



Rajiv Awas Yojana



Detailed Project Report
for
In-situ Redevelopment of Vatrapalem Slum, Sullurpet



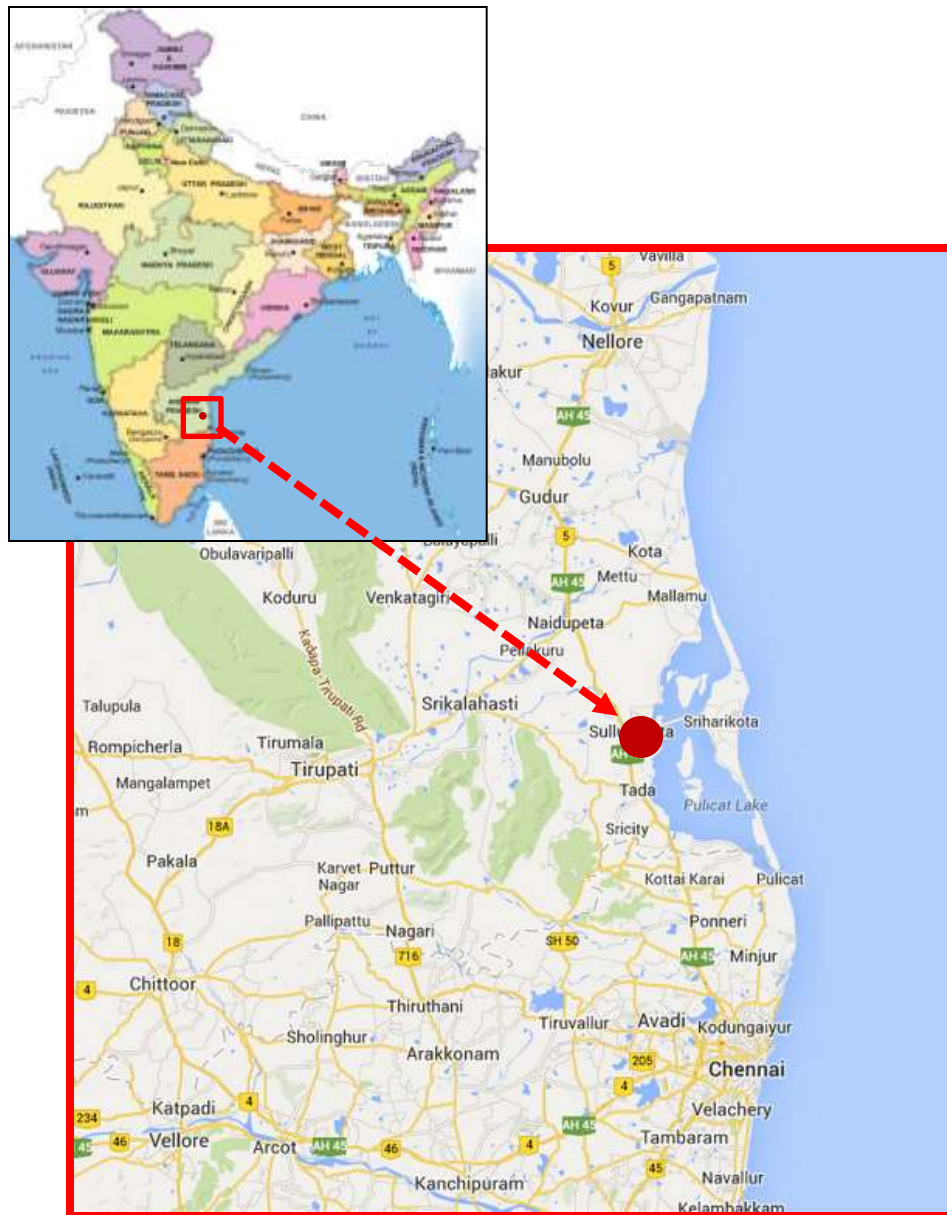
Presented by:
Municipal Council, Sullurpet
AP

13th, August, 2014

Sequence of Presentation

- About Sullurpet Town
- Slums in Sullurpet
- Evolution of Vatrapalem slum
- Profile of Vatrapalem Slum
- Inferences from household surveys
- Stages of Community participation
- Needs of slum dwellers identified during public consultations
- Strategy adopted for In-situ Redevelopment
- Proposed Layout

About Sullurpet Town



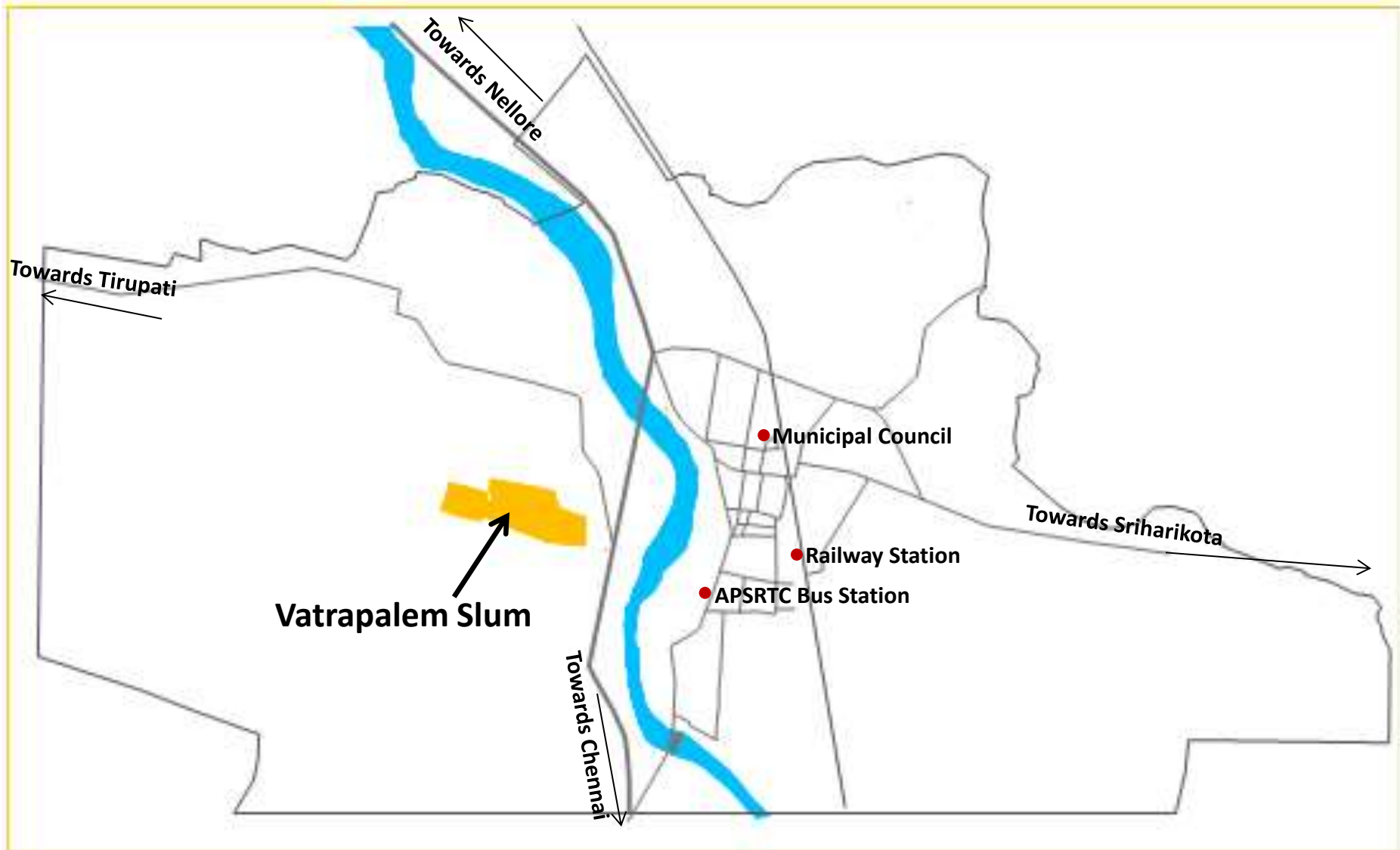
- Located in the southern part of Nellore district, along NH(5), connecting Vijayawada & Chennai
- Often termed as 'Gateway of Sriharikota,' as it provides access to SHAR), the only launch centre for [Indian Space Research Organisation \(ISRO\)](#) in India.
- Gram Panchayat until, 2012.
- Inception as Municipal Council was done on 21st January, 2012.
- Has potential to attract migrating population from surrounding rural areas due to increasing employment opportunities in the region and absence of other significant urban areas

Slums in Sullurpet

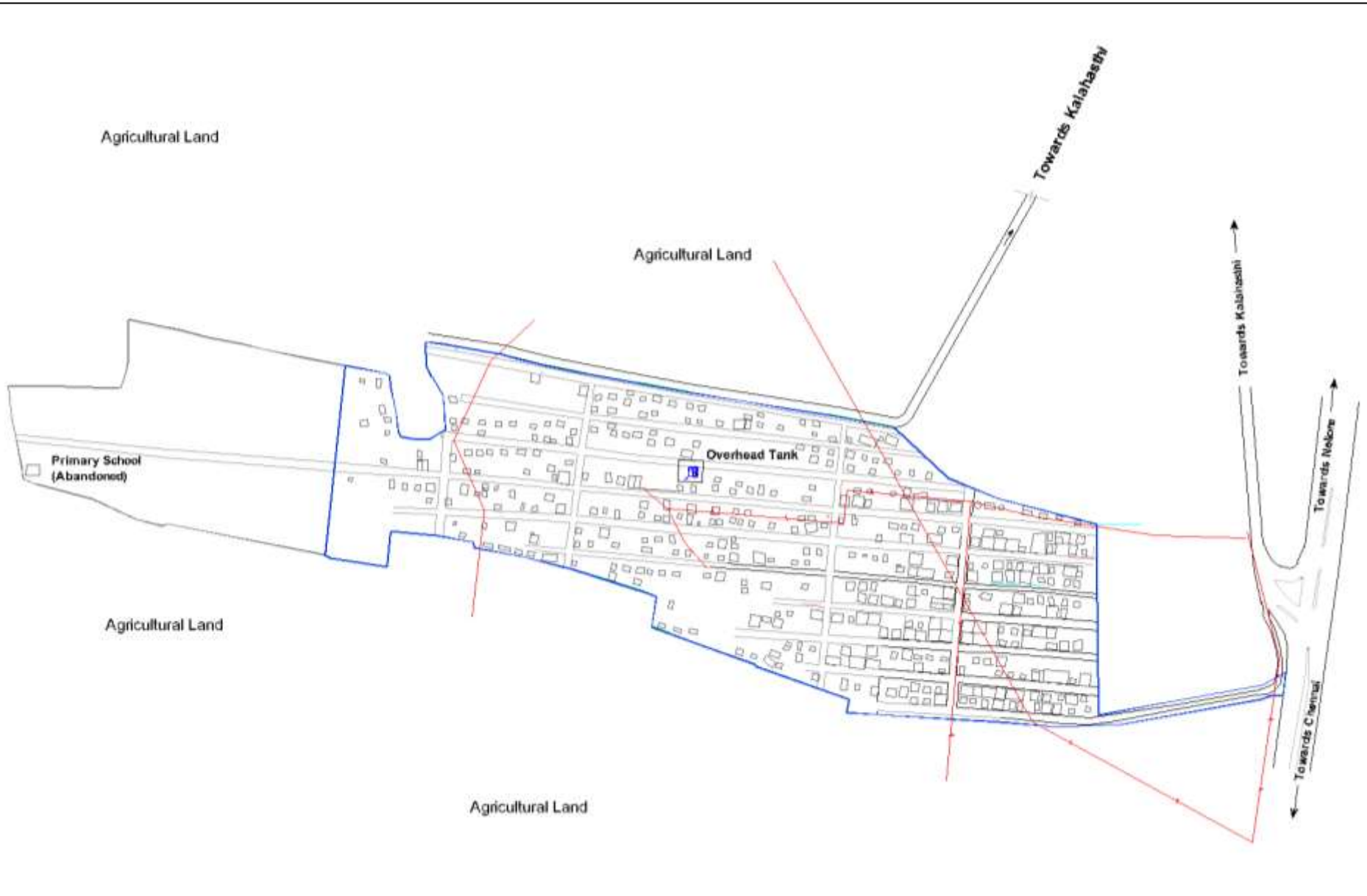
S No	Name of the Slum	Ward number	Population	Area (Ha)
1	Pandalagunta	6	96	0.21
2	Parasarathnam Colony	6	160	0.71
3	Isakamitta	6	504	2.96
4	Kollamitta	6	2,140	9.05
5	Kollamitta SC Colony	6	300	1.91
6	Rajiv nagar SC Colony	8	432	7.43
7	Kasareddy Palem	8	328	3.03
8	Bapuji colony	8	2,832	10.91
9	Sonia Gandhi Nagar	8	432	2.27
10	Sulluru	12 & 13	1,992	3.82
11	Leprosy Colony	13	124	0.16
12	Indira nagar	12	648	0.68
13	Mahadevaiah nagar	4	340	3.00
14	Vatrapalem	3	2,081	7.5*
15	Mannarpoluru	2	1,214	10.61
16	Mannarpolur SC Colony	1	1,328	22.24
17	Pedda Girijina Colony	3	1,184	2.73
18	Chinna Girijana Colony	3	733	1.86
19	NTR Nagar	3	466	3.17
20	Pusala Colony	3	211	2.88
21	Mannarpoluru New colony	3	1,421	13.01
22	VMR Nagar	2	226	2.27
23	Sai nagar	4	884	17.63
24	Chinna Satram	4	156	0.82
25	Ganapathi Nagar	4 & 5	916	17.23

* Area based on Total Station Survey

Location of Vatrapalem Slum



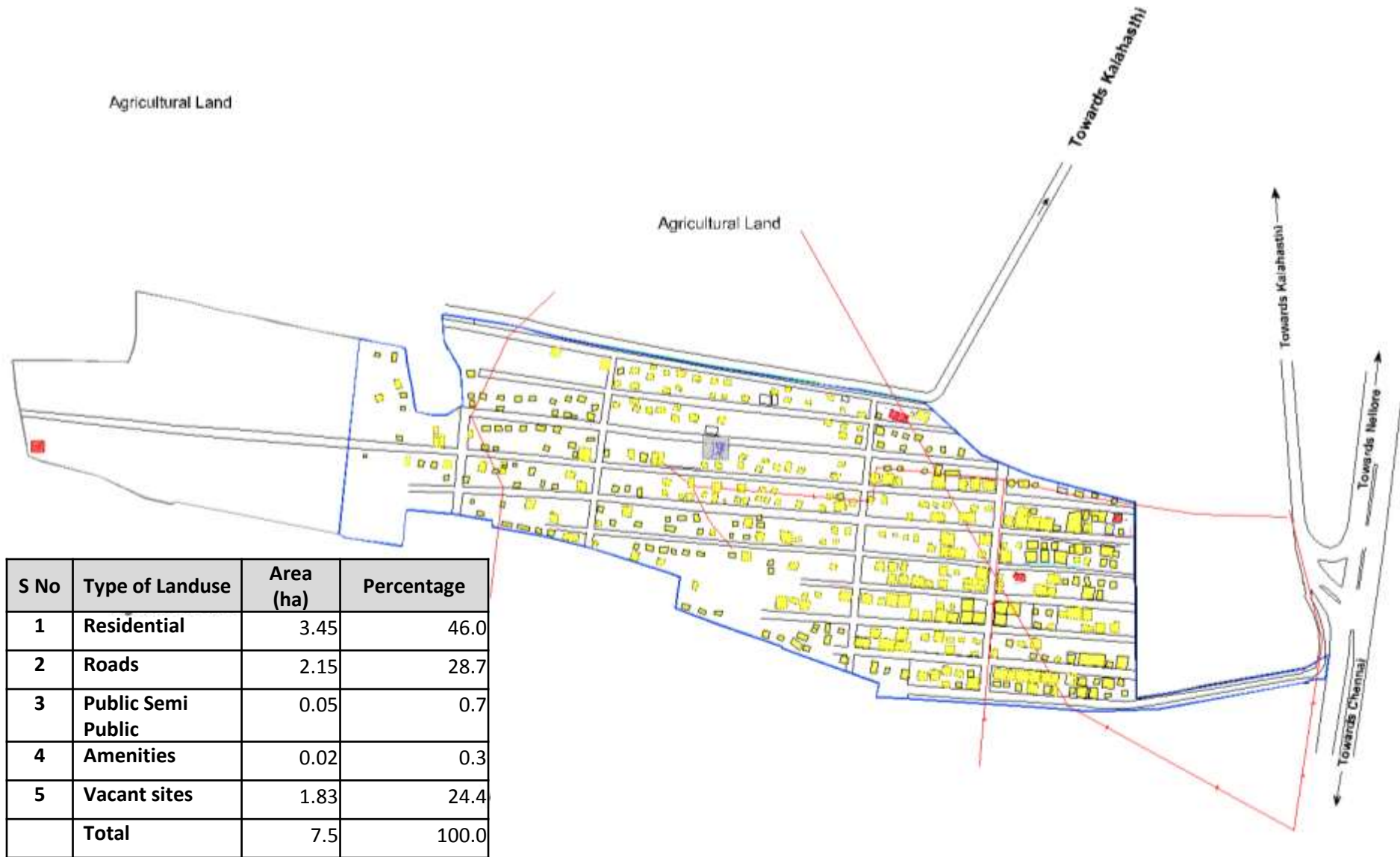
Existing Slum Base Map



Profile of Vatrapalem slum

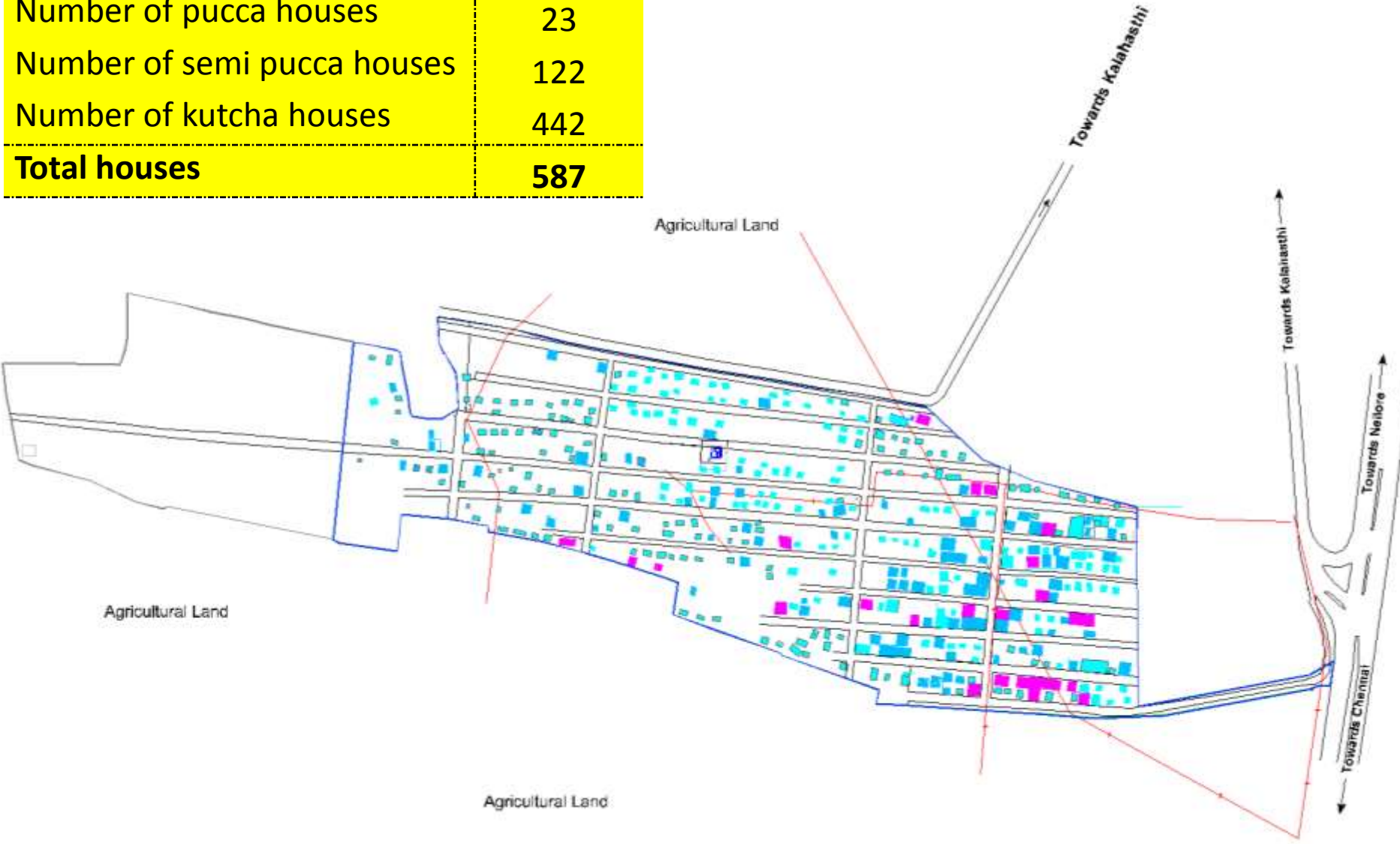
Total number of Households	587
Total population	2,081
Total area of slum	7.5 Ha
Number of pucca houses	23
Number of semi pucca houses	122
Number of kutchha houses	442
Number of commercial units	0
Community halls	0
Government buildings	0
Schools, primary & upper primary schools	0
Anganwadi centres	0
Parks	0
Urban health centers	0

Details of Existing Land use, Vatrapalem slum



Housing

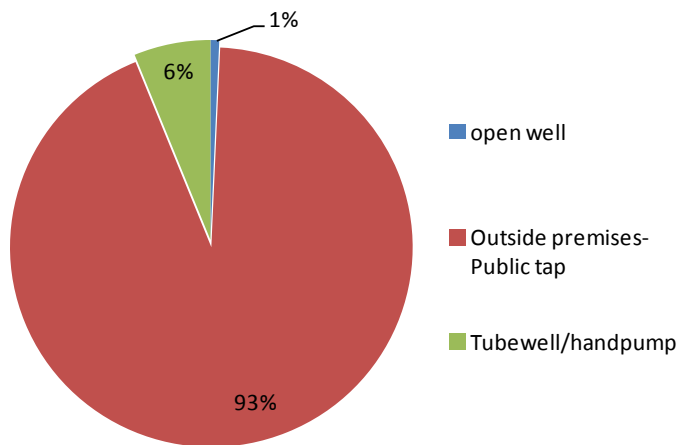
Number of pucca houses	23
Number of semi pucca houses	122
Number of kutcha houses	442
Total houses	587



Existing infrastructure facilities

Water supply

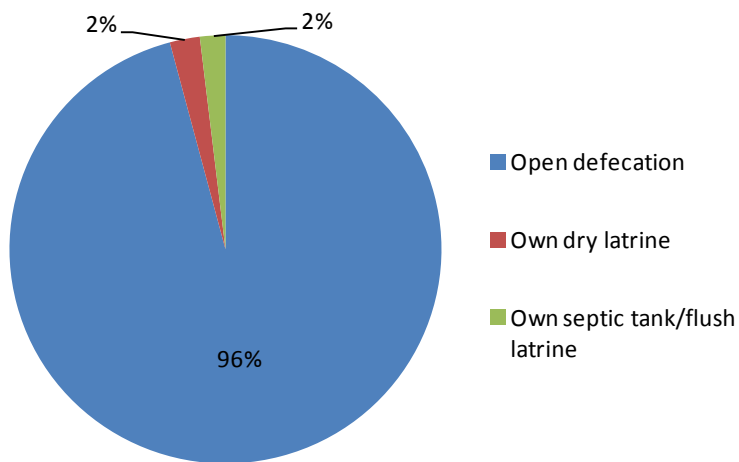
- Main utility Water Supply for the slum area is through the **ELSR** located in the central part of the slum, constructed by RWS&S department during 2012
- Total capacity of ELSR is **40 KL**. Potable water is pumped on need basis to the ELSR from Minor Irrigation Tank, Konnembattu which is about 2.5 Km away.
- Current supply works out to **19.2 lpcd as against 135 lpcd**
- Predominantly, households are dependent on **public stand posts (PSPs)**
- The **total number of PSPs** in the slum is **45**
- Duration of **water supply** is for about **1hr** (06:00 am to 07:00am).



- **Main access** to the slum is through an existing **6m wide kutchra road** with about **9m RoW**.
- Overall **road width** within the slum is consistently at **about 6m**.
- Despite of the availability of the width, the roads are **non motorable due to mud in rainy seasons** and the **undulations in other seasons**
- In interiors the roads are not maintained resulting growth of shrubs



- Predominantly, the households **lack access to improved sanitation.**
- **Households with toilet** are a meager **4%**
- **Open defecation is rampantly practiced** in all surrounding areas.
- Open defecation areas are segregated on gender basis with an informal understanding among the households.
- **65% households lack bathrooms.**
- Remaining **35% households have temporary bathrooms** which are open to sky



Storm Water Drainage

- Presently, the slum completely lacks drainage facility.
- **Waste water** generated by daily chores is **let out into open plots** or **onto the roads**.
- In some cases **temporary pits** are **constructed by the households**. After filling up of the pits, the grey water is manually drawn out and disposed into open areas.
- Due to the absence of drainage network, **during the rainy season, the roads become completely non-motorable** due to unsettling mud



Solid Waste Management

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- **Open dumping is practiced** in all parts of the slum.
- Due to the availability of open space in the form of vacant plots, **solid waste generated** from the households is **dumped in** these **open spaces**.
- Vatrapalem slum is **not integrated** with the **overall solid waste management practices** of the town



- The total number of **electric poles** provided for the entire slum is **20**. Out of these 20 poles, **16 poles** are **provided with 4' tube lights** for illumination. The overall illumination levels in the slum is very poor.
- **Temporary wooden posts** are erected by the slum dwellers **to draw the electric connections to the households** due to the unavailability of electric poles in the interior and peripheral areas which **is hazardous**.



- During the preparation of layout, provisions for ST boys hostel is made by allotting land in the central part. However, the hostel is not developed and the land is vacant.
- In 2009, a primary school was constructed by Zilla Parishad, SPSR Nellore district, towards extreme western part without access road. Thus, it was closed within 3 months of inauguration. Presently, the structure is abandoned.

Stages of community participation

Stage 1:

Reconnaissance visit



Stage 2:

Meeting of TLF from all slums



Announcement of program



Stage 3: House numbering, demarcation of all slum area and vacant lands – Total Station Survey (TSS)



Stages of community participation.. Contd...

Stage 5: Data validation with representation from each household

Household No.	Name of the Head of the Household	Phone No.	Signature
1
2
3
4
5
6
7
8
9
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11
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18
19
20



Stage 6: Community Participation in Group Discussions



Stage 7: Displayed the list of beneficiaries on the wall of available public space & Consent for acceptance of Dwelling Units



Needs of slum dwellers identified during public consultations

S No	Issue	Action
1	Pucca houses	Addressed
2	Motorable pucca roads	Addressed
3	Drainage facility	Addressed
4	Street lighting	Addressed
5	Household water supply connections	Addressed
6	Individual toilets	Addressed
7	Community hall and library	Land provision made
8	Parks	Will be developed with ULB funds
9	Anganwadi centre & Primary school	To be tied up with Sarva Siksha Abhiyan
10	Public Distribution Supply facility (ration shop)	To be tied up with Revenue Department

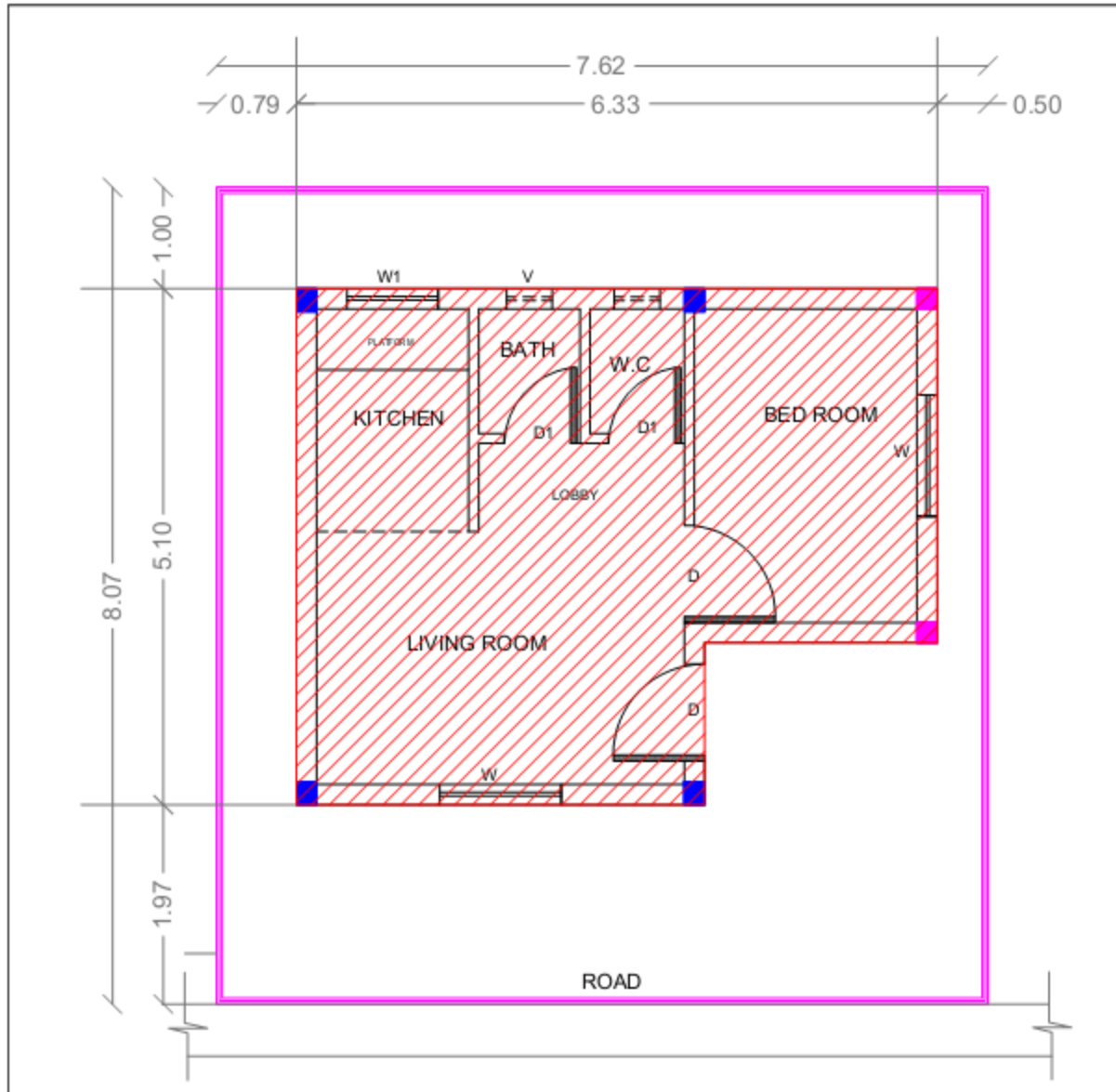
Proposed Layout





LEGEND:

- PLOT :
- Existing Pucca Houses :
- OPEN SPACE & COMMERCIAL AREAS :
- DRAINS :
- ROADS :
- EXISTING 40 KL ELSR :
- PROPOSED 250KL ELSR :

Typical house Plan



LEGEND:

- Boundary Line : 
- Proposed site : 

SCALE : NOT TO SCALE Note : All Dimensions are in Meters

DWG No.	DESCRIPTION	DATE	REMARKS
09			

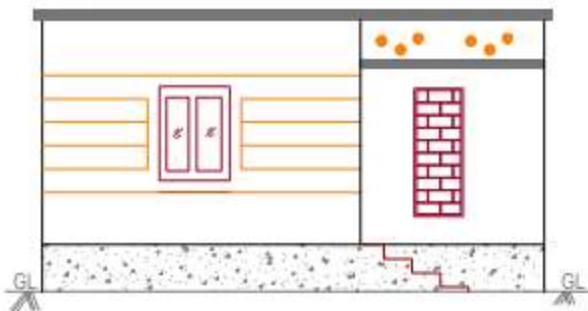
Client **SULLURUPET MUNICIPALITY**

Project **CONSTRUCTION OF URBAN HOUSES & INFRASTRUCTURE IN VATRAPALEM SLUM UNDER "RAY PROJECT"**

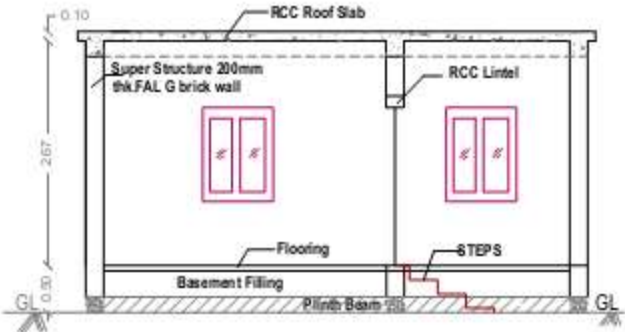
Title **SITE PLAN**

Consultants **M/s S.K ASSOCIATES HYDERABAD**
 PLOT NO:173,H.No: 8-1-284/O.U/173, O.U COLONY. SHAIKPET, HYDERABAD. Ph: 9849664272,9704830410
 email: skassociates.engg@gmail.com

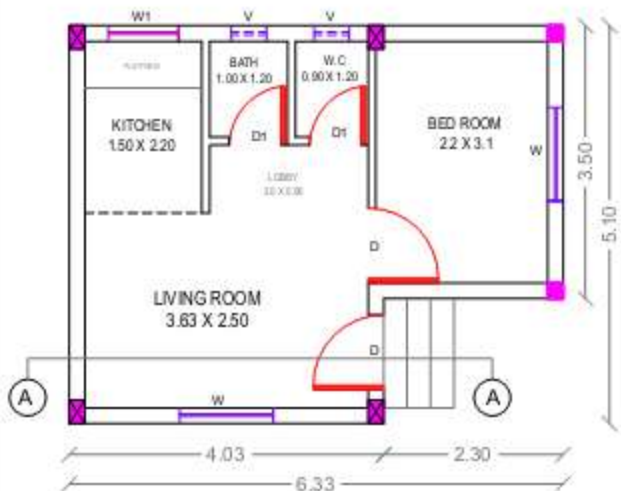
Structural Details



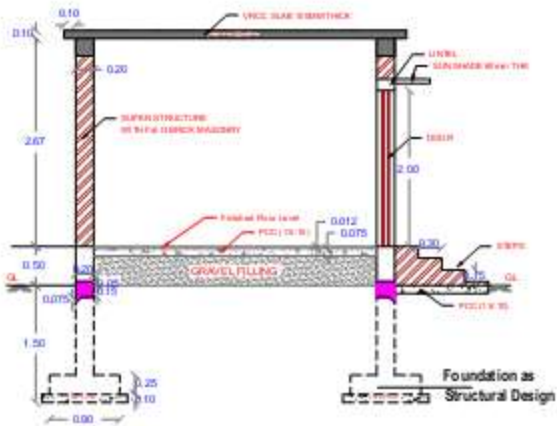
FRONT ELEVATION



SECTIONAL ELEVATION



PLAN



SECTION @ A-A

AREA STATEMENT

TOTAL SITE AREA	= 61.49 Sq m
TOTAL PLINTH AREA	= 28.603 Sq m
Living Room	: 3.63 X 2.50 m = 9.075 Sqm
Bed Room	: 2.20 X 3.10 m = 6.820 Sqm
Kitchen	: 1.50 X 2.20 m = 3.300 Sqm
Bath	: 1.00 X 1.20 m = 1.200 Sqm
W.C	: 0.90 X 1.20 m = 1.080 Sqm
Lobby	: 2.00 X 0.90 m = 1.800 Sqm
TOTAL CARPET AREA	= 23.275 Sqm

JOINERY DETAILS

Door	D	-----	0.90x2.00
Door	D1	-----	0.75x1.80
Window	W	-----	1.20x1.20
Window	W1	-----	0.90x1.20
Ventilator	V	-----	0.45x0.45

SCALE : NOT TO SCALE Note: All Dimensions are in Meters

DWG No.	DESCRIPTION	DATE	REMARKS
01			

Client: **SULLURUPET MUNICIPALITY**
 Project: **CONSTRUCTION OF URBAN HOUSES & INFRASTRUCTURE IN VATRAPELEM SLUM UNDER 'RAY PROJECT'**

Title: **HOUSE PLAN, ELEVATION & CROSS SECTION**

Consultants: **M/s S.K ASSOCIATES HYDERABAD**
 PLOT NO 173/H No: 8-1-2840 U/173, OU COLONY, SHANKPET, HYDERABAD. Ph: 984966472, 9704830430
 email: skassociates.enrg@gmail.com

Cost Estimates

S No	Component	Cost (Rupees in Lacs)
1	Housing	1,748.40
2	Infrastructure	571.68
3	O & M Cost	92.80
4	DPR Preparation, project management, Supervision & Quality Control	34.80
5	Labour cess	23.20
6	Social audit	11.60
7	VAT @5% (HOUSING)	87.42
8	VAT @5% (Infrastructure)	28.58
	Total	2,598.49

Financial Arrangements

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					(Rs in lacs)					
	Scheme Component	Type	Qty. in Nos.	Rate (in Rs/Unit)	Proposed Project Cost	Appraised Project Cost	Central share	State Govt. Share	ULB Share	Beneficiaries Share
A. HOUSING										
1	New in-situ Dwelling Units	GF	564	3.100	1748.40	1748.40	1269.00	262.26	0.00	217.14
Total Housing Cost Sub Total (A) 90					1748.40	1748.40	1269.00	262.26	0.00	217.14
B. INFRASTRUCTURE										
1	Roads				239.83	138.76	102.22	20.81	15.72	0.00
2	Water Supply				206.11	206.11	154.58	30.92	20.61	0.00
3	Storm Water Drains				124.22	124.22	93.17	18.63	12.42	0.00
4	Street Lighting				33.64	33.64	25.23	5.05	3.36	0.00
5	Sewerage - Septic Tank	Nos	564	0.113	63.732	63.732	47.80	9.56	6.37	0.00
6	Demolition of semi pucca structures	Nos	174		5.22	5.22	0.00	5.22	0.00	0.00
Sub Total (B)					672.75	571.68	423.00	90.19	58.49	0.00
Total (A+B)					2421.15	2320.08	1692.00	352.45	58.49	217.14
Ratio of Housing to Infrastructure					74.87:25.13	75.00:25.00	75.00:25.00			

Financial Arrangements

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	Scheme Component	Type	Qty. in Nos.	Rate (in Rs/Unit)	Proposed Project Cost	Appraised Project Cost	Central share	State Govt. Share	ULB Share	Beneficiaries Share
1	C. Operation and Maintenance Cost									
	O&M Cost (up to 4%)		4%		96.85	92.80	69.60	23.20	0.00	0.00
	Sub Total (C)				96.85	92.80	69.60	23.20	0.00	0.00
		Sub Total (A+B+C)			2518.00	2412.89	1761.60	375.65	58.49	217.14
	D. Other Cost									
1	DPR Preparation, project management, Supervision & Quality Control	1.50%		% of Total Cost	36.32	34.80	0.00	34.80	0.00	0.00
2	Labour cess	1.00%			24.21	23.20	0.00	23.20	0.00	0.00
3	Social audit	0.50%			12.11	11.60	0.00	11.60	0.00	0.00
4	VAT @5% (HOUSING)		0.16		87.42	87.42	0.00	87.42	0.00	0.00
5	VAT @5% (Infrastructure)		0.05		33.64	28.58	0.00	28.58	0.00	0.00
	Sub Total (D)				193.69	185.61	0.00	185.61	0.00	0.00
	Grand Total (A+B+C+D)				2,711.69	2,598.49	1,761.60	561.26	58.49	217.14

Thank You

SULLURPET MUNICIPALITY
Appraised by HUDCO, New Delhi Dated 19.02.2014

(Rs in lacs)											
Scheme Component		Type	Qty. in Nos.	Rate (in Rs/Unit)	Proposed Project Cost	Appraised Project Cost	Central share	State Govt. Share	ULB Share	Beneficiaries Share	
1	New in-situ	GF	564	3.100	1748.40	1748.40	1269.00	262.26	0	217.14	
Total Housing Cost Sub Total (A) 90					1748.40	1748.40	1269.00	262.26	0.00	217.14	
B. INFRASTRUCTURE											
Roads											
(i) Onsite											
1	CC Roads	9.14metre	1383	0.07	90.43	90.43	67.82	13.56	9.04	0.00	
	WBM Roads	6.1metre	2820	0.01	129.27	28.20	21.15	4.23	2.82	0.00	
	(ii) Offsite										
	CC Roads	9.14metre	200	0.10	20.13	20.13	13.25	3.02	3.86	0.00	
Sub Total					239.83	138.76	102.22	20.81	15.72	0.00	
Water Supply											
(i) Offsite											
2	Pumping Main & Pumpsets	metre	3500	0.031	109.96	109.96	82.47	16.49	11.00	0.00	
	(ii) Onsite										
	Construction of 250KL ELSR	KL	250	0.251	62.68	62.68	47.01	9.40	6.27	0.00	
	Disrtibution Pipe lines	Rmt	2972	0.011	33.47	33.47	25.10	5.02	3.35	0.00	
Sub Total					206.11	206.11	154.58	30.92	20.61	0.00	

SULLURPET MUNICIPALITY
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(Rs in lacs)										
Scheme Component	Type	Qty. in Nos.	Rate (in Rs/Unit)	Proposed Project Cost	Appraised Project Cost	Central share	State Govt. Share	ULB Share	Beneficiaries Share	
Storm Water Drains										
3	(i) Onsite drain	Metre	6556.25	0.015	100.93	100.93	75.70	15.14	10.09	0.00
	(ii) Off site drain	Metre	179.65	0.044	7.99	7.99	5.99	1.20	0.80	0.00
	(iii) Culvert	Metre	390.2	0.039	15.3	15.3	11.48	2.30	1.53	0.00
Sub Total					124.22	124.22	93.17	18.63	12.42	0.00
Street Lighting										
4	(i) HT/LT / supply line works / street light pole and transformers	No.s	105	0.32	33.64	33.64	25.23	5.05	3.36	0.00
5	Severage									
	(i) Septic Tank	Nos	564	0.113	63.732	63.732	47.80	9.56	6.37	0.00
6	Demolition of semipucca	Nos	174		5.22	5.22	0.00	5.22	0.00	0.00
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Total (A+B)					2421.15	2320.08	1692.00	352.45	58.49	217.14
Ratio of Housing to Infrastructure					74.87:25.13	75.00:25.00	75.00:25.00			

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1	O&M Cost (up to 4%)		4%		96.85	92.80	69.60	23.20	0.00	0.00
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	Sub Total (A+B+C)				2518.00	2412.89	1761.60	375.65	58.49	217.14
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3	Social audit	0.50%			12.11	11.60	0.00	11.60	0.00	0.00
4	VAT @5% (HOUSING)		0.16		87.42	87.42	0.00	87.42	0.00	0.00
5	VAT @5% (Infrastructure)		0.05		33.64	28.58	0.00	28.59	0.00	0.00
	Sub Total (D)				193.69	185.61	0.00	185.61	0.00	0.00
	Grand Total (A+B+C+D)				2711.69	2598.49	1761.60	561.26	58.49	217.14