

# **RAJIV AWAS YOJANA PURI**

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**In-situ Upgradation of Slum at Tridev Nagar, Puri**

**Presentation before CSMC, 11<sup>TH</sup>.November, 2014**

# Puri at a Glance

- Located at 19.8°N 85.85°E
- Elevation of 0 metres above MSL
- District headquarters of Puri District, Odisha
- 60 Km south of state capital, Bhubaneswar
- Holy city of the Hindus as a part of Char Dham pilgrimages



# Puri at a Glance

- Biggest attraction is famous Temple of Jagannatha
- One of the tallest monuments in India
- Also famous for annual Ratha Yatra
- Second great attraction of Puri is the sea beach



# Slum Pocket at a Glance

- Slum Name: Tridev Nagar
- Located in Ward 5
- No. of HHs: 352
- Population: 1529 persons
- Slum encroached on Puri Municipality Land
- Plot No. 31 and 55
- Area: 2.68 Ha
- Housing Density: 143 DU/Ha





# Slum Pocket at a Glance



Kuchha Houses



Narrow Street / Obstruction



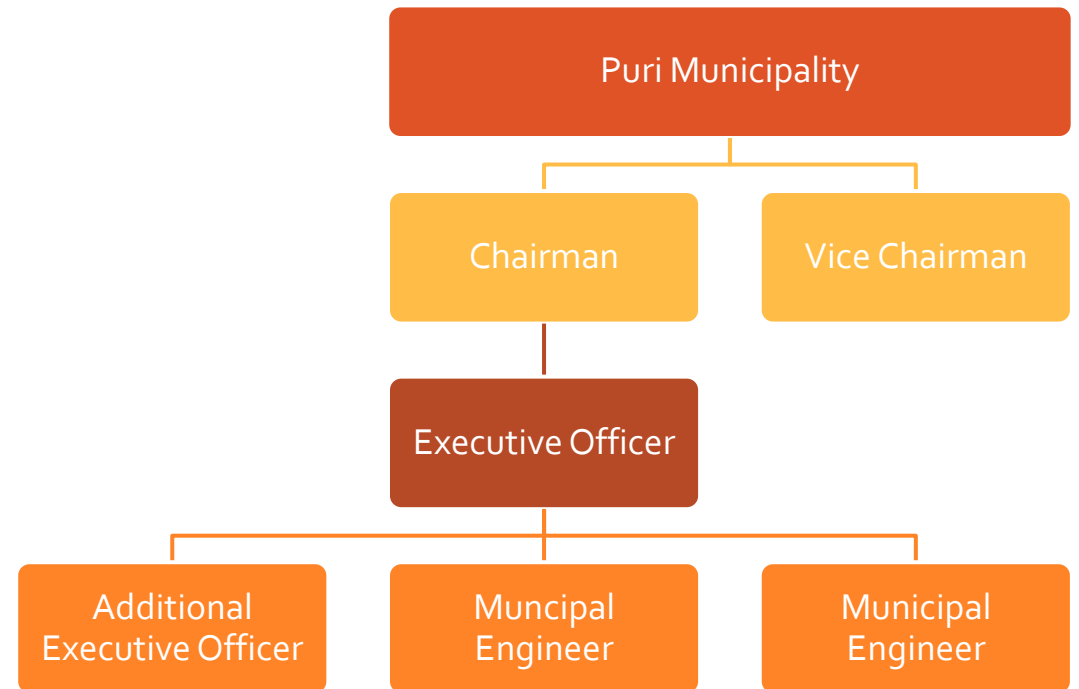
Drainage on Limited Streets



Poor Solid Waste Management

# Institutional Framework

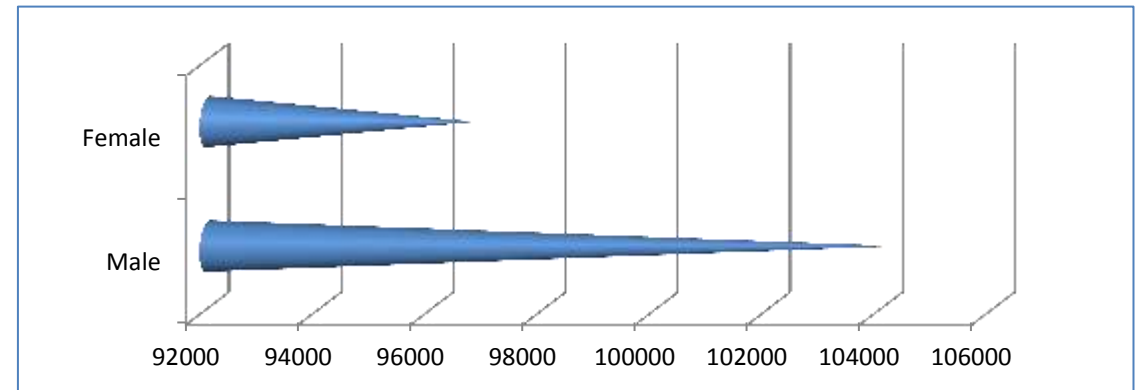
- Puri Municipality established in 1864 as Puri Improvement Trust
- Transformed into Puri Municipality in 1881
- Total 32 Wards
- Master Plan area consists of Puri Municipal area and 16 other adjoining villages



# Demographics Profiles

<b>Population</b>	<b>2,01,026 persons</b>
<b>Male Population</b>	<b>Female Population</b>
1,04,267	96,759
<b>Sex Ratio</b>	<b>928</b>
<b>Literacy Rate</b>	<b>81.82%</b>
<b>Children aged 0-6 year</b>	<b>17,000 (8.46%)</b>

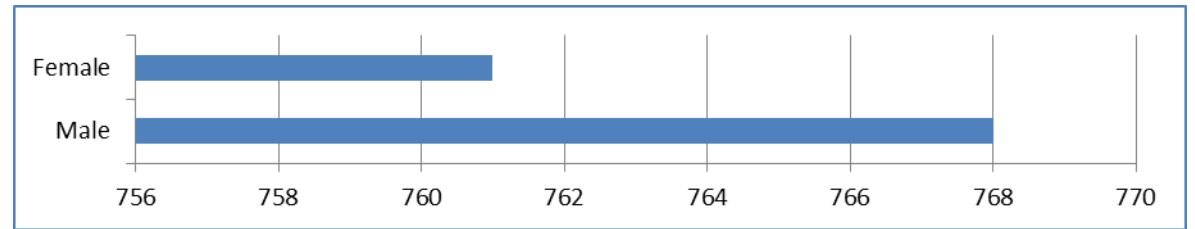
## Population - Puri



# Demographics Profiles

<b>Population</b>	<b>1,529 persons</b>
<b>Male Population</b>	<b>Female Population</b>
768	761
<b>Sex Ratio</b>	<b>991</b>
<b>Literacy Rate</b>	<b>87%</b>

## Gender Wise Population





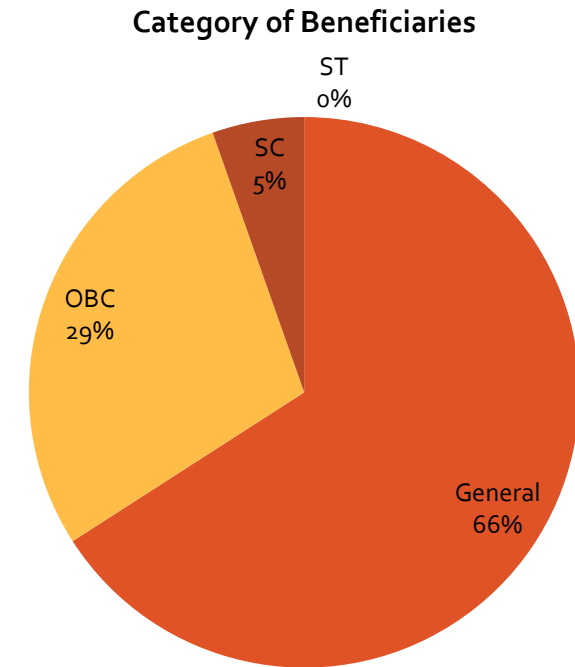
# Demographics Profiles

General	OBC	SC	ST	Total
232	101	19	0	352

Majority Population is General: 66%

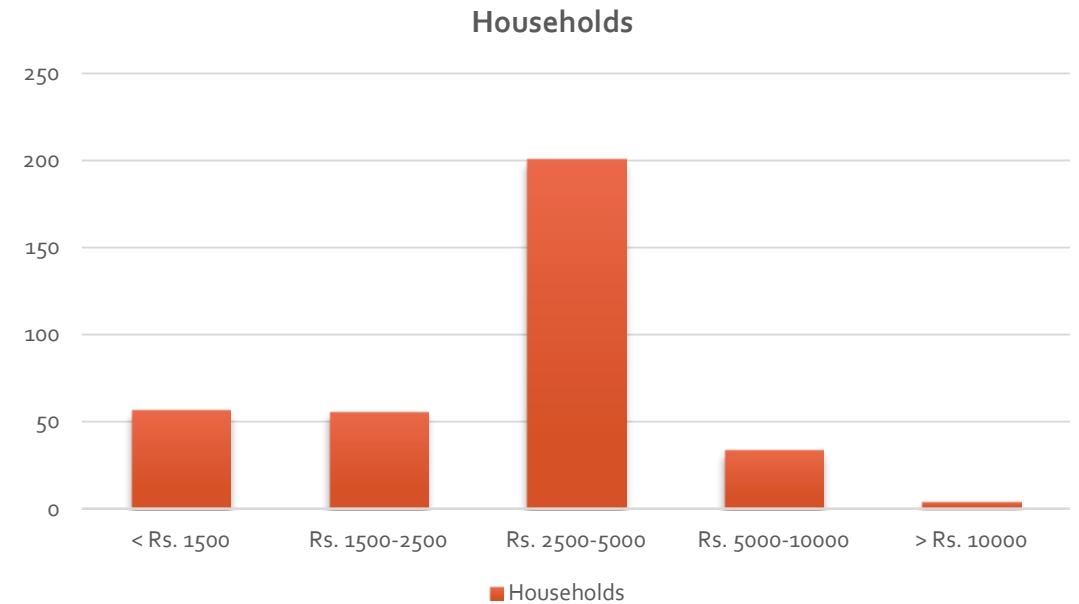
No. of children of 6-14 years age not attending school 17

Differently abled Persons: 36 (2%)



# Socio-Economic Profile

- Most households subsist on or less than Rs. 5,000 every month
- Average income per HH: Rs. 3540/=
- All but one family practices Hinduism
- 1 Family is Christian

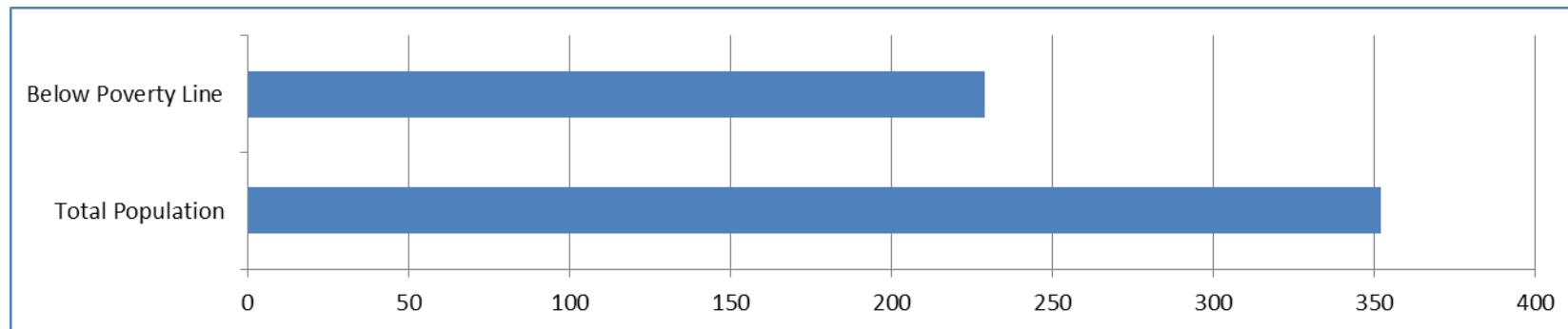


	< Rs. 1500	Rs. 1500-2500	Rs. 2500-5000	Rs. 5000-10000	> Rs. 10000	Total
Households	57	56	201	34	4	352

# BPL Families

- 229 HHs Below Poverty Line
- Balance above Poverty Line

## Below Poverty Line House Holds



# Strategy

- Slum well connected to city infrastructure
- Slum is on encroached land of Puri Municipality
- Land ownership lies with Puri Municipality
- Beneficiaries' consent taken for Redevelopment
- **In-situ Up-gradation / Redevelopment Strategy** is being adopted

# Salient Features of the Project

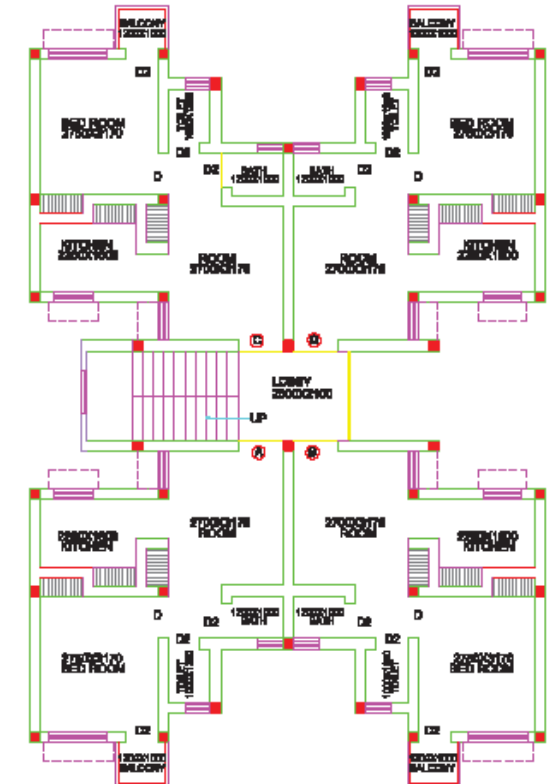
- Project covers 384 Dwelling Units (32 transit dwellings) in 24 blocks G+3 storied, 4 units at each floor @ Rs. 3.37 Lacs Per Unit
- Each D/U has 2 Rooms (8.72 & 8.57 Sq. m area) and a Kitchen area 3.6 Sq. m
- Separate W.C area 1.25 Sq. m
- Bathroom area 1.20 sq. m
- Water Supply Connection to each unit
- Water Storage tanks for each unit
- Social Infrastructure includes Community Centre , a Primary School and Parks.
- Rain Water Harvesting
- Street Lighting with LED street lamps
- Total Open Area: 9656.58 Sq. m

# Details of Proposed DUs

- Carpet Area of DU 26.20 Sq. m
- Total Floor Area 35.25 Sq. m
- Each D/U has 2 Rooms  
(8.72 & 8.57 Sq. m area) and a Kitchen area 3.6 Sq. m
- Separate W.C area 1.25 Sq. m
- Bathroom area 1.20 sq. m
- Common Staircase serving 4 D/U at each floor.
- Entrance to the block with Paved Pathway



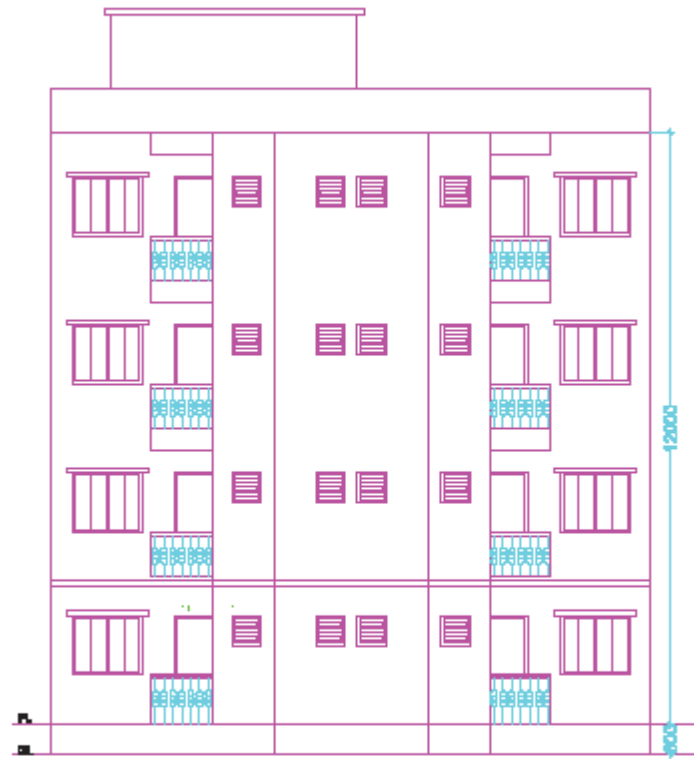
**SINGLE UNIT PLAN**



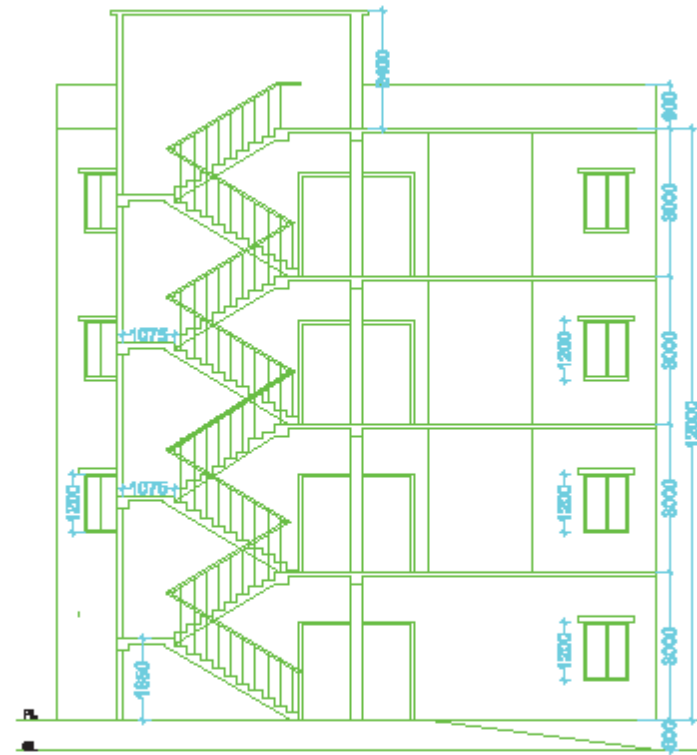
**TYPICAL FLOOR PLAN**



# Elevation and Section of Typical block



**SIDE ELEVATION**



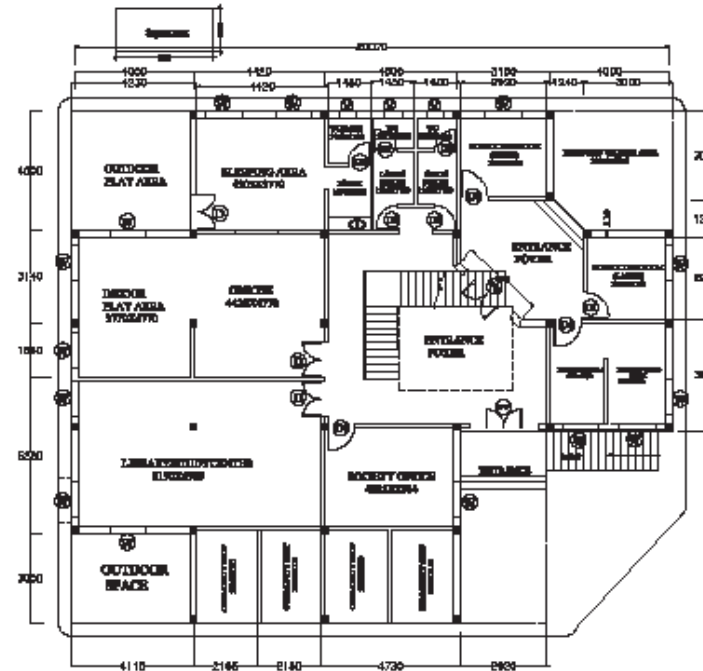
**SECTION AT A-A**

# Proposed Community Centre

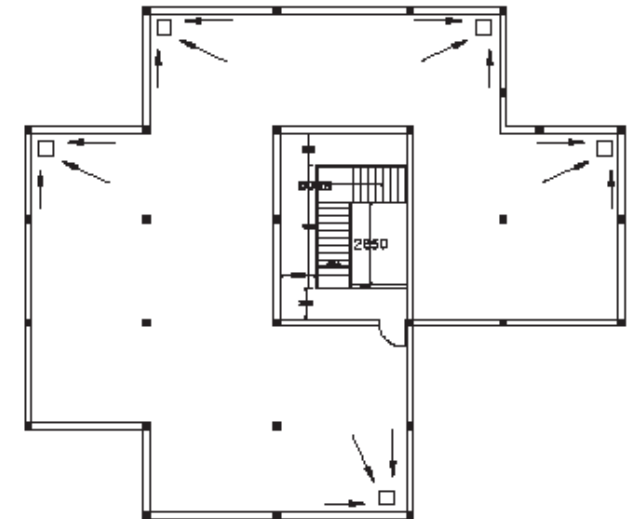
- Built-up Area: 295 Sq. m

## Accommodates

- one Society Office.
- Space for Vendors
- Crèche & Sleeping area.
- Indoor Play Area.
- Separate Consultation rooms for ladies & Gents.
- Medical Store & Dressing .
- Separate toilets for Ladies & Gents.
- Waiting Area.
- Spacious Entrance Foyer.



GROUND FLOOR PLAN



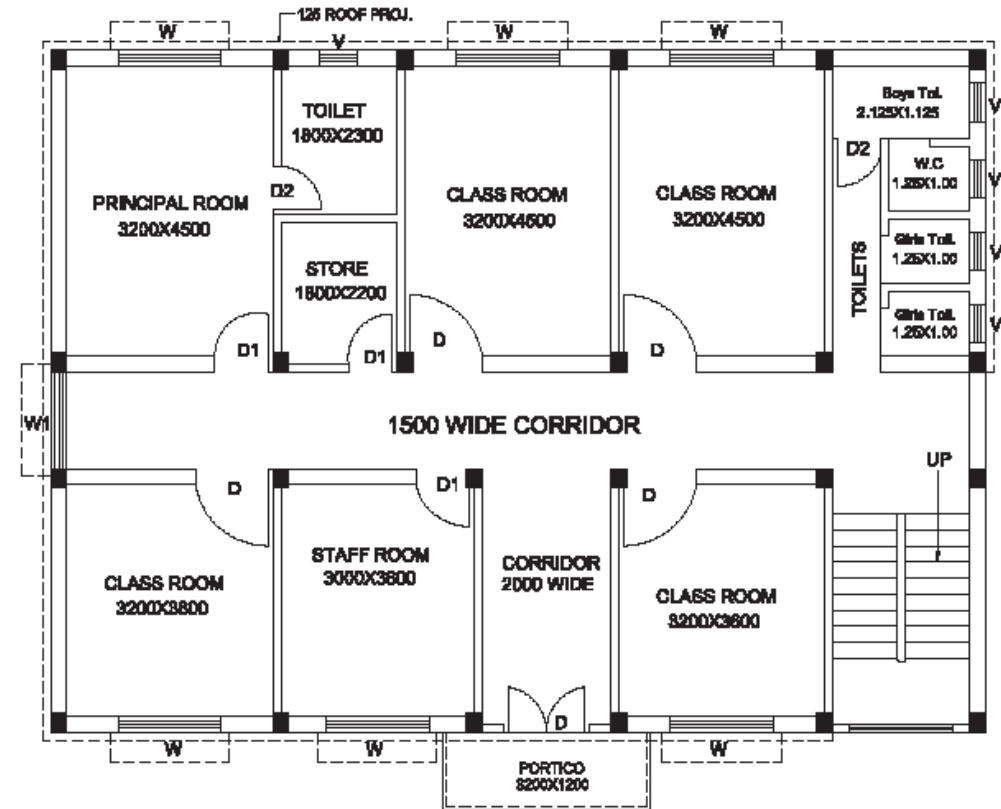
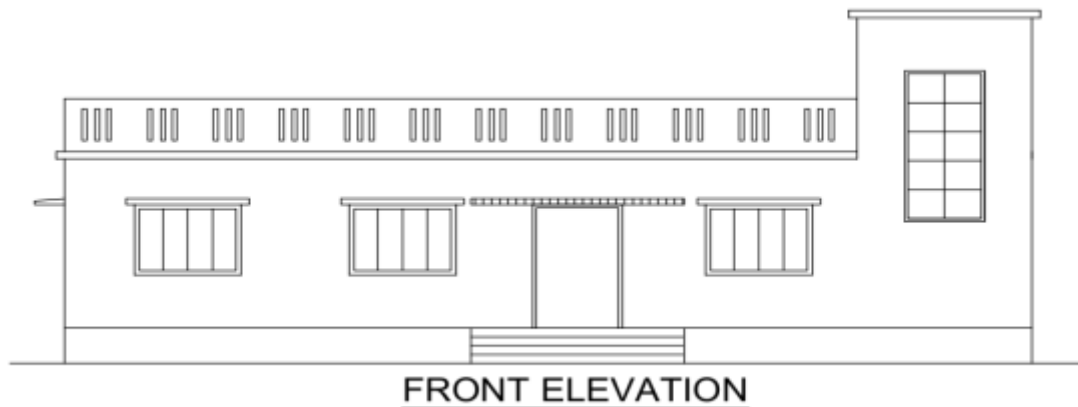
TERRACE FLOOR PLAN

# Proposed Informal Educational Centre

- Built-up Area: 154 Sq. m.

## Accommodates

- 4 Class rooms.
- Staff room.
- Principal Room with attached toilet.
- Store.
- Separate toilet for boys & Girls.
- Corridor & Staircase.

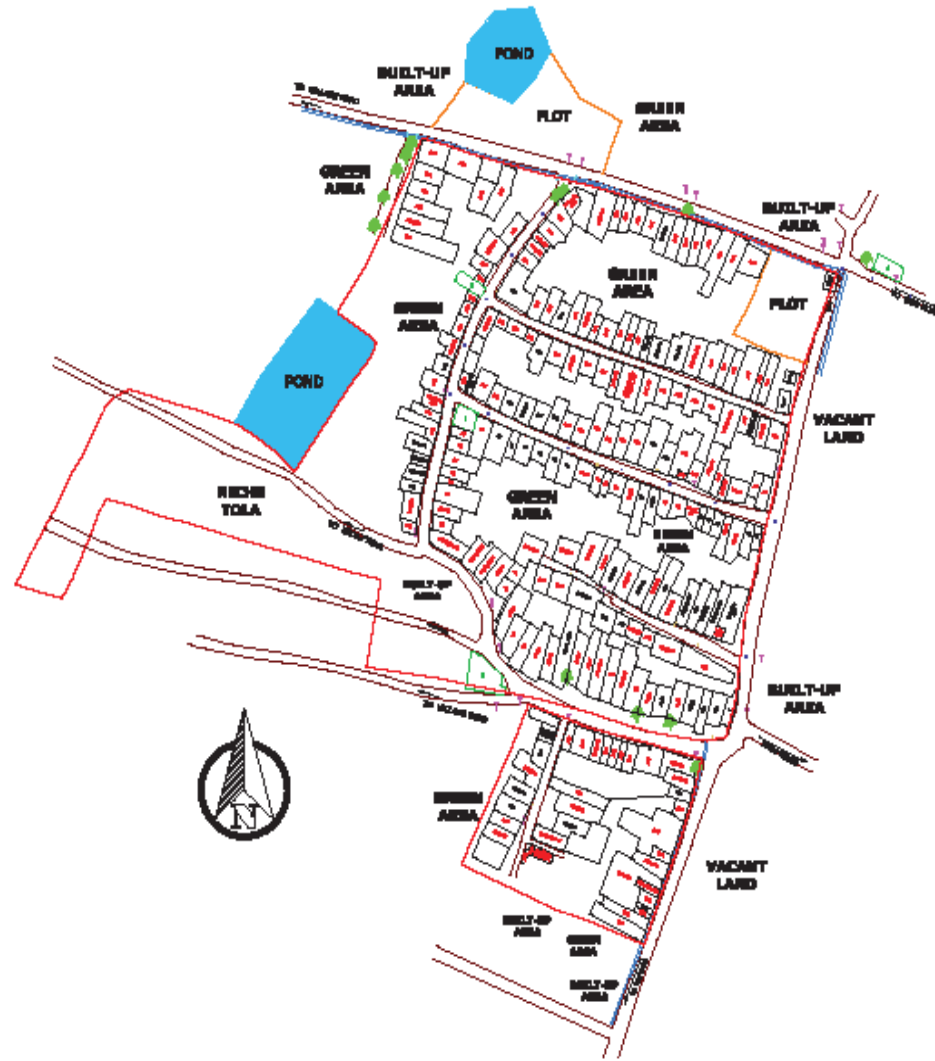


**Informal Education Centre**

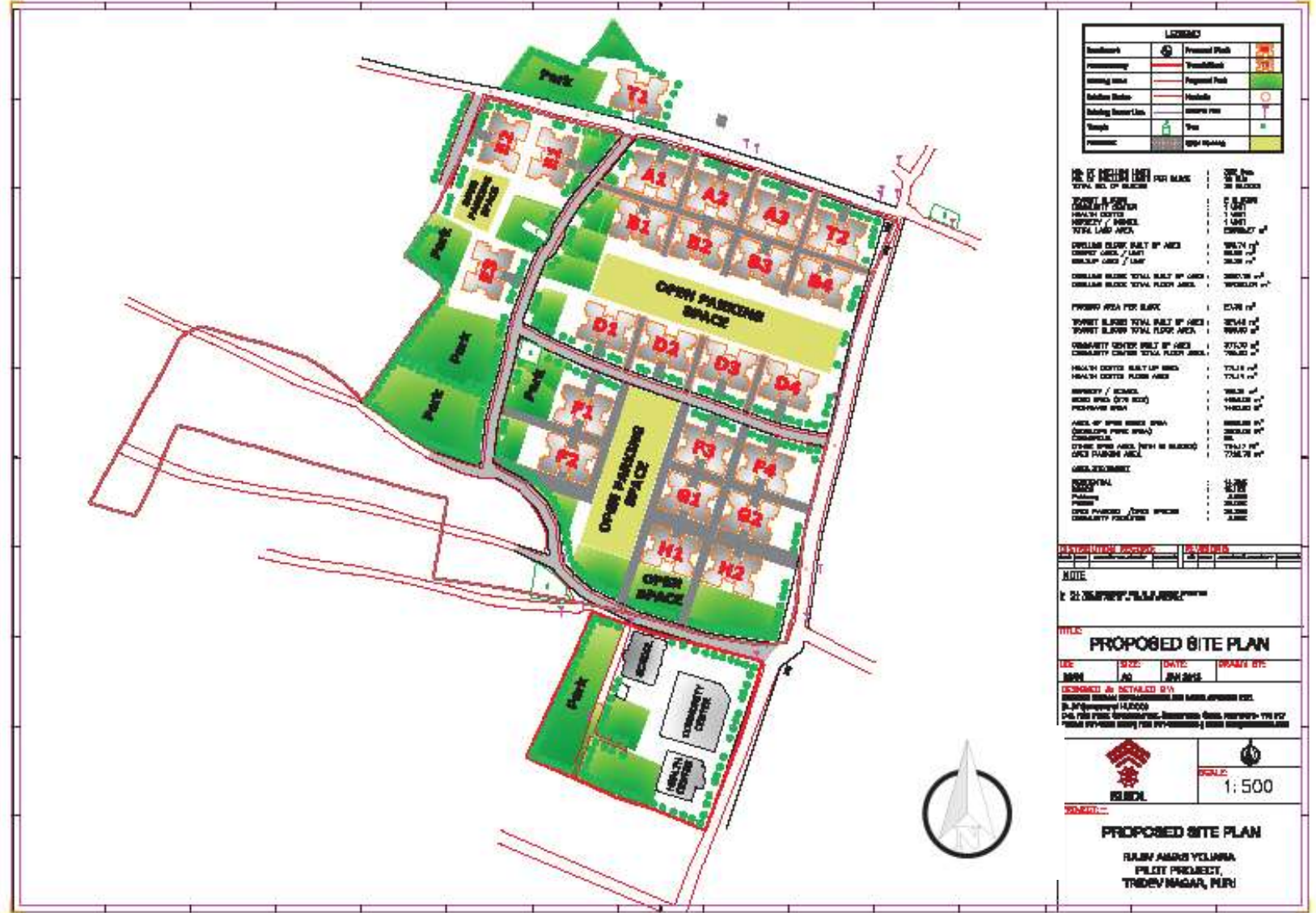
# Existing Site Plan

## LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SLUM BOUNDARY		HANDPUMP	
ELECTRIC POLE		TAP / STANDPOST	
TELEPHONE POLE		DRAIN	
ROAD		MANHOLE	
TREE		HOUSE	
TRANSFORMER		SPOT ELEVATION	
TEMPLE		POND	
TOILET		SURVEYED HOUSE	H-170
CULVERT			
CONTOUR MAJOR			
CONTOUR MINOR			



# Proposed Site Plan





# Proposed Road Network

## Proposed Road Network

- Layout Road = 7.5 M wide
- Peripheral Road = 9.0 M wide.
- Paved Footpath = 2.0 m wide.

LEGEND			
Benchmark		Proposed Block	D4
Plot Boundary	—	Transit Block	T1
Existing Road	—	Prop. Road	
Existing Drains	—	Pavement	
Existing Sewer Line	—	Proposed Park	
Temple	🏠	Open Parking	
Manhole	⊙		
Electric Pole	⊥		





# Proposed Water Supply

- Total Pipe Length: 1210 R/m of varying dia.
- Underground Sumps
  - 2 Nos. Each of 1.04 Lacs Liters capacity.
- Pumps - 4 Nos.
  - 2 Pumps per Sump
    - 1 Working + 1 Standby
- Sumps to be connected to Municipal Water Supply
- Provision of Water Tanks for each Block of 2000 Liters Capacity
- Water to be pumped from Sump to Tanks twice a day



LEGEND			
Benchmark		Proposed Block	
Plot Boundary		Transit Block	
Existing Road		Prop. Water Pipes	
Existing Drains		Prop. Electric Pole	
Existing Sewer Line		Prop. Water Sump	
Temple		Pavement	
Manhole		Proposed Park	
Electric Pole		Open Parking	
Prop. Water Pipes		65mm Dia Pipe	
		80mm Dia Pipe	
		100mm Dia Pipe	
		125mm Dia Pipe	
		150mm Dia Pipe	



# Proposed Sewerage













- Septic Tanks Proposed
  - 8 Nos.
  - Each for 250 Users
  - Total Sewerage Network
  - 1220 R/m of 150 mm. Dia.

LEGEND			
Benchmark		Proposed Block	
Plot Boundary		Transit Block	
Existing Road		Prop. Sewer Line	
Existing Drains		Prop. Septic Tank	
Existing Sewer Line		Pavement	
Temple		Proposed Park	
Manhole		Open Parking	
Electric Pole			



# Proposed Drainage

- Total Drain Length: 1340 m
- Outfall into City Municipal Drainage Network

LEGEND			
Benchmark		Proposed Block	D4
Plot Boundary		Transit Block	T1
Existing Road		Prop. Sewer Line	
Existing Drains		Prop. Storm Drain	
Existing Sewer Line		Prop. Septic Tank	
Temple		Pavement	
Manhole		Proposed Park	
Electric Pole		Open Parking	





# Proposed Electrification & Solid Waste Management.

## Electrification

- Sufficient no. and capacity of Transformers available
- Additional requirement of Electric Poles
  - 9 Nos.
- 9 New Poles to be fitted with LED Lighting system

## Solid Waste Management

- HDPE Dust Bins
  - 16 Nos.
  - Size; 2.5 X 1.5 X 1.5 M
  - 5.625 cum Capacity

LEGEND			
Benchmark		Proposed Block	
Plot Boundary		Transit Block	
Existing Road		Prop. Electric Pole	
Existing Drains		Pavement	
Existing Sewer Line		Proposed Park	
Temple		Open Parking	
Manhole			
Electric Pole			



# Cost Summary

Description	Amount (Rs in lacs)
Dwelling Units	1186.24
Transit Accommodation	107.84
Community Center	35.40
Nursery / School	31.21
Parks	10.38
Roads	42.91
Culverts	2.29
Water Supply	22.82
Water Sump	31.20
Septic Tank	19.36

Contd.

# Cost Summary

Description	Amount (Rs in lac)
Sewerage Network	19.50
Storm Water Drains	24.76
Solid Waste Management	6.95
Electrification / Street Lighting	43.99
Water Harvesting	13.04
Sub Total	1597.89
DPR Preparation, PMC, Supervision & Quality Control @ 5%	79.89
Capacity Building, Community Mobilization, Social Audit, TPIM @ 5%	79.89
Operation & Maintenance for 5 Years@ 2%	59.60
Escalation for one Year @10%	159.36
Grand Total	1976.43
Say, Rs.	Rs. 1976.43



# Percentage of the Infrastructure Cost

Item	Amount (in Lacs)	Percentage
Housing	1294.08	80.99%
Physical Infrastructure	226.82	14.19%
Social Infrastructure	76.99	4.82%
Others		
<b>Grand Total</b>	<b>1597.89</b>	<b>100.00%</b>

# Financial Proposal

Category	Project Cost (Rs. In lacs)	GOI Share (Rs. In lacs)	State Govt. Share (Rs. In lacs)	ULB Share (Rs. In Lacs)	Beneficiaries' Share (Rs. In Lacs)
Housing	1294.08	957.33	207.35	10.78	118.62
Physical Infrastructure	226.82	160.32	39.88	26.62	
Social Infrastructure	76.99	34.35	25.60	17.04	
Others					
<b>Grand Total</b>	<b>1597.89</b>	<b>1152.00</b>	<b>272.83</b>	<b>54.44</b>	<b>118.62</b>



**THANK YOU**