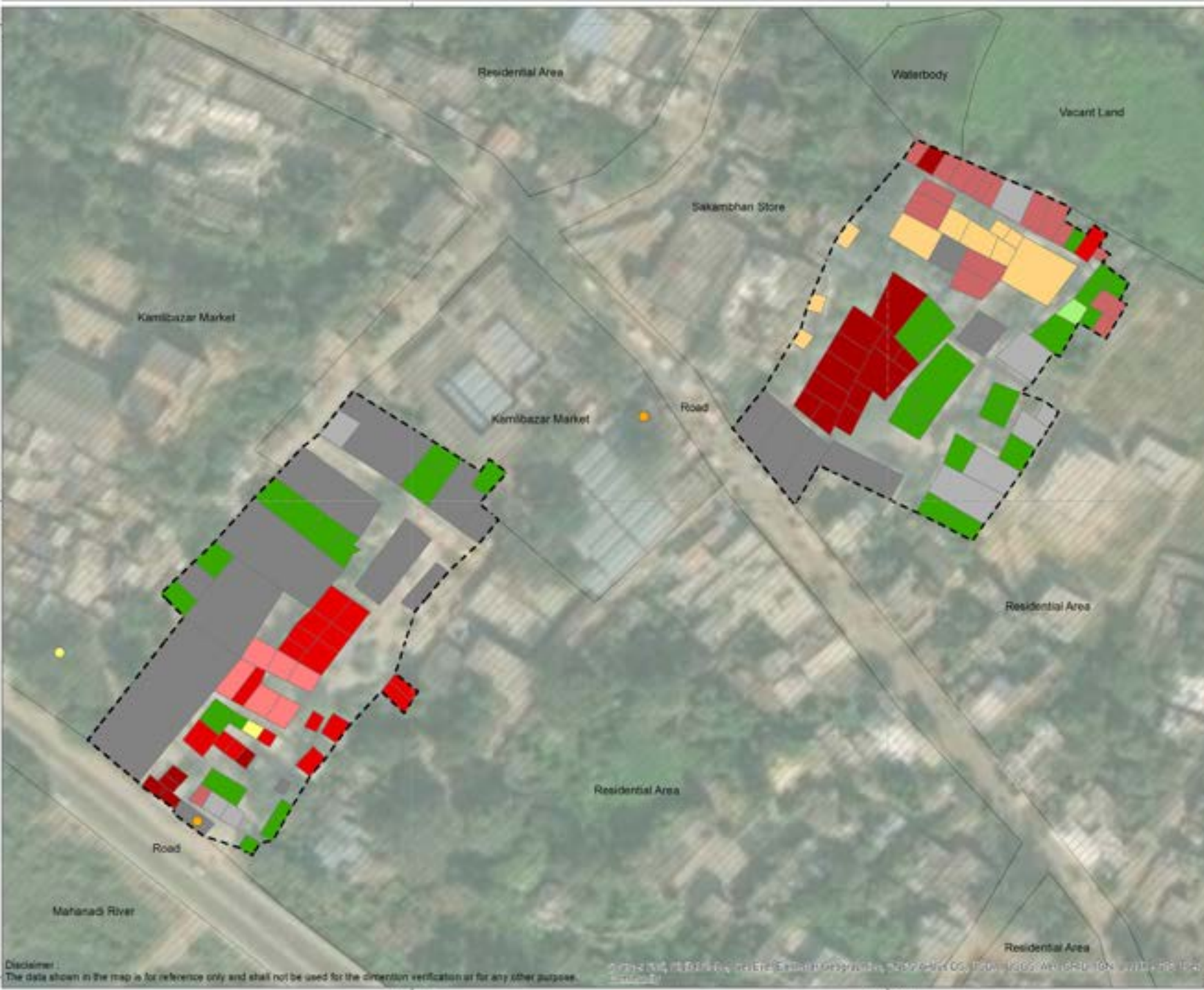
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



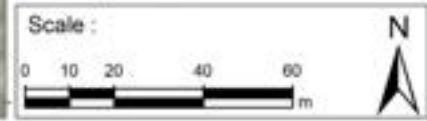
Disclaimer :
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83°57'40"E 83°57'45"E

21°26'25"N
21°26'25"N
21°26'15"N
21°26'15"N



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



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

Source: UMC, 2019. Data from the primary household survey of slums in Sambalpur, Odisha.

83°57'40"E 83°57'45"E

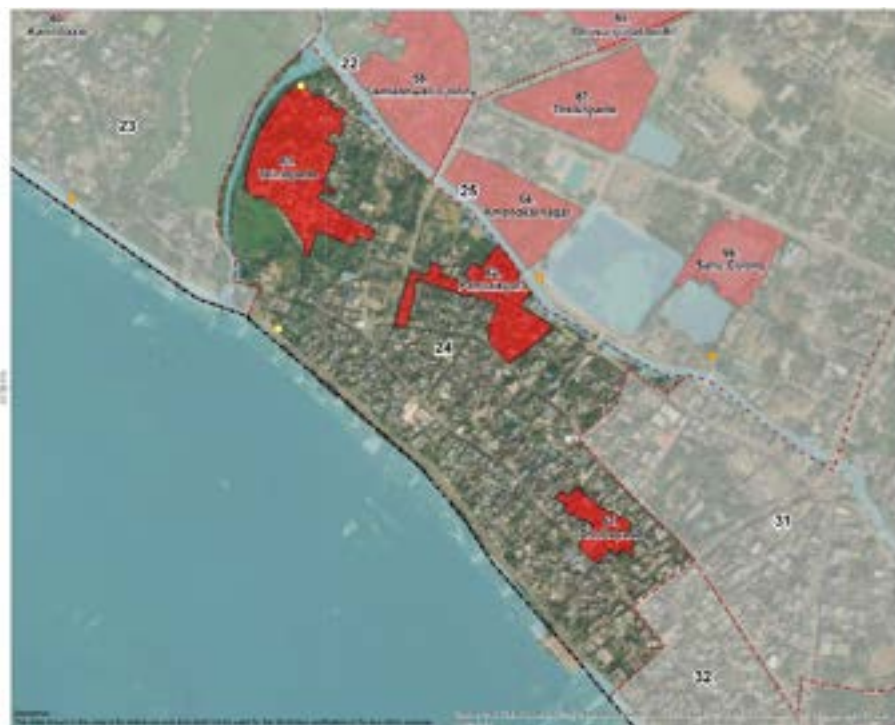
Ward - 24

Sambalpur

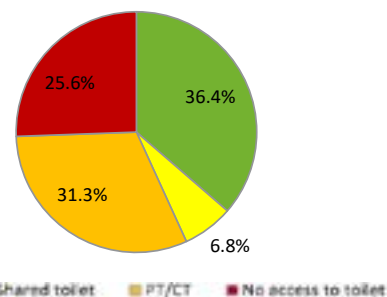
Ward name
24

Number of slums
3

Total number of households in slums
304



2. Access to toilets



Number of HHs having IHHL **64**

% of functional IHHLs **100%**

Number of PT/CTs near the slum **3**

Total number of persons dependent on PT/CTs **224**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

% of HHs connected with safe disposal system for grey water **27%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **78%**

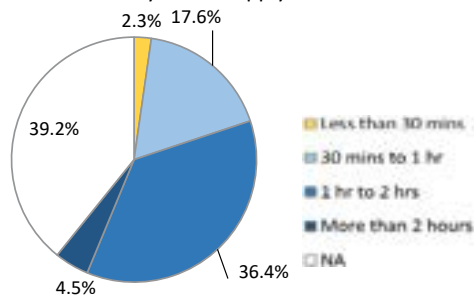
1. Access to municipal water supply



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

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

Duration of daily water supply



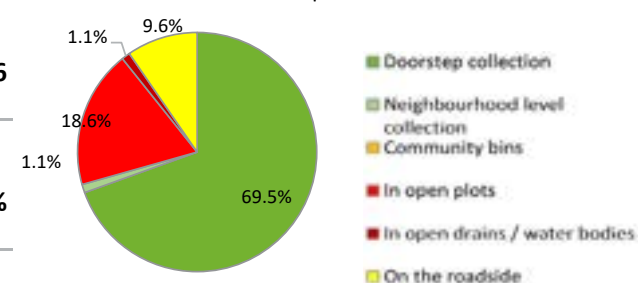
4. Solid waste management system



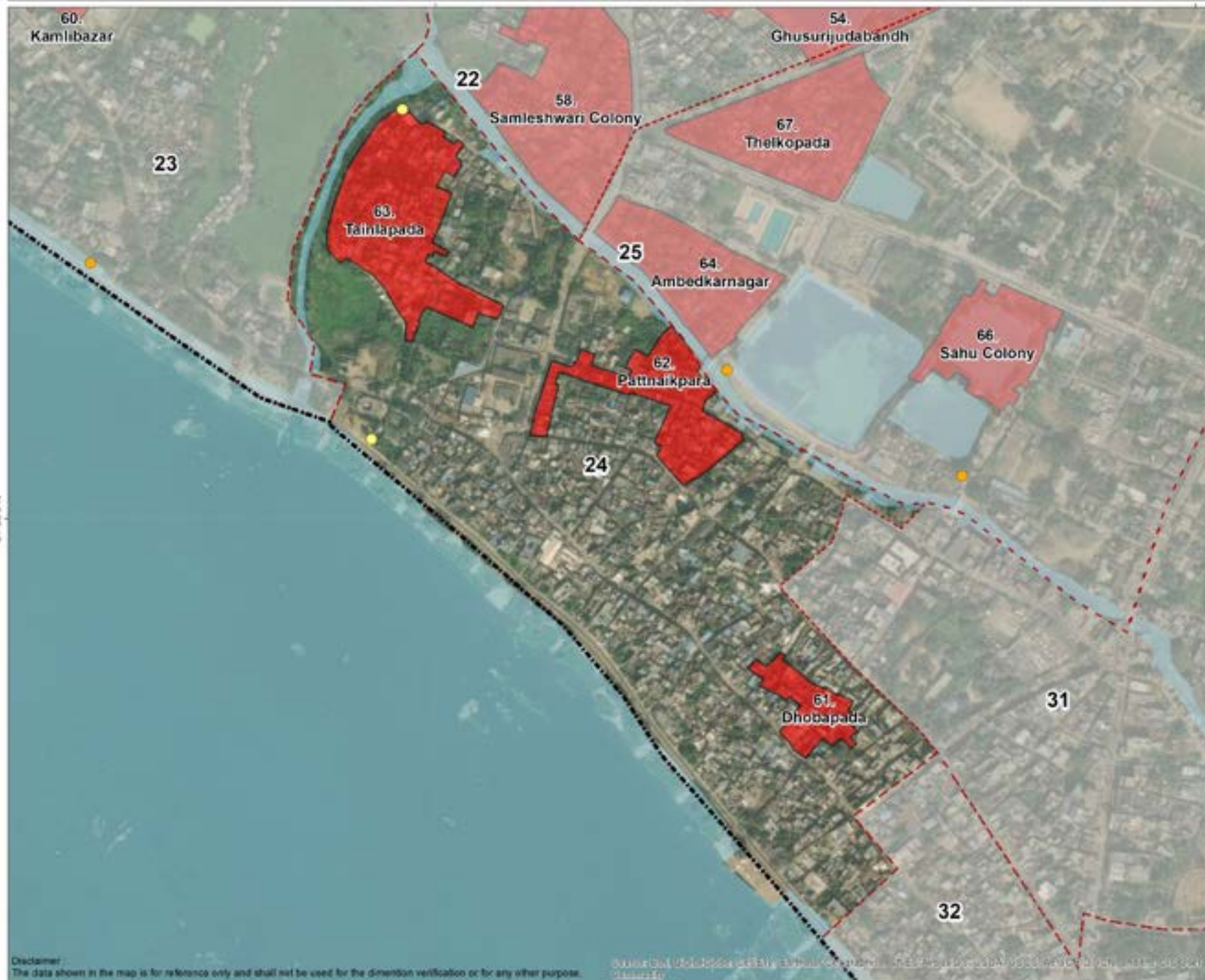
Total waste generation (kg) **216**

% of HHs segregating waste **20%**

Method of HH waste disposal



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



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



Disclaimer :
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Source: OIA, Urban Management Centre, Sambalpur, Odisha. Prepared by: USAID/VOSS/Watson & Associates/UMC/2019

21°28'07"N

83°58'0"E

83°58'30"E

61. Dhobapada

Sambalpur

Slum name
DHOBAPADA

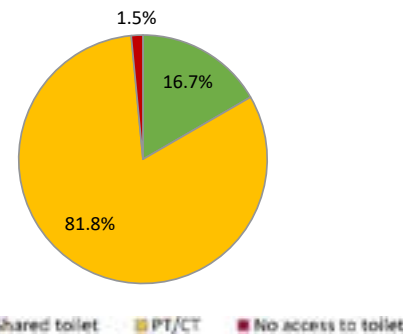
Ward
24

Total number of households in the slum
72

Approximate area of the slum
0.7 ha



2. Access to toilets



| | |
|---|-------------|
| Number of HHs having IHHL | 11 |
| % of functional IHHLs | 100% |
| Number of PT/CTs near the slum | - |
| Total number of persons dependent on PT/CTs | 215 |

3. Access to safe wastewater disposal system



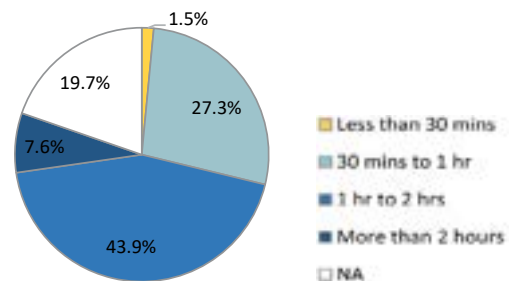
| | | | |
|---|------------|---|------------|
| % of IHHLs connected to sewers | - | % of HHs connected with safe disposal system for grey water | 11% |
| % of IHHLs connected to septic tank/ soak pit/ twin pit | 91% | | |

1. Access to municipal water supply



| | |
|---|-------------|
| % of HHs with individual water tap connection | 14% |
| % of HHs satisfied with the quality of water supplied | 100% |

Duration of daily water supply

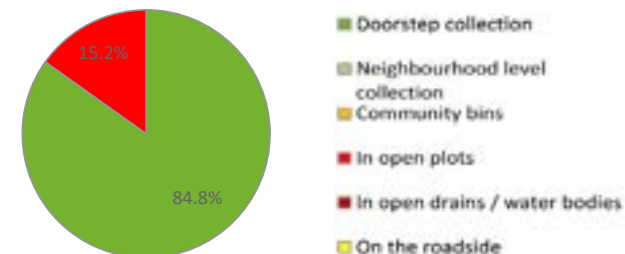


4. Solid waste management system



| | |
|-----------------------------|------------|
| Total waste generation (kg) | 79 |
| % of HHs segregating waste | 53% |

Method of HH waste disposal



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



As per the verbal information provided by the respondents.

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





Number of floors in the building

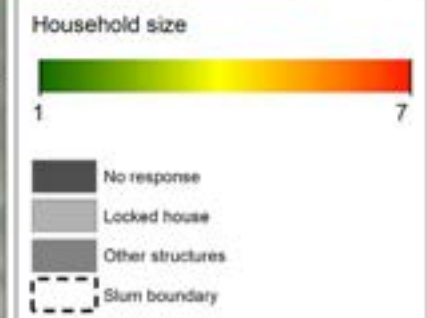
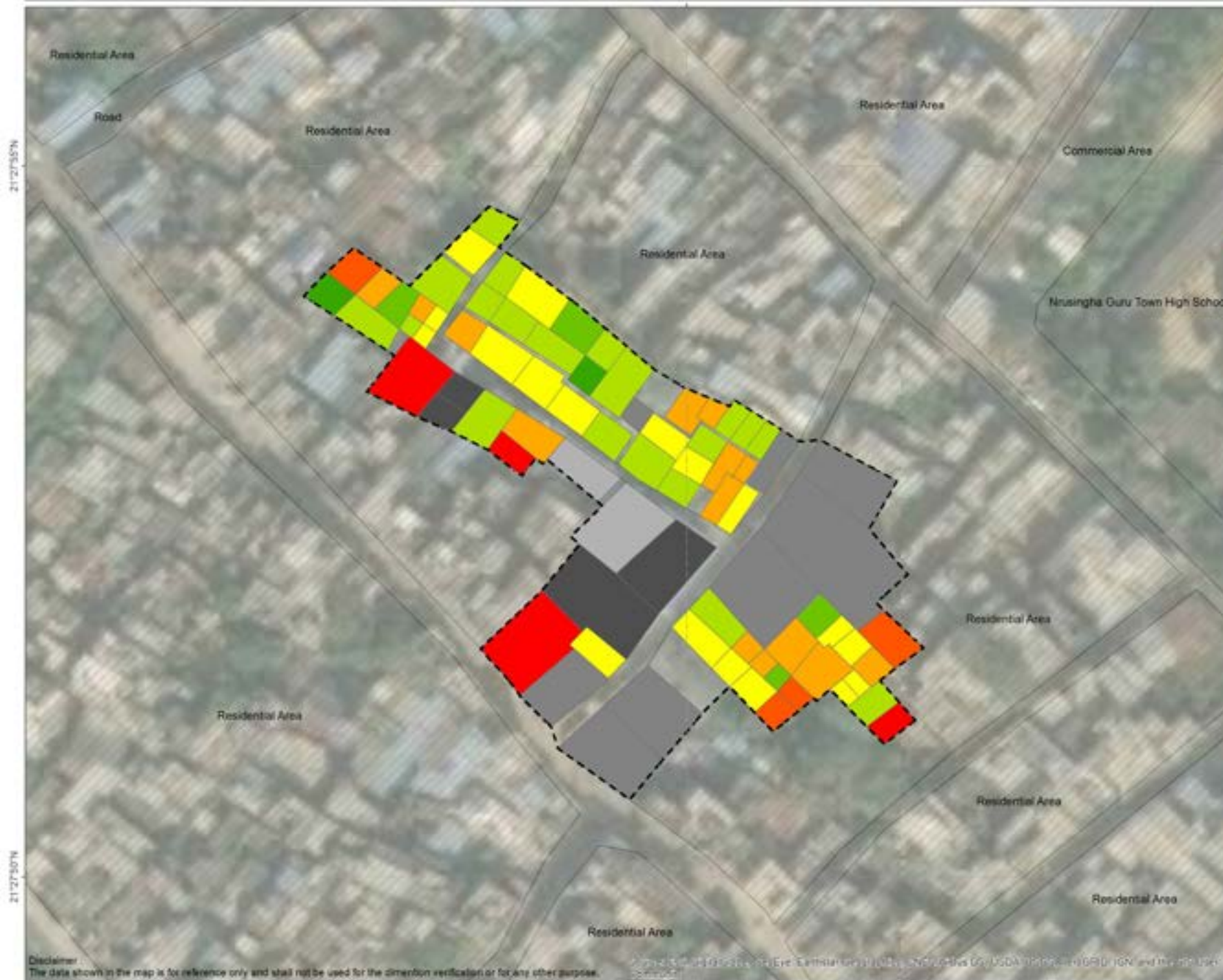
- Ground floor
- Ground floor + 1
- Ground floor + 2
- No response
- Locked house
- Other structures
- Slum boundary

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



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Source: UMC (2019) Primary Household Survey of Slums in Sambalpur, Odisha.

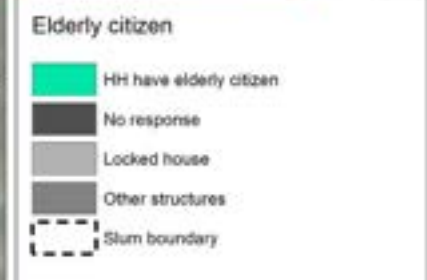


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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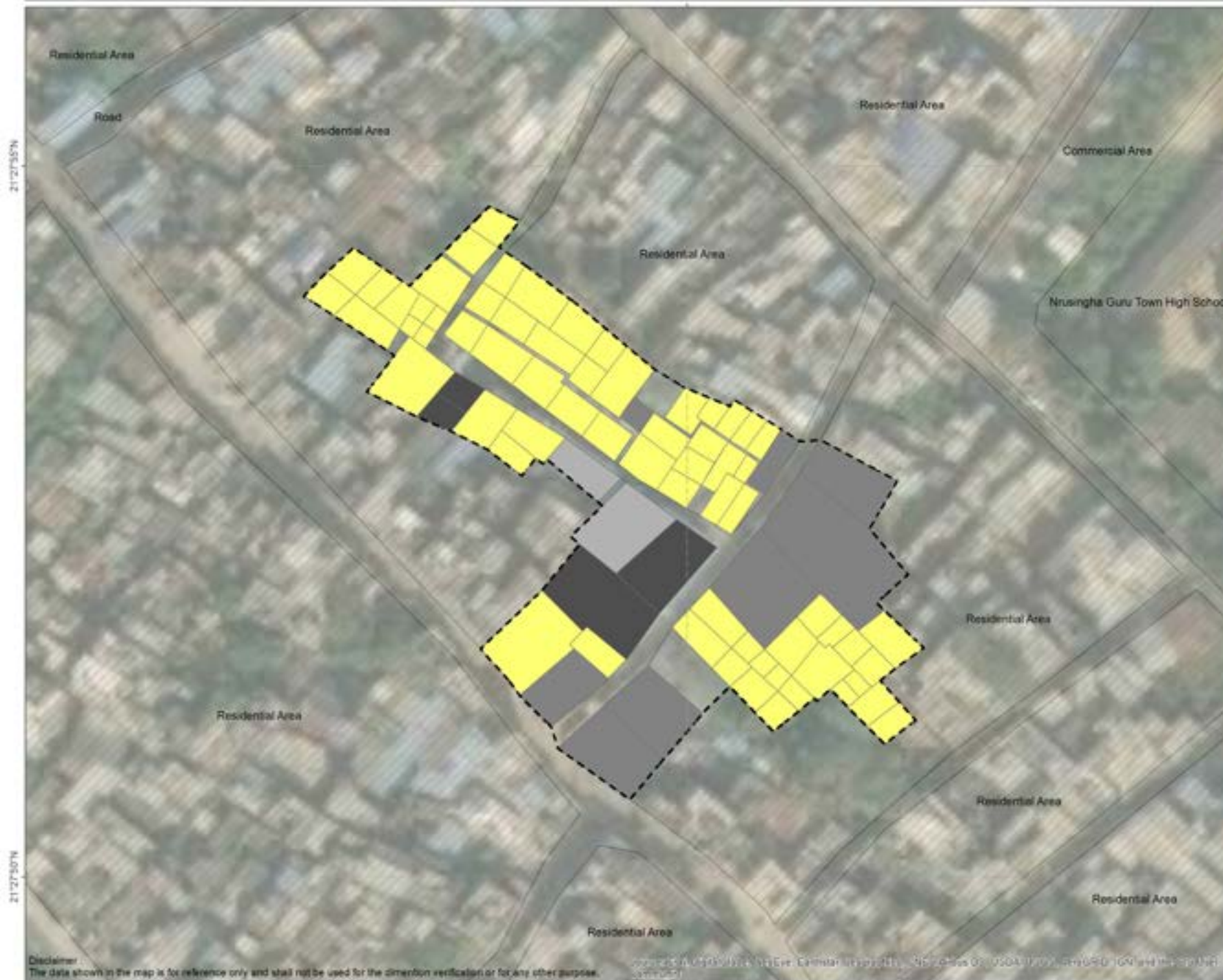


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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Household with PWD*

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

* Person with Disabilities

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



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



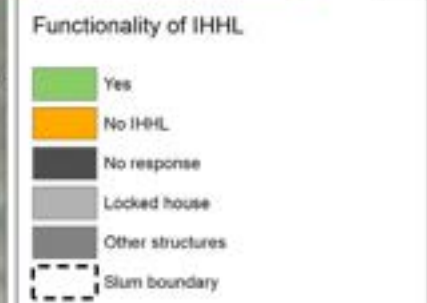
- Source of water in household**
- Tap connection at home
 - Stand post
 - Private water tanker & Hand pump
 - Hand pump
 - Hand pump & Fetching water from neighbourhood
 - Fetching water from neighbourhood
 - Nearby water bodies
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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



Disclaimer:
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Source: UMC (2019). Primary household survey of slums in Sambalpur, Odisha.

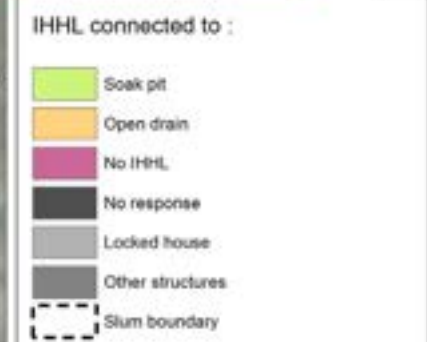


Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



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Source: UMC (2019) Primary Household Survey of Slums in Sambalpur, Odisha



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



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Source: UMC (2019) Primary Household Survey of Slums in Sambalpur, Odisha. Digitized by USAID/PROSPERITY/OD/HR/19/001



- Grey water disposed to :
- Single pit
 - Small pit (kundi) outside the house
 - Open drain
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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



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



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62. Pattnaikpara

Sambalpur

Slum name
PATTNAIKPADA

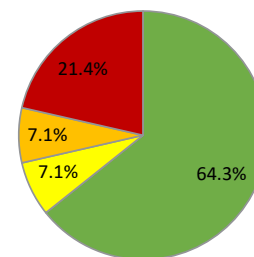
Ward
24

Total number of households in the slum
106

Approximate area of the slum
1.5 ha



2. Access to toilets



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

Number of HHs having IHHL **9**

% of functional IHHLs **100%**

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

Total number of persons dependent on PT/CTs **9**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

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

% of IHHLs connected to septic tank/soak pit/twin pit **33%**

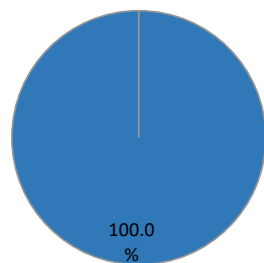
1. Access to municipal water supply



% of HHs with individual water tap connection **100%**

% 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

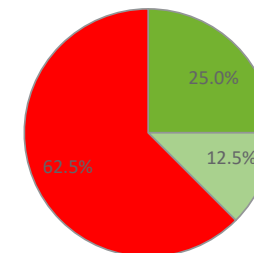
4. Solid waste management system



Total waste generation (kg) **17**

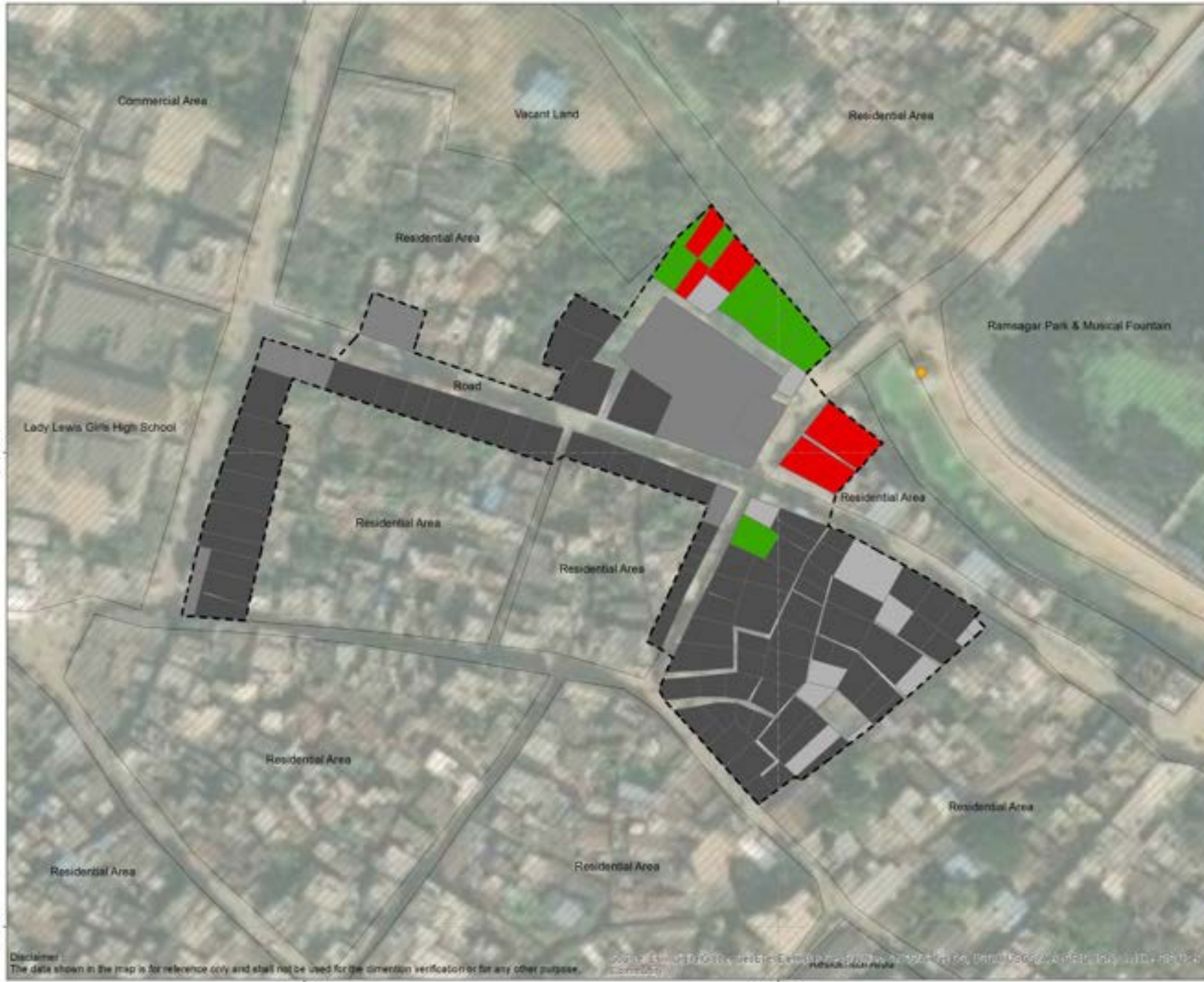
% of HHs segregating waste -

Method of HH waste disposal



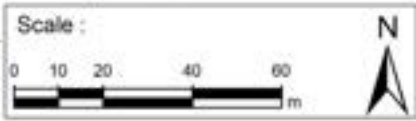
■ Doorstep collection
■ Neighbourhood level collection
■ Community bins
■ In open plots
■ In open drains / water bodies
■ On the roadside

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



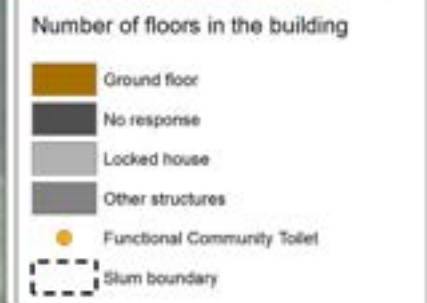
As per the verbal information provided by the respondents.

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

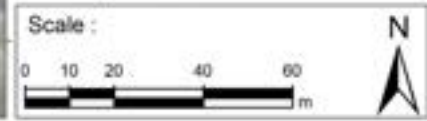


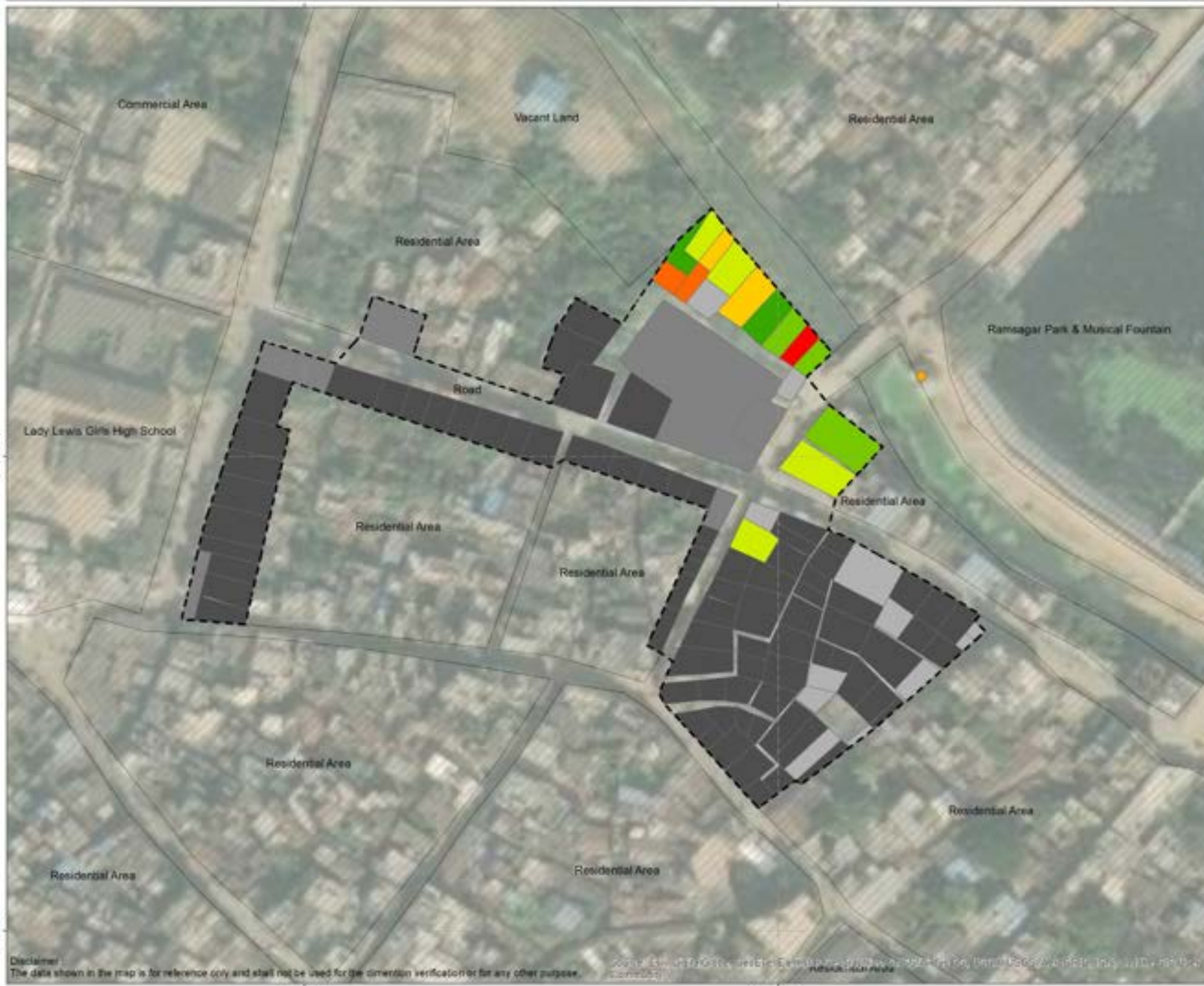
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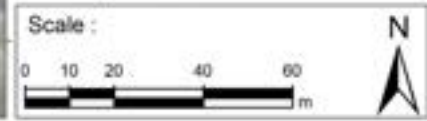


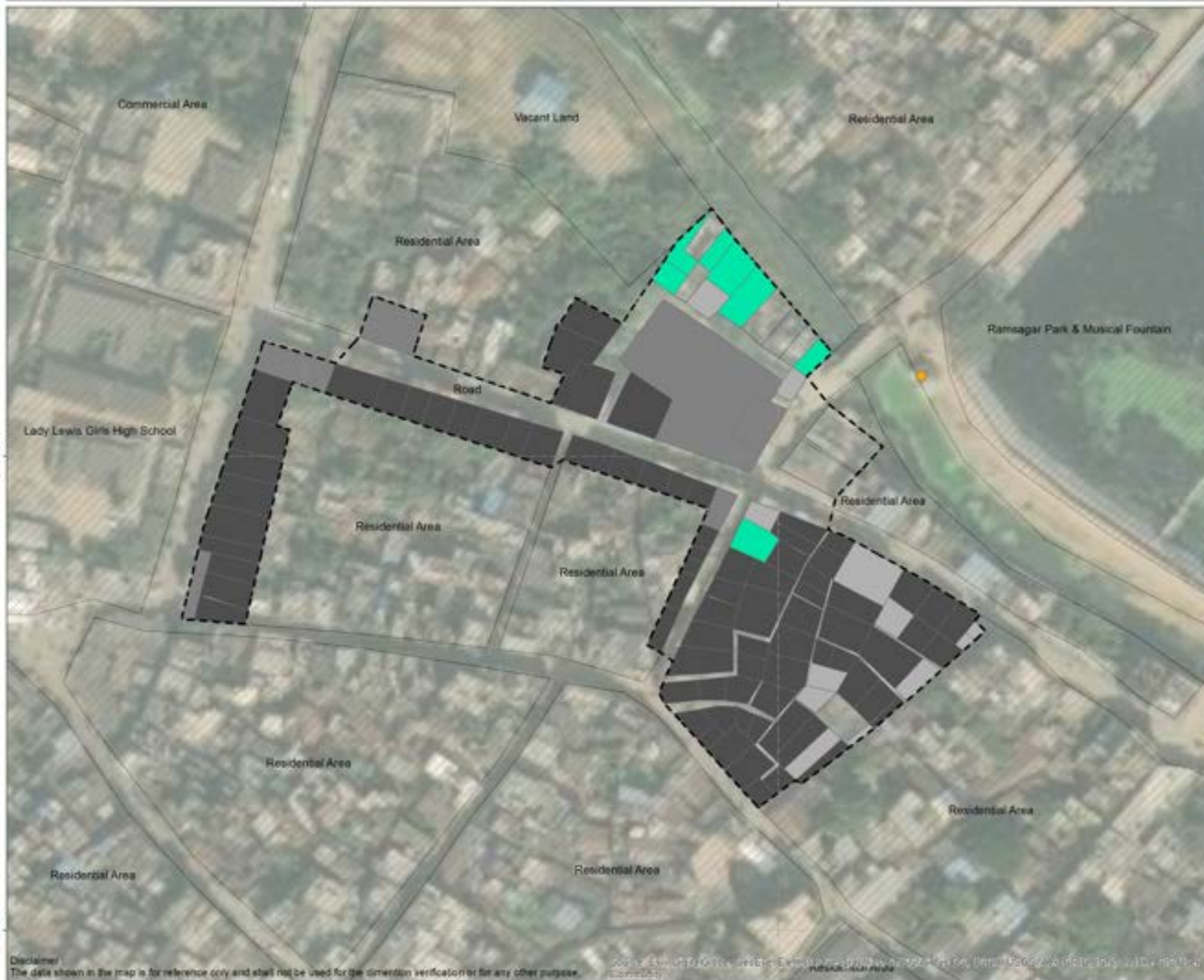
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



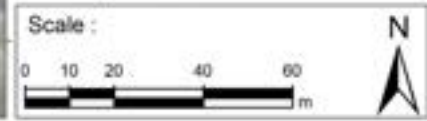


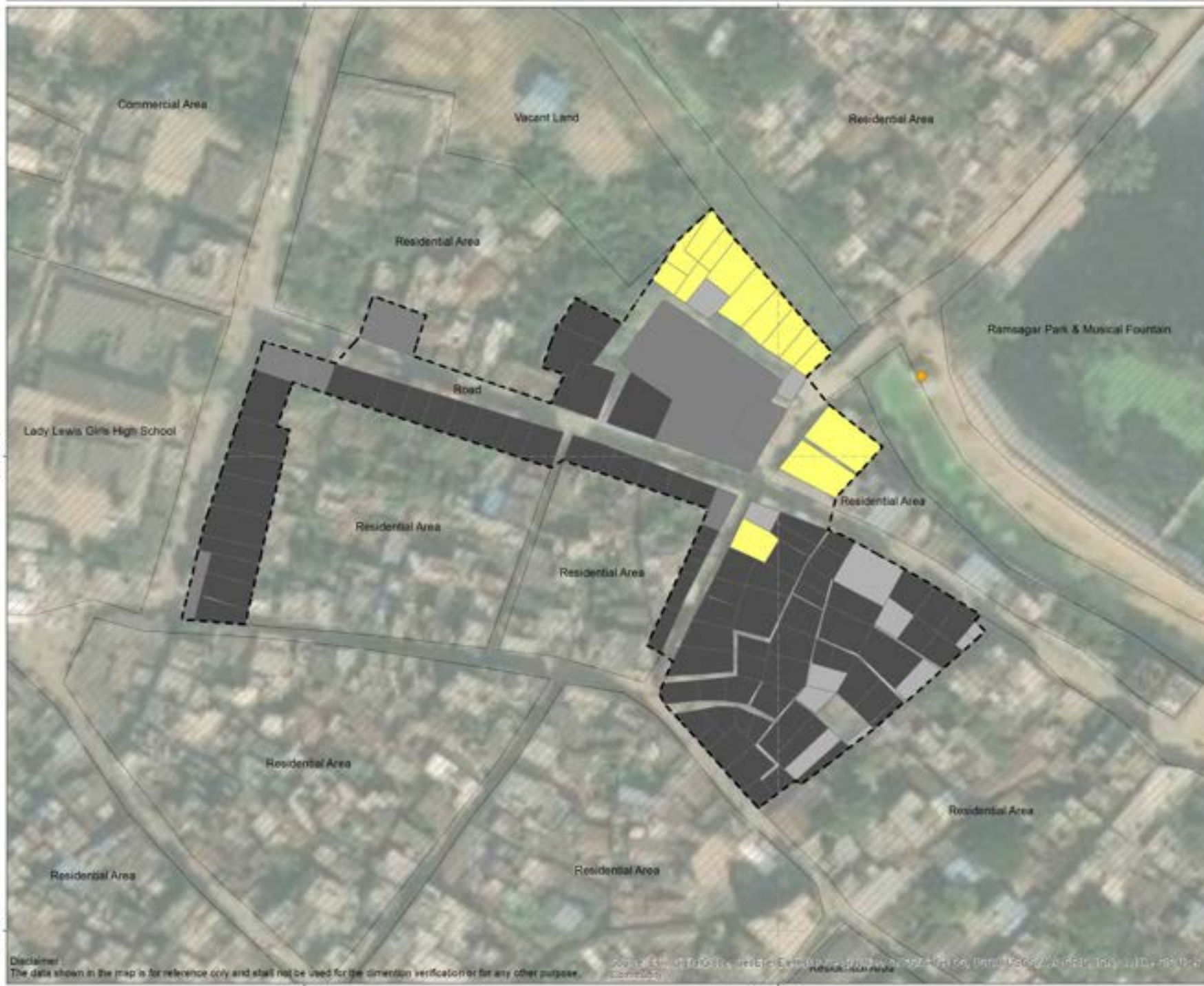
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.





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



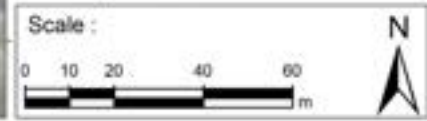


Household with PWD*

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

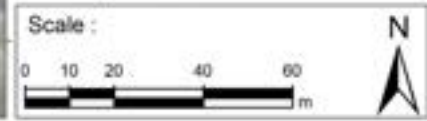
* Person with Disabilities

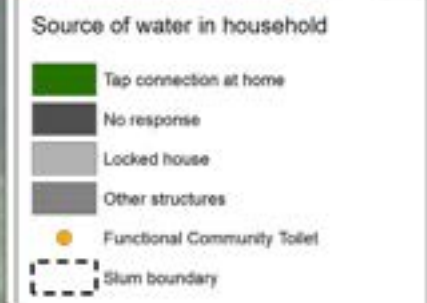
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



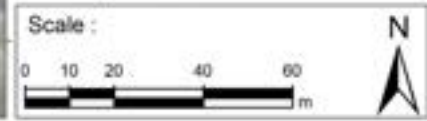


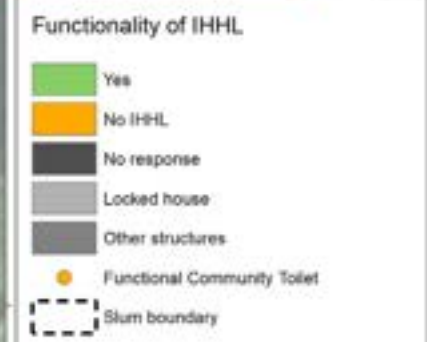
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



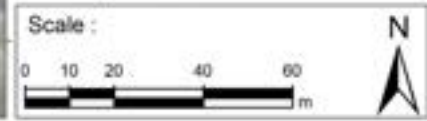


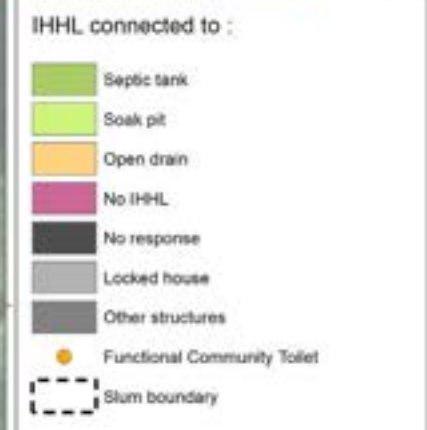
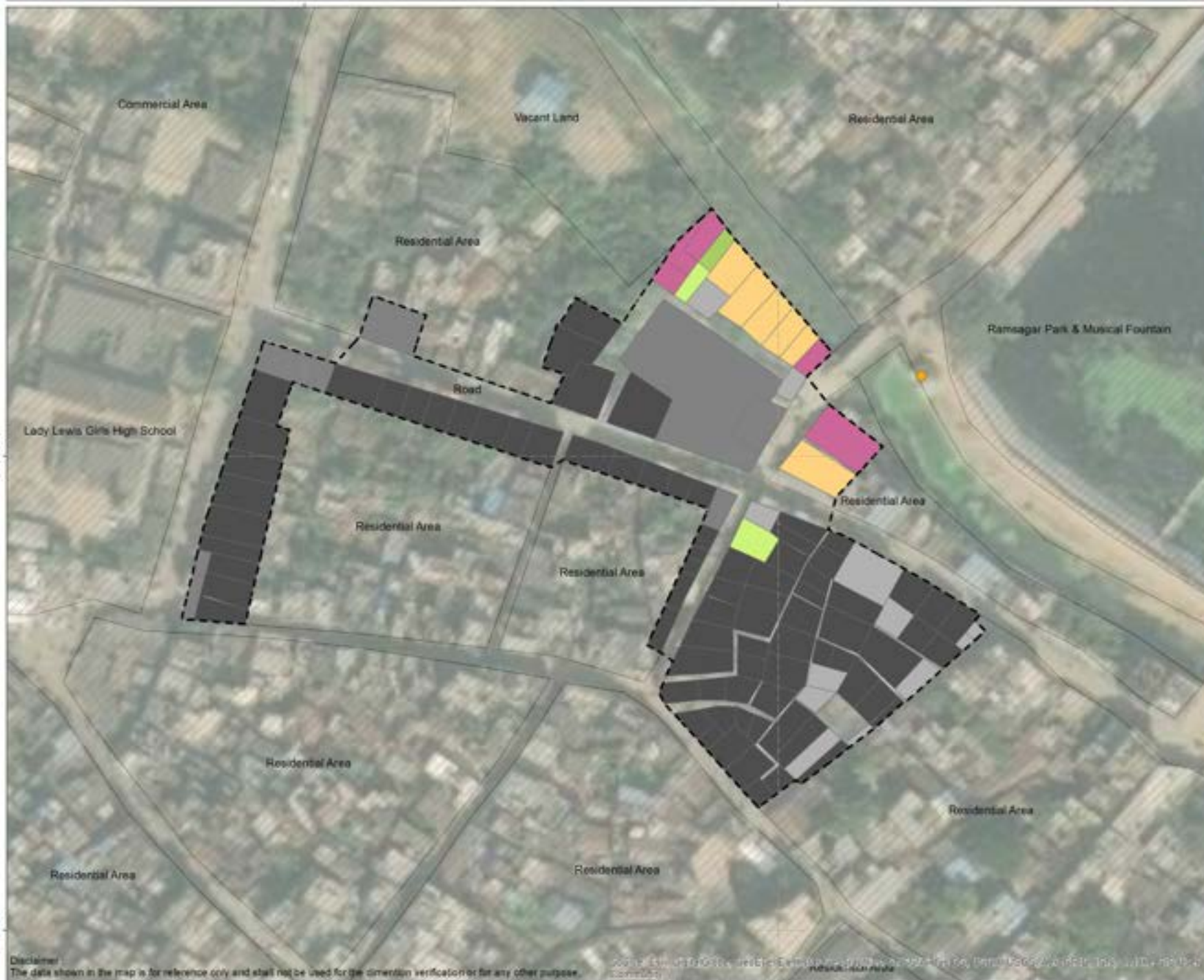
Source :
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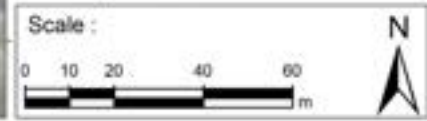


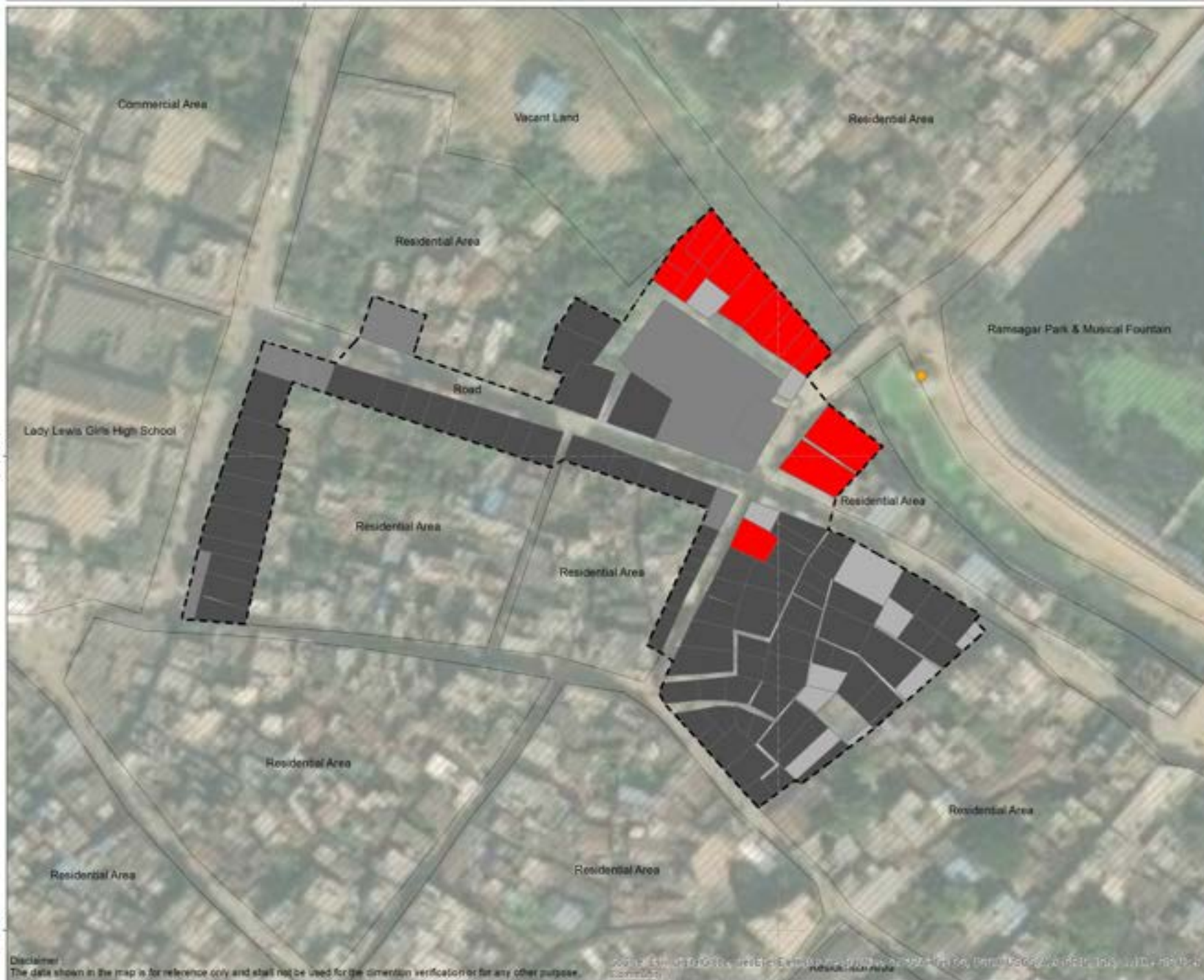
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.





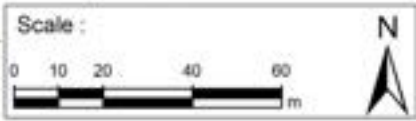
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.





- Grey water disposed to :
- 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.



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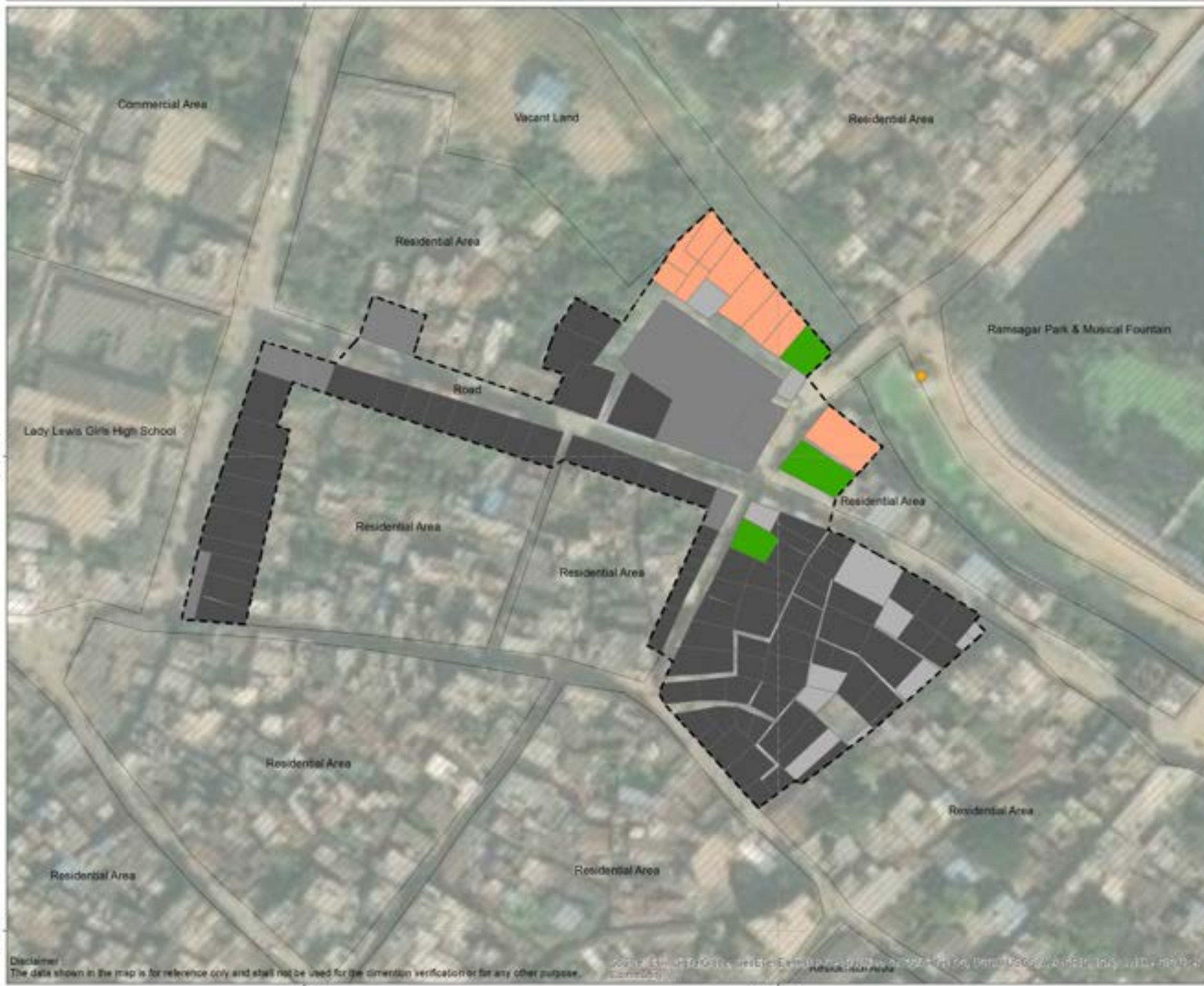
21°25'57"N

21°25'0"N

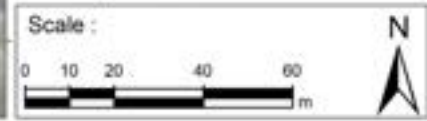
83°58'5"E

83°58'10"E

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



63. Tainlapada

Sambalpur

Slum name
TAINLAPADA

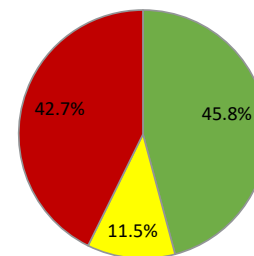
Ward
24

Total number of households in the slum
126

Approximate area of the slum
2.7 ha



2. Access to toilets



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

Number of HHs having IHHL **44**

% of functional IHHLs **100%**

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 HHs connected with safe disposal system for grey water **43%**

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

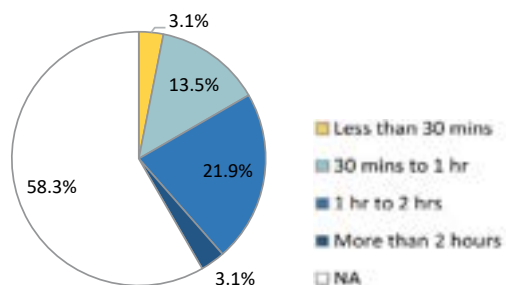
1. Access to municipal water supply



% of HHs with individual water tap connection **84%**

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

Duration of daily water supply



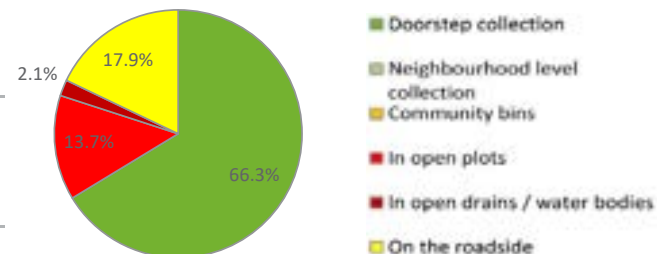
4. Solid waste management system



Total waste generation (kg) **119**

% of HHs segregating waste **-**

Method of HH waste disposal



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

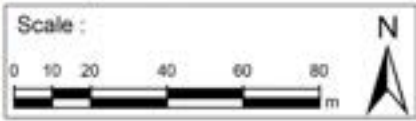


House ownership

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

As per the verbal information provided by the respondents.

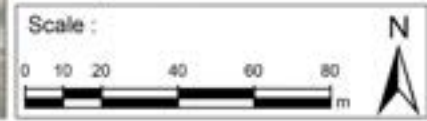
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



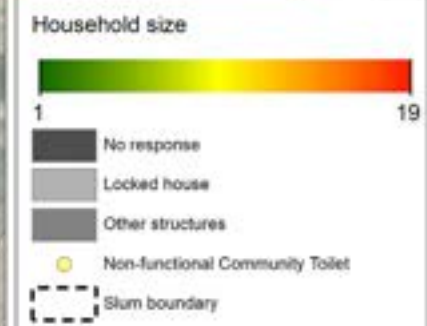
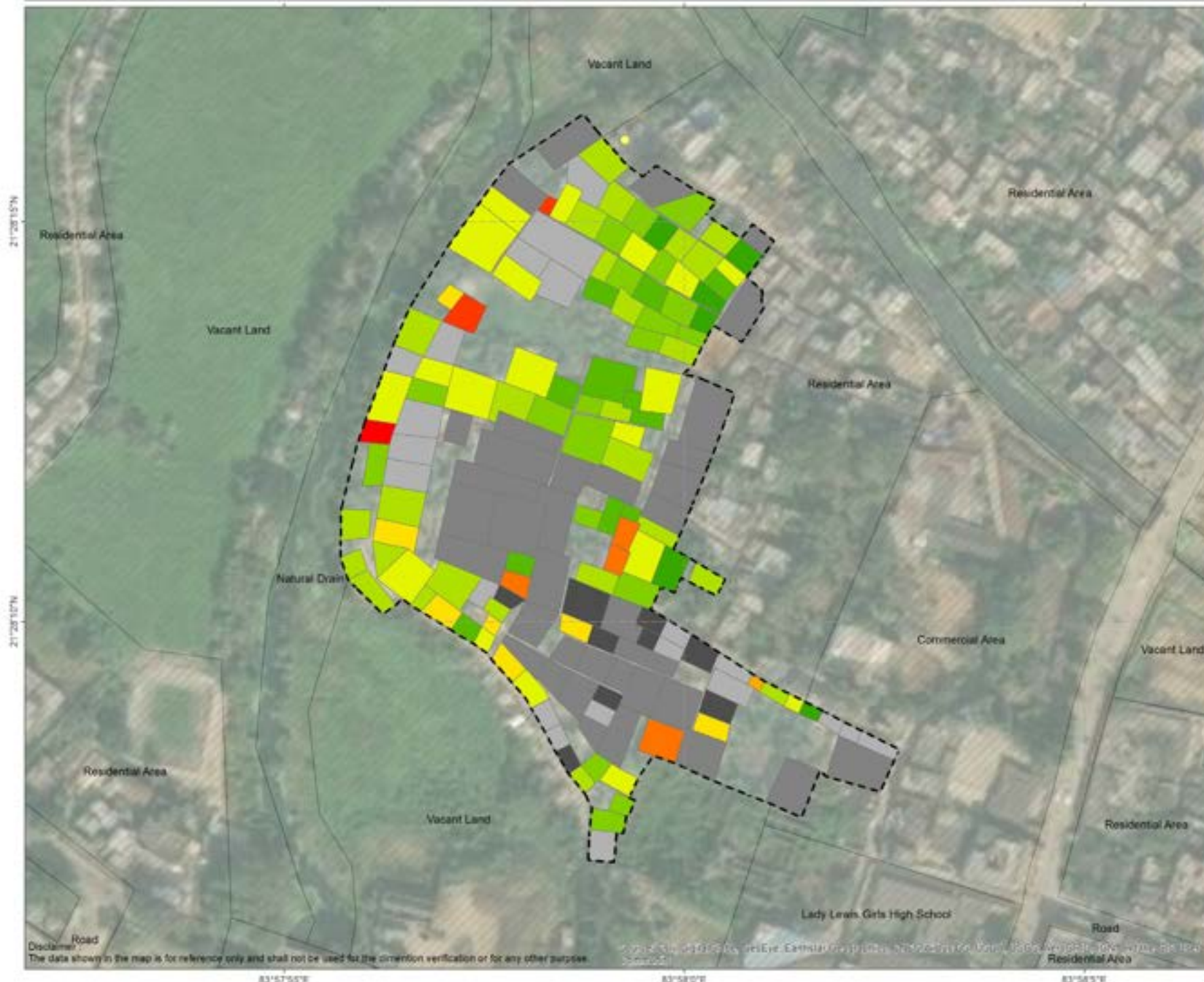
Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



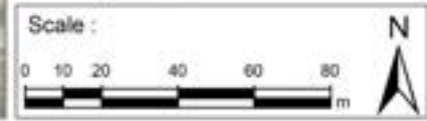
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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.



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.

21°20'15"N

21°20'15"N

83°57'55"E

83°58'0"E

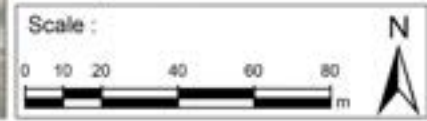
83°58'5"E



Elderly citizen

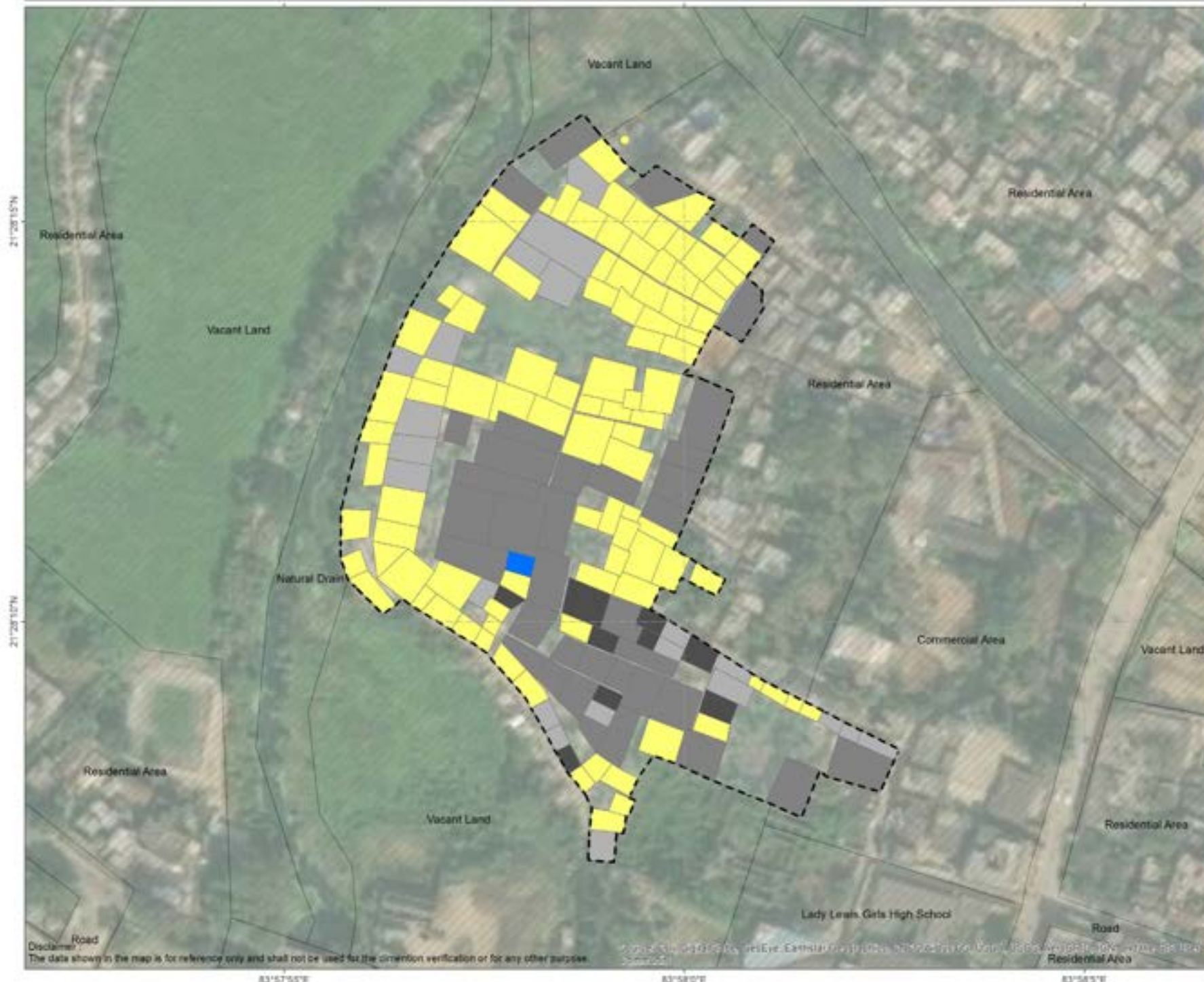
- HH have elderly citizen
- No response
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

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



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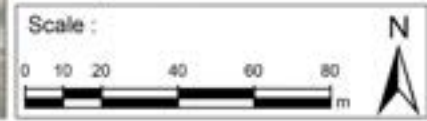


Household with PWD*

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

* Person with Disabilities

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



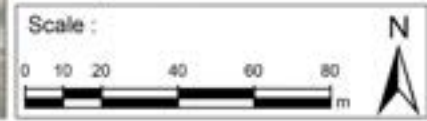
Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



Household part of SHG

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

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

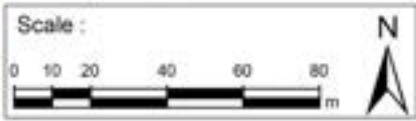


Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



- Source of water in Household**
- Tap connection at home
 - Tap connection at home & Private water tanker
 - Tap connection at home, Private water tanker, Hand pump & Fetching water from neighbourhood
 - Tap connection at home & Hand pump
 - Tap connection at home, Hand pump & Fetching water from neighbourhood
 - Stand post
 - Water tanker (Government) & Hand pump
 - Hand pump
 - No response
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

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



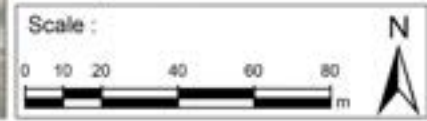
Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.



Functionality of IHHL

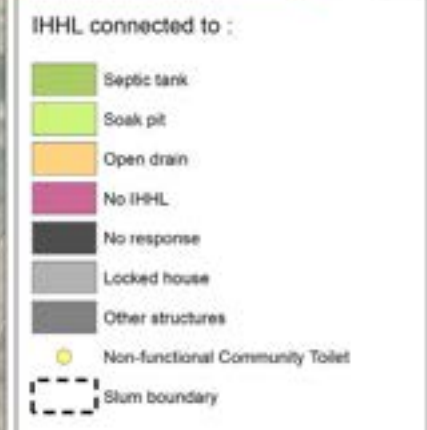
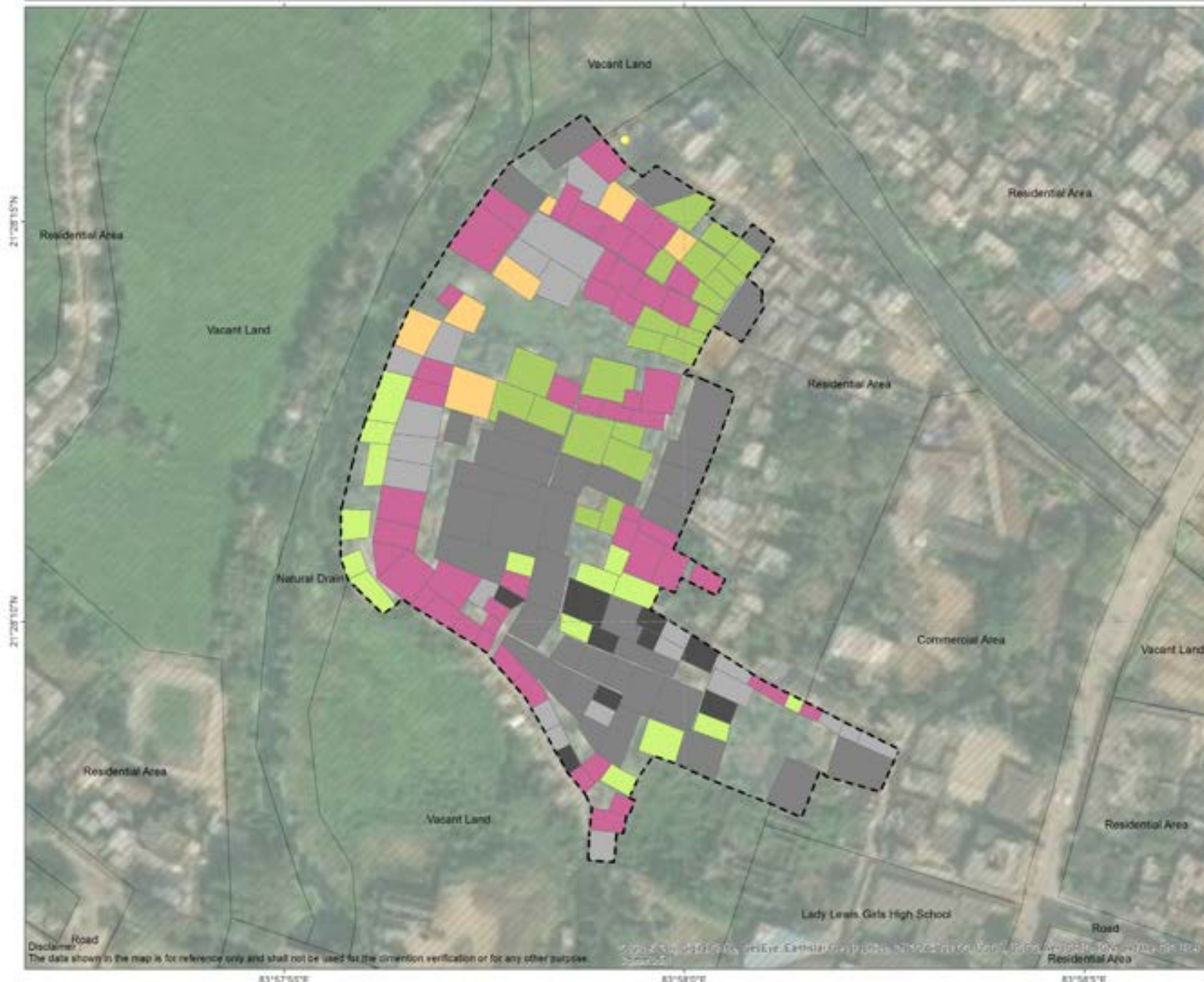
- Yes
- No IHHL
- No response
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

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

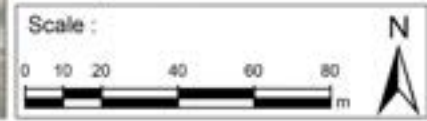


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Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.

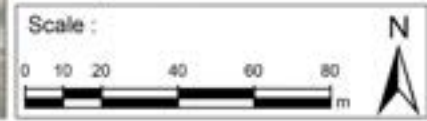




Grey water disposed to :

- Single pit
- Small pit (kundi) outside the house
- Open drain
- Water let out on the street
- No response
- Locked house
- Other structures
- Non-functional Community Toilet
- Slum boundary

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



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.

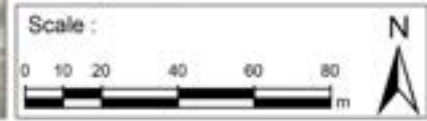
21°20'15"N
21°20'15"N

83°57'55"E 83°58'0"E 83°58'5"E



- Household disposing solid waste to :
- D to D service
 - On road side
 - In open plot & On road side
 - In open plot
 - In open drains/waterbody
 - No response
 - Locked house
 - Other structures
 - Non-functional Community Toilet
 - Slum boundary

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



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.

21°20'15"N
21°20'15"N

83°57'55"E 83°58'0"E 83°58'5"E

Ward - 25

Sambalpur

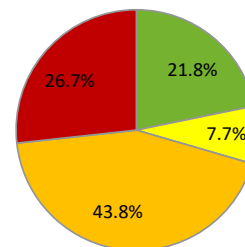
Ward name
25

Number of slums
4

Total number of households in slums
551



2. Access to toilets



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

Number of HHs having IHHL **110**

% of functional IHHLs **99%**

Number of PT/CTs near the slum **3**

Total number of persons dependent on PT/CTs **994**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

% of HHs connected with safe disposal system for grey water **4%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **39%**

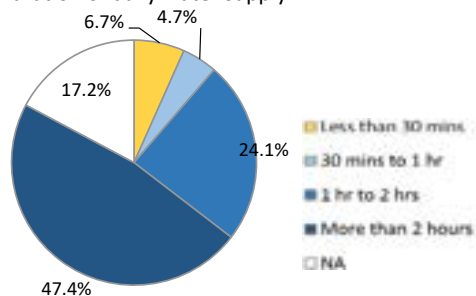
1. Access to municipal water supply



% of HHs with individual water tap connection **29%**

% of HHs satisfied with the quality of water supplied **75%**

Duration of daily water supply



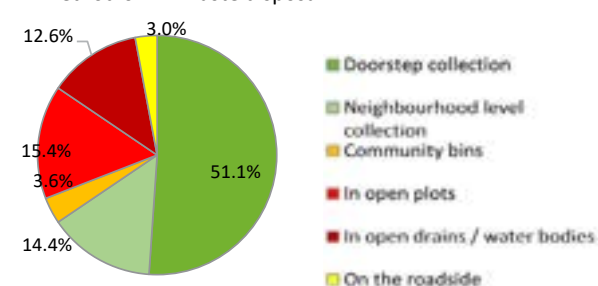
4. Solid waste management system



Total waste generation (kg) **680**

% of HHs segregating waste **22%**

Method of HH waste disposal



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

64. Ambedkarnagar

Sambalpur

Slum name
AMBEDKARNAGAR

Ward
25

Total number of households in the slum
226

Approximate area of the slum
1.8 ha

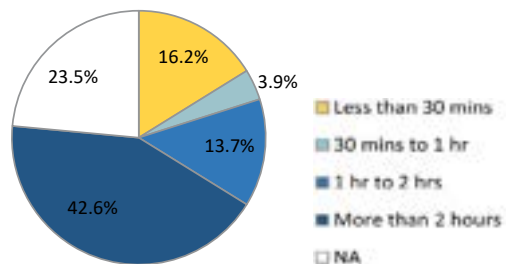


1. Access to municipal water supply

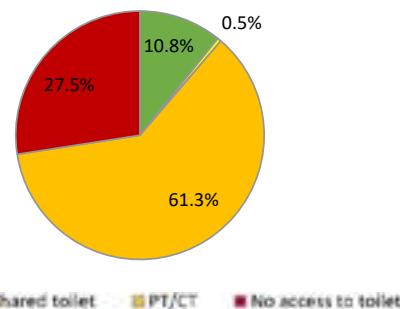
% of HHs with individual water tap connection **23%**

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

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **22**

% of functional IHHLs **100%**

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

Total number of persons dependent on PT/CTs **558**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

% of HHs connected with safe disposal system for grey water **4%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **73%**

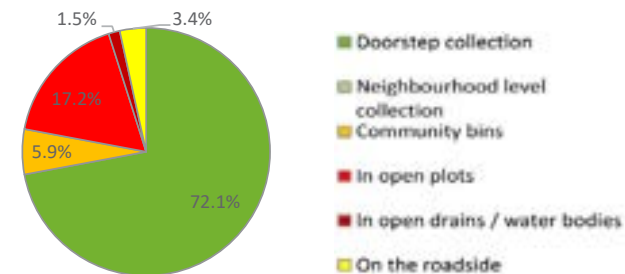
4. Solid waste management system



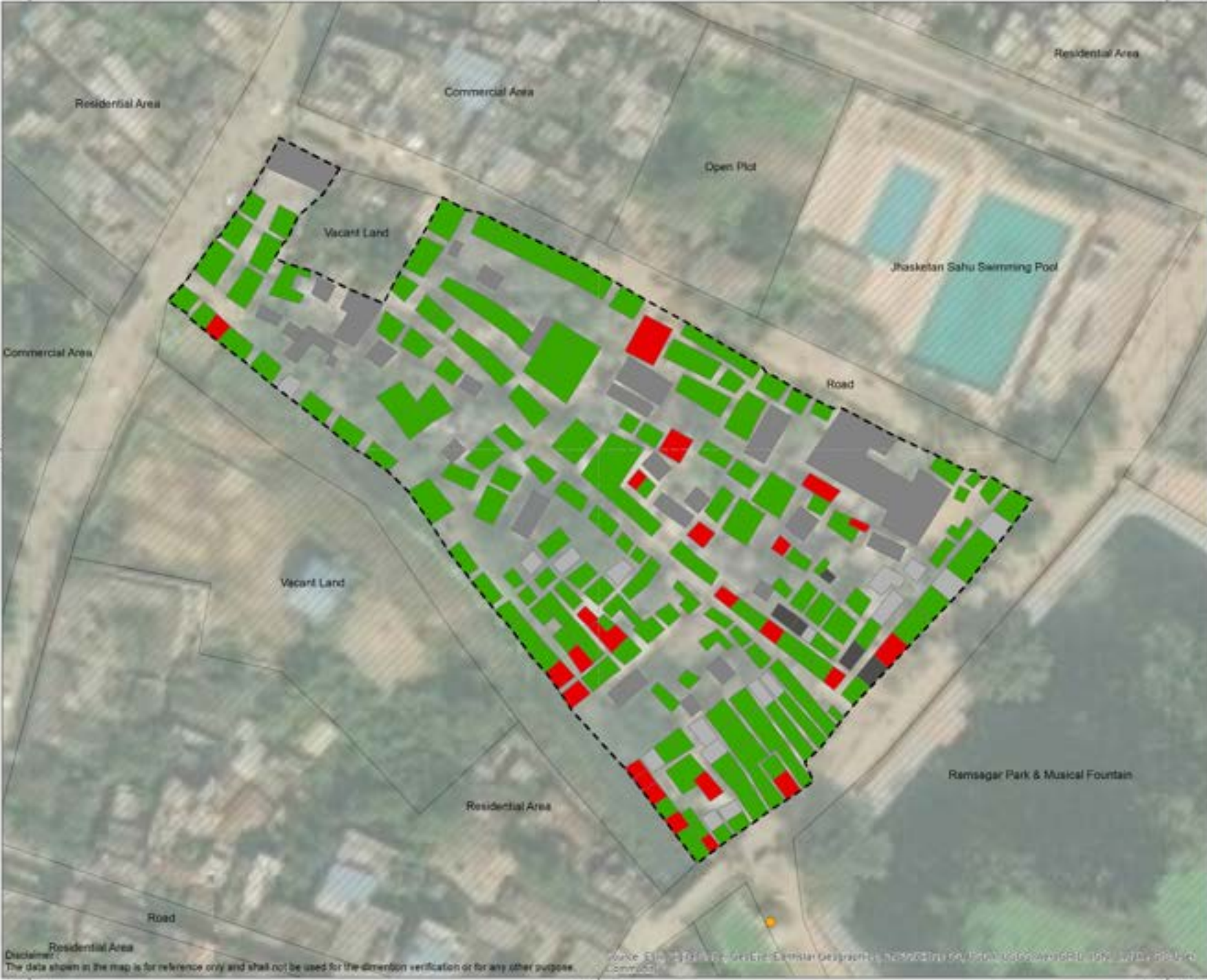
Total waste generation (kg) **273**

% of HHs segregating waste **28%**

Method of HH waste disposal



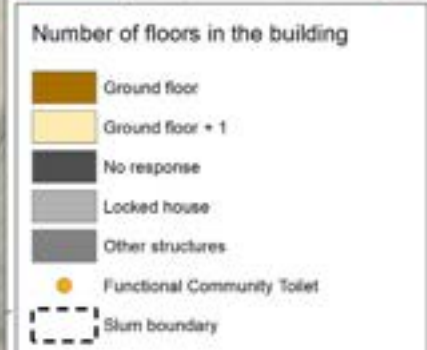
HH - Household, IHHL - Individual Household Latrine, PT/CT - Public /Community Toilet



As per the verbal information provided by the respondents.

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



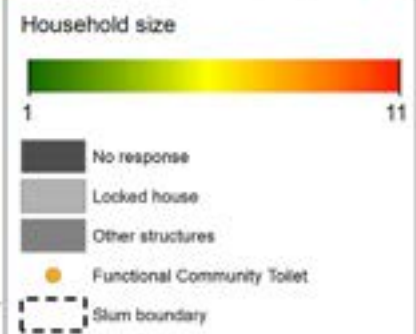
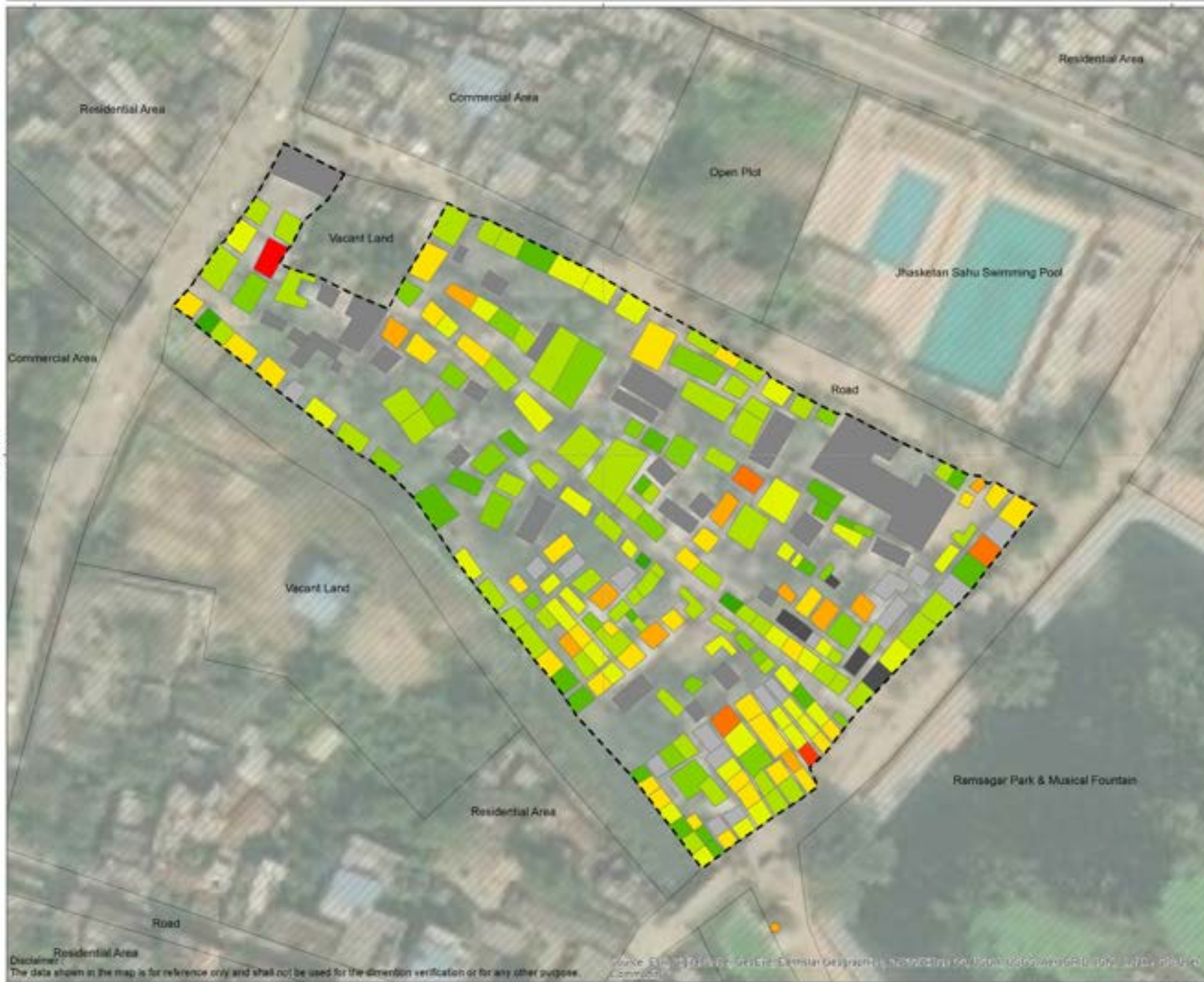


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



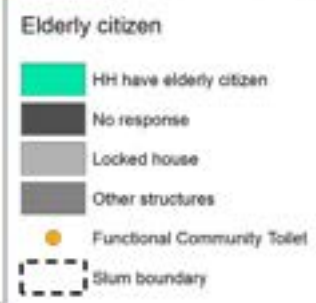
Disclaimer:
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: <https://www.cesga.gov.in/> (2019) Primary household survey of slums in Sambalpur, Odisha.



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



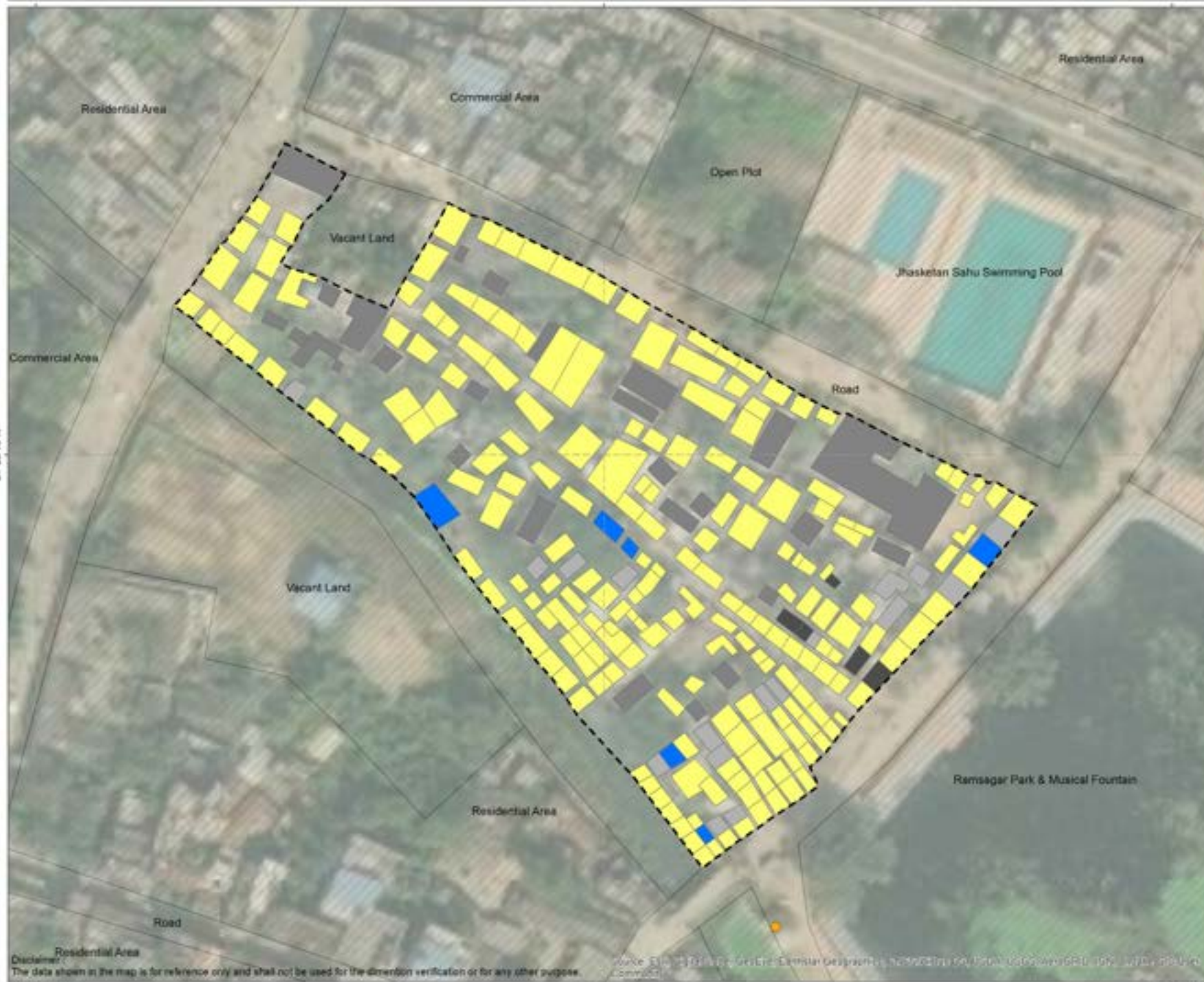


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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: SITA, GIS, Geo-IT, Geomatics Engineering, IIT Bombay, Mumbai, India. (2019). MISAAL: Moving India Towards Sanitation for All. Mumbai, India: MISAAL.



Household with PWD*

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

* Person with Disabilities

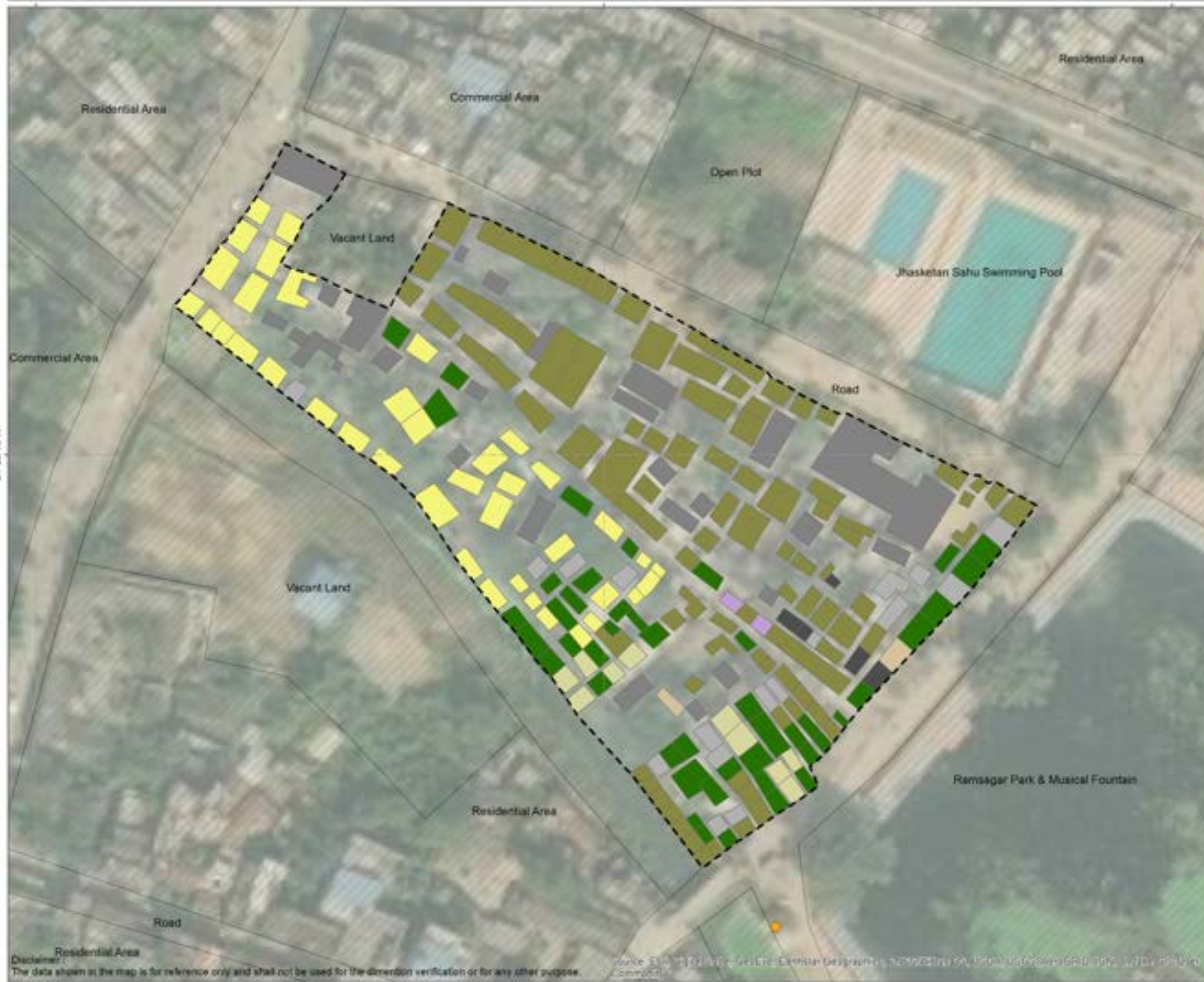
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.





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



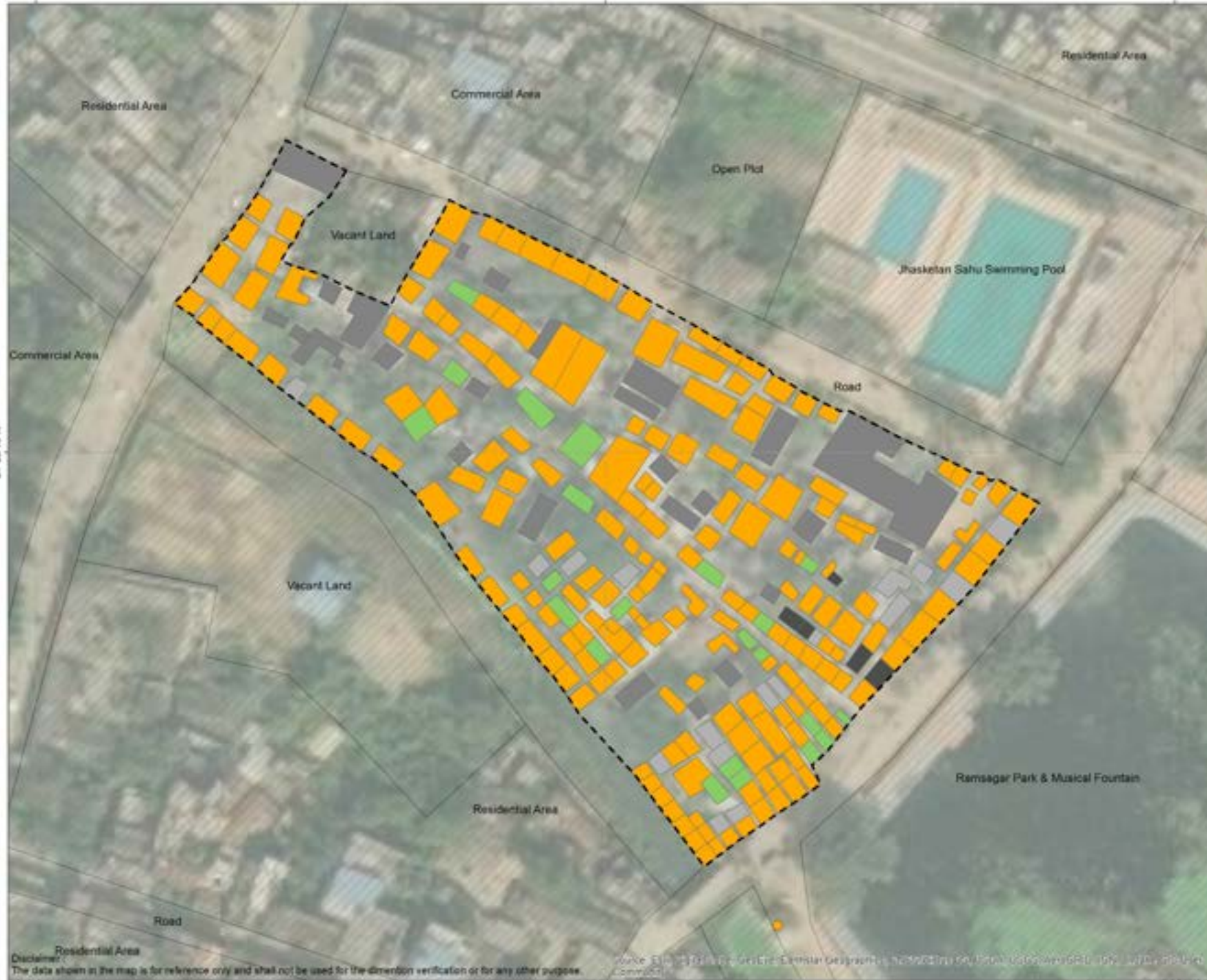


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



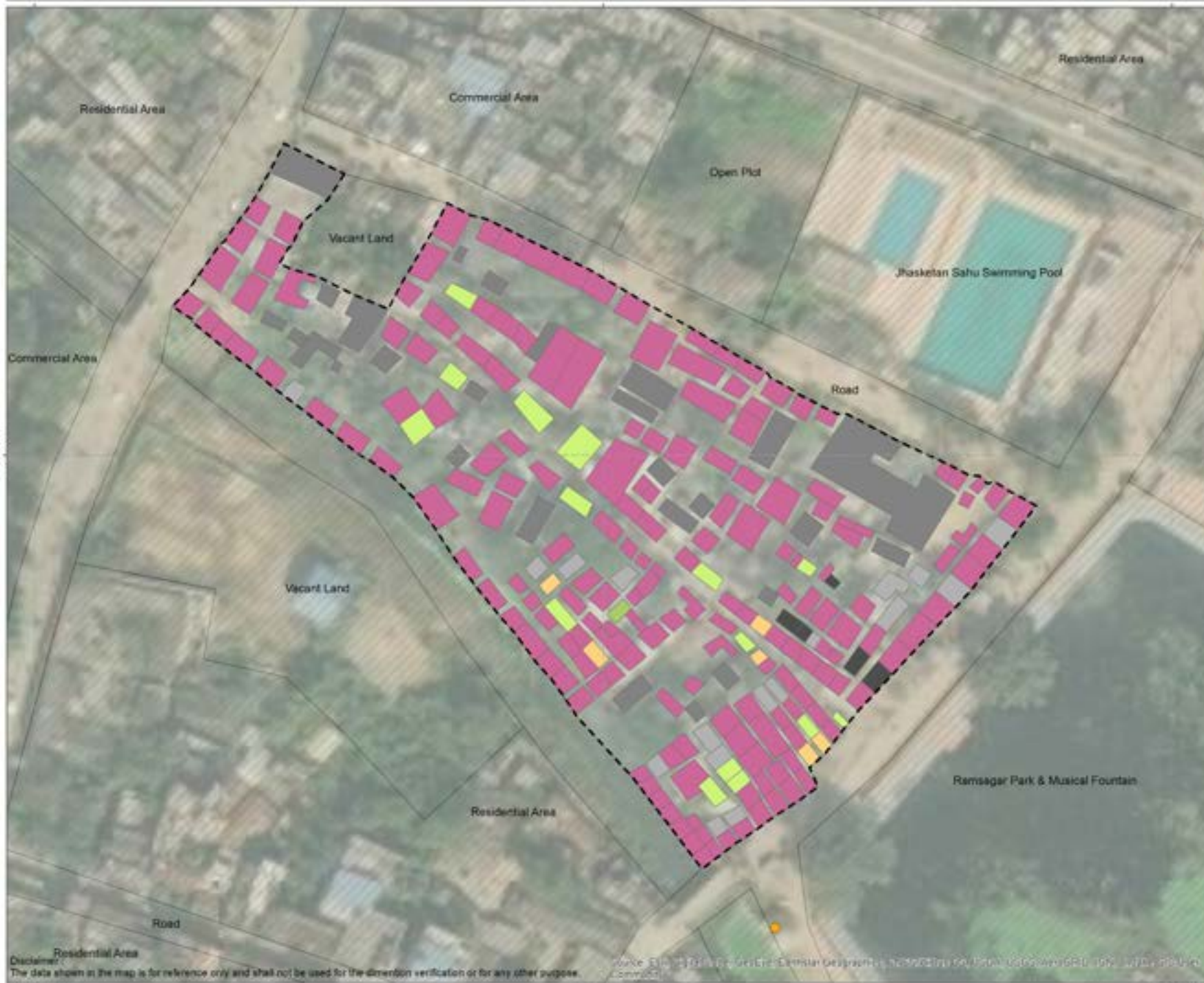
Disclaimer:
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: <https://www.cesga.gov.in/>



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





IHHL connected to :

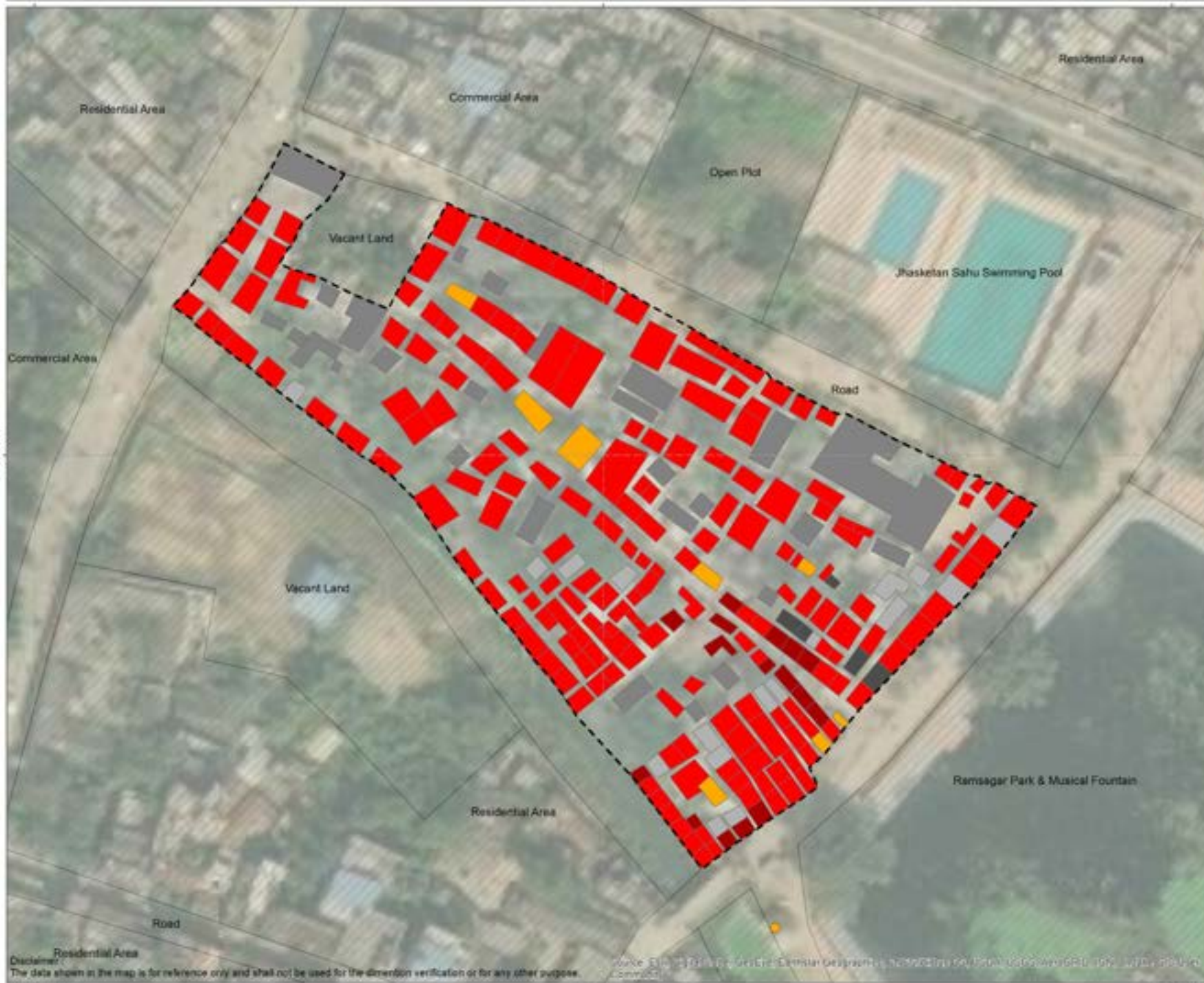
- Septic tank
- Soak pit
- Open drain
- No IHHL
- No response
- Locked house
- Other structures
- Functional Community Toilet
- Slum boundary

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



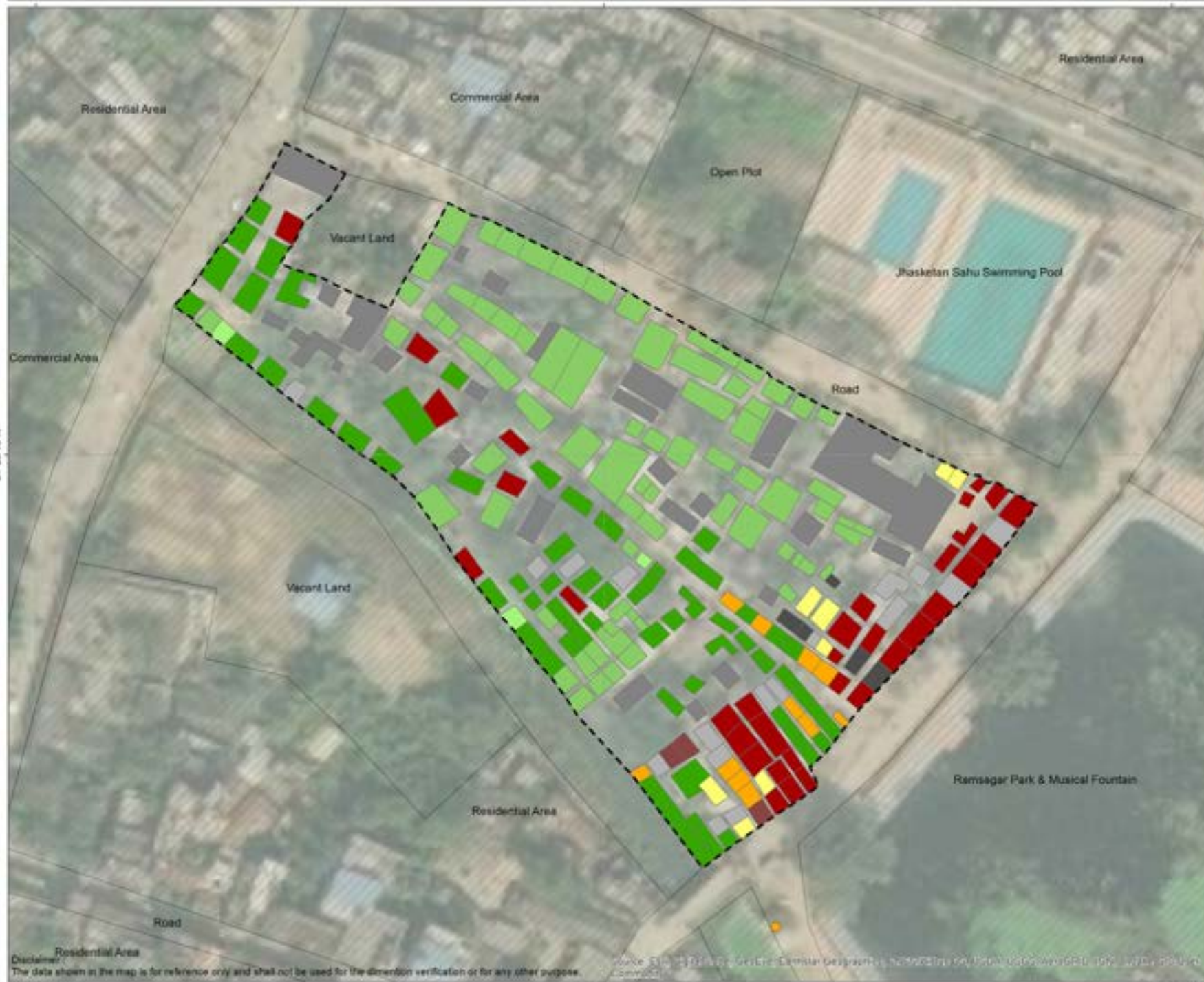
Disclaimer: The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: Urban Management Centre, Odisha Geospatial Information System, 2019. Digitized by UMC, Sambalpur, Odisha.



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

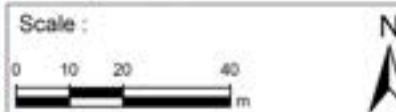




Household disposing solid waste to :

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

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



65. Bohidarbandh

Sambalpur

Slum name
BOHIDARBANDH

Ward
25

Total number of households in the slum
85

Approximate area of the slum
1.3 ha

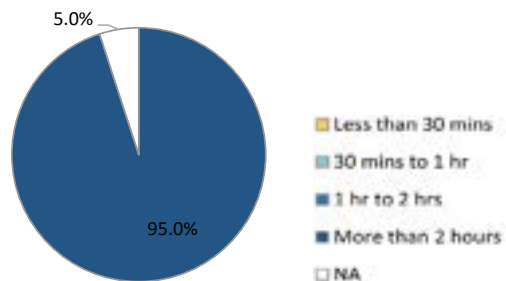


1. Access to municipal water supply

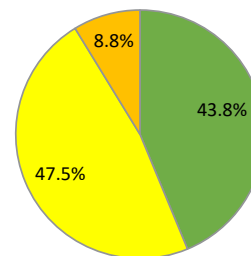
% of HHs with individual water tap connection **34%**

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

Duration of daily water supply



2. Access to toilets



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

Number of HHs having IHHL **35**

% of functional IHHLs **100%**

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

Total number of persons dependent on PT/CTs **30**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

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

% of IHHLs connected to septic tank/soak pit/twin pit **29%**

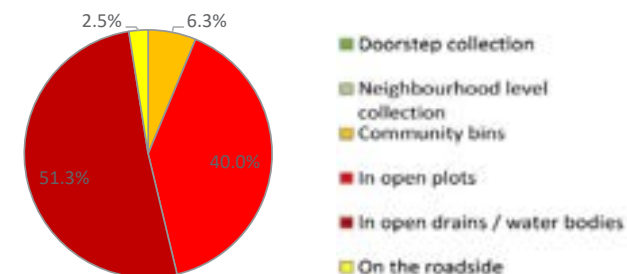
4. Solid waste management system



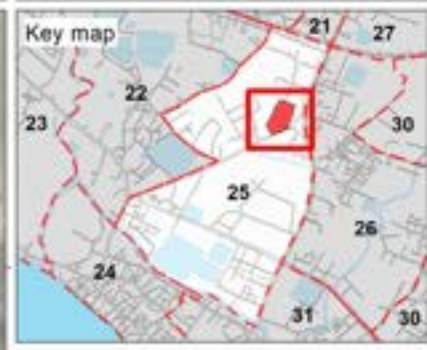
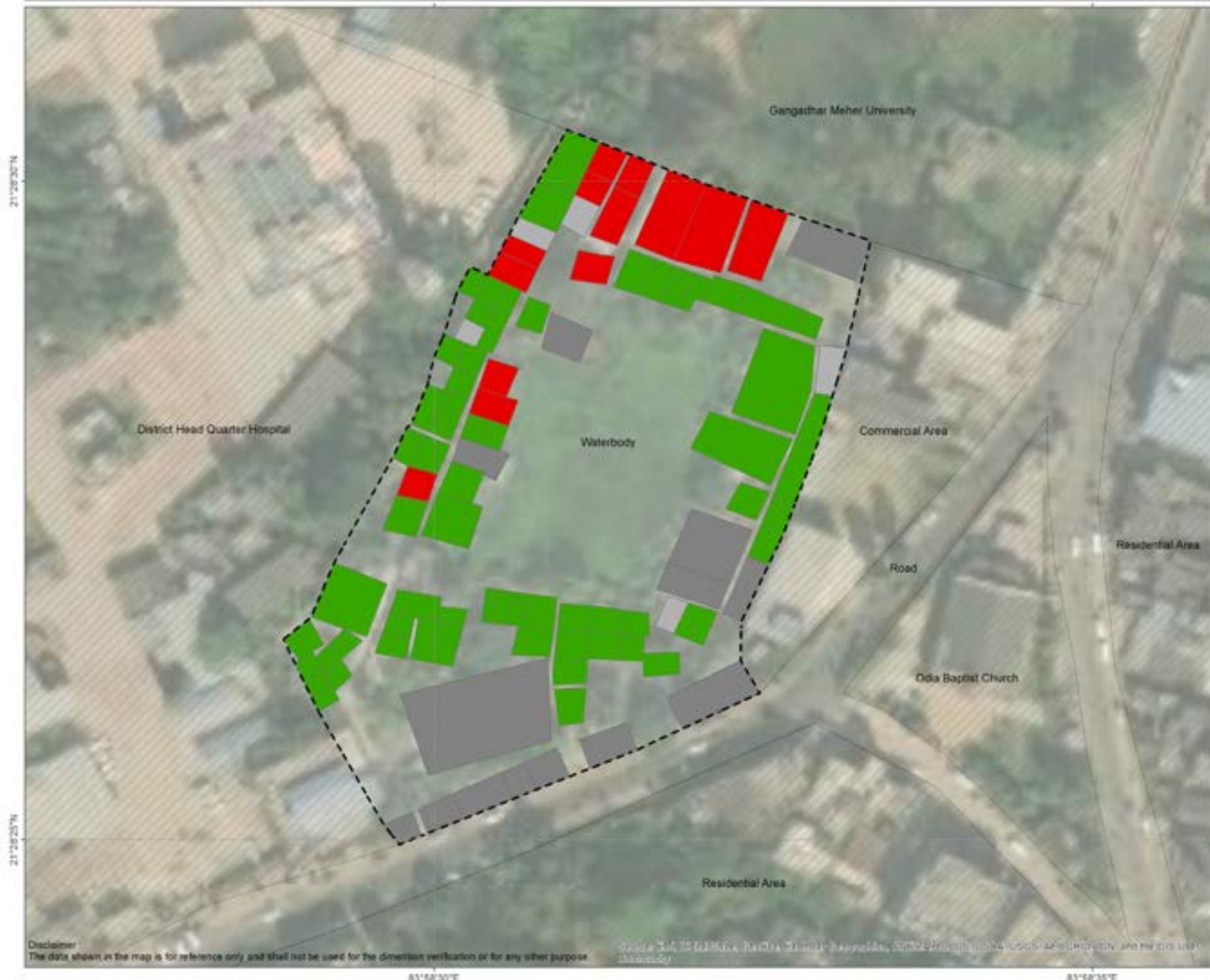
Total waste generation (kg) **102**

% of HHs segregating waste -

Method of HH waste disposal



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



House ownership

- Owned
- Rented
- 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.



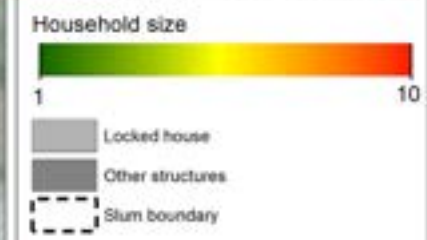
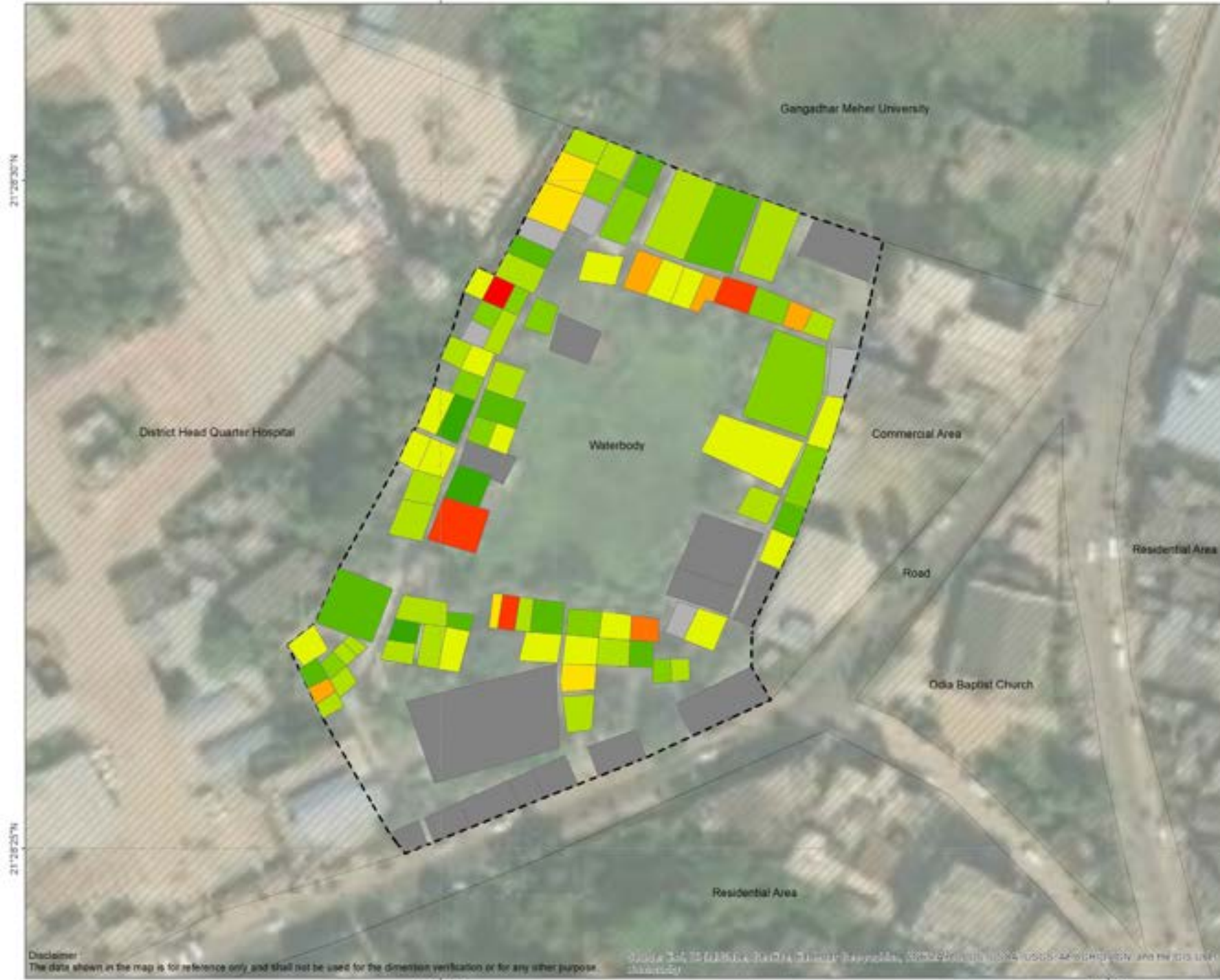


Number of floors in the building

- 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.



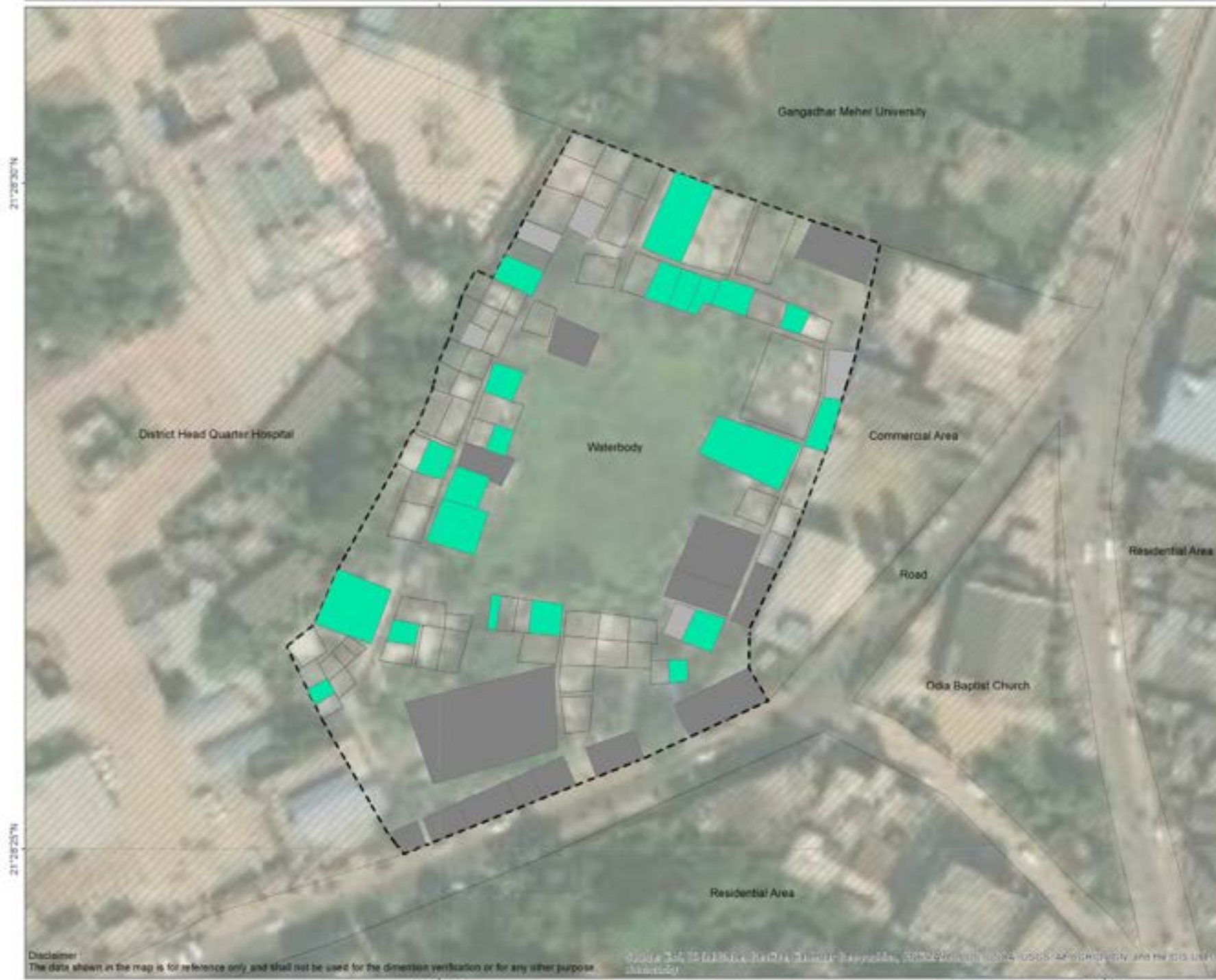


Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



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: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.



Elderly citizen

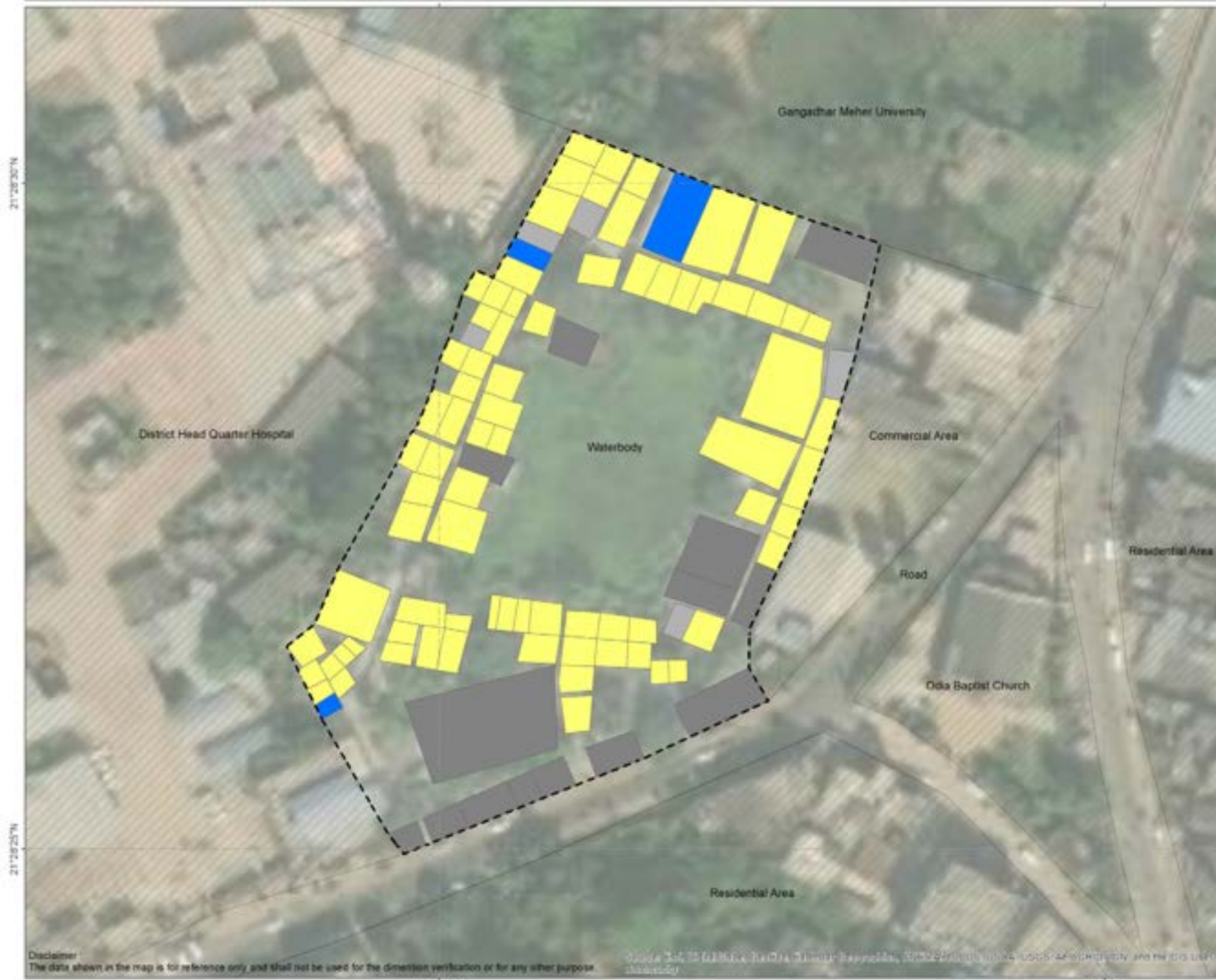
- HH have elderly citizen
- Locked house
- Other structures
- Slum boundary

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



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: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha. (2019). UMC, 2019. Primary household survey of slums in Sambalpur, Odisha. (2019). UMC, 2019. Primary household survey of slums in Sambalpur, Odisha. (2019).



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.





Household part of SHG

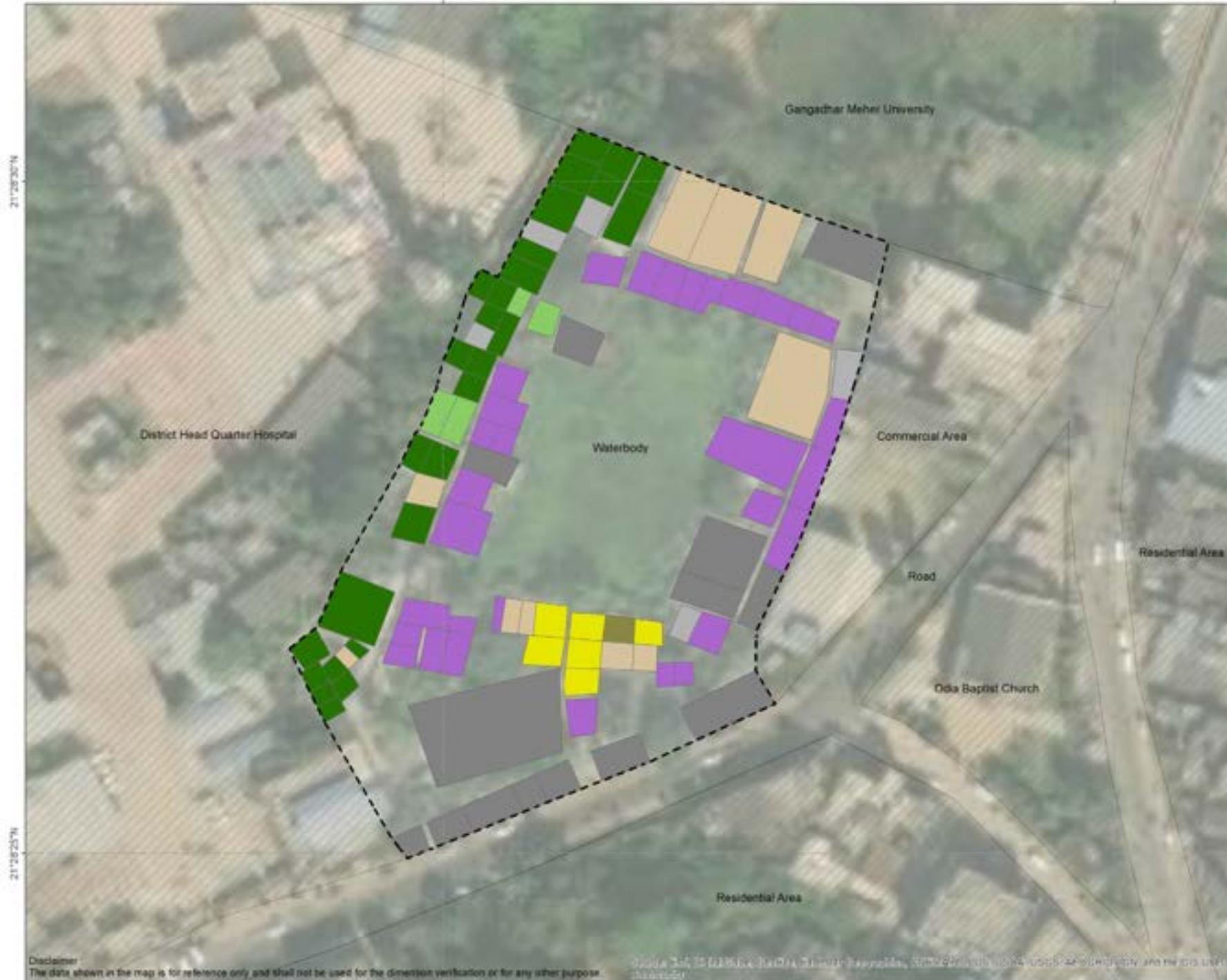
- Yes
- Locked house
- Other structures
- Slum boundary

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



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: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.

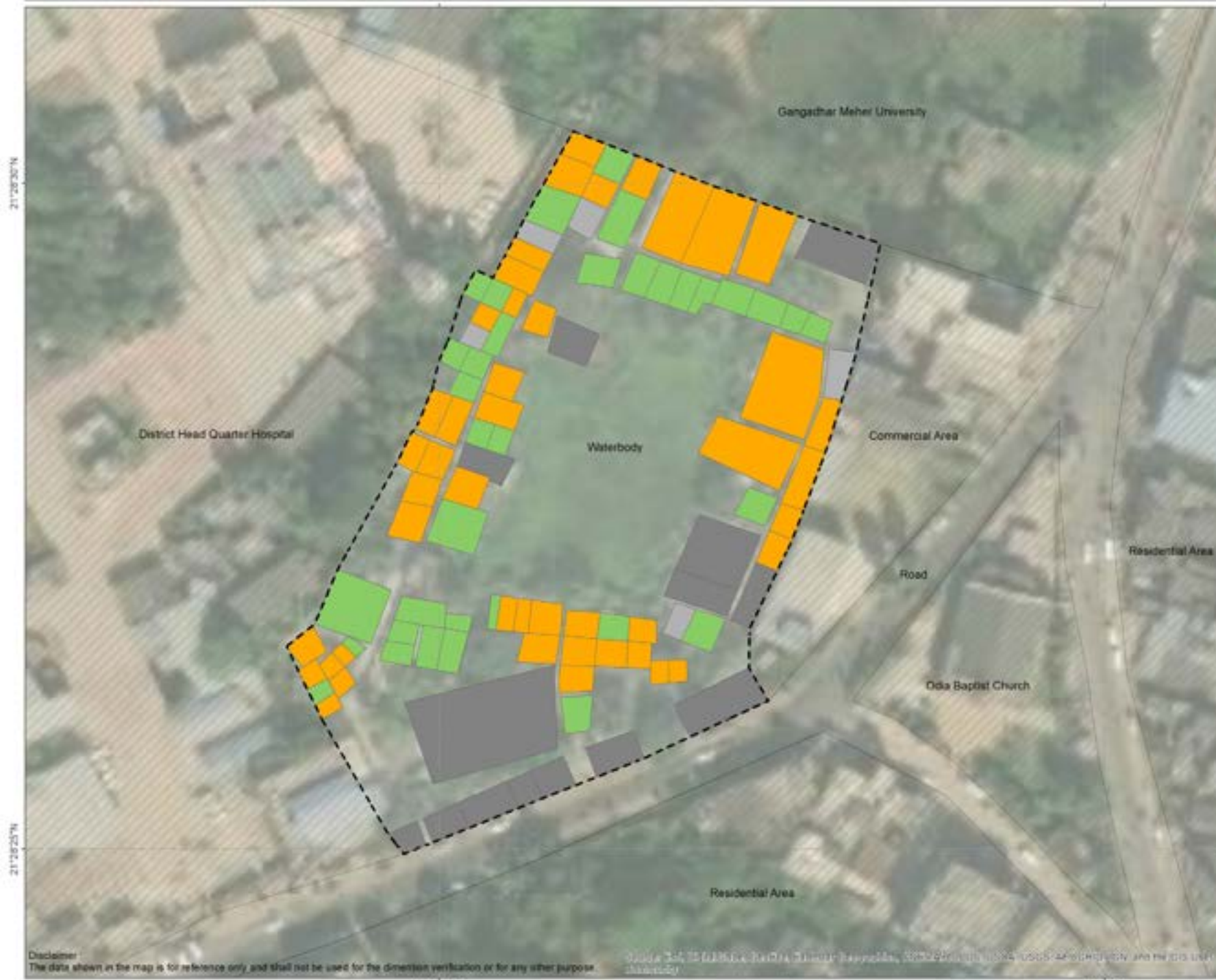


Source :
Urban Management Centre. (2019).
Primary household survey of slums in Sambalpur, Odisha.



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: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.



Functionality of IHHL

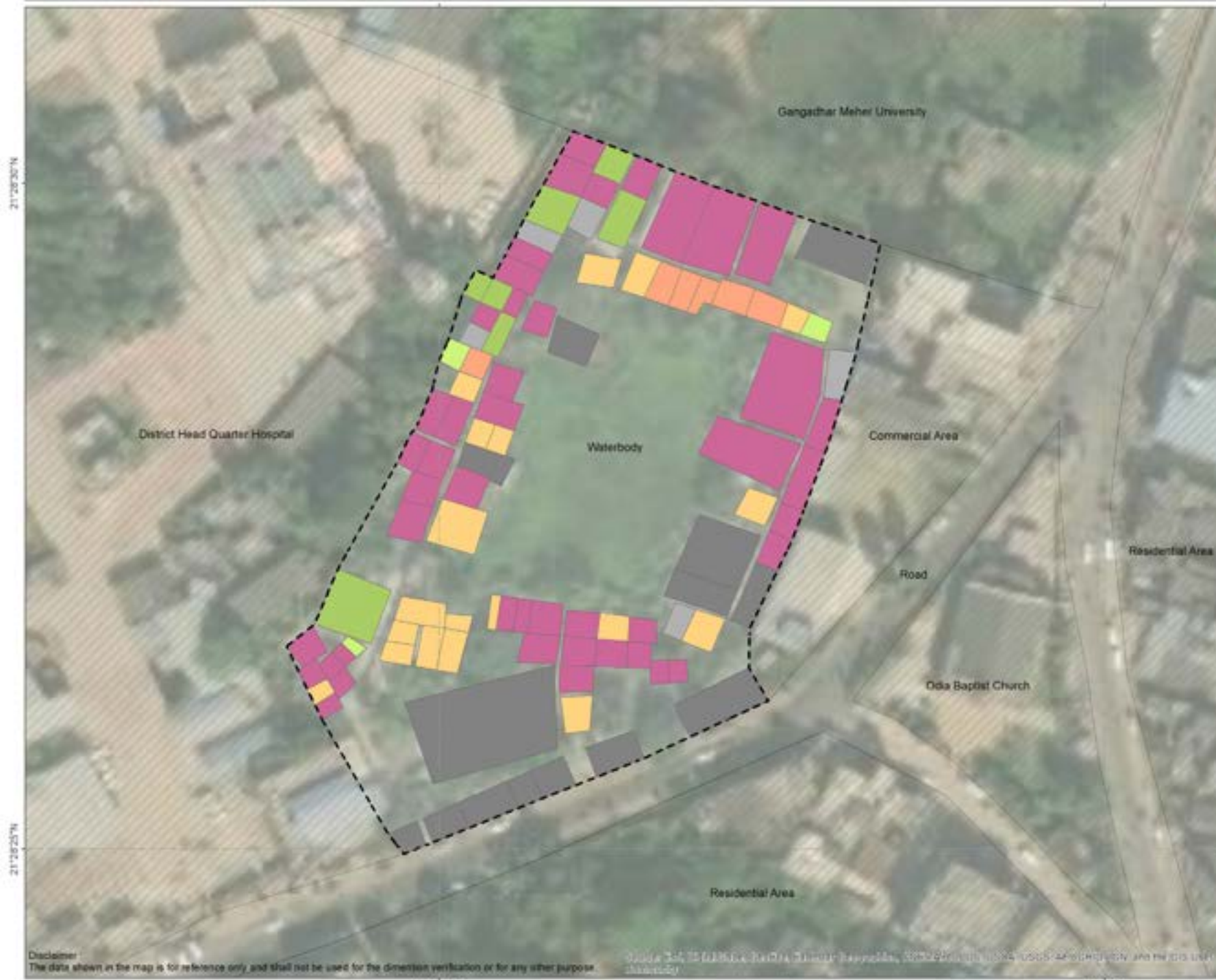
- Yes
- No IHHL
- Locked house
- Other structures
- Slum boundary

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



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: UMC, 2019. MISAAL: Moving India Towards Sanitation for All. Primary household survey of slums in Sambalpur, Odisha.



IHHL connected to :

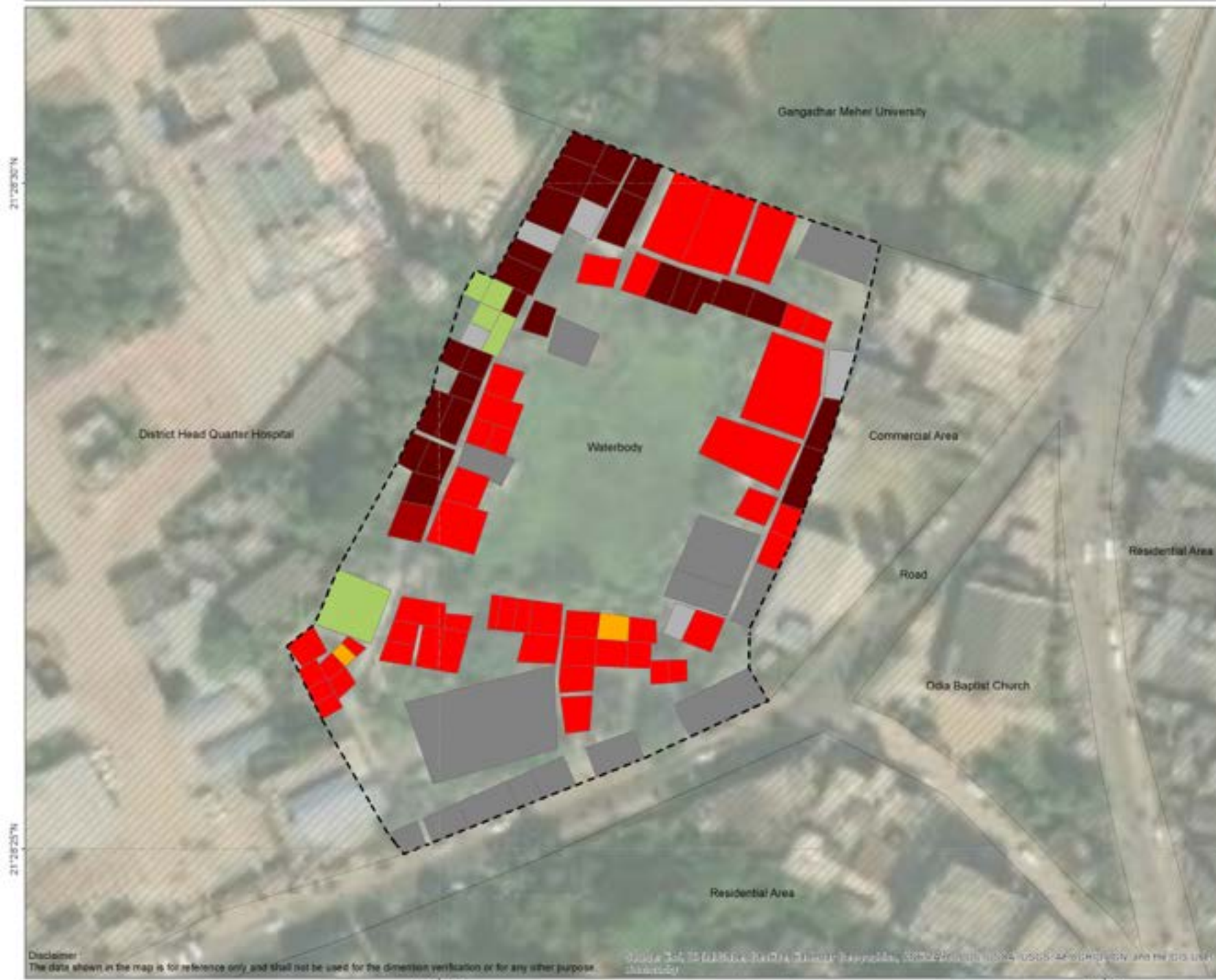
- Septic tank
- Soak pit
- Open drain
- Pond
- No IHHL
- Locked house
- Other structures
- Slum boundary

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



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: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.

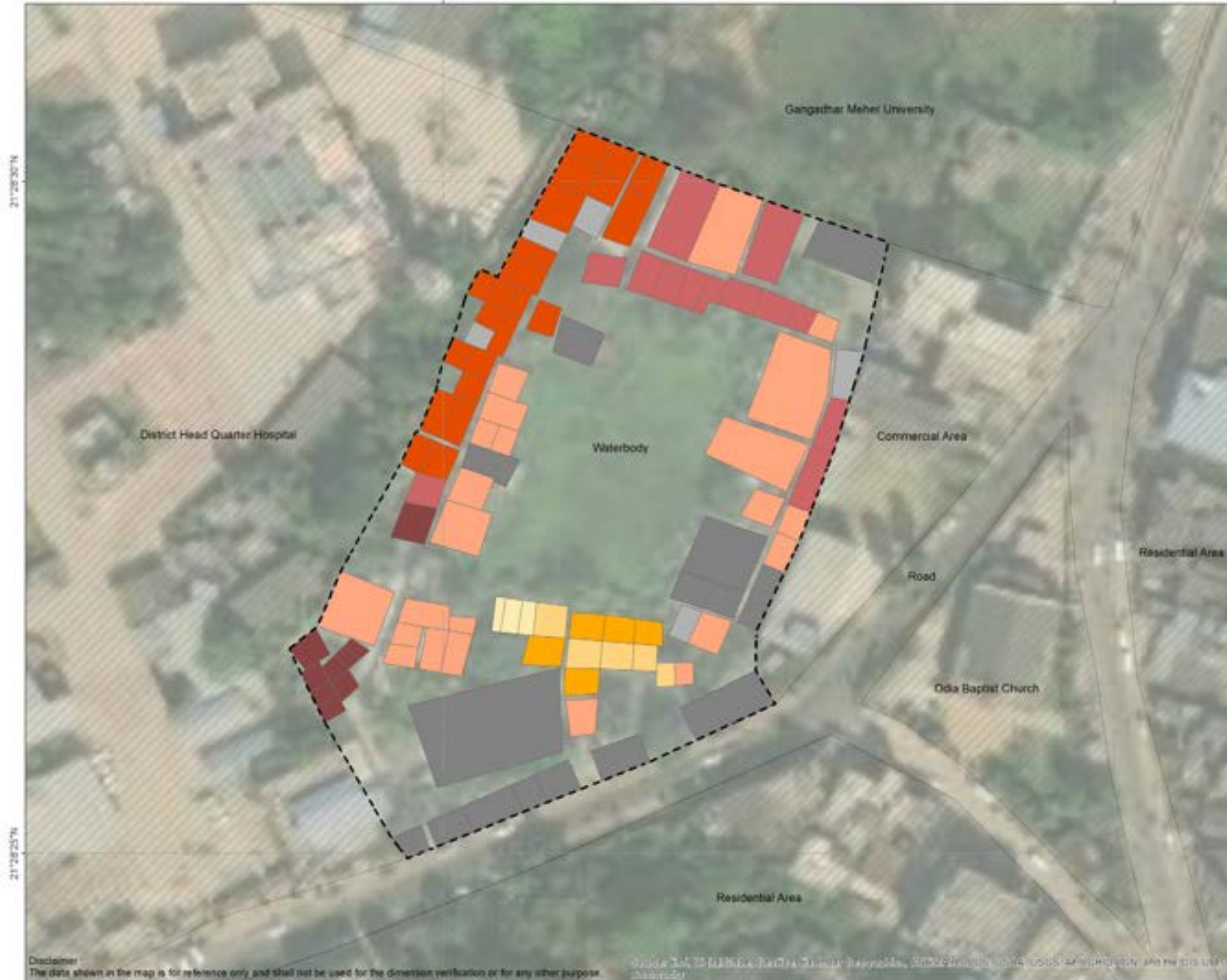


Grey water disposed to :

- Septic tank
- Single pit
- Open drain
- Water is let out on the street
- Pond
- Locked house
- Other structures
- Slum boundary

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





Household disposing solid waste to :

- Road side dustbin
- Road side dustbin & In open plot
- Road side dustbin, In open plot & in open drains/water body
- In open plot & in open drains/waterbody
- In open drains/waterbody
- In open drains/waterbody & On road side
- In pond
- Locked house
- Other structures
- Slum boundary

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



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: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.

66. Sahu Colony

Sambalpur

Slum name

SAHU COLONY

Ward

25

Total number of households in the slum

107

Approximate area of the slum

1.5 ha



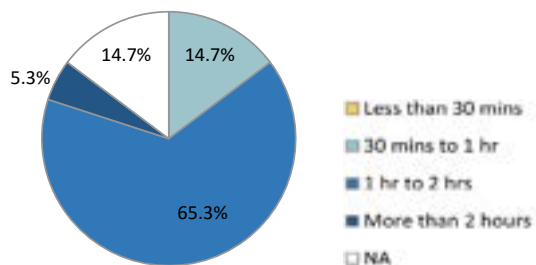
1. Access to municipal water supply



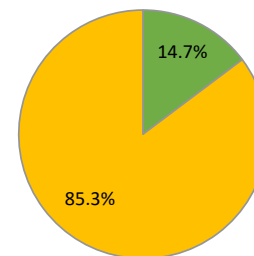
% of HHs with individual water tap connection **25%**

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

Duration of daily water supply



2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL **14**

% of functional IHHLs **93%**

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

Total number of persons dependent on PT/CTs **353**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

% of HHs connected with safe disposal system for grey water **1%**

% of IHHLs connected to septic tank/soak pit/twin pit **36%**

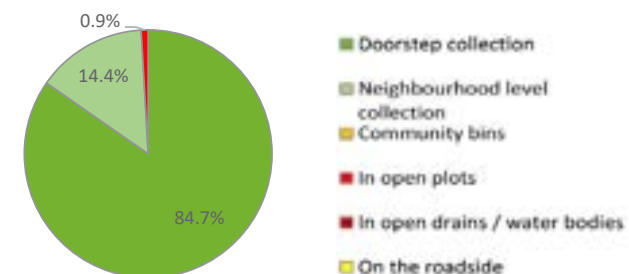
4. Solid waste management system



Total waste generation (kg) **125**

% of HHs segregating waste **15%**

Method of HH waste disposal



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



As per the verbal information provided by the respondents.

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

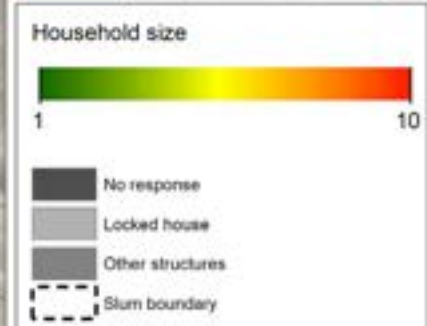


Disclaimer : The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: OpenStreetMap contributors, Mapbox Contributors, Landsat 30, 100, 1000, and 10,000 m resolution imagery, GeoEye, IGN, AerGRID, AIRPHOT, IGN, SIA, USGS Landsat, ESA, Planet, etc.

21°26'12"N

21°26'37"N



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



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: <https://data.csis.org/india/odisha/sambalpur>, 2019. © 2019 CSIS. All rights reserved. CSIS is not responsible for the use of the data.

83°58'20"E

83°58'25"E

21°26'12"N

21°26'37"N



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.



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: <https://data.cia.gov/data/docs/geographic-coordinates>, <https://www.google.com/maps/@21.4375,83.5825,15z>

83°58'20"E

83°58'25"E

21°26'12"N

21°26'37"N



Household with PWD*

- Yes
 - No
 - No response
 - Locked house
 - Other structures
 - Slum boundary
- * Person with Disabilities

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



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, Odisha, Government of India, 2019. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage or retrieval system, without prior permission in writing from the Urban Management Centre.

83°58'20"E

83°58'25"E

21°26'12"N

21°26'37"N



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.



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°58'20"E

83°58'25"E

21°26'12"N

21°26'37"N



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



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, Odisha, Government of India, 2019. Urban Management Centre, Odisha, Government of India, 2019.

83°58'20"E

83°58'25"E

21°26'12"N

21°26'37"N



Functionality of IHHL

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

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



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°58'20"E

83°58'25"E

21°26'12"N

21°26'37"N



Grey water disposed to :

- Single pit
- Open drain
- Water is let out on streets
- Pond
- No response
- Locked house
- Other structures
- Slum boundary

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



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: <https://www.india.gov.in> on the national development, infrastructure, energy, urban and rural development, and other sectors.

83°58'20"E

83°58'25"E

67. Thelkopada

Sambalpur

Slum name
THELKO PADA

Ward
25

Total number of households in the slum
133

Approximate area of the slum
2.3 ha



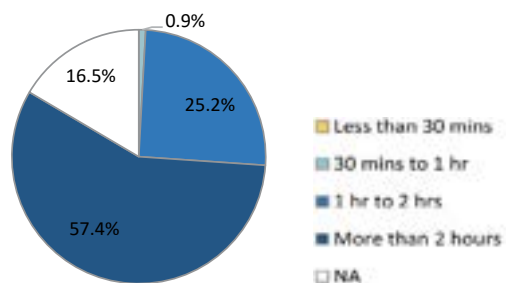
1. Access to municipal water supply



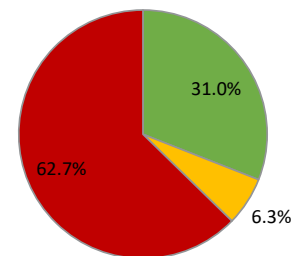
% of HHs with individual water tap connection **40%**

% of HHs satisfied with the quality of water supplied

Duration of daily water supply



2. Access to toilets



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

Number of HHs having IHHL **39**

% of functional IHHLs **-**

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

Total number of persons dependent on PT/CTs **53**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

% of HHs connected with safe disposal system for grey water **3%**

% of IHHLs connected to septic tank/soak pit/twin pit **31%**

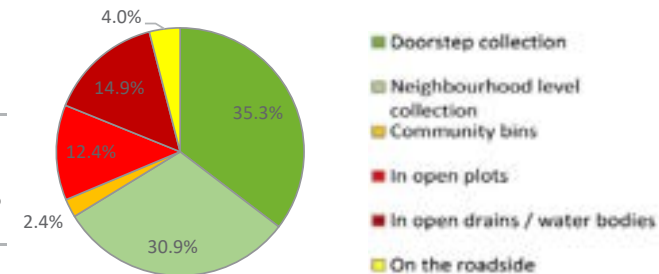
4. Solid waste management system



Total waste generation (kg) **179**

% of HHs segregating waste **33%**

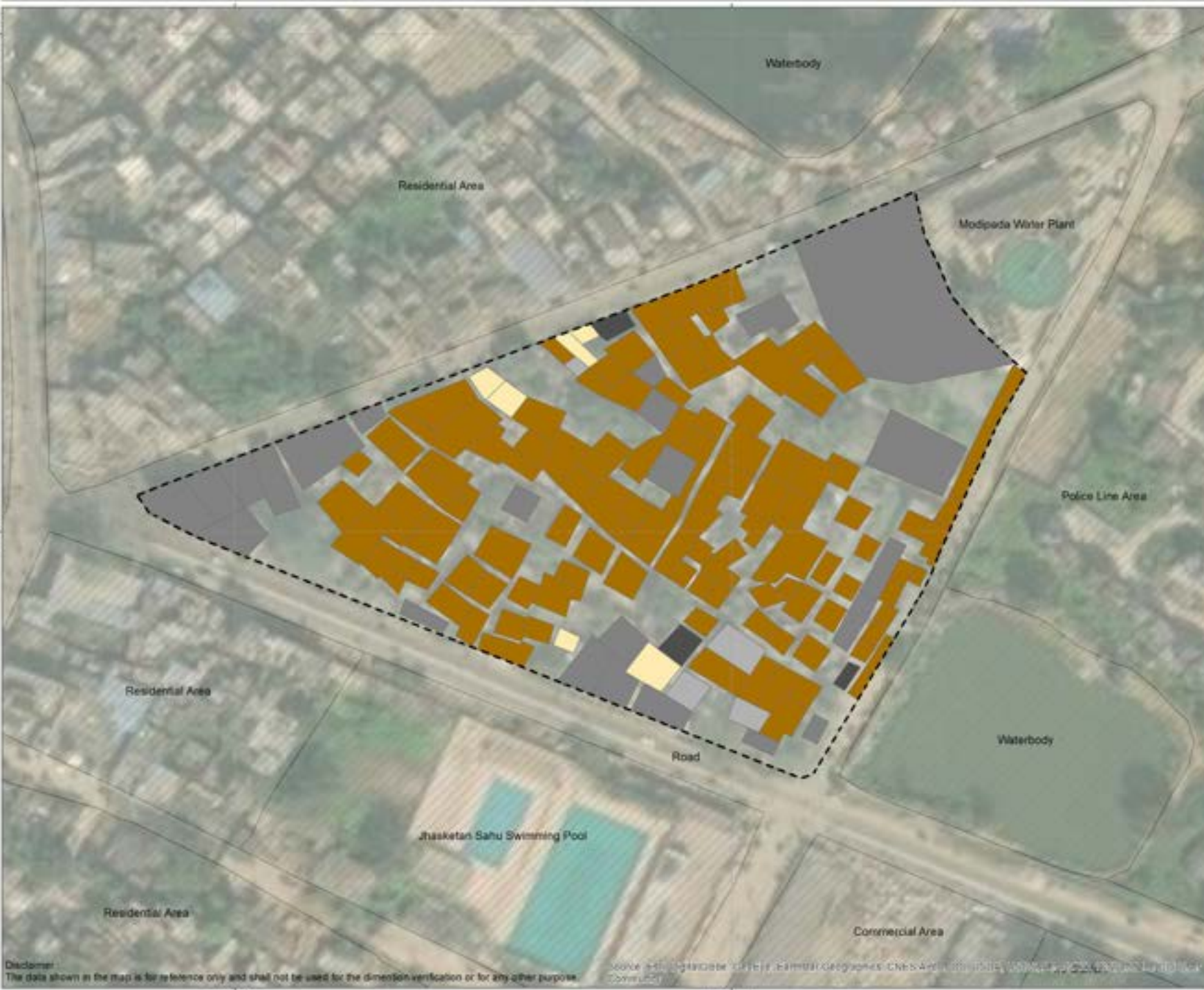
Method of HH waste disposal



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

21°26'20"N

21°25'15"N



Number of floors in the building

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

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



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

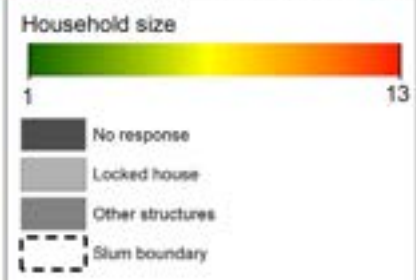
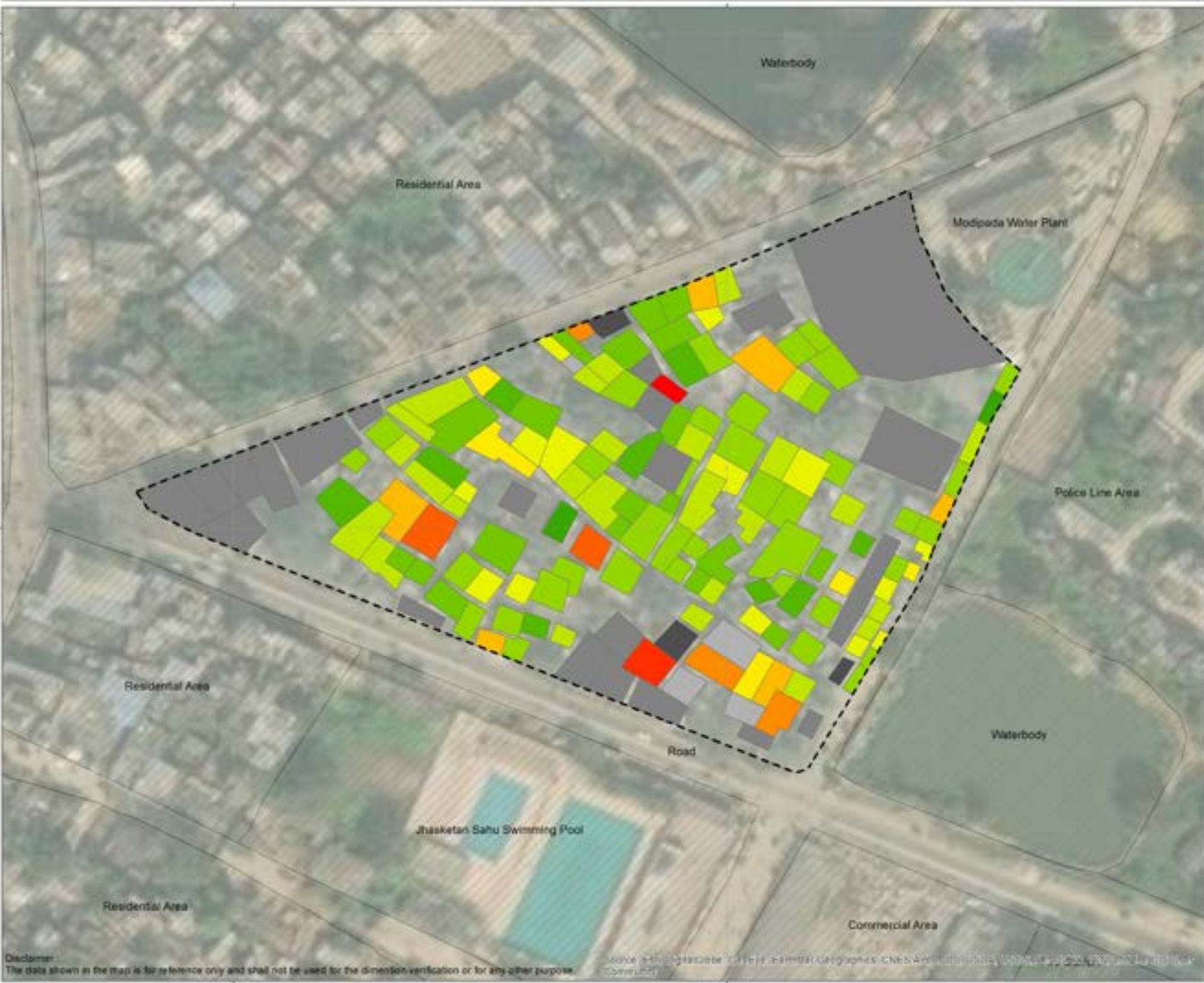
Source: <https://data.csis.org/odisha-geographic-information-systems/>

83°58'10"E

83°58'15"E

21°26'20"N

21°25'15"N



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

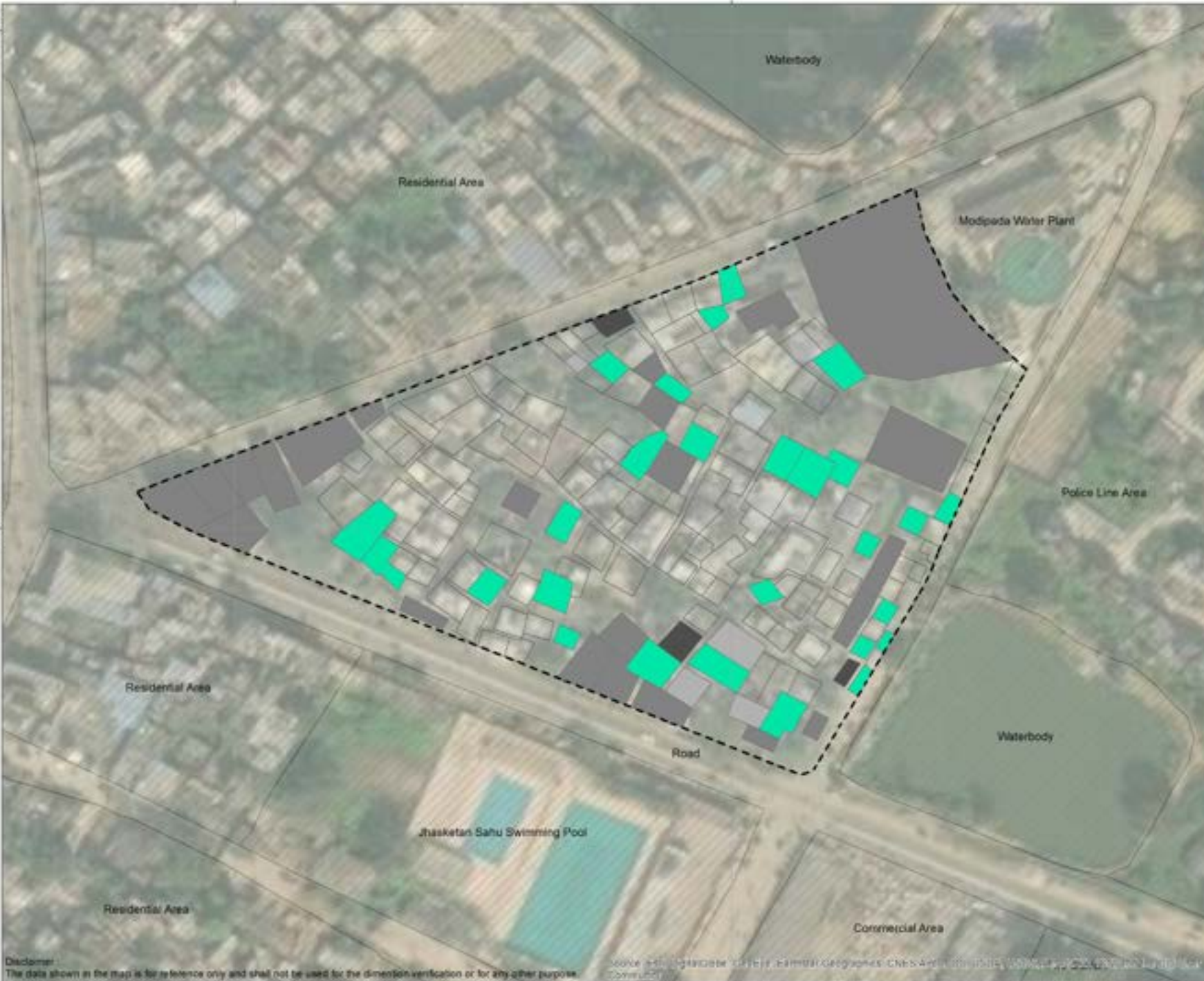


83°58'10"E

83°58'15"E

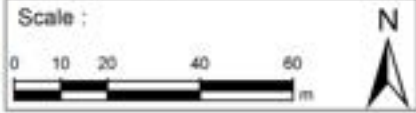
21°26'20"N

21°25'15"N



- 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.



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

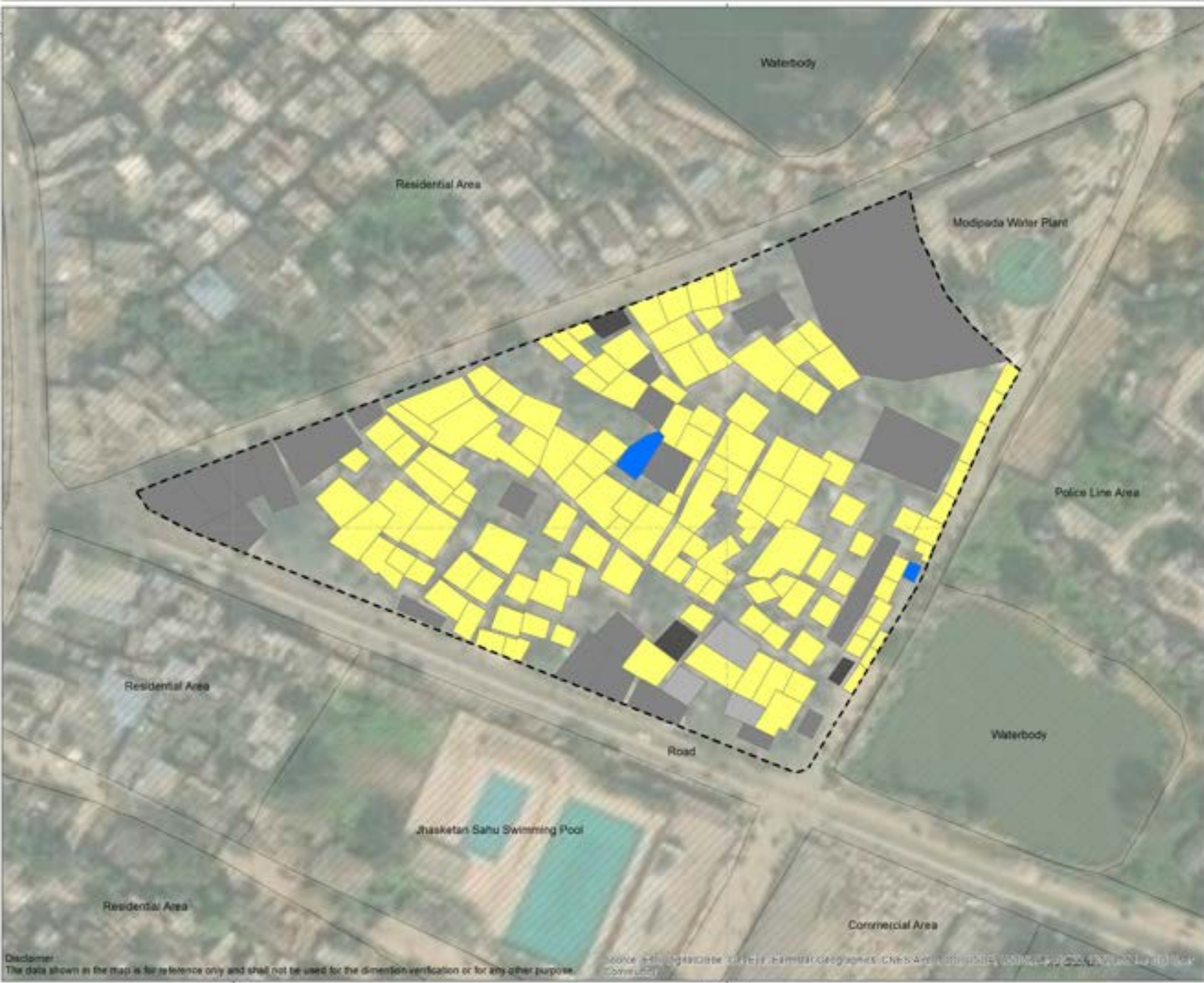
Source: https://www.cia.gov/library/publications/the-world-factbook/docs/1001_1002.html

83°58'10"E

83°58'15"E

21°26'20"N

21°25'15"N

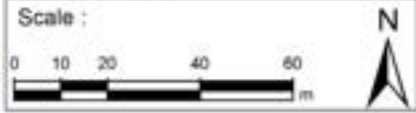


Household with PWD*

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

* Person with Disabilities

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



21°26'20"N

21°25'15"N



- Source of water in household**
- Tap connection at home
 - Tap connection at home & Stand post
 - Tap connections at home & Hand pump
 - Stand post
 - Stand post & Water tanker (Government)
 - Stand post & Fetching water from neighbourhood
 - Hand pump
 - Fetching water from neighbourhood
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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



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

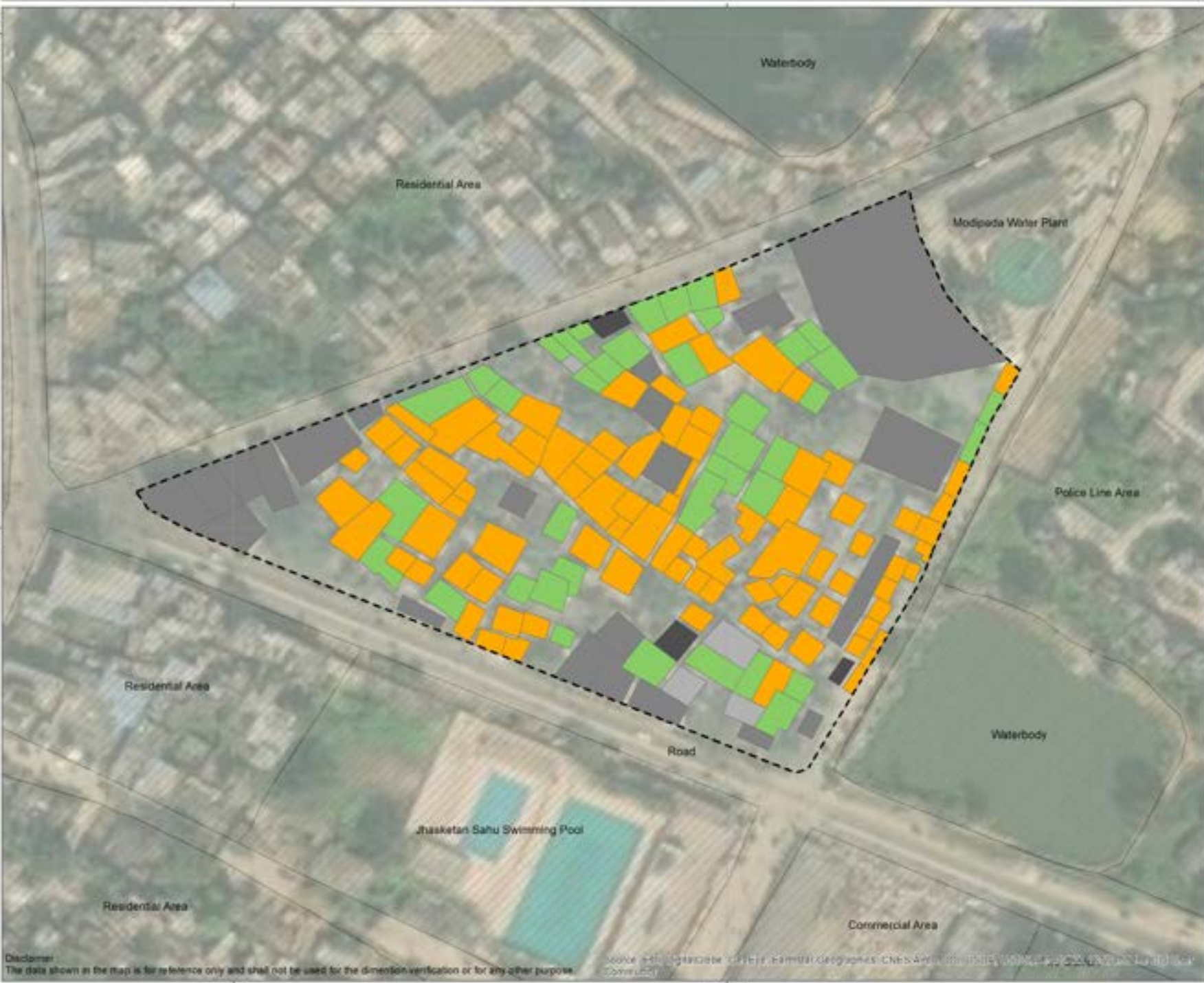
Source: <http://www.copernicus.com/earth-observation/> and www.usgs.gov/

83°58'10"E

83°58'15"E

21°26'20"N

21°25'15"N



Functionality of IHHL

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

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

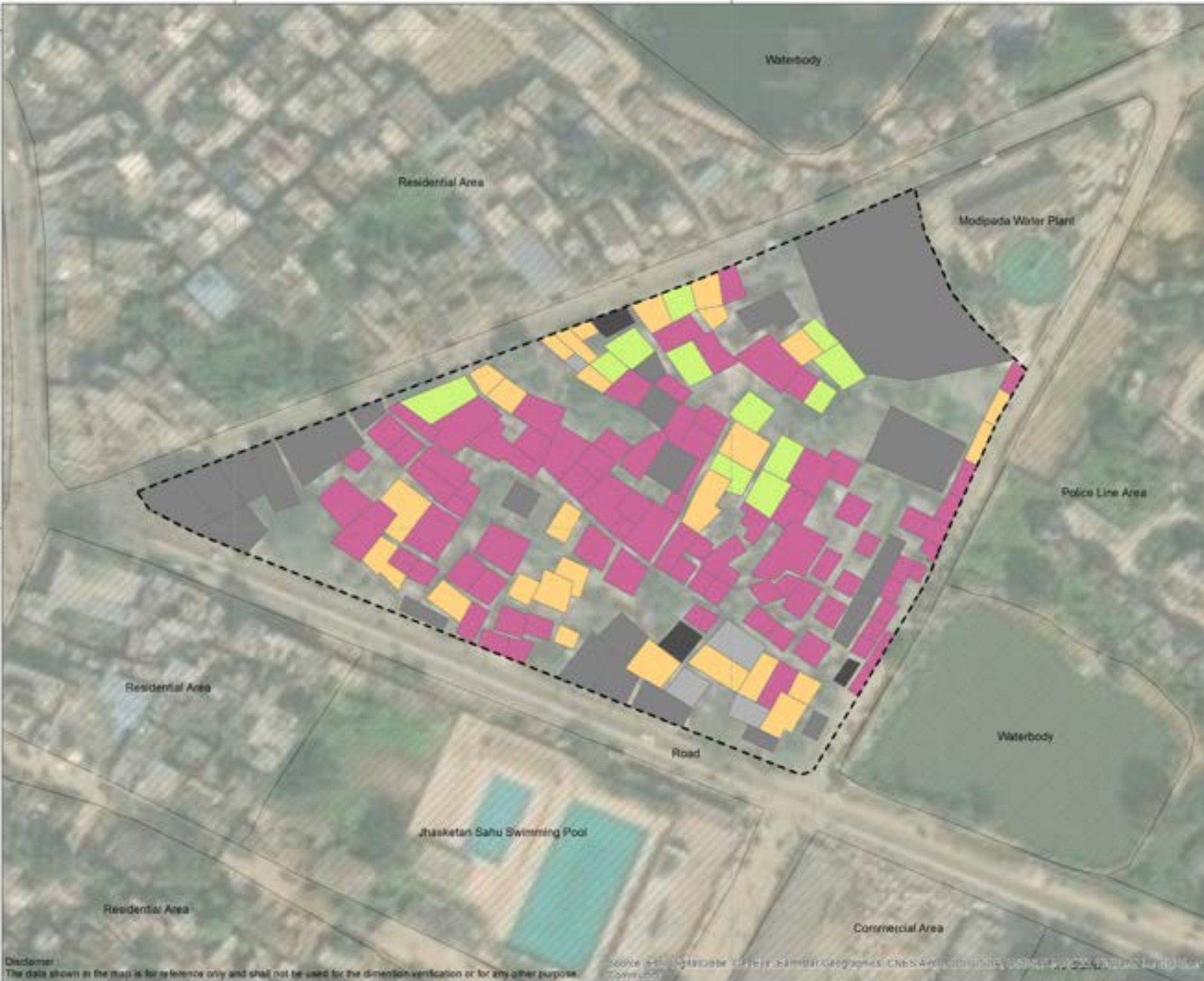


83°58'10"E

83°58'15"E

21°26'20"N

21°25'15"N



IHHL connected to :

- Single pit / 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.



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

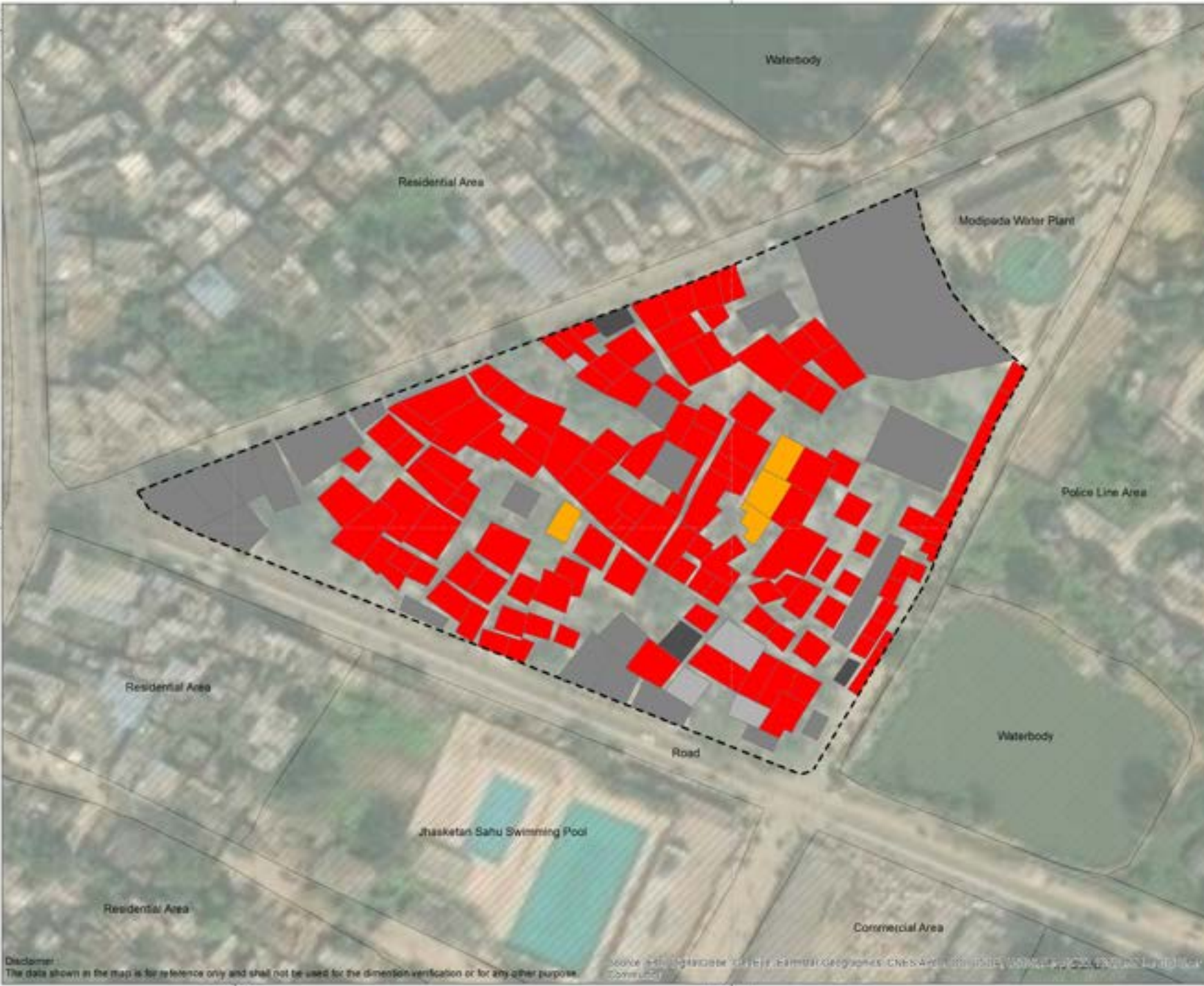
Source: <http://datacatalogue.cefe.org/Environmental-Geographic-Data/India/Sambalpur/UMC/UMC-2019-2020>

83°58'10"E

83°58'15"E

21°26'20"N

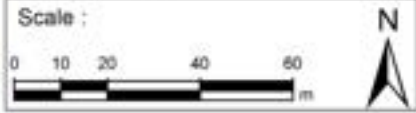
21°25'15"N



Grey water disposed to :

- Single pit
- Open drain
- No response
- Locked house
- Other structures
- Slum boundary

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



83°58'10"E

83°58'15"E

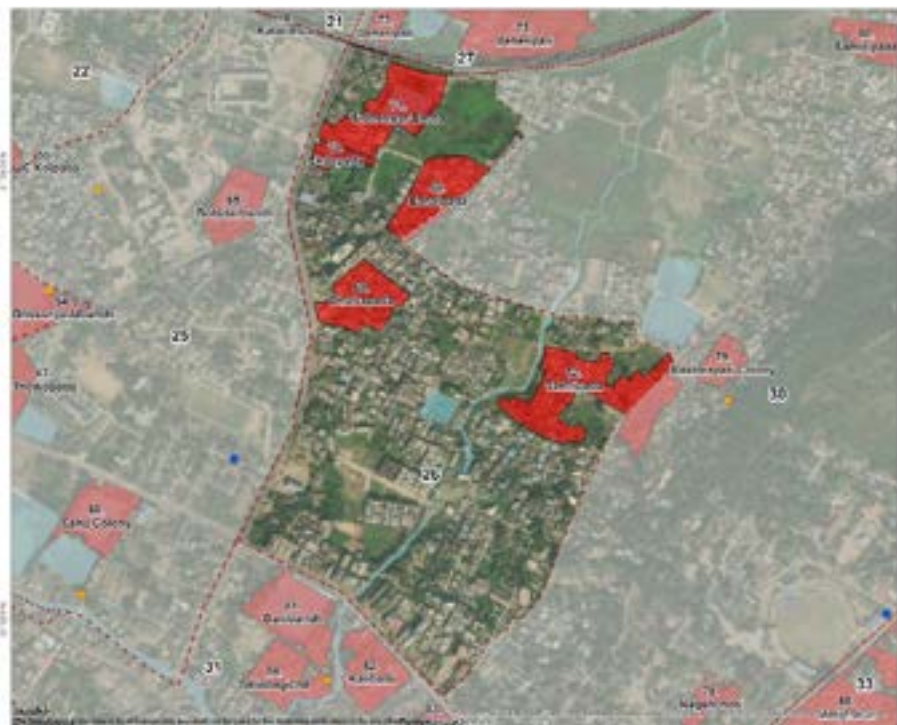
Ward - 26

Sambalpur

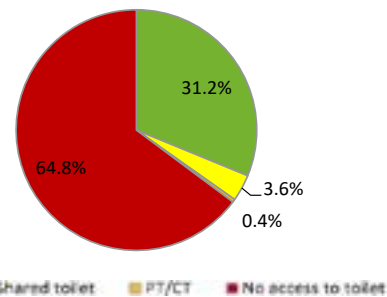
Ward name
26

Number of slums
4

Total number of households in slums
335



2. Access to toilets



Number of HHs having IHHL **78**

% of functional IHHLs **97%**

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

Total number of persons dependent on PT/CTs **4**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

% of HHs connected with safe disposal system for grey water **2%**

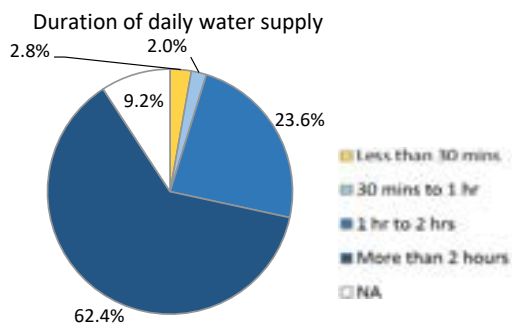
% of IHHLs connected to septic tank/ soak pit/ twin pit **40%**

1. Access to municipal water supply



% of HHs with individual water tap connection **37%**

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



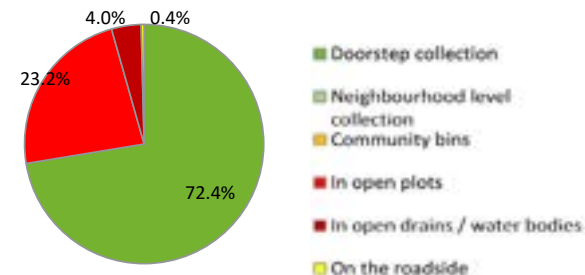
4. Solid waste management system



Total waste generation (kg) **320**

% of HHs segregating waste **24%**

Method of HH waste disposal



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

68. Bahalpada

Sambalpur

Slum name
BAHAL PADA

Ward
26

Total number of households in the slum
117

Approximate area of the slum
1.7 ha

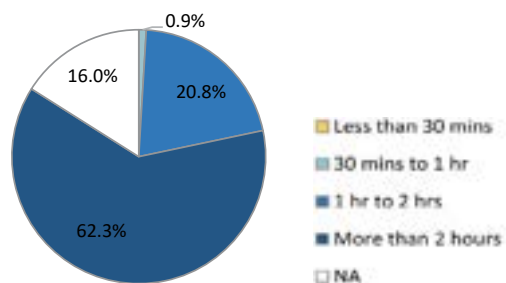


1. Access to municipal water supply

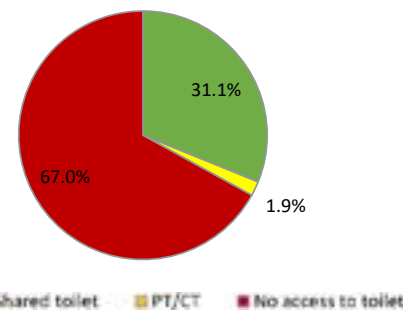
% of HHs with individual water tap connection **22%**

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

Duration of daily water supply



2. Access to toilets



Number of HHs having IHHL **33**

% of functional IHHLs **97%**

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 **4%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **3%**

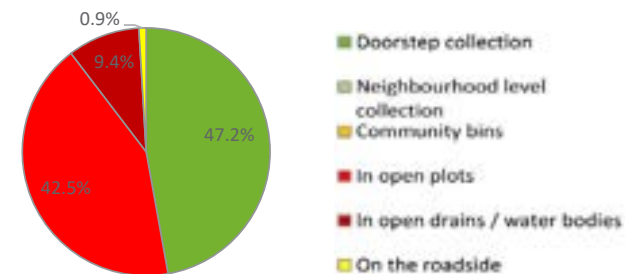
4. Solid waste management system



Total waste generation (kg) **134**

% of HHs segregating waste **-**

Method of HH waste disposal



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

21°28'30"N

21°28'25"N



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.

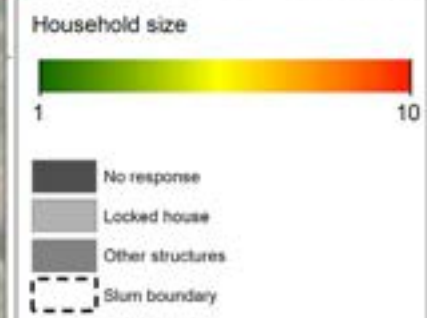
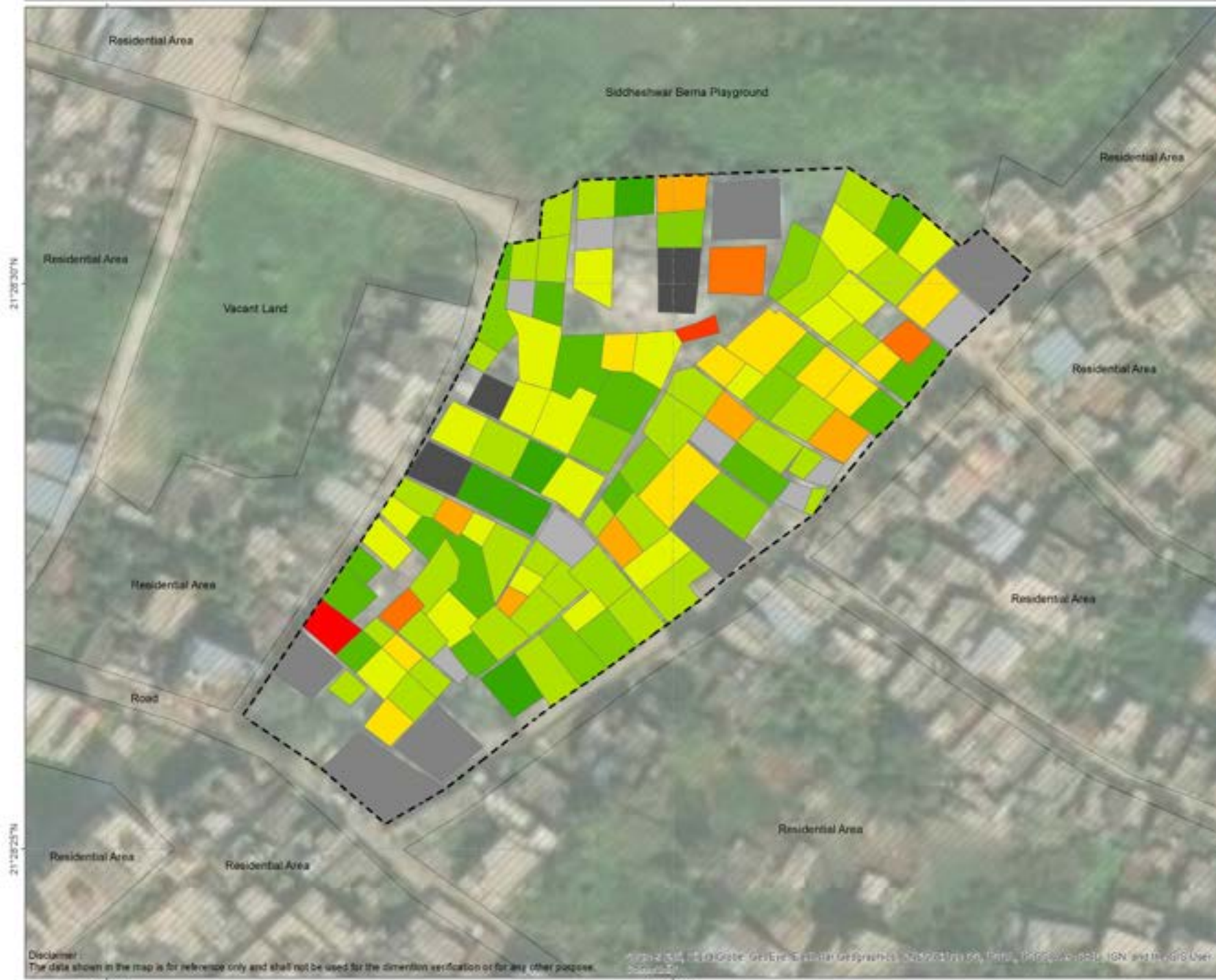


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83°58'40"E

83°58'45"E

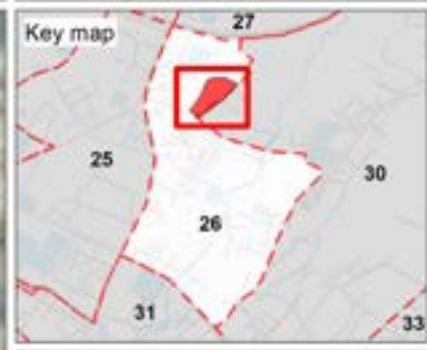


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



21°28'30"N

21°28'25"N



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.

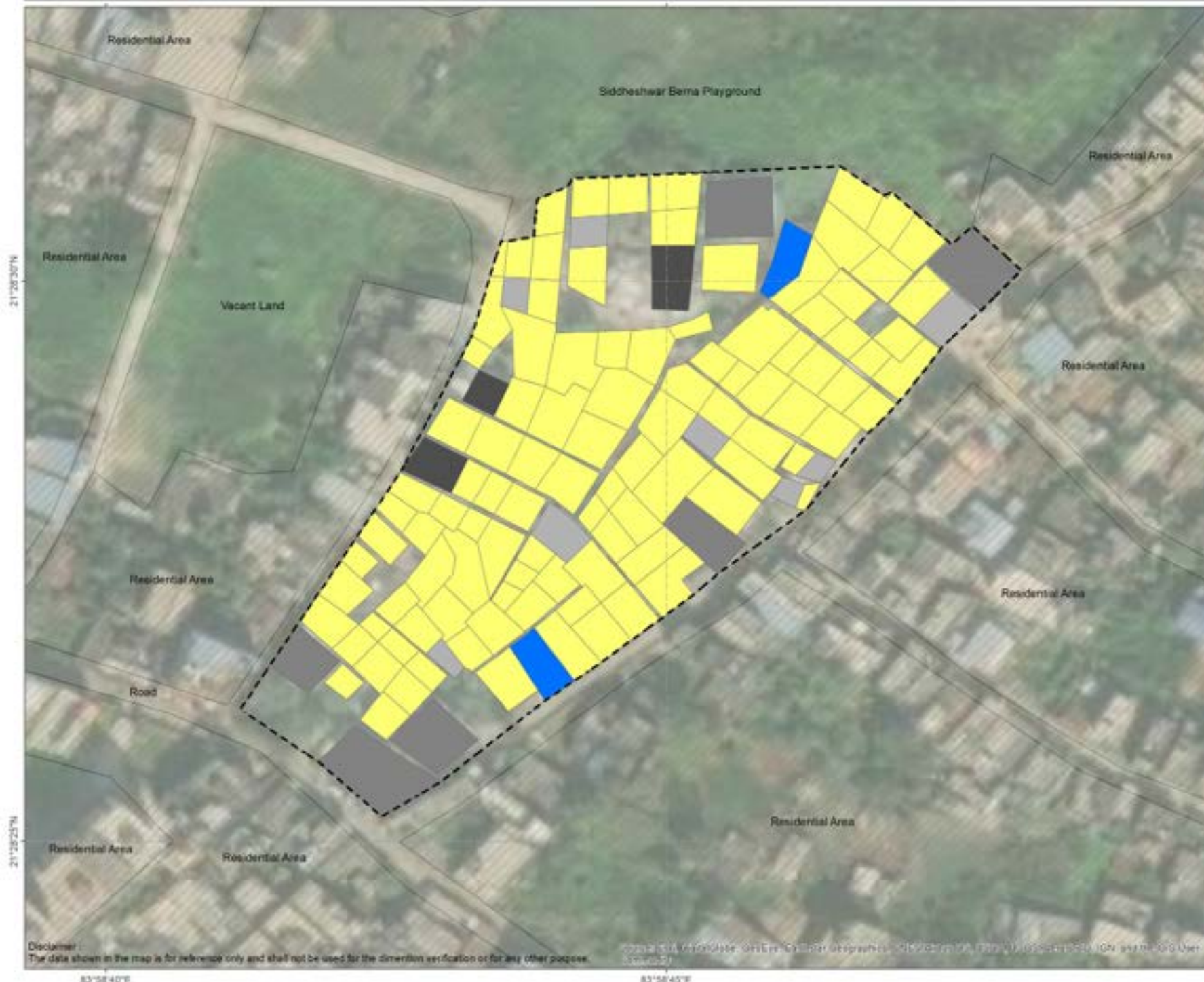


Disclaimer : The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: ESRI, DeLorme, GeoEye, (DigitalGlobe), GeoEye, (DigitalGlobe), IGN, and Mapbox User

83°58'40"E

83°58'45"E



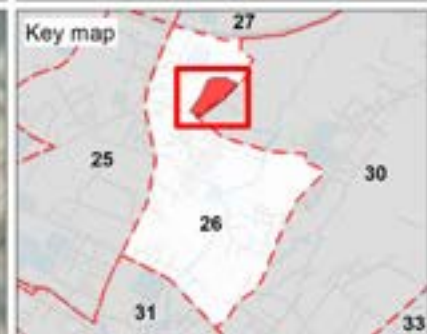
Household with PWD*

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

* Person with Disabilities

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



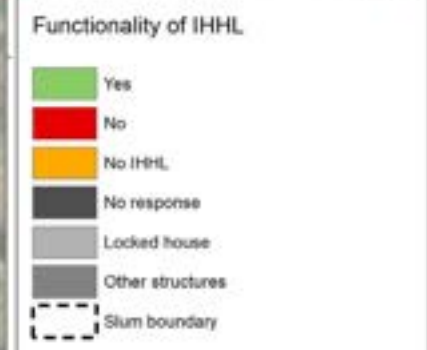
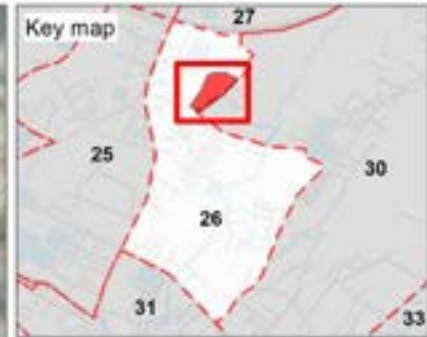


Source of water in household

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

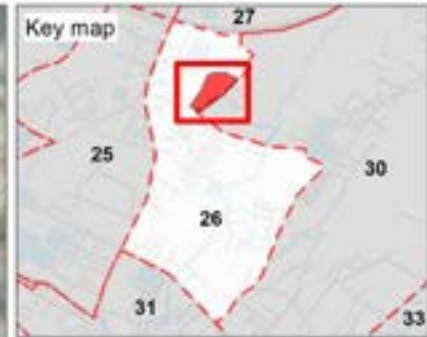
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.





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





- Grey water disposed to :
- Single pit
 - Small pit (kundi) outside the house
 - Open drain
 - Water is let out on streets
 - No response
 - Locked house
 - Other structures
 - Slum boundary

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



69. Dhutrapada

Sambalpur

Slum name
DHUTRAPADA

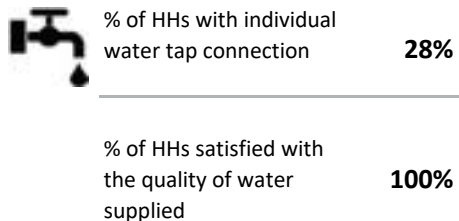
Ward
26

Total number of households in the slum
36

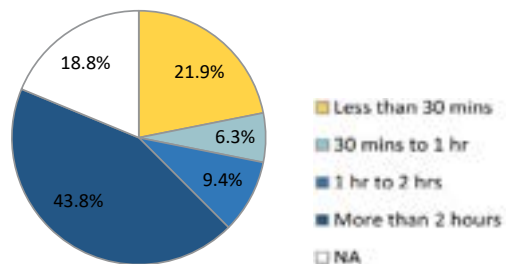
Approximate area of the slum
1.6 ha



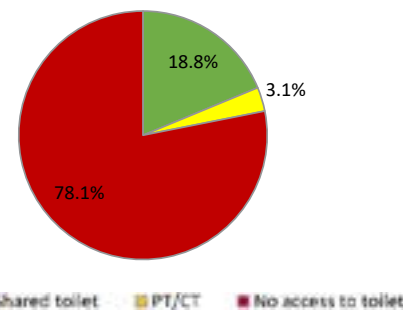
1. Access to municipal water supply



Duration of daily water supply



2. Access to toilets



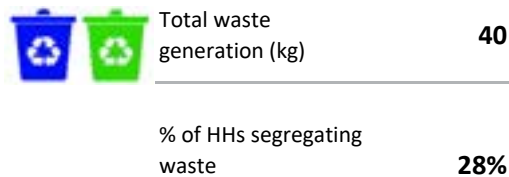
| | |
|---|-------------|
| Number of HHs having IHHL | 6 |
| % of functional IHHLs | 100% |
| Number of PT/CTs near the slum | - |
| Total number of persons dependent on PT/CTs | - |

3. Access to safe wastewater disposal system

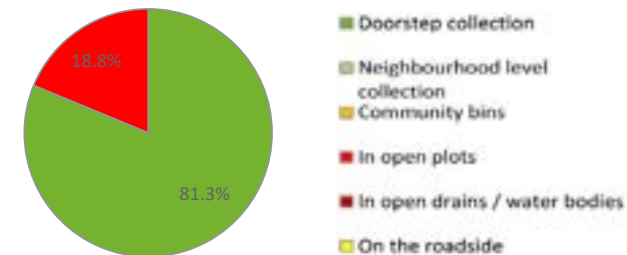


| | | | |
|---|------------|---|-----------|
| % of IHHLs connected to sewers | - | % of HHs connected with safe disposal system for grey water | 3% |
| % of IHHLs connected to septic tank/soak pit/twin pit | 83% | | |

4. Solid waste management system



Method of HH waste disposal



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

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



As per the verbal information provided by the respondents.

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



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.

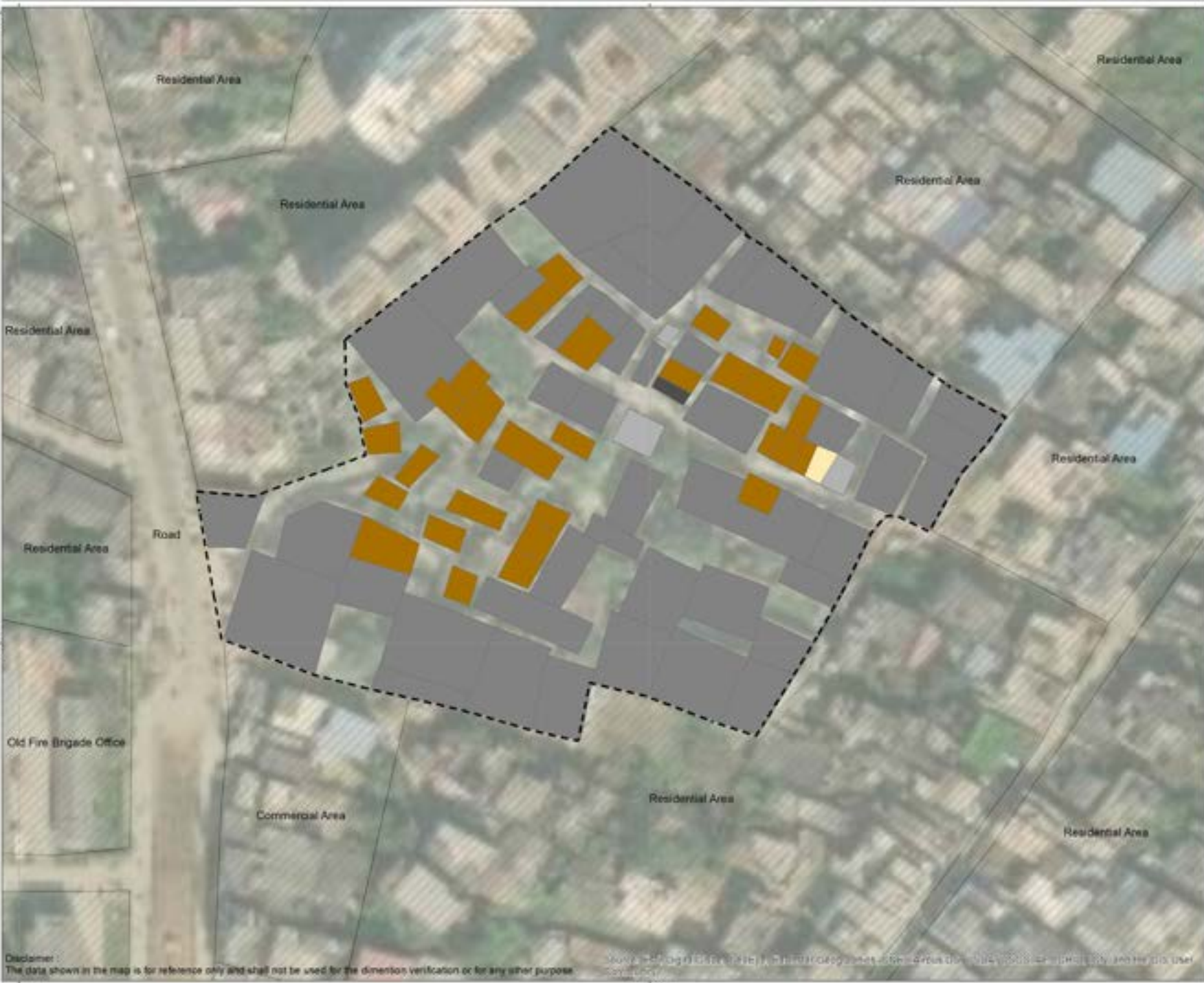
Source: Google Earth Pro, 2020. Geographical coordinates are in UTM, UTM Zone 49Q, Datum: WGS 1984, Projection: UTM, Unit: Meter.

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



Number of floors in the building

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

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



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.

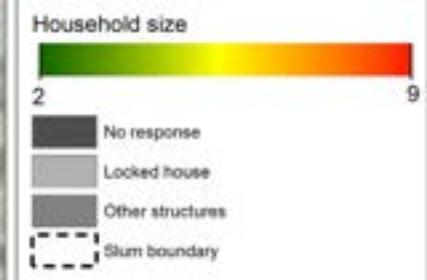
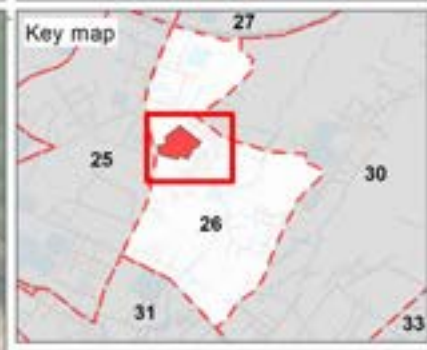
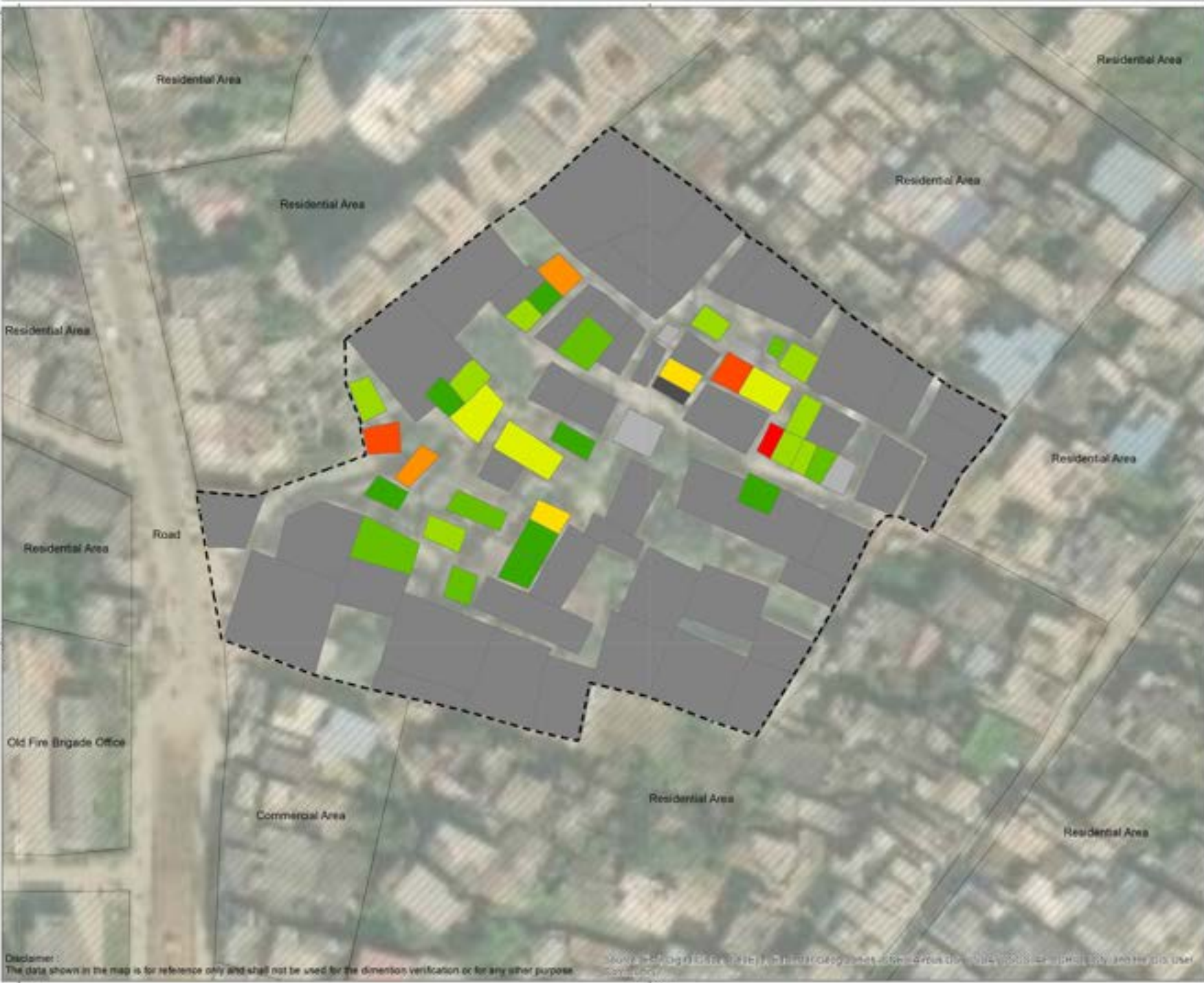
Source: Google Earth Pro, 2020. Geographical coordinates are in UTM, UTM Zone 49Q, datum WGS 1984, projection UTM, units in meters.

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



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



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.

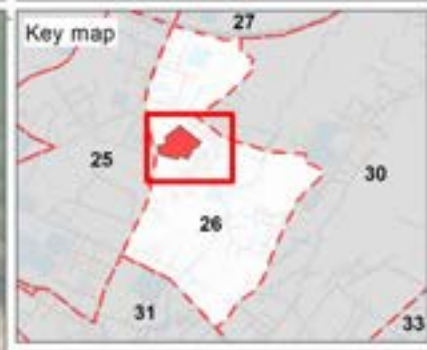
Source :
Urban Management Centre. (2019).
Primary household survey of slums in Sambalpur, Odisha.

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"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.



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.

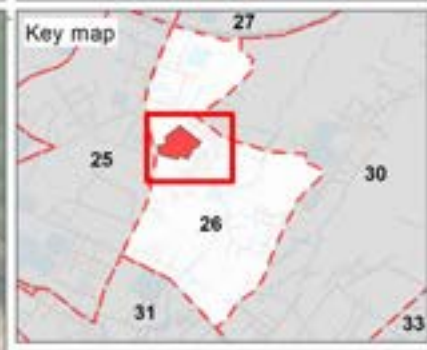
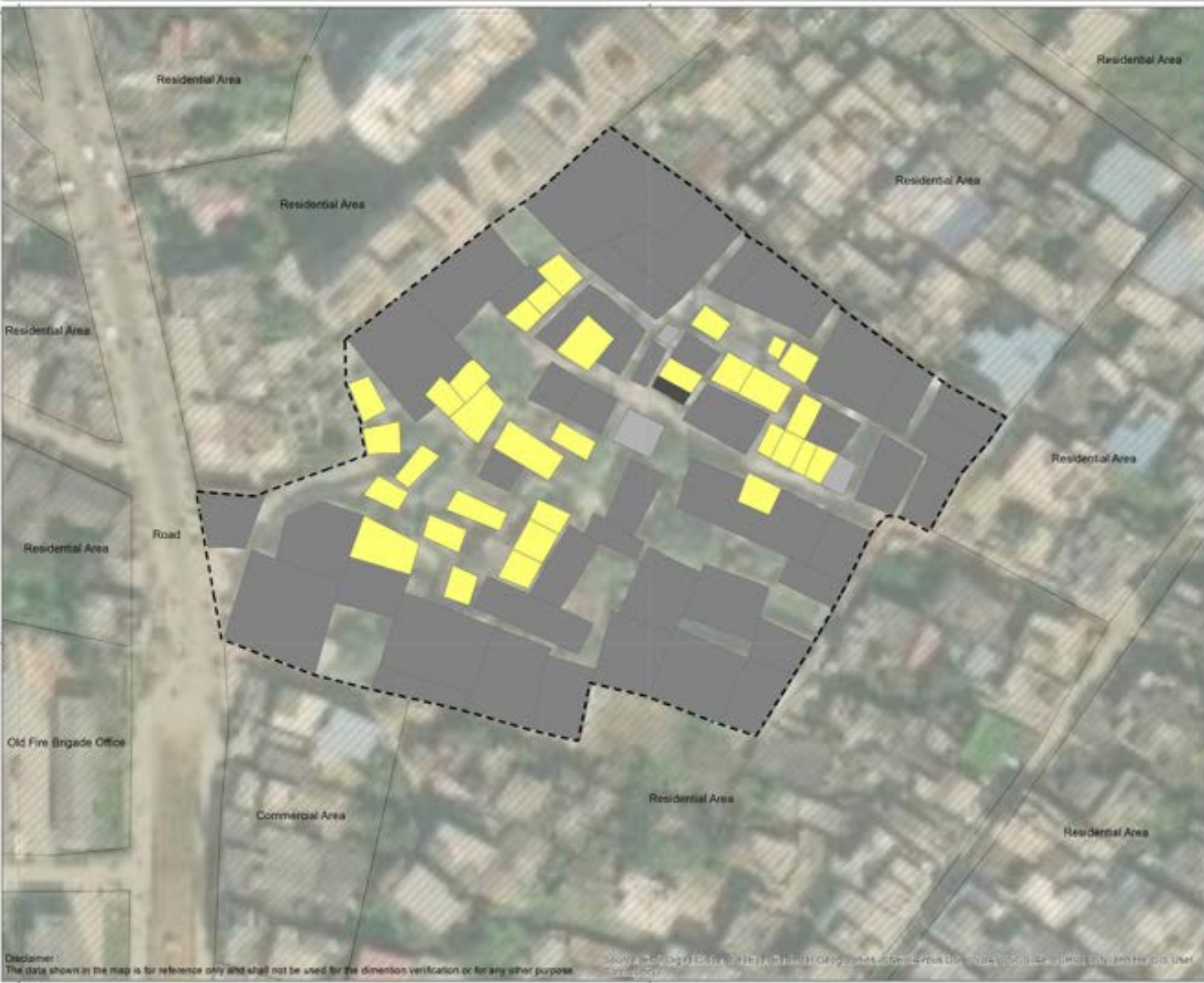
Source: Google Earth Pro, 2020. Geographical coordinates are in WGS 1984. UTM zone 49Q, datum WGS 1984, projection UTM, units in meters.

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



Household with PWD*

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

* Person with Disabilities

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



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.

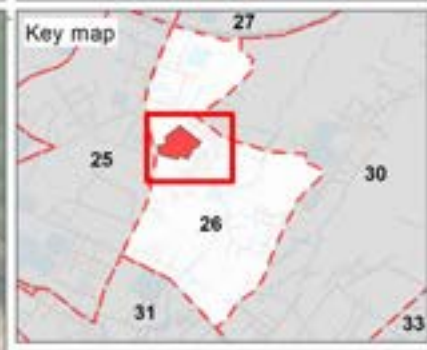
Source: Google Earth Pro, 2020. Geographical coordinates are in UTM, UTM Zone 49Q, datum WGS 1984, projection UTM, units in meters.

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



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



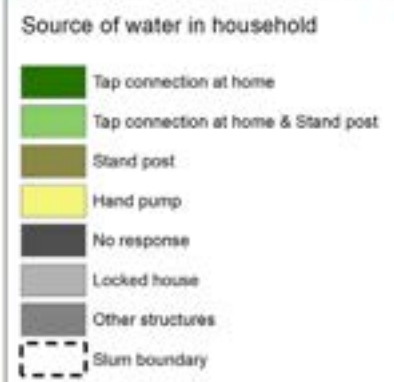
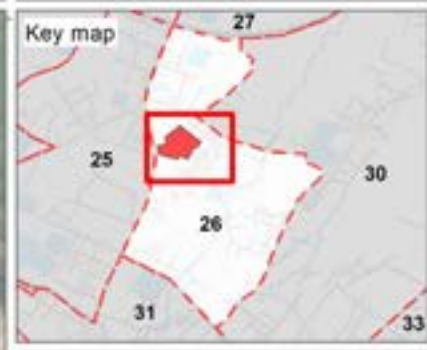
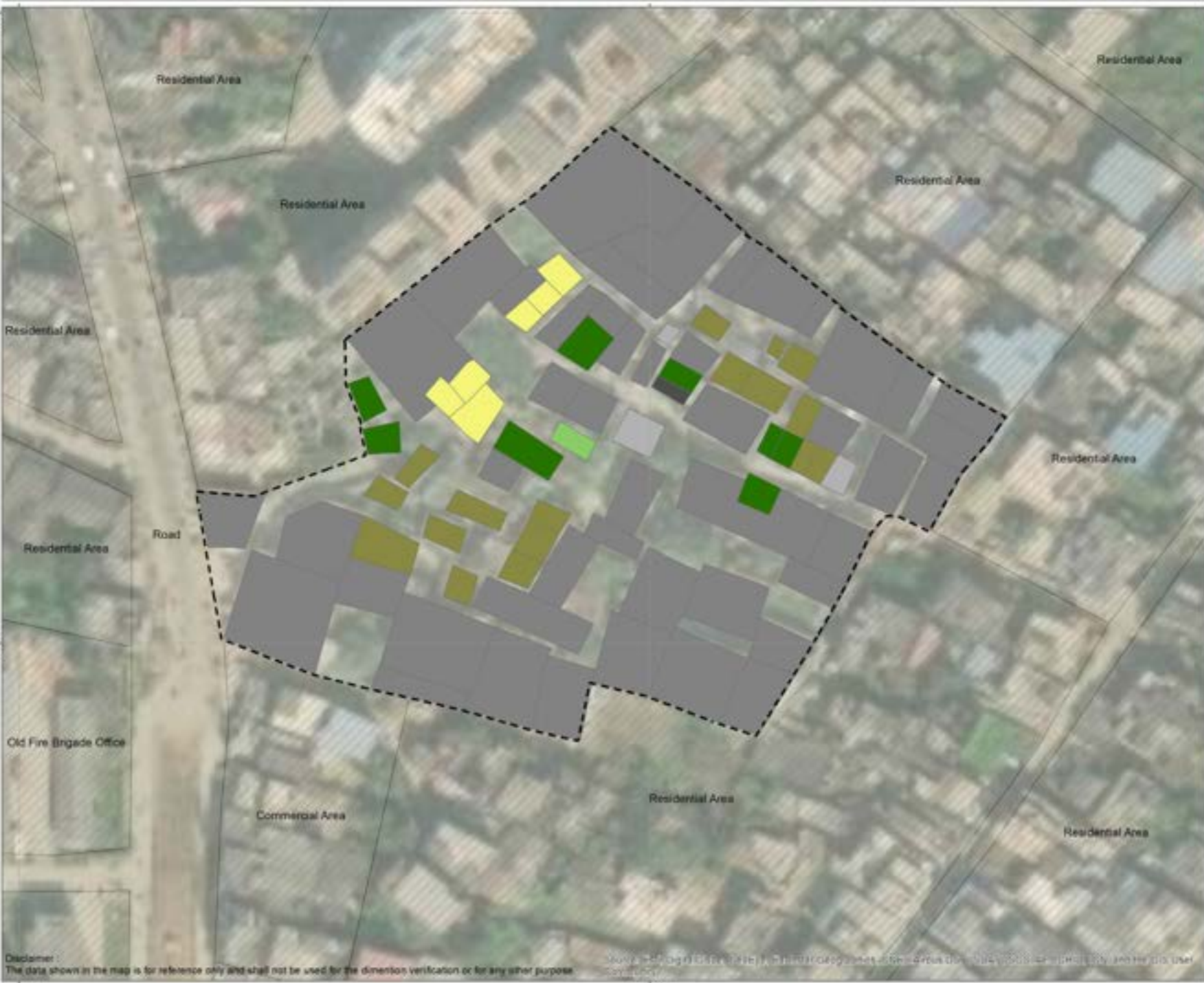
Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: Google Earth Pro (© 2019), DigitalGlobe, GeoEye, Earthstar (United States), CNES/Airbus DS, USDA, AeroGRID, IGN, and the GIS User Community

21°28'25"N

21°28'20"N

83°58'35"E



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



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.

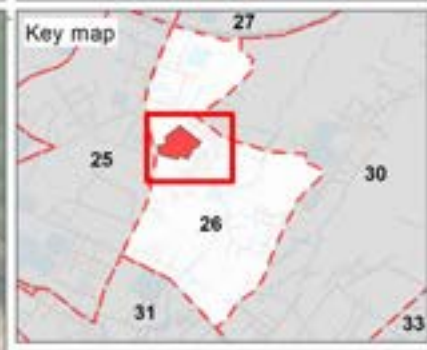
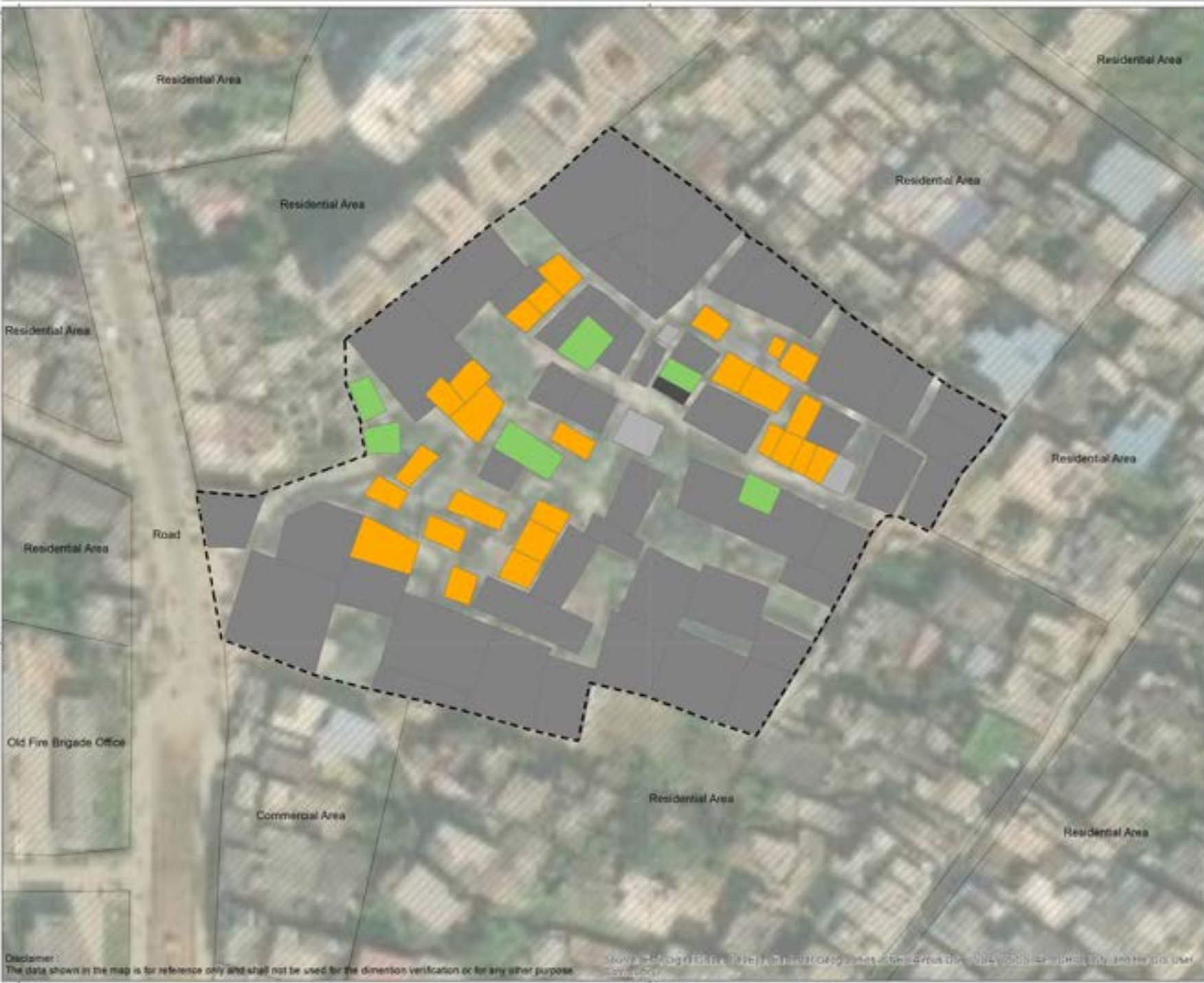
Source: OpenStreetMap contributors, Mapbox Contributors (2020), Imagery © Mapbox, © OpenStreetMap contributors, CC-BY, Imagery © Mapbox

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



Functionality of IHHL

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

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



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.

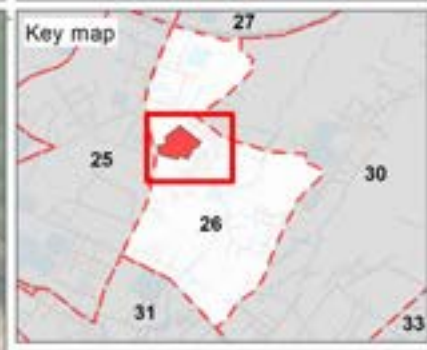
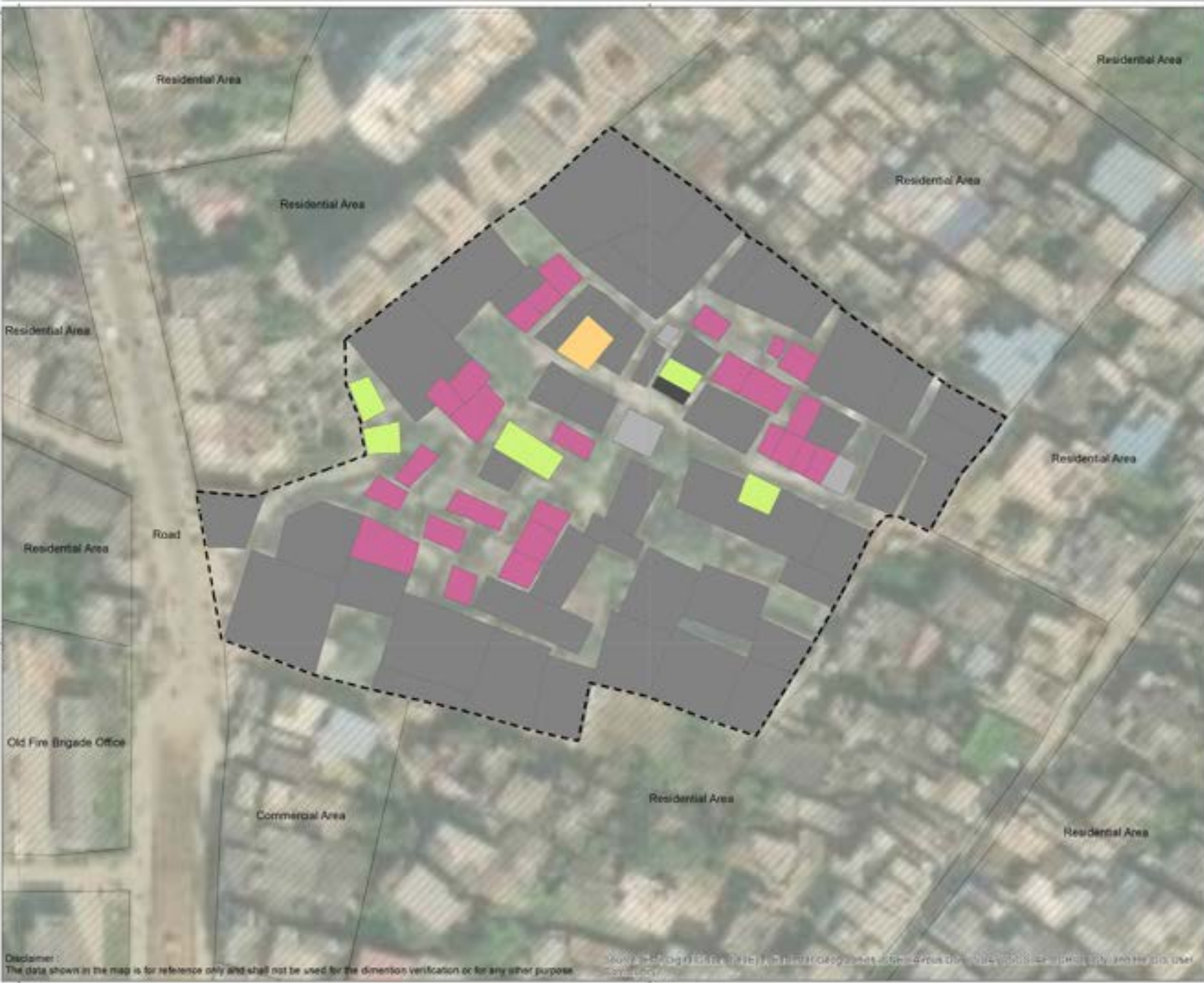
Source: Google Earth Pro, 2020. Geographical coordinates are in WGS 1984 UTM Zone 49Q projection. All rights reserved.

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



IHHL connected to :

- 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.



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.

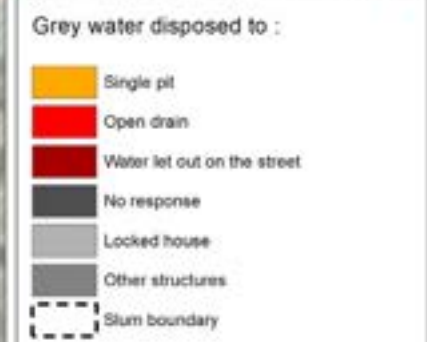
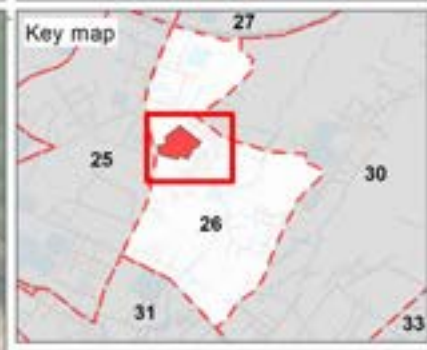
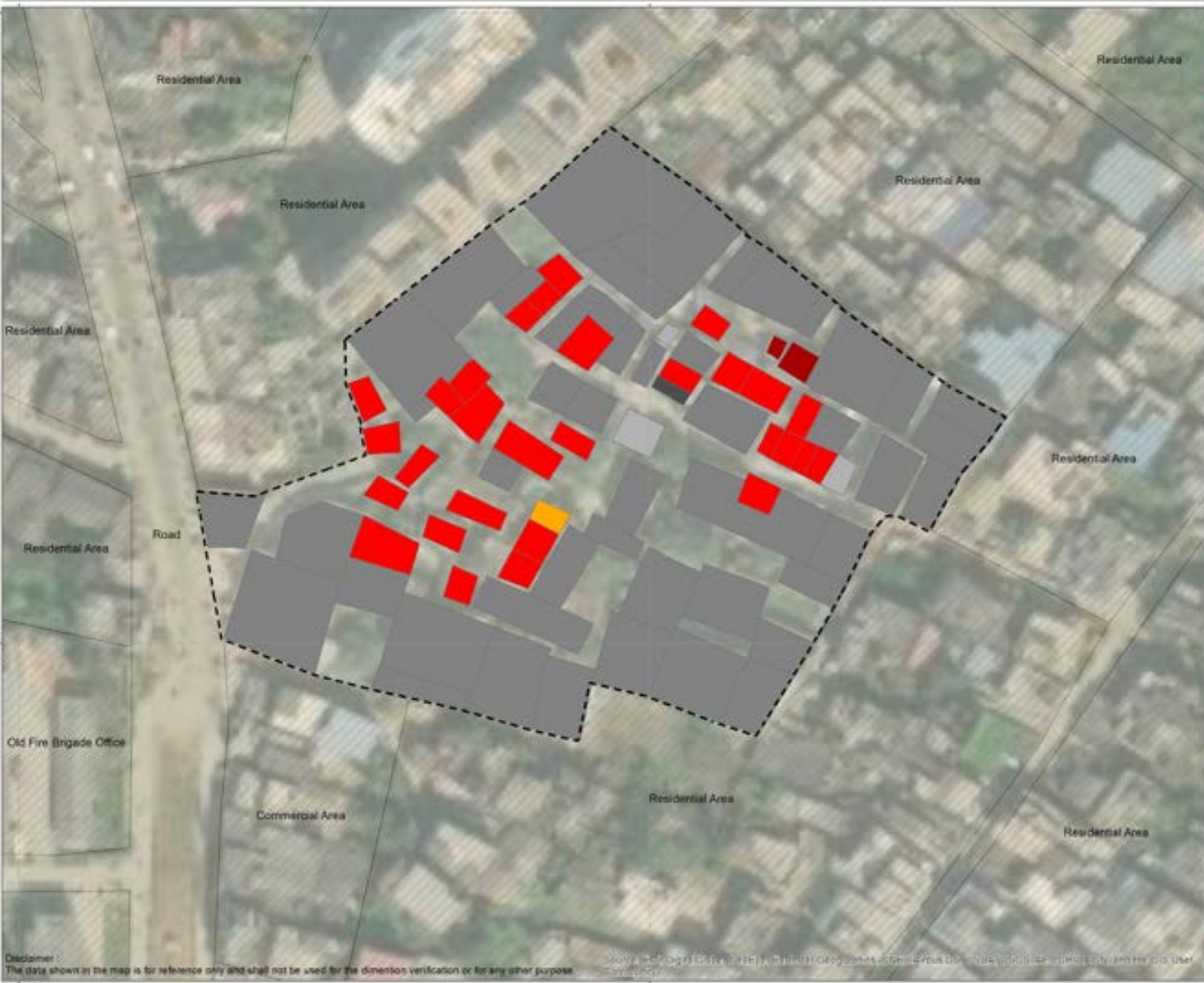
Source: Google Earth Pro, 2020. Geographical coordinates are in UTM, Zone 48Q, Datum: WGS 1984, Projection: UTM, Unit: Meter.

21°28'25"N

21°28'20"N

83°58'35"E

83°58'40"E



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



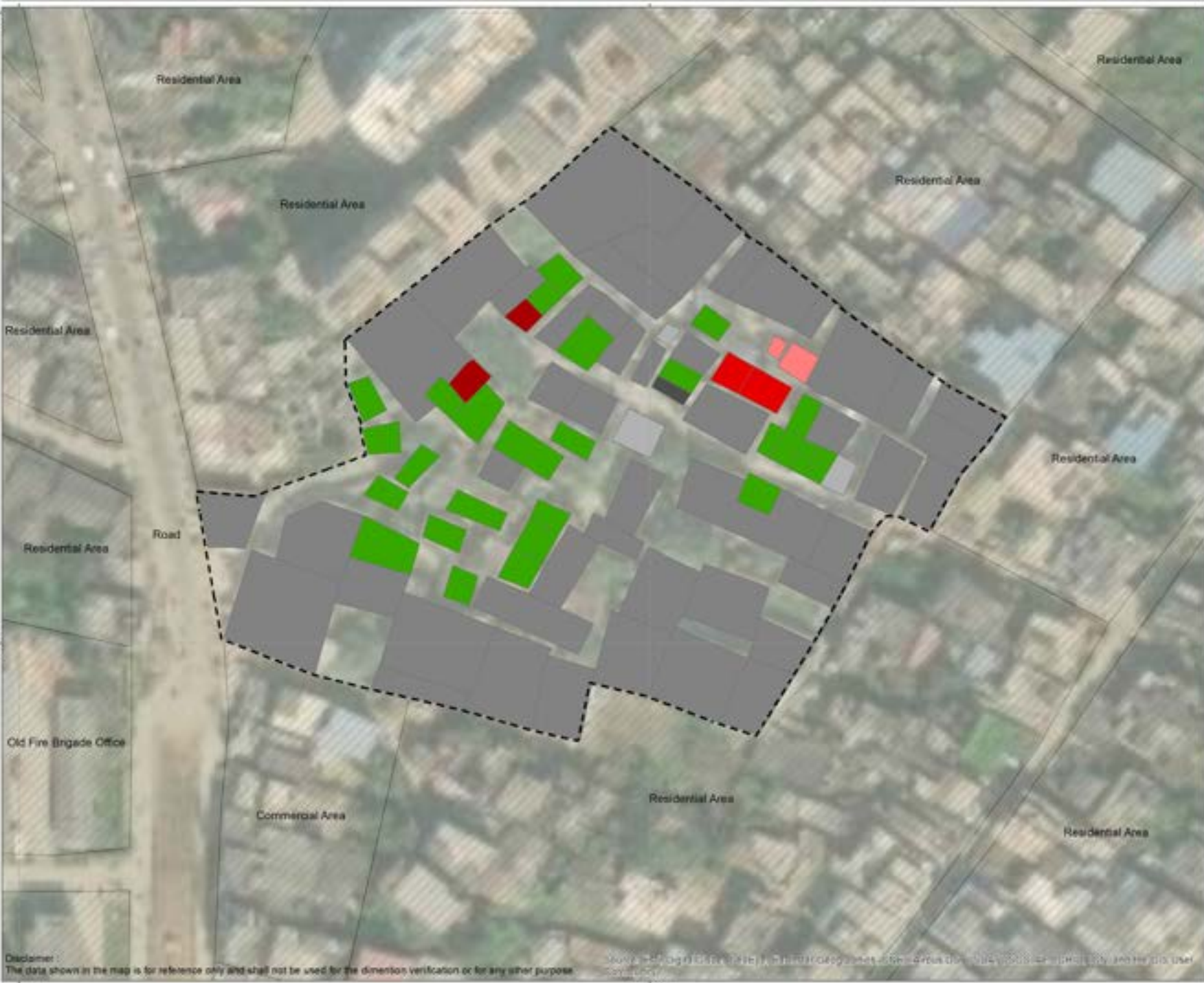
Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: <https://www.google.com/maps/@21.4718858,83.9733333,15z>

21°28'25"N

21°28'20"N

83°58'35"E



- Household disposing solid waste to :
- D to D service
 - 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.



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: Google Earth Pro, 2020. Geographical coordinates are in UTM, UTM Zone 49Q, Datum: WGS 1984, Projection: UTM, Unit: Meter.

70. Ekdupada

Sambalpur

Slum name
EKDUPADA

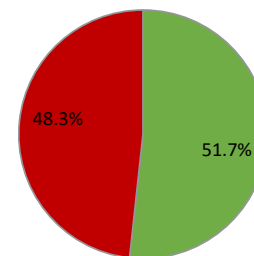
Ward
26

Total number of households in the slum
59

Approximate area of the slum
0.4 ha



2. Access to toilets



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

Number of HHs having IHHL **15**

% of functional IHHLs **93%**

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 **-**

% of IHHLs connected to septic tank/soak pit/twin pit **20%**

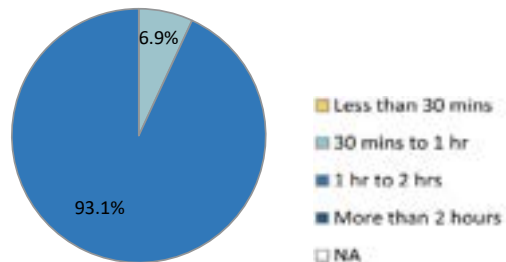
1. Access to municipal water supply



% of HHs with individual water tap connection **72%**

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

Duration of daily water supply



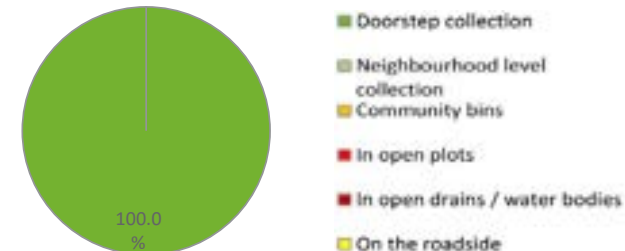
4. Solid waste management system



Total waste generation (kg) **35**

% of HHs segregating waste **100%**

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.





Number of floors in the building

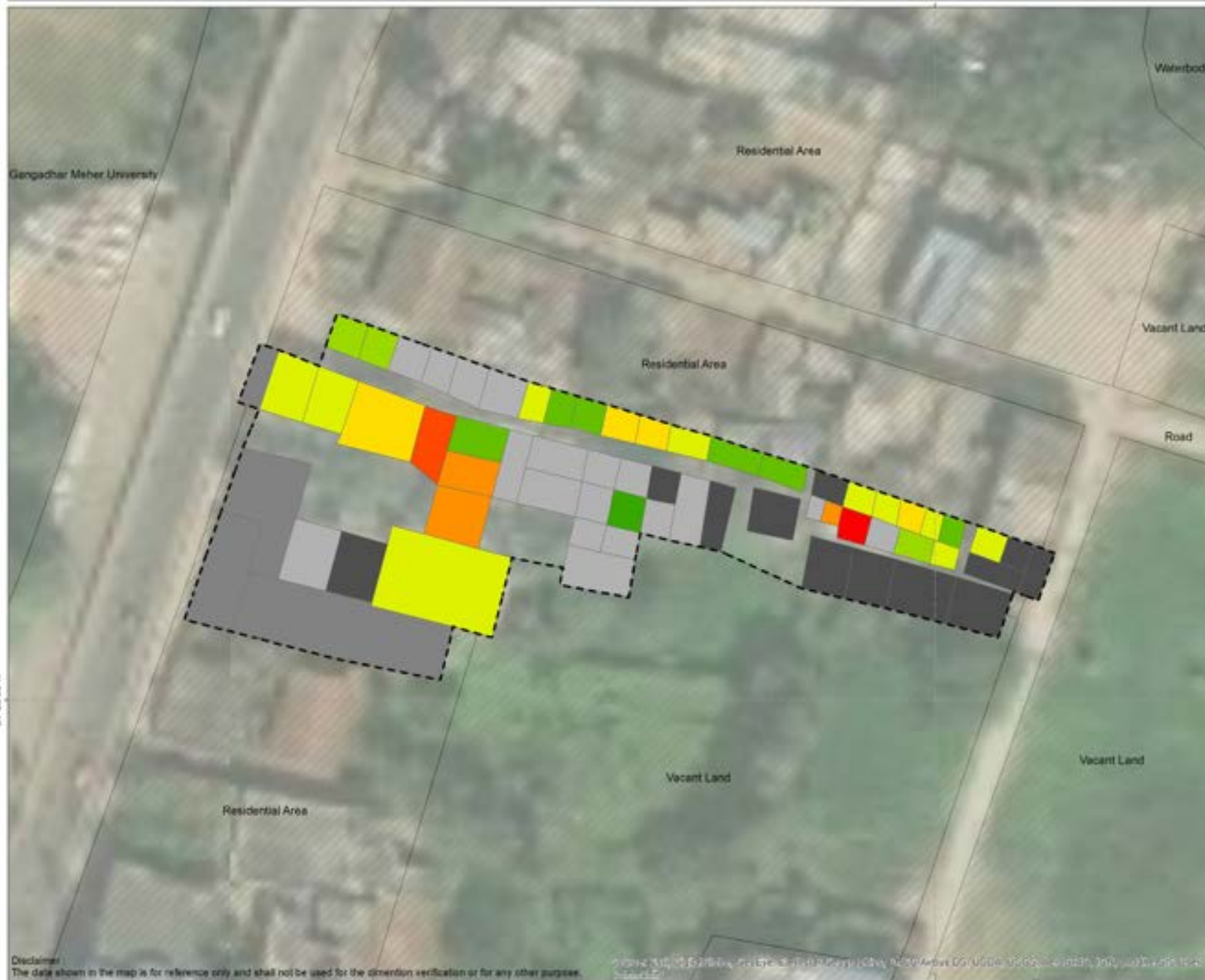
- Ground floor
- Ground floor + 1
- No response
- Locked house
- Other structures
- Slum boundary

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



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: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.



Household size

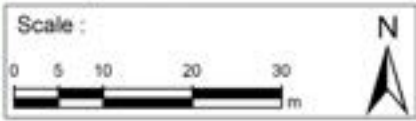


Source :
Urban Management Centre, (2019)
Primary household survey of slums in
Sambalpur, Odisha.





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



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.

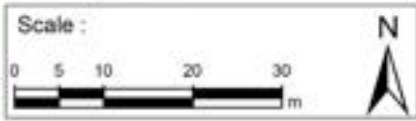
Source: Survey conducted by UMC, Sambalpur, Odisha, India, 2019.



Household with PWD*

- No
 - No response
 - Locked house
 - Other structures
 - Slum boundary
- * Person with Disabilities

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



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

Source: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.



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.

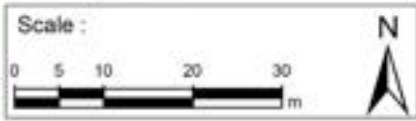




Source of water in household

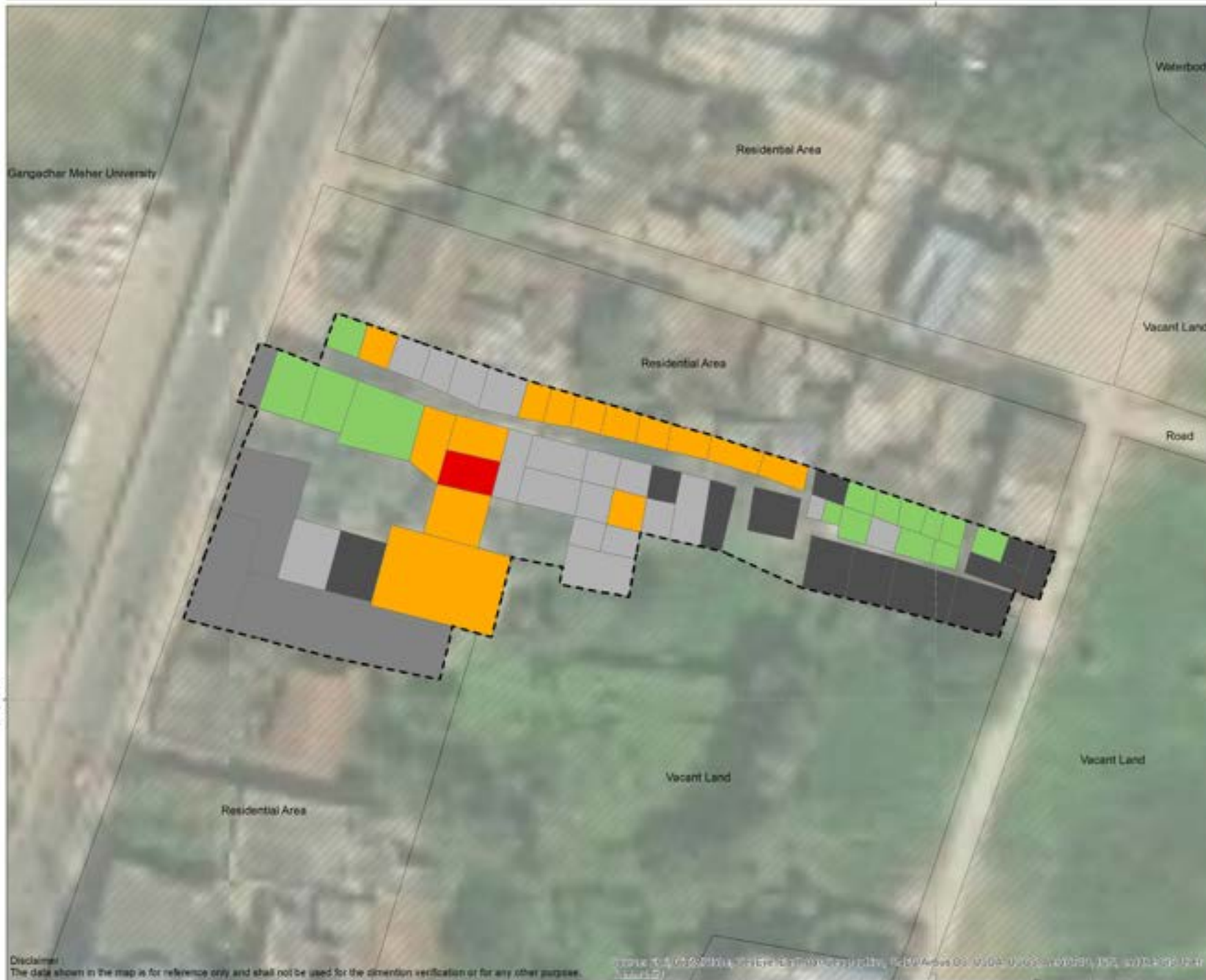
- Tap connection at home
- Stand post
- Private water tanker
- Fetching water from neighbourhood
- No response
- Locked house
- Other structures
- Slum boundary

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



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

Source: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.



Functionality of IHHL

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

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



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

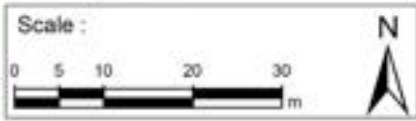
Source: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.



IHHL connected to :

- Septic tank
- Open drain
- 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.



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

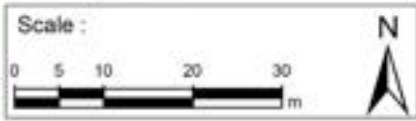
Source: UMC, 2019. Primary household survey of slums in Sambalpur, Odisha.



Household disposing solid waste to :

- D to D service
- No response
- Locked house
- Other structures
- Slum boundary

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



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: <https://www.india.gov.in> (2023). <https://www.india.gov.in> (2023). <https://www.india.gov.in> (2023). <https://www.india.gov.in> (2023). <https://www.india.gov.in> (2023).

71. Sidheswar Berna

Sambalpur

Slum name
SIDHESWAR BERNA

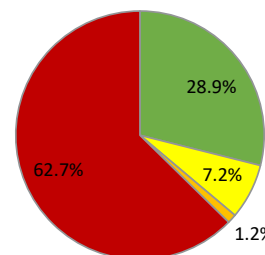
Ward
26

Total number of households in the slum
123

Approximate area of the slum
2.2 ha



2. Access to toilets



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

Number of HHs having IHHL **24**

% of functional IHHLs **100%**

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

Total number of persons dependent on PT/CTs **4**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers **-**

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

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

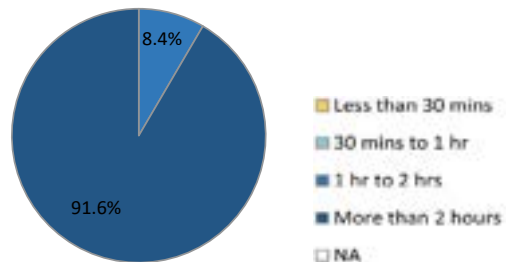
1. Access to municipal water supply



% of HHs with individual water tap connection **47%**

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

Duration of daily water supply



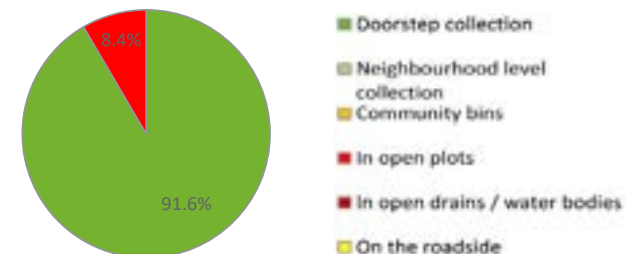
4. Solid waste management system



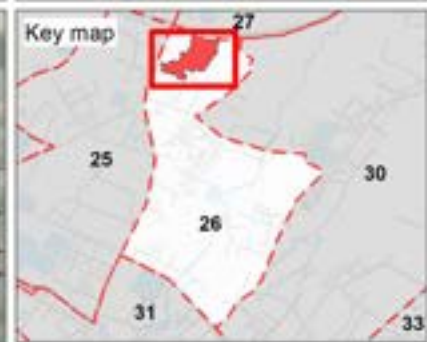
Total waste generation (kg) **111**

% of HHs segregating waste **28%**

Method of HH waste disposal



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



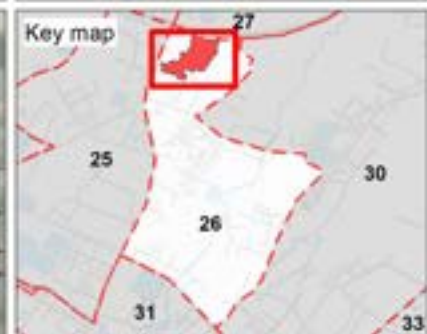
House ownership

- 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.





Number of floors in the building

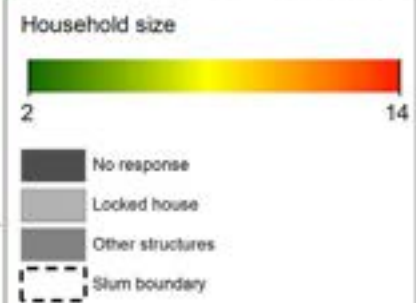
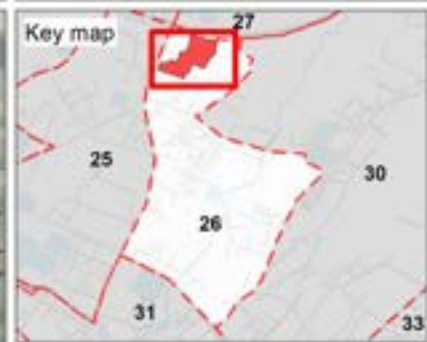
- Ground floor
- Ground floor + 1
- No response
- Locked house
- Other structures
- Slum boundary

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



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: Data provided by the Government of Odisha, prepared by UMC, UGCs, and other NGOs, and made public by UMC.

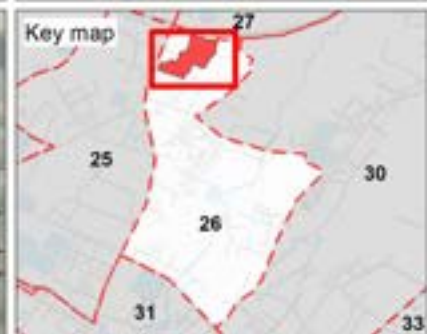


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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: Data provided by the District Sanitation Organization, Sambalpur, Odisha, India. UGCs are used for design and map's user interface.

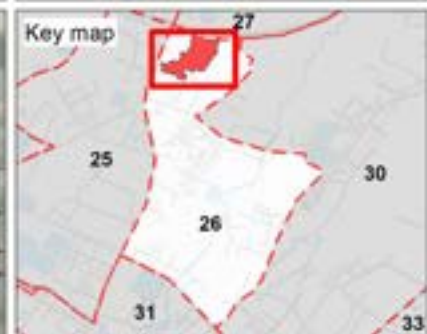


Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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: Data provided by the Health Organization, prepared from USAID/UMC's householding and mapping data.



Household with PWD*

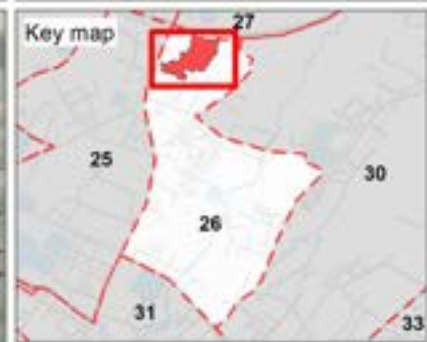
- Yes
 - No
 - No response
 - Locked house
 - Other structures
 - Slum boundary
- * Person with Disabilities

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



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: Data provided by the Government of Odisha, prepared from the UoG's ground truthing and mapping work.



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.



21°28'35"N

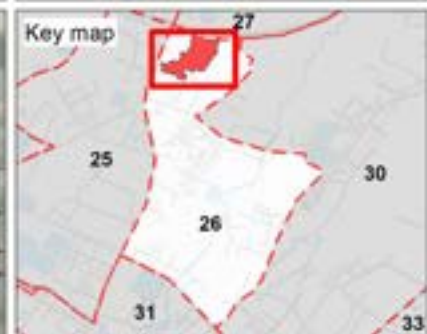
21°28'35"N

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°58'40"E

83°58'45"E

Source: Data collected by the Urban Management Centre, Odisha, India. Digitized from USGS Aerial Imagery and made GIS ready.



Source of water in household

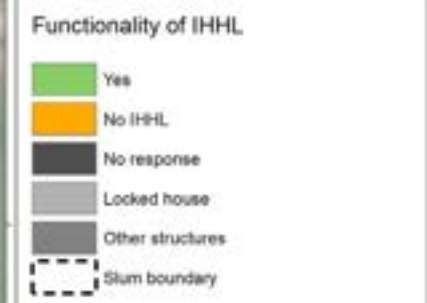
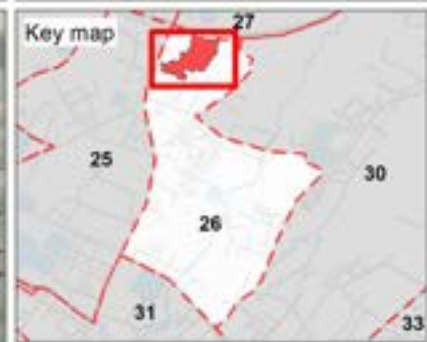
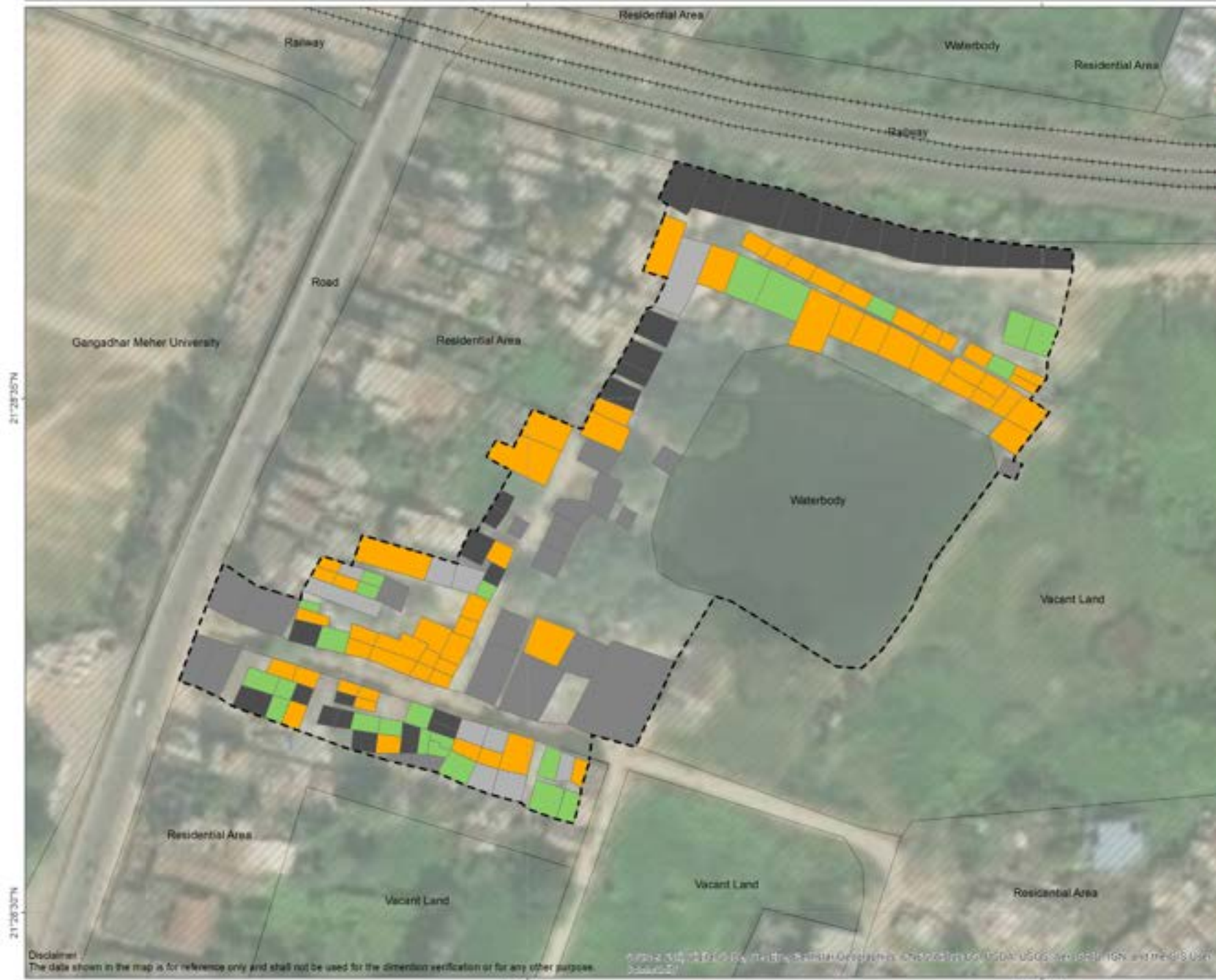
- Tap connection at home
- Stand post
- Stand post & Fetching water from neighbourhood
- Private water tanker
- Fetching water from neighbourhood
- No response
- Locked house
- Other structures
- Slum boundary

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



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.

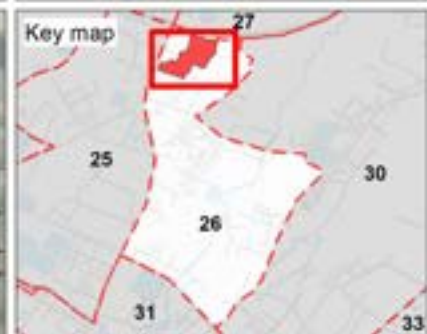
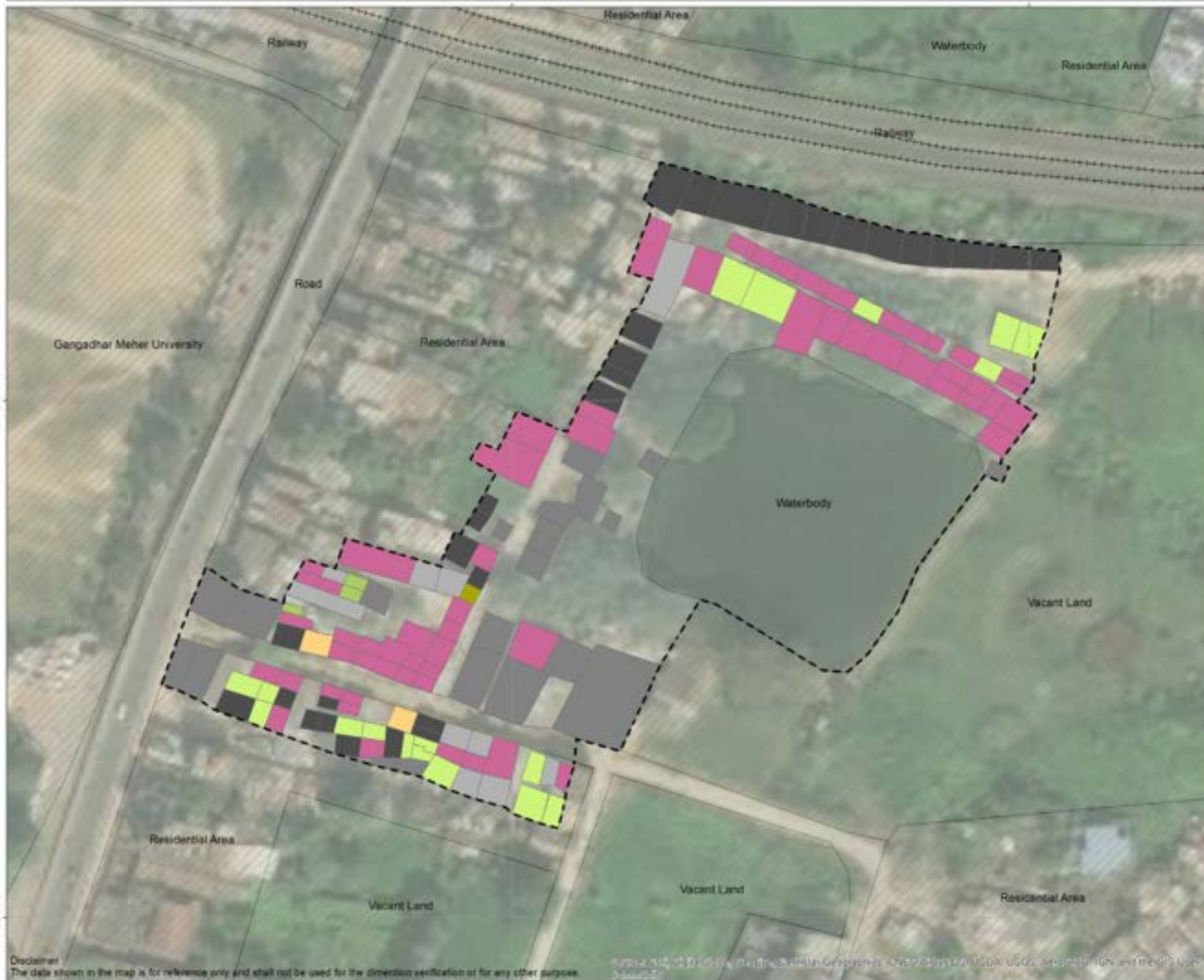
Source: Data collected by the Urban Management Centre, Odisha, Government of India, under the MISAAAL project, funded by USAID. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the Urban Management Centre, Odisha, Government of India.



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



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
- Twin pit
- 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.



21°28'35"N

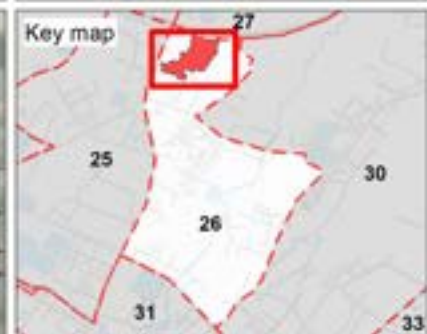
21°28'35"N

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°58'40"E

83°58'40"E

Source: Data provided by the Government of Odisha, Department of Urban Development, Government of Odisha, and the UMC.



Grey water disposed to :

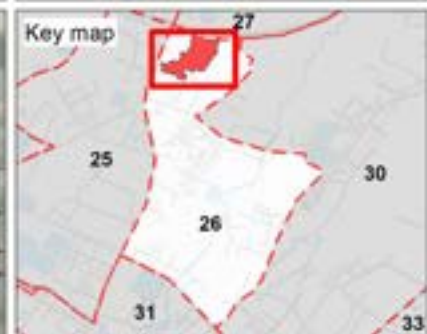
- Open drain
- No response
- Locked house
- Other structures
- Slum boundary

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



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: Data collected by the Urban Management Centre, Odisha, India, from the 2019 household survey of slums in Sambalpur, Odisha.



Household disposing solid waste to :

- D to D service
- In open plot
- No response
- Locked house
- Other structures
- Slum boundary

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



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: Data collected by the Urban Management Centre, Odisha, Government of Odisha, India. UGCs are not liable for any errors and omissions.

Ward - 26 & 30

Sambalpur

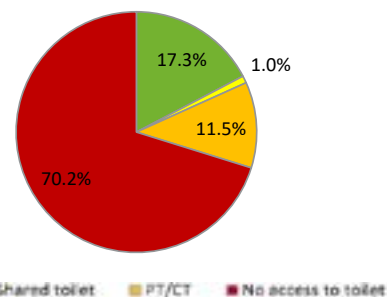
Ward name
26&30

Number of slums
1

Total number of households in slums
104



2. Access to toilets



Number of HHs having IHHL **18**

% of functional IHHLs **89%**

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

Total number of persons dependent on PT/CTs **63**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

% of HHs connected with safe disposal system for grey water **11%**

% of IHHLs connected to septic tank/ soak pit/ twin pit **78%**

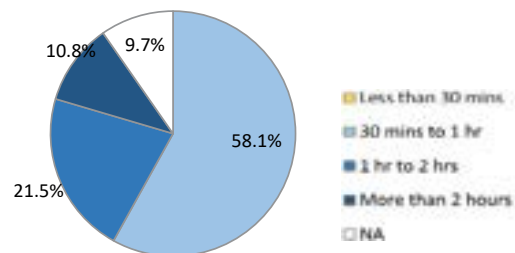
1. Access to municipal water supply



% of HHs with individual water tap connection **17%**

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

Duration of daily water supply



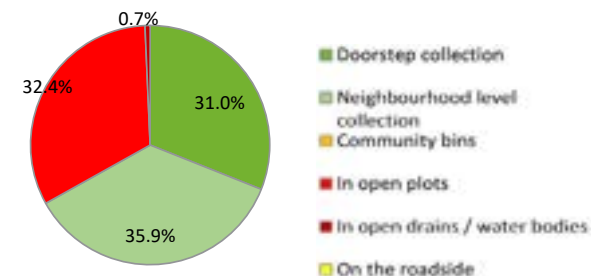
4. Solid waste management system



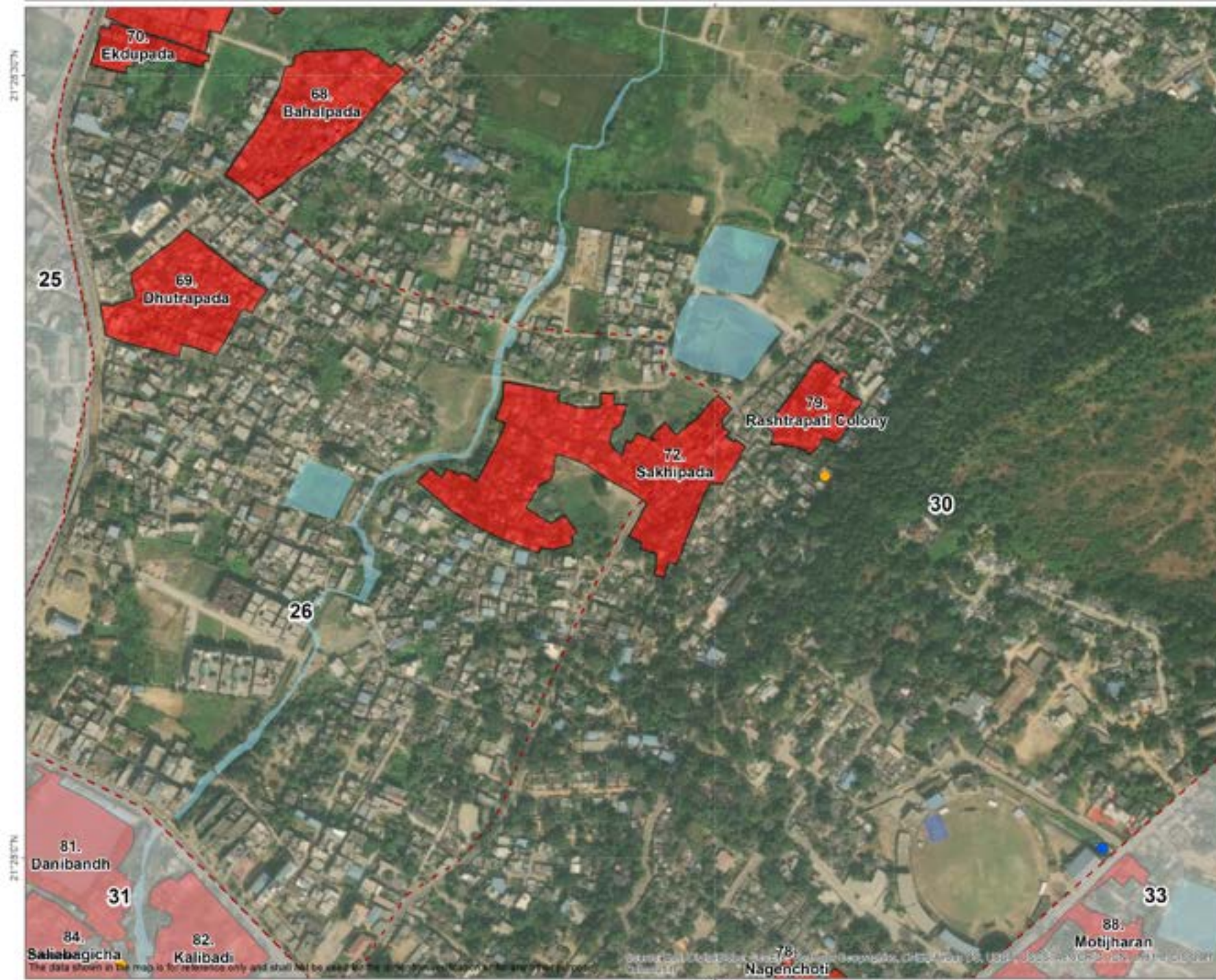
Total waste generation (kg) **131**

% of HHs segregating waste **20%**

Method of HH waste disposal



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



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



The data shown in the map is for reference only and shall not be used for the same purpose. Nation's name are not to be changed.

72. Sakhipada

Sambalpur

Slum name
SAKHI PARA

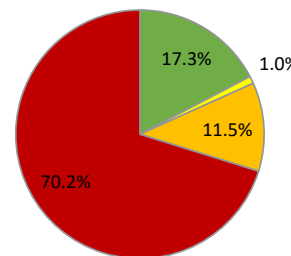
Ward
26&30

Total number of households in the slum
104

Approximate area of the slum
3.5 ha



2. Access to toilets



IHHL Shared toilet PT/CT No access to toilet

Number of HHs having IHHL **18**

% of functional IHHLs **89%**

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

Total number of persons dependent on PT/CTs **63**

3. Access to safe wastewater disposal system



% of IHHLs connected to sewers -

% of HHs connected with safe disposal system for grey water **11%**

% of IHHLs connected to septic tank/soak pit/twin pit **78%**

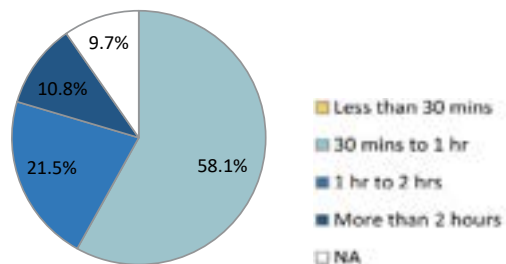
1. Access to municipal water supply



% of HHs with individual water tap connection **17%**

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

Duration of daily water supply



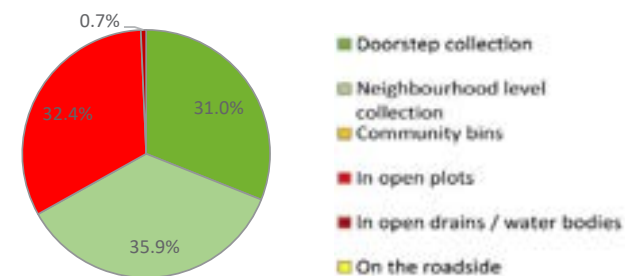
4. Solid waste management system



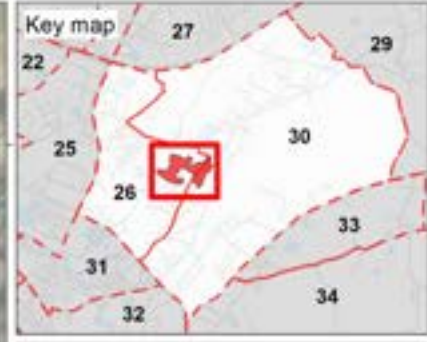
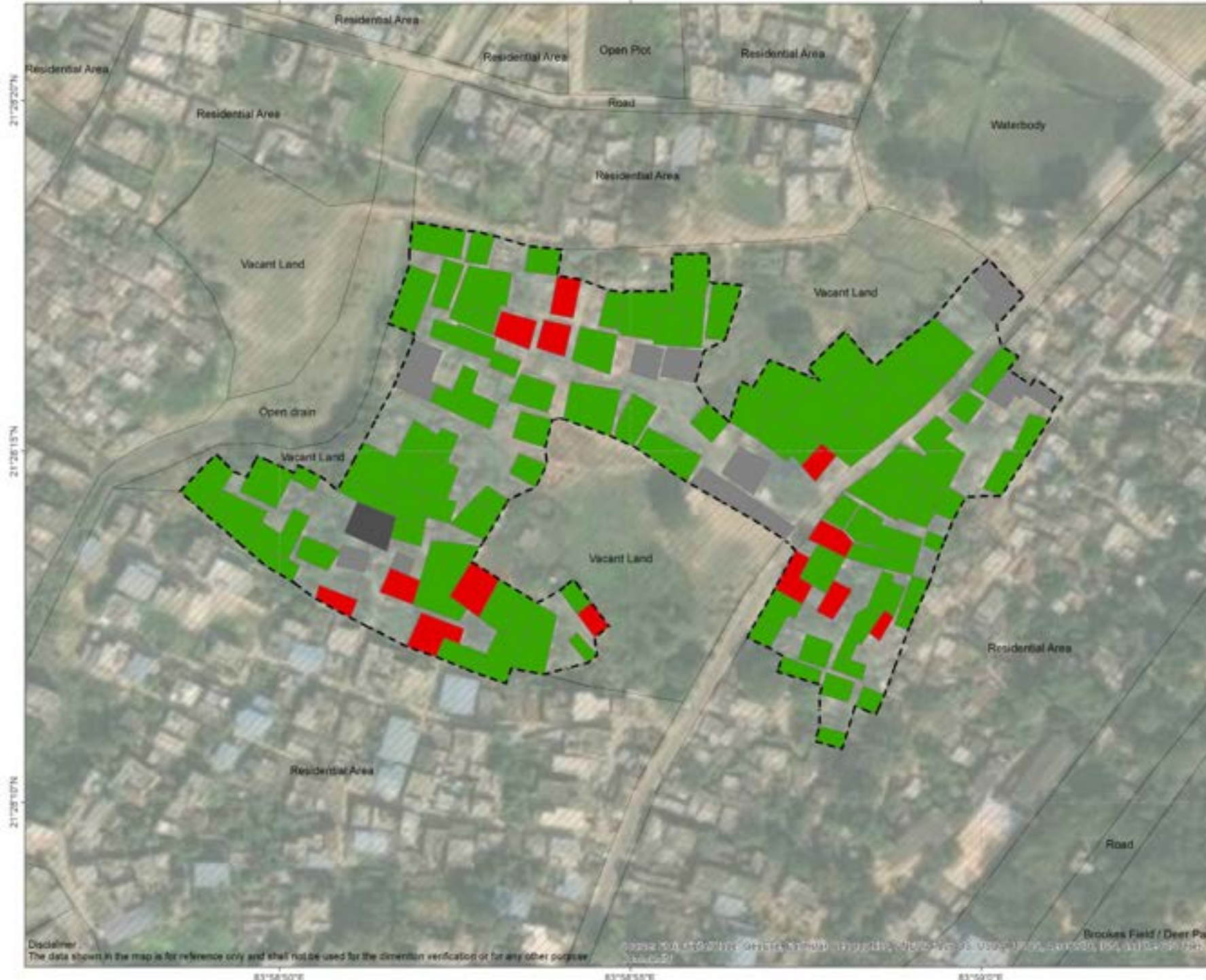
Total waste generation (kg) **131**

% of HHs segregating waste **20%**

Method of HH waste disposal



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

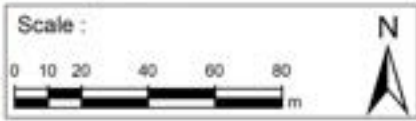


House ownership

- Owned
- Rented
- No response
- 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.



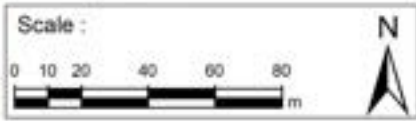
Disclaimer: The data shown in the map is for reference only and shall not be used for the demarcation verification or for any other purpose.



Number of floors in the building

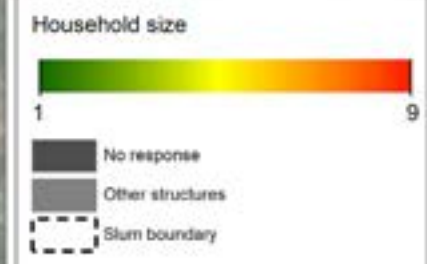
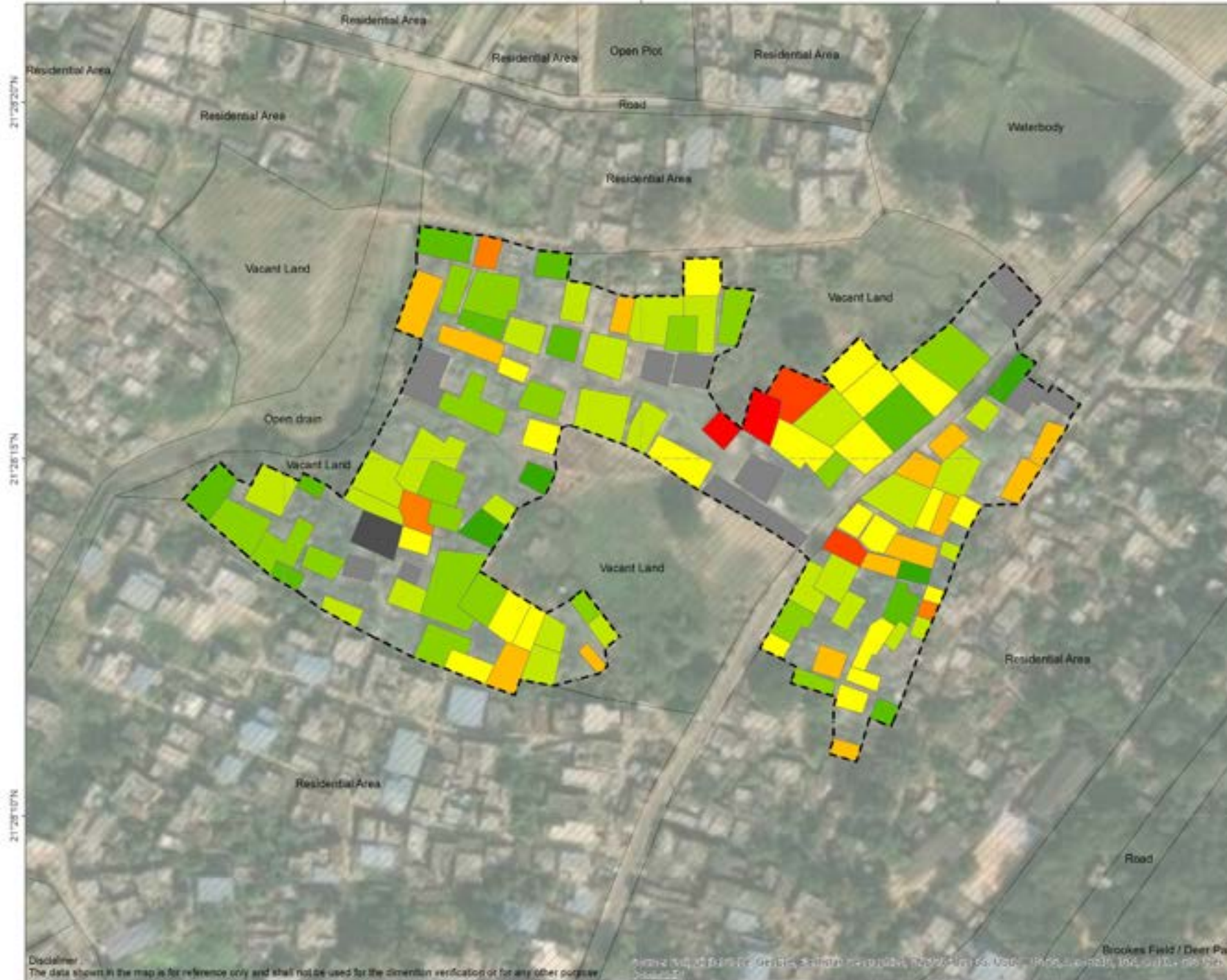
- Ground floor
- Ground floor + 1
- No response
- Other structures
- Slum boundary

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

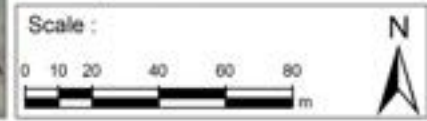


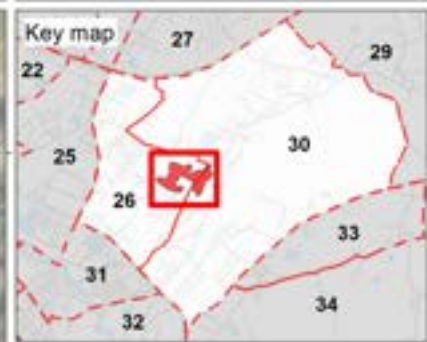
Disclaimer :
The data shown in the map is for reference only and shall not be used for the dimension verification or for any other purpose.

Source: Map of India, Centre for Geo-Information, Ministry of Survey, Government of India, New Delhi, India, 2011.



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

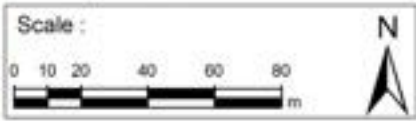




Elderly citizen

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

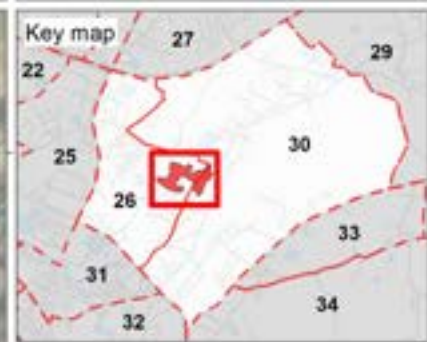
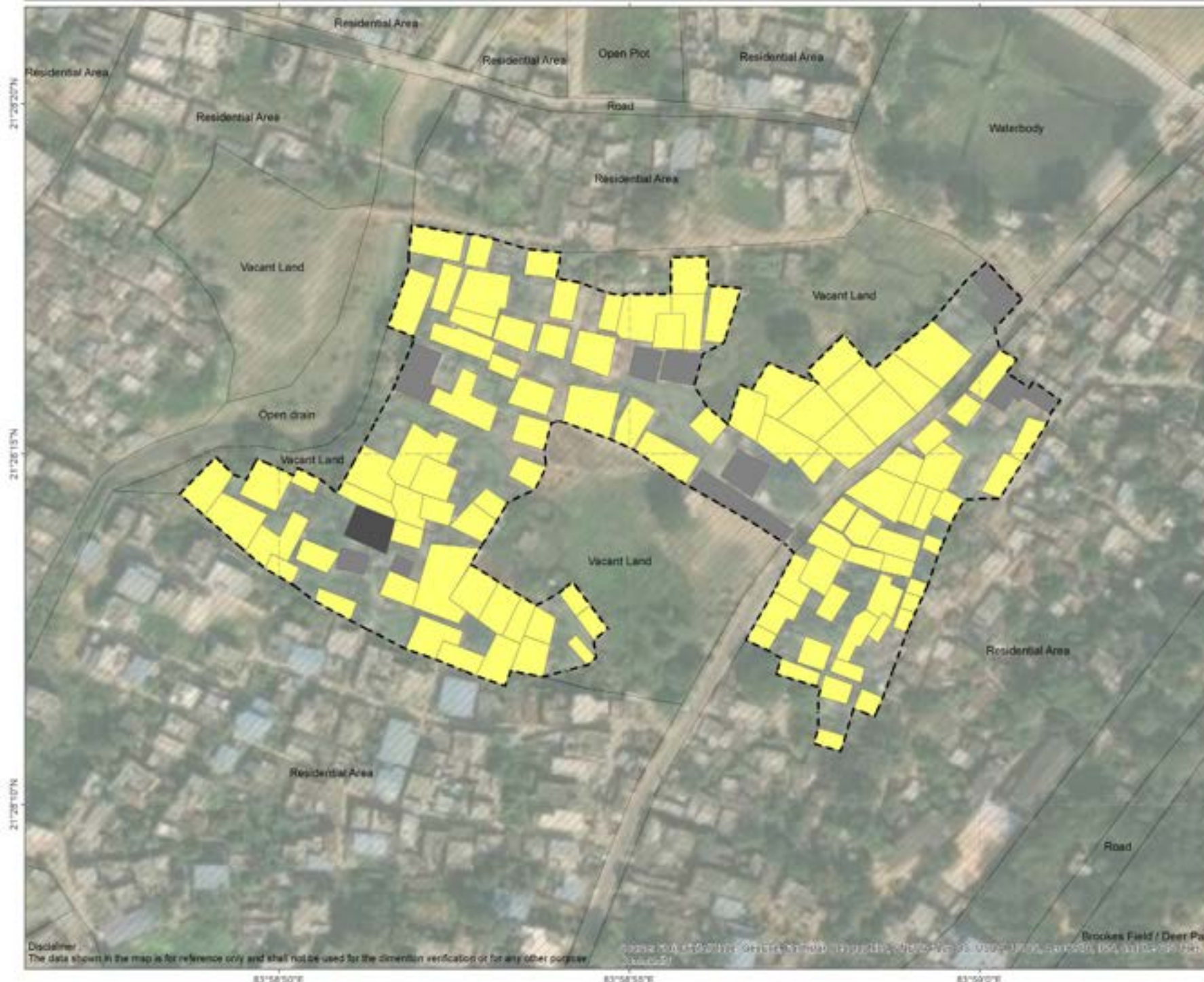
Source :
Urban Management Centre, (2019)
Primary household survey of slums in Sambalpur, Odisha.



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°58'50"E 83°58'55"E 83°59'0"E

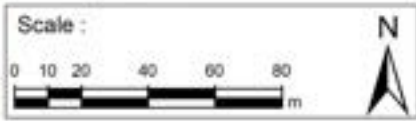
Brookes Field / Deer Park

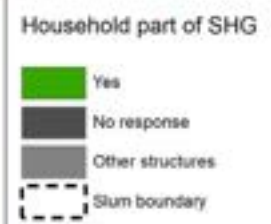
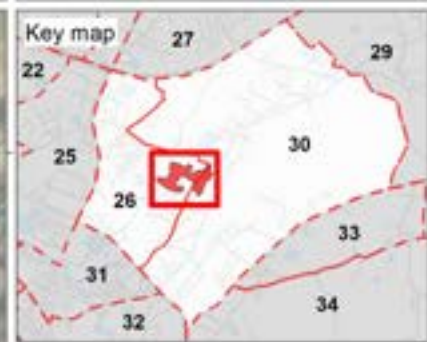


Household with PWD*

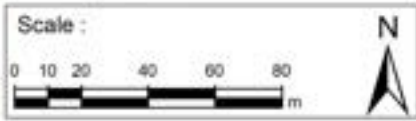
- No
 - No response
 - Other structures
 - Slum boundary
- * Person with Disabilities

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





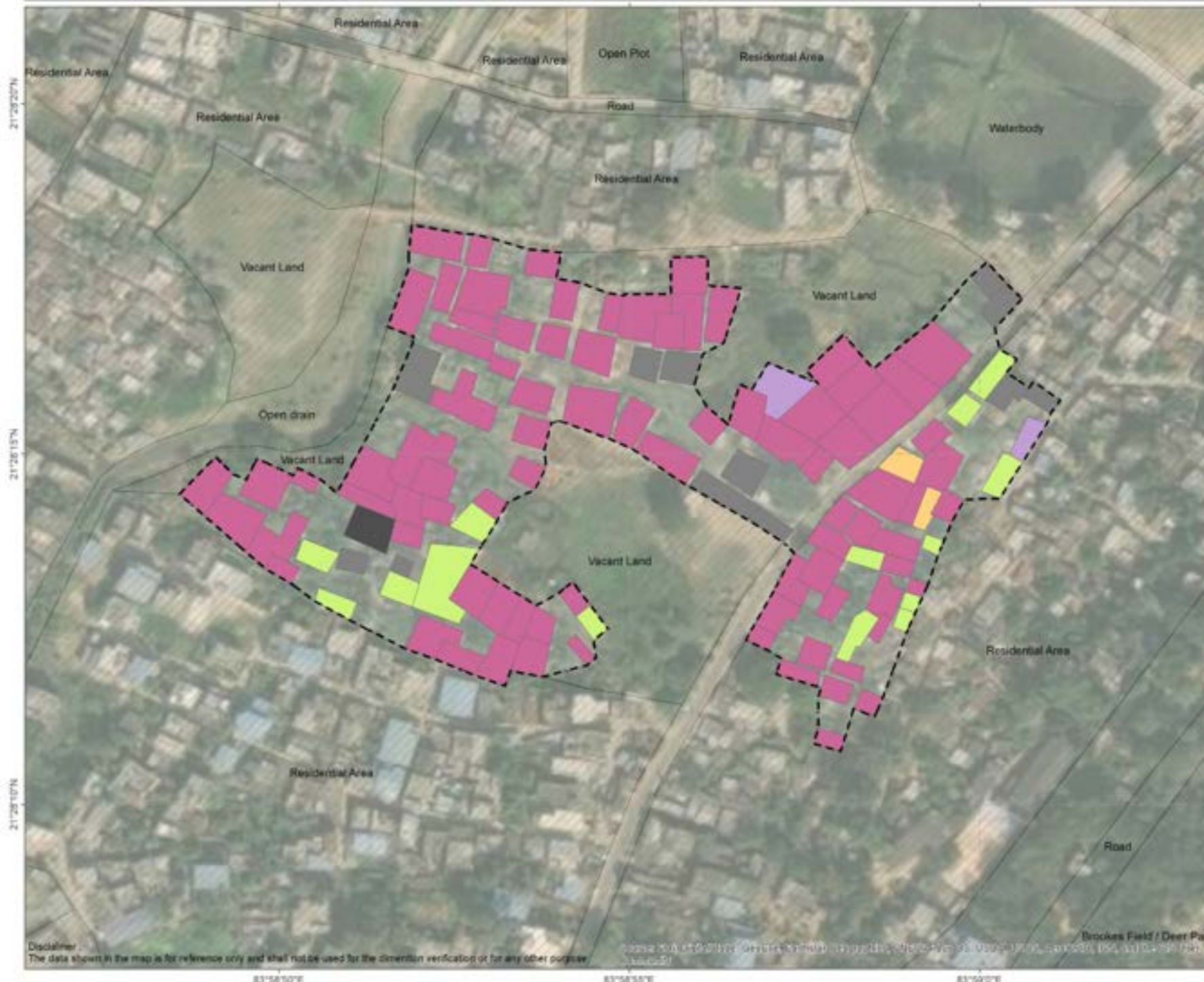
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



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83°58'50"E 83°58'55"E 83°59'0"E

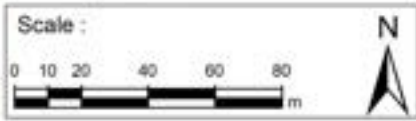
Brookes Field / Deer Park



IHHL connected to :

- Soak pit
- Open drain
- Non-Functional IHHL
- No IHHL
- No response
- Other structures
- Slum boundary

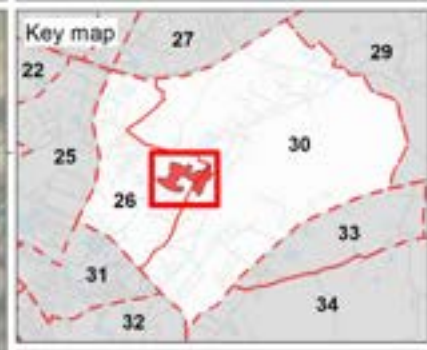
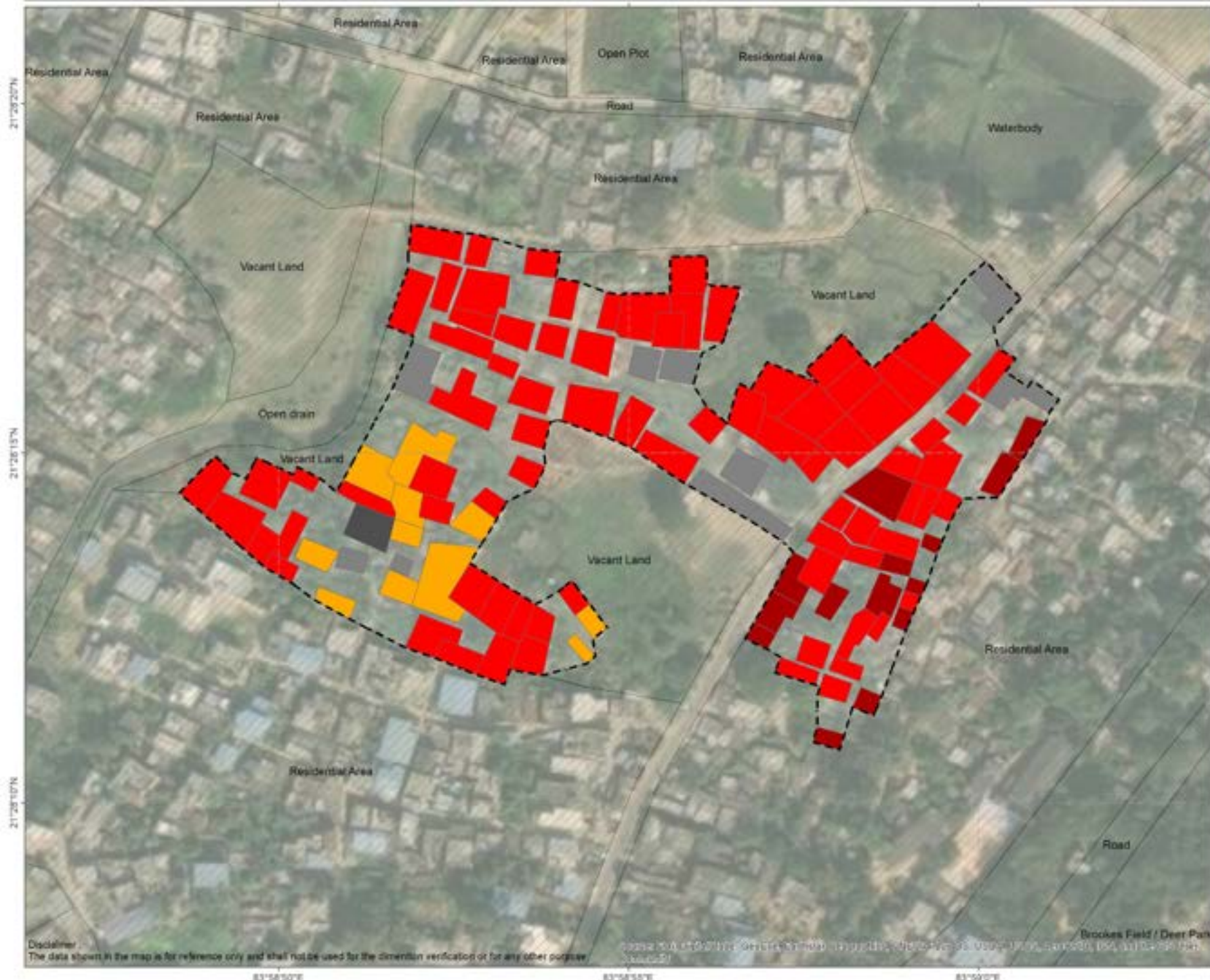
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
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83°58'50"E 83°58'55"E 83°59'0"E

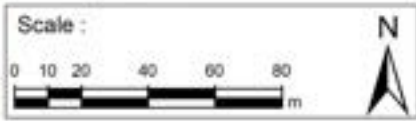
Brookes Field / Deer Park



Grey water disposed to :

- Single pit
- Open drain
- Water is let out on streets
- No response
- Other structures
- Slum boundary

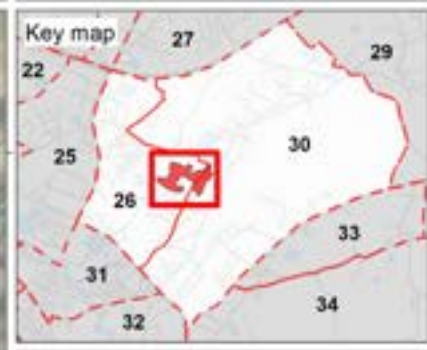
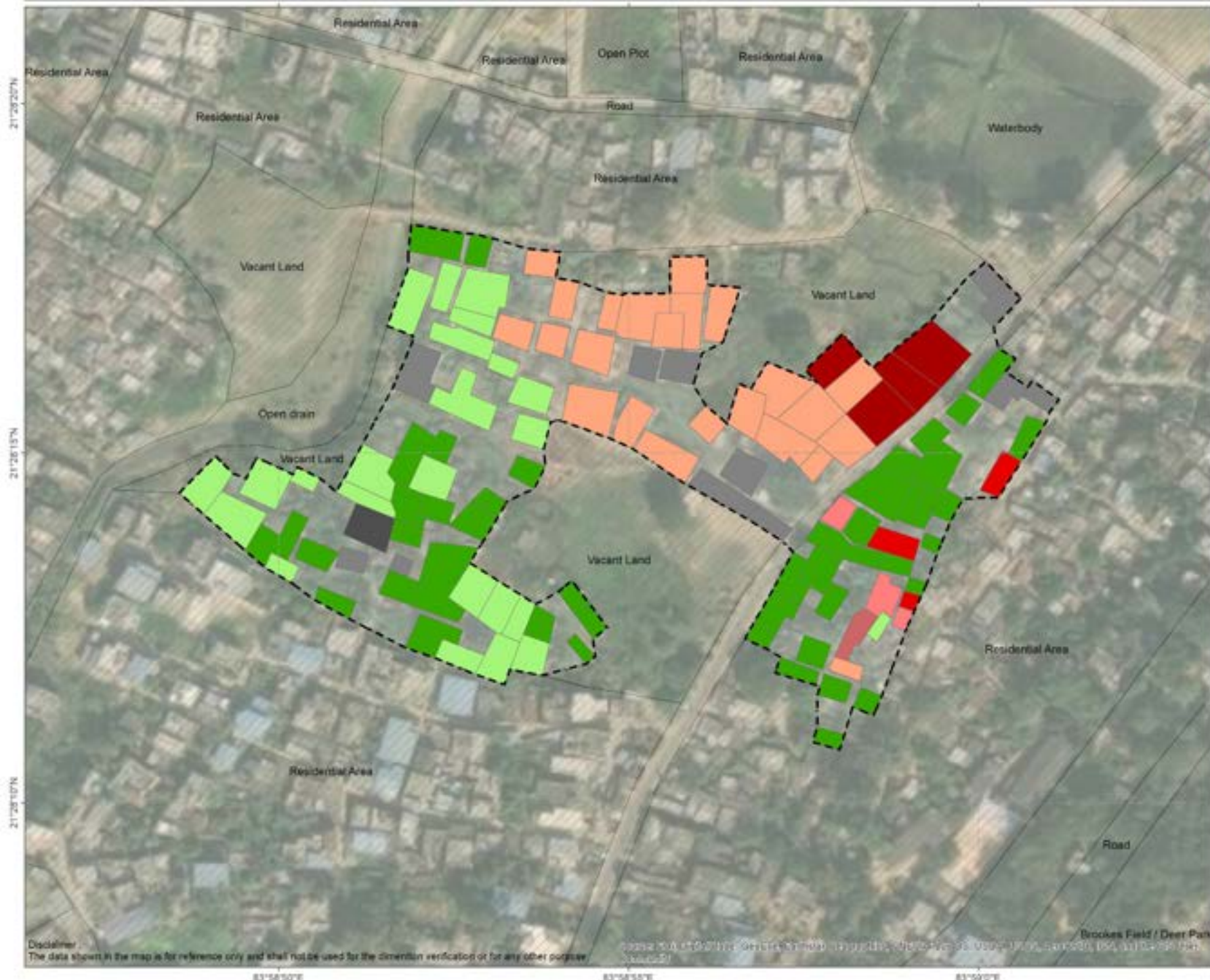
Source :
Urban Management Centre. (2019).
Primary household survey of slums in
Sambalpur, Odisha.



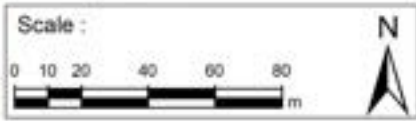
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83°58'50"E 83°58'55"E 83°59'0"E

Brookes Field / Deer Park



Source :
Urban Management Centre. (2019).
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83°58'50"E 83°58'55"E 83°59'0"E

Brookes Field / Deer Park



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